

**GOVERNMENT OF HIMACHAL PRADESH  
FOREST DEPARTMENT**



**WORKING PLAN FOR THE FORESTS  
WORKING PLAN FOR THE FORESTS**

**OF**

**ANNI FOREST DIVISION  
(2022 TO 2032)  
VOLUME-II**

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|          |                                                                                                                                                                                                                      |                   |             |         |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|---------|
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Range wise area statement of Forest (Area in hac. )

Appendix  
-I

| Name of Range                                | Sr.No. | Name of Forest       | Comptt. No. | Area in Ha.    | Allotment   |
|----------------------------------------------|--------|----------------------|-------------|----------------|-------------|
| <b>RESERVE FOREST</b>                        |        |                      |             |                |             |
| Arsu                                         | 1      | R/1 SHILLI GIRCHI    | C-I         | 327.8          | PWC         |
|                                              | 2      | R/1 SHILLI GIRCHI    | C-II        | 274.38         | PWC         |
|                                              | 3      | R/1 SHILLI GIRCHI    | C-III       | 251.31         | PWC         |
|                                              | 4      | R/2 PRALI GIRCHI     | C-I         | 304.73         | PWC         |
|                                              | 5      | R/2 PRALI GIRCHI     | C-II        | 248.48         | PWC         |
|                                              | 6      | R/2 PRALI GIRCHI     | C-III       | 212.87         | PWC         |
|                                              | 7      | R/3 JUJUTH           | C-I         | 58.27          | D/K PB -IV  |
|                                              | 8      | R/3 JUJUTH           | C-II        | 111.69         | F/S PB-II   |
|                                              | 9      | R/3 JUJUTH           | C-III(a)    | 53.82          | D/K PB -IV  |
|                                              | 10     | R/3 JUJUTH           | C-III(b)    | 32.37          | F/S PB-III  |
|                                              |        | <b>Total RF</b>      |             | <b>1875.72</b> |             |
| <b>DEMARCATED PROTECTED FOREST (I Class)</b> |        |                      |             |                |             |
|                                              | 1      | 1/1 TIKKAR           | C-Ia        | 107.24         | CWC PB-IV   |
|                                              | 2      | 1/1 TIKKAR           | C-Ib        | 106.43         | PWC         |
|                                              | 3      | 1/1 TIKKAR           | C-IIa       | 180.49         | CWC PB-IV   |
|                                              | 4      | 1/1 TIKKAR           | C-IIb       | 248.08         | PWC         |
|                                              | 5      | 1/1 TIKKAR           | C-III       | 256.98         | PWC         |
|                                              | 6      | 1/2 SHIKARWA         | C-I         | 16.19          | D/K PB -II  |
|                                              | 7      | 1/2 SHIKARWA         | C-II        | 24.28          | D/K PB -III |
|                                              | 8      | 1/3 RAMGARH KANDI    | C-I         | 33.99          | D/K PB -III |
|                                              | 9      | 1/3 RAMGARH KANDI    | C-II        | 40.87          | D/K PB -II  |
|                                              | 10     | 1/3 RAMGARH KANDI    | C-III       | 41.28          | D/K PB -II  |
|                                              | 11     | 1/3 RAMGARH KANDI    | C-IV        | 35.61          | D/K PB -I   |
|                                              | 12     | 1/4 DRAD REUNS       | WHOLE       | 540.67         | PWC         |
|                                              | 13     | 1/5 KANDU SHILLA     | C-Ia        | 16.19          | D/K PB -IV  |
|                                              | 14     | 1/5 KANDUSHILLA      | C-Ib        | 8.9            | F/S PB-I    |
|                                              | 15     | 1/5 KANDU SHILLA     | C-IIa       | 12.14          | D/K PB -III |
|                                              | 16     | 1/5 KANDUSHILLA      | C-IIb       | 9.71           | F/S PB-III  |
|                                              | 17     | 1/5 KANDUSHILLA      | C-III       | 56.25          | F/S PB-III  |
|                                              | 18     | 1/5 KANDU SHILLA     | C-IV        | 33.59          | D/K PB -III |
|                                              | 19     | 1/6 KULAPANI         | C-I         | 21.85          | PWC         |
|                                              | 20     | 1/6 KULAPANI         | C-II        | 39.25          | PWC         |
|                                              | 21     | 1/7 DRAD             | C-I         | 28.33          | PWC         |
|                                              | 22     | 1/7 DRAD             | C-II        | 80.94          | PWC         |
|                                              | 23     | 1/7 DRAD             | C-III       | 131.53         | PWC         |
|                                              | 24     | 1/7 DRAD             | C-IV        | 152.97         | PWC         |
|                                              |        | <b>Total I Class</b> |             | <b>2223.76</b> |             |

|  |    |                                               |       |                 |              |
|--|----|-----------------------------------------------|-------|-----------------|--------------|
|  |    | <b>DEMARCATED PROTECTED FOREST (II Class)</b> |       |                 |              |
|  | 1  | 2/1 BRATI                                     | C-I   | 179.68          | PWC          |
|  | 2  | 2/1 BRATI                                     | C-II  | 133.55          | PWC          |
|  | 3  | 2/1 BRATI                                     | C-III | 229.87          | PWC          |
|  | 4  | 2/1 BRATI                                     | C-IV  | 155             | PWC          |
|  | 5  | 2/1 BRATI                                     | C-V   | 451.23          | PWC          |
|  | 6  | 2/2 JIA                                       | WHOLE | 156.62          | PWC          |
|  | 7  | 2/3 SIARUNAL                                  | C-I   | 71.23           | CWC PB - III |
|  | 8  | 2/3 SIARUNAL                                  | C-II  | 38.44           | CWC PB-IV    |
|  | 9  | 2/4 DOBDA                                     | WHOLE | 473.49          | PWC          |
|  | 10 | 2/5 BAGORI                                    | WHOLE | 671.79          | PWC          |
|  | 11 | 2/6 GADA MAWA                                 | WHOLE | 35.61           | CWC PB-III   |
|  | 12 | 2/7 TANDITHER                                 | WHOLE | 104.81          | PWC          |
|  | 13 | 2/8 SAMPATU                                   | WHOLE | 216.11          | PWC          |
|  | 14 | 2/9 GULOL                                     | WHOLE | 371.1           | PWC          |
|  | 15 | 2/10 MUL                                      | WHOLE | 219.34          | PWC          |
|  | 16 | 2/11 KALEO                                    | C-I   | 246.86          | PWC          |
|  | 17 | 2/11 KALEO                                    | C-II  | 242.81          | PWC          |
|  | 18 | 2/11 KALEO                                    | C-III | 372.37          | PWC          |
|  | 19 | 2/11 KALEO                                    | C-IV  | 520.23          | PWC          |
|  | 20 | 2/12 BALACHA                                  | C-I   | 210.44          | PWC          |
|  | 21 | 2/12 BALACHA                                  | C-II  | 144.47          | PWC          |
|  | 22 | 2/13 SHAKAWA                                  | WHOLE | 1537.84         | PWC          |
|  | 23 | 2/14 DANDA                                    | WHOLE | 1618.78         | PWC          |
|  | 24 | 2/15 DAWARIDANDA                              | WHOLE | 679.89          | PWC          |
|  | 25 | 2/16 BERNAGI                                  | C-I   | 52.2            | PWC          |
|  | 26 | 2/16 BERNAGI                                  | C-II  | 61.11           | PWC          |
|  | 27 | 2/16 BERNAGI                                  | C-III | 80.94           | PWC          |
|  | 28 | 2/16 BERNAGI                                  | C-IV  | 315.66          | PWC          |
|  | 29 | 2/17 DADAI                                    | C-I   | 149.72          | PWC          |
|  | 30 | 2/17 DADAI                                    | C-II  | 186.15          | PWC          |
|  | 31 | 2/17 DADAI                                    | C-III | 165.92          | PWC          |
|  | 32 | 2/18 RACHOKARI                                | C-I   | 145.69          | PWC          |
|  | 33 | 2/18 RACHOKARI                                | C-II  | 194.25          | PWC          |
|  | 34 | 2/19 MANDROW                                  | C-I   | 99.96           | F/S PB-IV    |
|  | 35 | 2/19 MANDROW                                  | C-II  | 151.76          | F/S PB-III   |
|  | 36 | 2/19 MANDROW                                  | C-III | 176.85          | F/S PB-III   |
|  | 37 | 2/19 MANDROW                                  | C-IV  | 334.68          |              |
|  |    | <b>Total II Class</b>                         |       | <b>11196.45</b> |              |
|  |    | <b>Lied UNDEMARCATED PROTECTED FOREST</b>     |       |                 |              |
|  | 1  | Jiman Dogri                                   | 1     | 40.46           | PWC          |
|  | 2  | Basawari                                      | 2     | 352.07          | PWC          |
|  | 3  | Sarahan I                                     | 3     | 182.1           | PWC          |

|  |    |            |    |        |     |
|--|----|------------|----|--------|-----|
|  | 4  | Sarahan II | 4  | 149.73 | PWC |
|  | 5  | Bramgarh   | 5  | 293.4  | PWC |
|  | 6  | Shalat     | 6  | 400.64 | PWC |
|  | 7  | Barna      | 7  | 157.83 | PWC |
|  | 8  | Bijali     | 8  | 60.7   | PWC |
|  | 9  | Bail       | 9  | 874.15 | PWC |
|  | 10 | Sisu       | 10 | 60.7   | PWC |
|  | 11 | Kanraon    | 11 | 97.12  | PWC |
|  | 12 | Kathanda   | 12 | 186.15 | PWC |
|  | 13 | Randal     | 13 | 356.12 | PWC |
|  | 14 | Ralu       | 14 | 311.24 | PWC |
|  | 15 | Brow       | 15 | 121.12 | PWC |
|  | 16 | Nishani    | 16 | 60.7   | PWC |
|  | 17 | Mareli     | 17 | 67.77  | PWC |
|  | 18 | Kasholi    | 18 | 117.36 | PWC |
|  | 19 | Pankua     | 19 | 234.7  | PWC |
|  | 20 | Banao      | 20 | 90.95  | PWC |
|  | 21 | Damauli    | 21 | 218.53 | PWC |
|  | 22 | Razairi    | 22 | 60.24  | PWC |
|  | 23 | Deotahn    | 23 | 84.98  | PWC |
|  | 24 | Kareya     | 24 | 125.45 | PWC |
|  | 25 | Amathua    | 25 | 36.42  | PWC |
|  | 26 | Pakora     | 26 | 283.28 | PWC |
|  | 27 | Tharua     | 27 | 99.14  | PWC |
|  | 28 | Kothi      | 28 | 117.36 | PWC |
|  | 29 | Shil       | 29 | 283.28 | PWC |
|  | 30 | Neger      | 30 | 198.3  | PWC |
|  | 31 | Tinder     | 31 | 246.85 | PWC |
|  | 32 | Jawag      | 32 | 20.23  | PWC |
|  | 33 | Keodhar    | 33 | 113.31 | PWC |
|  | 34 | Sarga      | 34 | 68.8   | PWC |
|  | 35 | Neokundar  | 35 | 364.22 | PWC |
|  | 36 | Kushua     | 36 | 186.15 | PWC |
|  | 37 | Kater      | 37 | 97.15  | PWC |
|  | 38 | Kindla     | 38 | 305.53 | PWC |
|  | 39 | Kincho     | 39 | 655.39 | PWC |
|  | 40 | Nal        | 40 | 32.37  | PWC |
|  | 41 | Kharga     | 41 | 165.92 | PWC |
|  | 42 | Bhakan     | 42 | 343.18 | PWC |
|  | 43 | Dharmot    | 43 | 194.24 | PWC |
|  | 44 | Gundi      | 44 | 267.09 | PWC |
|  | 45 | Basalai    | 45 | 145.68 | PWC |
|  | 46 | Tunan      | 46 | 326.31 | PWC |
|  | 47 | Sharshaya  | 47 | 244.88 | PWC |



|              |    |                                              |        |                 |             |
|--------------|----|----------------------------------------------|--------|-----------------|-------------|
|              | 48 | Jahalu                                       | 48     | 233.43          | PWC         |
|              |    | <b>Total Lled UPF</b>                        |        | <b>9732.72</b>  |             |
|              |    | <b>G.Total Arsu Range</b>                    |        | <b>25028.65</b> |             |
| Chowai Range |    | <b>RESERVE FOREST</b>                        |        |                 |             |
|              | 1  | R/5 GHANER KALAON                            | Whole  | 4.05            | D/K PB -II  |
|              | 2  | R/6 JARONU                                   | Whole  | 13.35           | D/K PB -IV  |
|              | 3  | R/7 TAKRASI                                  | C-I    | 47.35           | D/K PB -I   |
|              | 4  | R/7 TAKRASI                                  | C-II   | 71.63           | D/K PB -IV  |
|              | 5  | R/8 KALAON                                   | Whole  | 48.97           | D/K PB -II  |
|              |    | <b>Total RF</b>                              |        | <b>185.35</b>   |             |
|              |    | <b>DEMARCATED PROTECTED FOREST (I Class)</b> |        |                 |             |
|              | 1  | 1/11 KOT                                     | C-Ia   | 36.42           | D/K PB -III |
|              | 2  | 1/11 KOT                                     | C-Ib   | 14.57           | F/S PB-I    |
|              | 3  | 1/11 KOT                                     | C-II   | 69.61           | D/K PB -I   |
|              | 4  | 1/11 KOT                                     | C-III  | 36.42           | F/S PB-II   |
|              | 5  | 1/12 DRAD REUNS                              | C-I    | 89.03           | D/K PB -I   |
|              | 6  | 1/12 DRAD REUNS                              | C-II   | 52.2            | F/S PB-III  |
|              | 7  | 1/12 DRAD REUNS                              | C-III  | 126.26          | F/S PB-III  |
|              | 8  | 1/13SATHABANDRI TRIJHAKAR                    | C-I    | 44.92           | CWC PB-I    |
|              | 9  | 1/13SATHABANDRI TRIJHAKAR                    | C-Iia  | 20.23           | D/K PB -III |
|              | 10 | 1/13SATHABANDRI TRIJHAKAR                    | C-Iib  | 39.66           | D/K PB -I   |
|              | 11 | 1/13SATHABANDRI TRIJHAKAR                    | C-III  | 29.14           | D/K PB -III |
|              | 12 | 1/13SATHABANDRI TRIJHAKAR                    | C-IV   | 38.04           | D/K PB -III |
|              | 13 | 1/13SATHABANDRI TRIJHAKAR                    | C-Va   | 17.81           | D/K PB -I   |
|              | 14 | 1/13SATHABANDRI TRIJHAKAR                    | C-Vb   | 17              | PWS         |
|              | 15 | 1/13SATHABANDRI TRIJHAKAR                    | C-VI   | 67.18           | F/S PB-III  |
|              | 16 | 1/13SATHABANDRI TRIJHAKAR                    | C-VIIa | 134.36          | F/S PB-I    |
|              | 17 | 1/13SATHABANDRI TRIJHAKAR                    | C-VIIb | 36.42           | F/S PB-II   |
|              | 18 | 1/19 LAMBIDHAR                               | WHOLE  | 33.99           | CWC PB-II   |
|              | 19 | 1/20 DAGRUT                                  | WHOLE  | 36.02           | CWC PB-II   |
|              | 20 | 1/21 KUI JHAKAR                              | Whole  | 12.54           | D/K PB -II  |
|              | 21 | 1/22 BARU BHARRED                            | Whole  | 63.54           | D/K PB -II  |

|    |                            |        |       |             |
|----|----------------------------|--------|-------|-------------|
| 22 | 1/23 OLINAL                | C-I    | 21.45 | F/S PB-I    |
| 23 | 1/23 OLINAL                | C-II   | 30.35 | D/K PB -I   |
| 24 | 1/25 PHON                  | Whole  | 33.18 | D/K PB -II  |
| 25 | 1/26 PARKOTSHIL            | C-Ia   | 36.43 | CWC PB-II   |
| 26 | 1/26 PARKOTSHIL            | C-Ib   | 29.14 | CWC PB-IV   |
| 27 | 1/26 PARKOTSHIL            | C-II   | 72.03 | D/K PB -II  |
| 28 | 1/27 BUNGBINDRABAN         | C-I    | 43.3  | D/K PB -II  |
| 29 | 1/27 BUNGBINDRABAN         | C-IIa  | 11.74 | D/K PB -I   |
| 30 | 1/27 BUNGBINDRABAN         | C-IIb  | 6.47  | D/K PB -II  |
| 31 | 1/27 BUNGBINDRABAN         | C-III  | 42.9  | CWC PB-II   |
| 32 | 1/27 BUNGBINDRABAN         | C-IV   | 46.94 | CWC PB-I    |
| 33 | 1/28KOTADHAR & RIACHATHACH | C-I    | 5.26  | D/K PB -III |
| 34 | 1/28KOTADHAR & RIACHATHACH | C-II   | 23.47 | D/K PB -I   |
| 35 | 1/28KOTADHAR & RIACHATHACH | C-IIIa | 12.54 | D/K PB -IV  |
| 36 | 1/28KOTADHAR & RIACHATHACH | C-IIIb | 6.8   | D/K PB -I   |
| 37 | 1/28KOTADHAR & RIACHATHACH | C-IV   | 17    | D/K PB -II  |
| 38 | 1/28KOTADHAR & RIACHATHACH | C-Va   | 47.35 | D/K PB -II  |
| 39 | 1/28KOTADHAR& RIATHATHACH  | C-Vb   | 28.73 | F/S PB-II   |
| 40 | 1/29 CHAJALA               | C-I    | 48.56 | F/S PB-IV   |
| 41 | 1/29 CHAJALA               | C-II   | 146.5 | F/S PB-III  |
| 42 | 1/30 CHOTAR                | C-I    | 27.11 | D/K PB -III |
| 43 | 1/30 CHOTAR                | C-II   | 23.47 | D/K PB -IV  |
| 44 | 1/30 CHOTAR                | C-IIIa | 12.14 | D/K PB -II  |
| 45 | 1/30 CHOTAR                | C-IIIb | 25.09 | PWC         |
| 46 | 1/30 CHOTAR                | C-IVa  | 45.32 | D/K PB -IV  |
| 47 | 1/30 CHOTAR                | C-IVb  | 69.2  | F/S PB-III  |
| 48 | 1/30 CHOTAR                | C-V    | 97.13 | PWC         |
| 49 | 1/31 JHAKARU               | C-I    | 43.71 | F/S PB-I    |
| 50 | 1/31 JHAKARU               | C-II   | 77.7  | F/S PB-III  |
| 51 | 1/32 KALANDI DHAR          | C-Ia   | 19.42 | D/K PB -III |
| 52 | 1/32 KALANDI DHAR          | C-Ib   | 9.31  | D/K PB -IV  |
| 53 | 1/32 KALANDI DHAR          | C-IIa  | 13.35 | D/K PB -I   |
| 54 | 1/32 KALANDIDHAR           | C-IIb  | 10.12 | F/S PB-III  |
| 55 | 1/32 KALANDIDHAR           | C-III  | 19.83 | F/S PB-III  |
| 56 | 1/33 GADAJHAKAR MAROGSHILL | C-I    | 20.23 | D/K PB -II  |

|  |    |                                               |       |                |            |
|--|----|-----------------------------------------------|-------|----------------|------------|
|  | 57 | 1/33 GADAJHAKAR<br>MAROGSHILL                 | C-II  | 21.04          | D/K PB -II |
|  | 58 | 1/34 THACHSHILL                               | C-I   | 38.04          | F/S PB-I   |
|  | 59 | 1/34 THACHSHILL                               | C-II  | 30.35          | D/K PB -II |
|  | 60 | 1/35 BAGIGLAI PANE0                           | C-I   | 31.16          | D/K PB -II |
|  | 61 | 1/35 BAGIGLAI PANE0                           | C-II  | 15.38          | D/K PB -IV |
|  | 62 | 1/35 BAGIGLAI PANE0                           | C-III | 33.18          | D/K PB -I  |
|  | 63 | 1/35 BAGIGLAI PANE0                           | C-IV  | 48.97          | D/K PB -II |
|  | 64 | 1/36 PALEINICHLOON                            | WHOLE | 123.43         | CWC PB-II  |
|  |    | <b>Total I Class</b>                          |       | <b>2580.18</b> |            |
|  |    | <b>DEMARCATED PROTECTED FOREST (II Class)</b> |       |                |            |
|  | 1  | 2/22 Bhamor Jadari                            | C-I   | 30.35          | D/K PB -I  |
|  | 2  | 2/22 BAMAUR JADRI                             | C-II  | 418.86         | PWC        |
|  | 3  | 2/23 KHANORA                                  | WHOLE | 125.86         | PWC        |
|  | 4  | 2/24 BUNGMALETO                               | WHOLE | 66.77          | F/S PB-II  |
|  | 5  | 2/25 KOTANAL                                  | WHOLE | 178.47         | PWC        |
|  | 6  | 2/26 KHANEO                                   | WHOLE | 406.72         | PWC        |
|  | 7  | 2/27 GOHAN                                    | WHOLE | 359.37         | PWC        |
|  | 8  | 2/28 JALORI                                   | WHOLE | 922.3          | PWC        |
|  | 9  | 2/29 ALATU                                    | C-I   | 14.97          | F/S PB-I   |
|  | 10 | 2/29 ALATU                                    | C-II  | 307.57         | F/S PB-III |
|  | 11 | 2/30 SAKIRN                                   | C-I   | 83.37          | F/S PB-I   |
|  | 12 | 2/30 SAKIRN                                   | C-II  | 86.6           | F/S PB-III |
|  | 13 | 2/31 DUGASHIL                                 | C-I   | 45.73          | F/S PB-I   |
|  | 14 | 2/31 DUGASHIL                                 | C-II  | 22.26          | F/S PB-II  |
|  | 15 | 2/32 SHARAGSHIL                               | C-I   | 56.66          | PWC        |
|  | 16 | 2/32 SHARAGSHIL                               | C-II  | 161.88         | PWC        |
|  | 17 | 2/33 MANDRIBIL DRAD                           | WHOLE | 1181.3         | PWC        |
|  | 18 | 2/34 CHUL                                     | WHOLE | 496.15         | PWC        |
|  |    | <b>Total II Class</b>                         |       | <b>4965.19</b> |            |
|  |    | <b>Listed UNDEMARCATED PROTECTED FOREST</b>   |       |                |            |
|  | 1  | UPF Phanauli                                  | 89    | 182.11         | PWC        |
|  | 2  | UPF Barino                                    | 90    | 80.93          | PWC        |
|  | 3  | UPF Salut                                     | 91    | 291.37         | PWC        |
|  | 4  | UPF Lot                                       | 92    | 93.15          | PWC        |
|  | 5  | UPF Sul                                       | 93    | 62.69          | PWC        |
|  | 6  | UPF Kashalabag                                | 94    | 68.8           | PWC        |
|  | 7  | UPF Kanshel                                   | 95    | 105.22         | PWC        |
|  | 8  | UPF Kultha                                    | 96    | 79.32          | PWC        |
|  | 9  | UPF Kamand                                    | 97    | 46.53          | PWC        |
|  | 10 | UPF Chapal                                    | 98    | 165.92         | PWC        |
|  | 11 | UPF Marog                                     | 99    | 37.23          | PWC        |
|  | 12 | UPF Samtel                                    | 100   | 26.3           | PWC        |

|    |                |     |        |     |
|----|----------------|-----|--------|-----|
| 13 | UPF Chalahug   | 101 | 113.31 | PWC |
| 14 | UPF Shomar     | 102 | 94.7   | PWC |
| 15 | UPF Bharai     | 103 | 133.54 | PWC |
| 16 | UPF Uthkhaner  | 104 | 82.96  | PWC |
| 17 | UPF Mathuvi    | 105 | 10.11  | PWC |
| 18 | UPF Tharvi     | 106 | 28.32  | PWC |
| 19 | UPF Chajut     | 107 | 80.93  | PWC |
| 20 | UPF Khadoran   | 108 | 80.01  | PWC |
| 21 | UPF Shush      | 109 | 74.86  | PWC |
| 22 | UPF Charinal   | 110 | 14.16  | PWC |
| 23 | UPF Badot      | 111 | 16.18  | PWC |
| 24 | UPF Ghatadhar  | 112 | 52.61  | PWC |
| 25 | UPF Pokhar     | 113 | 72.76  | PWC |
| 26 | UPF Khaneri    | 114 | 52.6   | PWC |
| 27 | UPF Pharauti   | 115 | 101.17 | PWC |
| 28 | UPF Patarna    | 116 | 52.6   | PWC |
| 29 | UPF Bansira    | 117 | 91.05  | PWC |
| 30 | UPF Satehan    | 118 | 101.17 | PWC |
| 31 | UPF Pataun     | 119 | 93.08  | PWC |
| 32 | UPF Kachimatti | 120 | 113.31 | PWC |
| 33 | UPF Panjudarh  | 121 | 198.2  | PWC |
| 34 | UPF Jaungi     | 122 | 40.46  | PWC |
| 35 | UPF Karanu     | 123 | 89.03  | PWC |
| 36 | UPF Jer        | 124 | 93.08  | PWC |
| 37 | UPF JABO       | 125 | 22.25  | PWC |
| 38 | UPF Kutal      | 126 | 40.46  | PWC |
| 39 | UPF Mishta     | 127 | 64.75  | PWC |
| 40 | UPF Sampal     | 128 | 97.12  | PWC |
| 41 | UPF Mahutui    | 129 | 10.11  | PWC |
| 42 | UPF Ropa       | 130 | 34.39  | PWC |
| 43 | UPF Bala       | 131 | 30.35  | PWC |
| 44 | UPF Jahara     | 132 | 18.21  | PWC |
| 45 | UPF Kandi      | 133 | 18.21  | PWC |
| 46 | UPF Binan      | 134 | 287.33 | PWC |
| 47 | Mahul          | 135 | 339.93 | PWC |
| 48 | UPF Kutar      | 136 | 32.37  | PWC |
| 49 | UPF Rishtad    | 137 | 44.51  | PWC |
| 50 | UPF Poeg       | 138 | 169.96 | PWC |
| 51 | UPF Roha       | 139 | 16.18  | PWC |
| 52 | UPF Runa       | 140 | 28.32  | PWC |
| 53 | UPF Mathla     | 141 | 271.14 | PWC |
| 54 | UPF Haripur    | 142 | 202.34 | PWC |
| 55 | UPF Olwa       | 143 | 299.46 | PWC |
| 56 | UPF Kater      | 144 | 287.28 | PWC |

|            |    |                                              |       |                 |             |
|------------|----|----------------------------------------------|-------|-----------------|-------------|
|            | 57 | UPF Nagali                                   | 145   | 28.32           | PWC         |
|            | 58 | UPF Kutol                                    | 146   | 24.28           | PWC         |
|            | 59 | UPF Kaura                                    | 147   | 123.42          | PWC         |
|            | 60 | UPF Thog                                     | 148   | 145.68          | PWC         |
|            | 61 | UPF Phanokhad                                | 149   | 69.89           | PWC         |
|            | 62 | UPF Bakhanou                                 | 150   | 48.56           | PWC         |
|            | 63 | UPF Nai Ropa                                 | 151   | 70.82           | PWC         |
|            | 64 | UPF Shagahan                                 | 152   | 109.26          | PWC         |
|            | 65 | UPF Kalowa                                   | 153   | 48.56           | PWC         |
|            | 66 | UPF Bashalani                                | 154   | 72.84           | PWC         |
|            | 67 | UPF Bahua                                    | 155   | 38.44           | PWC         |
|            | 68 | UPF Shup                                     | 156   | 82.96           | PWC         |
|            | 69 | UPF Kutwa                                    | 157   | 184.13          | PWC         |
|            | 70 | UPF Khadu                                    | 158   | 186.15          | PWC         |
|            | 71 | UPF Tarala                                   | 159   | 84.98           | PWC         |
|            | 72 | UPF Jaon                                     | 160   | 101.17          | PWC         |
|            | 73 | UPF Ramal                                    | 161   | 137.59          | PWC         |
|            | 74 | UPF Thamach I                                | 162   | 279.23          | PWC         |
|            | 75 | UPF Thamach II                               | 163   | 70              | PWC         |
|            | 76 | UPF Deem                                     | 164   | 93.07           | PWC         |
|            | 77 | UPF Kot                                      | 165   | 123.43          | PWC         |
|            | 78 | UPF Kunala                                   | 166   | 66.77           | PWC         |
|            | 79 | UPF Khanag                                   | 167   | 115.33          | PWC         |
|            | 80 | UPF Dhar                                     | 168   | 182.1           | PWC         |
|            | 81 | UPF Ropa                                     | 169   | 153.78          | PWC         |
|            | 82 | UPF Mathena                                  | 170   | 49.32           | PWC         |
|            | 83 | UPF Gagni                                    | 171   | 91.05           | PWC         |
|            | 84 | UPF Shagag                                   | 172   | 188.17          | PWC         |
|            | 85 | UPF Ghadari                                  | 173   | 137.6           | PWC         |
|            | 86 | UPF Bhalal                                   | 174   | 80.93           | PWC         |
|            | 87 | UPF Pali                                     | 175   | 93.08           | PWC         |
|            | 88 | UPF Kutua                                    | 176   | 147.71          | PWC         |
|            | 89 | UPF Shilti                                   | 177   | 313.63          | PWC         |
|            | 90 | UPF Tepel                                    | 178   | 22.25           | PWC         |
|            |    | <b>Total UPF</b>                             |       | <b>9198.94</b>  |             |
|            |    | <b>G.Total Chowai Range</b>                  |       | <b>16929.66</b> |             |
| Nithe<br>r |    | <b>RESERVE FOREST</b>                        |       |                 |             |
|            | 1  | R/4 MARGI KALAON                             | Whole | 14.97           | D/K PB - II |
|            |    | <b>Total RF</b>                              |       | <b>14.97</b>    |             |
|            |    |                                              |       |                 |             |
|            |    | <b>DEMARCATED PROTECTED FOREST (I Class)</b> |       |                 |             |
|            | 1  | 1/8 LOHAR                                    | C-I   | 133.55          | PWC         |
|            | 2  | 1/8 LOHAR                                    | C-II  | 295.42          | PWC         |

|  |    |                                               |       |                |              |
|--|----|-----------------------------------------------|-------|----------------|--------------|
|  | 3  | 1/9 BIJURI                                    | C-Ia  | 80.94          | D/K PB - I   |
|  | 4  | 1/9 BIJURI                                    | C-Ib  | 24.28          | D/K PB - II  |
|  | 5  | 1/9 BIJURI                                    | C-Ic  | 233.91         | F/S PB-II    |
|  | 6  | 1/9 BIJURI                                    | C-II  | 271.14         | PWC          |
|  | 7  | 1/10 BASHAD                                   | C-I   | 51.4           | D/K PB - I   |
|  | 8  | 1/10 BASHAD                                   | C-II  | 127.88         | PWC          |
|  | 9  | 1/14 MARAHKOD                                 | C-I   | 40.47          | D/K PB - I   |
|  | 10 | 1/14 MARAHKOD                                 | C-II  | 57.47          | D/K PB - II  |
|  | 11 | 1/14 MARAKOD                                  | C-III | 54.23          | F/S PB-III   |
|  | 12 | 1/14 MARAHKOD                                 | C-Iva | 55.04          | D/K PB - I   |
|  | 13 | 1/14 MARAHKOD                                 | C-IVb | 45.32          | PWC          |
|  | 14 | 1/15 LOTKAYAION                               | C-I   | 21.45          | D/K PB - I   |
|  | 15 | 1/15 LOTKAYAION                               | C-II  | 22.26          | D/K PB - III |
|  | 16 | 1/15 LOTKAYAION                               | C-III | 16.19          | D/K PB - II  |
|  | 17 | 1/16 SHILLA (HAMARI                           | Whole | 52.2           | D/K PB - III |
|  | 18 | 1/17 GWAN                                     | C-I   | 13.76          | CWC PB - III |
|  | 19 | 1/17 GWAN                                     | C-II  | 12.14          | CWC PB - III |
|  | 20 | 1/17 GWAN                                     | C-III | 14.97          | CWC PB - III |
|  | 21 | 1/17 GWAN                                     | C-IV  | 29.54          | CWC PB - IV  |
|  | 22 | 1/18 BHON                                     | C-I   | 21.45          | D/K PB - I   |
|  | 23 | 1/18 BHON                                     | C-II  | 19.2           | D/K PB - II  |
|  | 24 | 1/24 SHILLA                                   | C-Ia  | 14.57          | D/K PB - II  |
|  | 25 | 1/24 SHILLA                                   | C-Ib  | 20.23          | D/K PB - III |
|  | 26 | 1/24 SHILLA                                   | C-II  | 12.14          | D/K PB - I   |
|  | 27 | 1/24 SHILA                                    | C-III | 45.32          | PWC          |
|  |    | <b>Total I Class</b>                          |       | <b>1786.47</b> |              |
|  |    |                                               |       |                |              |
|  |    | <b>DEMARCATED PROTECTED FOREST (II Class)</b> |       |                |              |
|  | 1  | 2/20 DAMAN                                    | C-I   | 101.17         | F/S PB-I     |
|  | 2  | 2/20 DAMAN                                    | C-II  | 122.21         | PWC          |
|  | 3  | 2/21 PATAL                                    | WHOLE | 235.53         | PWC          |
|  |    | <b>Total II Class</b>                         |       | <b>458.91</b>  |              |
|  |    | <b>Lied UNDERMARCATED PROTECTED FOREST</b>    |       |                |              |
|  | 1  | Tadasha                                       | 49    | 198.29         | PWC          |
|  | 2  | Tihni                                         | 50    | 299.46         | PWC          |
|  | 3  | Shusha                                        | 51    | 477.53         | PWC          |
|  | 4  | Gauchoa                                       | 52    | 341.94         | PWC          |
|  | 5  | Katotha                                       | 53    | 299.46         | PWC          |
|  | 6  | Bai                                           | 54    | 145.68         | PWC          |
|  | 7  | Soidhar                                       | 55    | 137.59         | PWC          |
|  | 8  | Sarli                                         | 56    | 242.81         | PWC          |
|  | 9  | Lunalot                                       | 57    | 404.68         | PWC          |
|  | 10 | Kathel                                        | 58    | 137.59         | PWC          |
|  | 11 | Sheug                                         | 59    | 230.67         | PWC          |

|  |    |                             |    |                 |     |
|--|----|-----------------------------|----|-----------------|-----|
|  | 12 | Tandi                       | 60 | 165.92          | PWC |
|  | 13 | Thalin                      | 61 | 242.81          | PWC |
|  | 14 | Khani                       | 62 | 165.92          | PWC |
|  | 15 | Nore                        | 63 | 343.98          | PWC |
|  | 16 | Jaral                       | 64 | 319.7           | PWC |
|  | 17 | Katmor                      | 65 | 279.23          | PWC |
|  | 18 | Kanda                       | 66 | 141.64          | PWC |
|  | 19 | Ishwa                       | 67 | 292.31          | PWC |
|  | 20 | Khaler                      | 68 | 153.77          | PWC |
|  | 21 | Tandi                       | 69 | 174.02          | PWC |
|  | 22 | Margi                       | 70 | 279.23          | PWC |
|  | 23 | Sanara                      | 71 | 129.49          | PWC |
|  | 24 | Ghatu                       | 72 | 194.24          | PWC |
|  | 25 | Pali                        | 73 | 113.31          | PWC |
|  | 26 | Dagehan                     | 74 | 72.84           | PWC |
|  | 27 | Sadari                      | 75 | 392.54          | PWC |
|  | 28 | Bashala                     | 76 | 190.2           | PWC |
|  | 29 | Klog                        | 77 | 354.1           | PWC |
|  | 30 | Khatal                      | 78 | 20.23           | PWC |
|  | 31 | Shana                       | 79 | 364.21          | PWC |
|  | 32 | Draha                       | 80 | 499.7           | PWC |
|  | 33 | Jalodi                      | 81 | 89.03           | PWC |
|  | 34 | Sharti                      | 82 | 203.97          | PWC |
|  | 35 | Chebari                     | 83 | 269.09          | PWC |
|  | 36 | Nither                      | 84 | 218.58          | PWC |
|  | 37 | Kopardhar                   | 85 | 107.93          | PWC |
|  | 38 | Moin                        | 86 | 235.94          | PWC |
|  | 39 | Nintha                      | 87 | 216.5           | PWC |
|  | 40 | Shah                        | 88 | 334.71          | PWC |
|  |    | <b>Total LIed UPF</b>       |    | <b>9480.84</b>  |     |
|  |    | <b>G.Total Nither Range</b> |    | <b>11741.19</b> |     |
|  |    | <b>G.Total All Ranges</b>   |    | <b>53699.50</b> |     |

| ABSTRACT      |     |              |              |                |       |
|---------------|-----|--------------|--------------|----------------|-------|
| Name of Range | RFs | DPFs I Class | DPFs II Clas | III Class UPFs | Total |
| Arsu          | 10  | 24           | 37           | 48             | 119   |
| Chowai        | 5   | 64           | 18           | 90             | 177   |
| Nither        | 1   | 27           | 3            | 40             | 71    |

|              |           |            |           |            |            |
|--------------|-----------|------------|-----------|------------|------------|
| <b>Total</b> | <b>16</b> | <b>115</b> | <b>58</b> | <b>178</b> | <b>367</b> |
|--------------|-----------|------------|-----------|------------|------------|

**Appendix-II**

| <b>Range wise II of Forest and Allotment of Areas to Working Circle and Periodic Blocks</b> |                             |             |                                   |              |            |               |               |
|---------------------------------------------------------------------------------------------|-----------------------------|-------------|-----------------------------------|--------------|------------|---------------|---------------|
| Name of Range                                                                               | Name of Forest              | Comptt. No. | I                                 | II           | III        | IV            | Total         |
|                                                                                             |                             |             | <b>Deodar Kail Working circle</b> |              |            |               |               |
| ARSU                                                                                        | R/3 JUJUTH                  | C-1         | 0                                 | 0            | 0          | 58.27         | 58.27         |
|                                                                                             | R/3 JUJUTH                  | C-III(a)    | 0                                 | 0            | 0          | 53.82         | 53.82         |
|                                                                                             | <b>Total Reserve Forest</b> |             | <b>0</b>                          | <b>0</b>     | <b>0</b>   | <b>112.09</b> | <b>112.09</b> |
|                                                                                             | 1/2 SHIKARWA                | C-I         | 0                                 | 16.19        | 0          | 0             | 16.19         |
|                                                                                             | 1/2 SHIKARWA                | C-II        | 0                                 | 0            | 24.28      | 0             | 24.28         |
|                                                                                             | 1/3RAMGARH KANDI            | C-I         | 0                                 | 0            | 33.99      | 0             | 33.99         |
|                                                                                             | 1/3RAMGARH KANDI            | C-II        | 0                                 | 40.87        | 0          | 0             | 40.87         |
|                                                                                             | 1/3RAMGARH KANDI            | C-III       | 0                                 | 41.28        | 0          | 0             | 41.28         |
|                                                                                             | 1/3RAMGARH KANDI            | C-IV        | 35.61                             | 0            | 0          | 0             | 35.61         |
|                                                                                             | 1/5KANDU SHILLA             | C-Ia        | 0                                 | 0            | 0          | 16.19         | 16.19         |
|                                                                                             | 1/5KANDU SHILLA             | C-IIa       | 0                                 | 0            | 12.14      | 0             | 12.14         |
|                                                                                             | 1/5KANDU SHILLA             | C-IV        | 0                                 | 0            | 33.59      | 0             | 33.59         |
|                                                                                             | <b>Total DPF( I Class)</b>  |             | <b>35.61</b>                      | <b>98.34</b> | <b>104</b> | <b>16.19</b>  | <b>254.14</b> |
| CHOWAI                                                                                      | R/5 GHANER KALAON           | Whole       | 0                                 | 4.05         | 0          | 0             | 4.05          |
|                                                                                             | R/6 JARONU                  | Whole       | 0                                 | 0            | 0          | 13.35         | 13.35         |
|                                                                                             | R/7 TAKRASI                 | C-I         | 47.35                             | 0            | 0          | 0             | 47.35         |
|                                                                                             | R/7 TAKRASI                 | C-II        | 0                                 | 0            | 0          | 71.63         | 71.63         |
|                                                                                             | R/8 KALAON                  | Whole       | 0                                 | 48.97        | 0          | 0             | 48.97         |
|                                                                                             | <b>Total Reserve Forest</b> |             | <b>47.35</b>                      | <b>53.02</b> | <b>0</b>   | <b>84.98</b>  | <b>185.35</b> |
|                                                                                             | 1/11 KUT                    | C-Ia        | 0                                 | 0            | 36.42      | 0             | 36.42         |
|                                                                                             | 1/11 KUT                    | C-II        | 69.61                             | 0            | 0          | 0             | 69.61         |
|                                                                                             | 1/12 DRAD REUNS             | C-I         | 89.03                             | 0            | 0          | 0             | 89.03         |
|                                                                                             | 1/13 SATHABANDRI TRIJHAKAR  | C-IIa       | 0                                 | 0            | 20.23      | 0             | 20.23         |
|                                                                                             | 1/13 SATHABANDRI TRIJHAKAR  | C-IIb       | 39.66                             | 0            | 0          | 0             | 39.66         |
|                                                                                             | 1/13 SATHABANDRI TRIJHAKAR  | C-III       | 0                                 | 0            | 29.14      | 0             | 29.14         |
|                                                                                             | 1/13 SATHABANDRI TRIJHAKAR  | C-IV        | 0                                 | 0            | 38.04      | 0             | 38.04         |



|  |                                  |            |              |              |              |               |                |
|--|----------------------------------|------------|--------------|--------------|--------------|---------------|----------------|
|  | 1/13<br>SATHABANDRI<br>TRIJHAKAR | C-Va       | 17.81        | 0            | 0            | 0             | 17.81          |
|  | 1/21 KUI JHAKAR                  | Whole      | 0            | 12.54        | 0            | 0             | 12.54          |
|  | 1/22 BARU<br>BHARRED             | Whole      | 0            | 63.54        | 0            | 0             | 63.54          |
|  | 1/23 OLINAL                      | C-II       | 30.35        | 0            | 0            | 0             | 30.35          |
|  | 1/25 PHON                        | Whole      | 0            | 33.18        | 0            | 0             | 33.18          |
|  | 1/26 PARKOTSHIL                  | C-II       | 0            | 72.03        | 0            | 0             | 72.03          |
|  | 1/27<br>BUNGBINDRABAN            | C-I        | 0            | 43.3         | 0            | 0             | 43.3           |
|  | 1/27<br>BUNGBINDRABAN            | C-IIa      | 11.74        | 0            | 0            | 0             | 11.74          |
|  | 1/27<br>BUNGBINDRABAN            | C-IIb      | 0            | 6.47         | 0            | 0             | 6.47           |
|  | 1/28 KOTADHAR &<br>RIACHATHACH   | C-I        | 0            | 0            | 5.26         | 0             | 5.26           |
|  | 1/28 KOTADHAR &<br>RIACHATHACH   | C-II       | 23.47        | 0            | 0            | 0             | 23.47          |
|  | 1/28 KOTADHAR &<br>RIACHATHACH   | C-IIIa     | 0            | 0            | 0            | 12.54         | 12.54          |
|  | 1/28 KOTADHAR &<br>RIACHATHACH   | C-IIIb     | 6.8          | 0            | 0            | 0             | 6.8            |
|  | 1/28 KOTADHAR &<br>RIACHATHACH   | C-IV       | 0            | 17           | 0            | 0             | 17             |
|  | 1/28 KOTADHAR &<br>RIACHATHACH   | C-Va       | 0            | 47.35        | 0            | 0             | 47.35          |
|  | 1/30 CHOTAR                      | C-I        | 0            | 0            | 27.11        | 0             | 27.11          |
|  | 1/30 CHOTAR                      | C-II       | 0            | 0            | 0            | 23.47         | 23.47          |
|  | 1/30 CHOTAR                      | C-IIIa     | 0            | 12.14        | 0            | 0             | 12.14          |
|  | 1/30 CHOTAR                      | C-Iva      | 0            | 0            | 0            | 45.32         | 45.32          |
|  | 1/32 KALANDI<br>DHAR             | C-Ia       | 0            | 0            | 19.42        | 0             | 19.42          |
|  | 1/32 KALANDI<br>DHAR             | C-Ib       | 0            | 0            | 0            | 9.31          | 9.31           |
|  | 1/32 KALANDI<br>DHAR             | C-IIa      | 13.35        | 0            | 0            | 0             | 13.35          |
|  | 1/33<br>GADAJHAKAR<br>MAROGSHILL | C-I        | 0            | 20.23        | 0            | 0             | 20.23          |
|  | 1/33<br>GADAJHAKAR<br>MAROGSHILL | C-II       | 0            | 21.04        | 0            | 0             | 21.04          |
|  | 1/34 THACHSHILL                  | C-II       | 0            | 30.35        | 0            | 0             | 30.35          |
|  | 1/35 BAGIGLAI<br>PANE0           | C-I        | 0            | 31.16        | 0            | 0             | 31.16          |
|  | 1/35 BAGIGLAI<br>PANE0           | C-II       | 0            | 0            | 0            | 15.38         | 15.38          |
|  | 1/35 BAGIGLAI<br>PANE0           | C-III      | 33.18        | 0            | 0            | 0             | 33.18          |
|  | 1/35 BAGIGLAI<br>PANE0           | C-IV       | 0            | 48.97        | 0            | 0             | 48.97          |
|  | <b>Total DPF( I Class)</b>       |            | <b>335</b>   | <b>459.3</b> | <b>175.6</b> | <b>106.02</b> | <b>1075.94</b> |
|  | <b>2/22 Bhamor Jadari</b>        | <b>C-I</b> | <b>30.35</b> | <b>0</b>     | <b>0</b>     | <b>0</b>      | <b>30.35</b>   |
|  | <b>Total</b>                     |            | <b>30.35</b> | <b>0</b>     | <b>0</b>     | <b>0</b>      | <b>30.35</b>   |

|                                                  |                                 |             |                                  |               |              |               |                |
|--------------------------------------------------|---------------------------------|-------------|----------------------------------|---------------|--------------|---------------|----------------|
|                                                  | R/4 MARGI<br>KALAON             | Whole       | 0                                | 14.97         | 0            | 0             | 14.97          |
|                                                  | <b>Total Reserve<br/>Forest</b> |             | <b>0</b>                         | <b>14.97</b>  | <b>0</b>     | <b>0</b>      | <b>14.97</b>   |
| NITHER                                           |                                 |             |                                  |               |              |               | 0              |
|                                                  | 1/9 BIJURI                      | C-Ia        | 80.94                            | 0             | 0            | 0             | 80.94          |
|                                                  | 1/9 BIJURI                      | C-Ib        | 0                                | 24.28         | 0            | 0             | 24.28          |
|                                                  | 1/10 BASHAD                     | C-I         | 51.4                             | 0             | 0            | 0             | 51.4           |
|                                                  | 1/14 MARAHKOD                   | C-I         | 40.47                            | 0             | 0            |               | 40.47          |
|                                                  | 1/14 MARAHKOD                   | C-II        | 0                                | 57.47         | 0            | 0             | 57.47          |
|                                                  | 1/14 MARAHKOD                   | C-IVa       | 55.04                            | 0             | 0            | 0             | 55.04          |
|                                                  | 1/15 LOTKAYA AION               | C-I         | 21.45                            | 0             | 0            | 0             | 21.45          |
|                                                  | 1/15 LOTKAYA AION               | C-II        | 0                                | 0             | 22.26        | 0             | 22.26          |
|                                                  | 1/15 LOTKAYA AION               | C-III       | 0                                | 16.19         | 0            | 0             | 16.19          |
|                                                  | 1/16SHILLA<br>(HAMARI)          | Whole       | 0                                | 0             | 52.2         | 0             | 52.2           |
|                                                  | 1/18 BHON                       | C-I         | 21.45                            | 0             | 0            | 0             | 21.45          |
|                                                  | 1/18 BHON                       | C-II        | 0                                | 19.2          | 0            | 0             | 19.2           |
|                                                  | 1/24 SHILLA                     | C-Ia        | 0                                | 14.57         | 0            | 0             | 14.57          |
|                                                  | 1/24 SHILLA                     | C-Ib        | 0                                | 0             | 20.23        | 0             | 20.23          |
|                                                  | 1/24 SHILLA                     | C-II        | 12.14                            | 0             | 0            | 0             | 12.14          |
|                                                  | <b>Total DPF( I Class)</b>      |             | <b>282.9</b>                     | <b>131.71</b> | <b>94.69</b> | <b>0</b>      | <b>509.29</b>  |
|                                                  |                                 |             |                                  |               |              |               |                |
| <b>G. TOTAL DEODAR KAIL WORKING<br/>CIRCLE -</b> |                                 |             | <b>731.2</b>                     | <b>757.34</b> | <b>374.3</b> | <b>319.28</b> | <b>2182.13</b> |
|                                                  |                                 |             | <b>FIR SPRUCE Working circle</b> |               |              |               |                |
| ARSU                                             | R/3 JUJUTH                      | C-II        | 0                                | 111.69        | 0            | 0             | 111.69         |
|                                                  | R/3 JUJUTH                      | C-IIIb      | 0                                | 0             | 32.37        | 0             | 32.37          |
|                                                  | <b>Total Reserve<br/>Forest</b> |             | <b>0</b>                         | <b>111.69</b> | <b>32.37</b> | <b>0</b>      | <b>144.06</b>  |
|                                                  | 1/5 KANDUSHILLA                 | C-Ib        | 8.9                              | 0             | 0            | 0             | 8.9            |
|                                                  | 1/5 KANDUSHILLA                 | C-IIb       | 0                                | 0             | 9.71         | 0             | 9.71           |
|                                                  | 1/5 KANDUSHILLA                 | C-III       | 0                                | 0             | 56.25        | 0             | 56.25          |
|                                                  | <b>Total DPF( I Class)</b>      |             | <b>8.9</b>                       | <b>0</b>      | <b>65.96</b> | <b>0</b>      | <b>74.86</b>   |
|                                                  | 2/19 MANDROW                    | C-I         | 0                                | 0             | 0            | 99.96         | 99.96          |
|                                                  | 2/19 MANDROW                    | C-II        | 0                                | 0             | 151.76       | 0             | 151.76         |
|                                                  | 2/19 MANDROW                    | C-III       | 0                                | 0             | 176.85       | 0             | 176.85         |
|                                                  | <b>Total DPF( II Class)</b>     |             | <b>0</b>                         | <b>0</b>      | <b>328.6</b> | <b>99.96</b>  | <b>428.57</b>  |
|                                                  | <b>G.total</b>                  |             | <b>8.9</b>                       | <b>111.69</b> | <b>426.9</b> | <b>99.96</b>  | <b>647.49</b>  |
| CHOWAI                                           | 1/11 Kut                        | C-Ib        | 14.57                            | 0             | 0            | 0             | 14.57          |
|                                                  | 1/11 Kut                        | C-III       | 0                                | 36.42         | 0            | 0             | 36.42          |
|                                                  | <b>1/12 DRAD REUNS</b>          | <b>C-II</b> | <b>0</b>                         | <b>0</b>      | <b>52.2</b>  | <b>0</b>      | <b>52.2</b>    |

|                                            |                               |        |              |               |              |               |                |
|--------------------------------------------|-------------------------------|--------|--------------|---------------|--------------|---------------|----------------|
|                                            | 1/12 DRAD REUNS               | C-III  | 0            | 0             | 126.26       | 0             | 126.26         |
|                                            | 1/13 SATABANDRI<br>TRIJHAKAR  | C-VI   | 0            | 0             | 67.18        | 0             | 67.18          |
|                                            | 1/13 SATABANDRI<br>TRIJHAKAR  | C-VIIa | 134.36       | 0             | 0            | 0             | 134.36         |
|                                            | 1/13 SATABANDRI<br>TRIJHAKAR  | C-VIIb | 0            | 36.42         | 0            | 0             | 36.42          |
|                                            | 1/23 OLINAL                   | C-I    | 21.45        | 0             | 0            | 0             | 21.45          |
|                                            | 1/28 KOTADHAR&<br>RIATHATHACH | C-Vb   | 0            | 28.73         | 0            | 0             | 28.73          |
|                                            | 1/29 CHAJALA                  | C-I    | 0            | 0             | 0            | 48.56         | 48.56          |
|                                            | 1/29 CHAJALA                  | C-II   | 0            | 0             | 146.5        | 0             | 146.5          |
|                                            | 1/30 CHOTAR                   | C-IVb  | 0            | 0             | 69.2         | 0             | 69.2           |
|                                            | 1/31 JHAKARU                  | C-I    | 43.71        | 0             | 0            | 0             | 43.71          |
|                                            | 1/31 JHAKARU                  | C-II   | 0            | 0             | 77.7         | 0             | 77.7           |
|                                            | 1/32<br>KALANDIDHAR           | C-IIb  | 0            | 0             | 10.12        | 0             | 10.12          |
|                                            | 1/32<br>KALANDIDHAR           | C-III  | 0            | 0             | 19.83        | 0             | 19.83          |
|                                            | 1/34 THACHSHILL               | C-I    | 38.04        | 0             | 0            | 0             | 38.04          |
|                                            | <b>Total DPF( I Class)</b>    |        | <b>252.1</b> | <b>101.57</b> | <b>569</b>   | <b>48.56</b>  | <b>971.25</b>  |
|                                            |                               |        |              |               |              |               |                |
|                                            | 2/29 ALATU                    | C-I    | 14.97        | 0             | 0            | 0             | 14.97          |
|                                            | 2/30 SAKIRN                   | C-I    | 83.37        | 0             | 0            | 0             | 83.37          |
|                                            | 2/31 DUGASHIL                 | C-I    | 45.73        | 0             | 0            | 0             | 45.73          |
|                                            | 2/24<br>BUNGMALETO            | WHOLE  | 0            | 66.77         | 0            | 0             | 66.77          |
|                                            | 2/31 DUGASHIL                 | C-II   | 0            | 22.26         | 0            | 0             | 22.26          |
|                                            | 2/29 ALATU                    | C-II   | 0            | 0             | 307.57       | 0             | 307.57         |
|                                            | 2/30 SAKIRN                   | C-II   | 0            | 0             | 86.6         | 0             | 86.6           |
|                                            | <b>TOTAL DPF ( II CLASS)</b>  |        | <b>144.1</b> | <b>89.03</b>  | <b>394.2</b> | <b>0</b>      | <b>627.27</b>  |
|                                            | <b>G.Total</b>                |        | <b>396.2</b> | <b>190.6</b>  | <b>963.2</b> | <b>48.56</b>  | <b>1598.52</b> |
| NITHER                                     | 1/9 BIJURI                    | C-Ic   | 0            | 233.91        | 0            | 0             | 233.91         |
|                                            | 1/14 MARAKOD                  | C-III  | 0            | 0             | 54.23        | 0             | 54.23          |
|                                            | <b>Total DPF( I Class)</b>    |        | <b>0</b>     | <b>233.91</b> | <b>54.23</b> | <b>0</b>      | <b>288.14</b>  |
|                                            | 2/20 DAMAN                    | C-I    | 101.17       | 0             | 0            | 0             | 101.17         |
|                                            | <b>Total DPF( II Class)</b>   |        | <b>101.2</b> | <b>0</b>      | <b>0</b>     | <b>0</b>      | <b>101.17</b>  |
|                                            | <b>G.Total</b>                |        | <b>101.2</b> | <b>233.91</b> | <b>54.23</b> | <b>0</b>      | <b>389.31</b>  |
| G. TOTAL FIR<br>SPRUCE WORKING<br>CIRCLE - |                               |        | <b>506.3</b> | <b>536.2</b>  | <b>1444</b>  | <b>148.52</b> | <b>2635.32</b> |

|        |                                     |                            |                                  |               |              |               |                |
|--------|-------------------------------------|----------------------------|----------------------------------|---------------|--------------|---------------|----------------|
|        |                                     |                            |                                  |               |              |               |                |
|        |                                     | <b>CHIL WORKING CIRCLE</b> |                                  |               |              |               |                |
| ARSU   | 1/1 TIKKAR                          | C-Ia                       | 0                                | 0             | 0            | 107.24        | 107.24         |
|        | 1/1 TIKKAR                          | C-IIa                      | 0                                | 0             | 0            | 180.49        | 180.49         |
|        | <b>Total DPF( I Class)</b>          |                            | <b>0</b>                         | <b>0</b>      | <b>0</b>     | <b>287.73</b> | <b>287.73</b>  |
|        |                                     |                            |                                  |               |              |               |                |
|        | 2/3 SIARUNAL                        | C-I                        | 0                                | 0             | 71.23        | 0             | 71.23          |
|        | 2/3 SIARUNAL                        | C-II                       | 0                                | 0             | 0            | 38.44         | 38.44          |
|        | 2/6 GADA MAWA                       | WHOLE                      | 0                                | 0             | 35.61        | 0             | 35.61          |
|        | <b>Total DPF( II Class)</b>         |                            | <b>0</b>                         | <b>0</b>      | <b>106.8</b> | <b>38.44</b>  | <b>145.28</b>  |
|        | <b>G.Total</b>                      |                            | <b>0</b>                         | <b>0</b>      | <b>106.8</b> | <b>326.17</b> | <b>433.01</b>  |
| CHOWAI | 1/13 SATHABANDRI TRIJHAKAR          | C-I                        | 44.92                            | 0             | 0            | 0             | 44.92          |
|        | 1/19 LAMBIDHAR                      | WHOLE                      | 0                                | 33.99         | 0            | 0             | 33.99          |
|        | 1/20 DAGRUT                         | WHOLE                      | 0                                | 36.02         | 0            | 0             | 36.02          |
|        | 1/26 PARKOTSHIL                     | C-Ia                       | 0                                | 36.43         | 0            | 0             | 36.43          |
|        | 1/26 PARKOTSHIL                     | C-Ib                       | 0                                | 0             | 0            | 29.14         | 29.14          |
|        | 1/27 BUNGBINDRABAN                  | C-III                      | 0                                | 42.9          | 0            | 0             | 42.9           |
|        | 1/27 BUNGBINDRABAN                  | C-IV                       | 46.94                            | 0             | 0            | 0             | 46.94          |
|        | 1/36 PALEINICHLOON                  | WHOLE                      | 0                                | 123.43        | 0            | 0             | 123.43         |
|        | <b>Total DPF( I Class)</b>          |                            | <b>91.86</b>                     | <b>272.77</b> | <b>0</b>     | <b>29.14</b>  | <b>393.77</b>  |
|        | <b>G.Total</b>                      |                            | <b>91.86</b>                     | <b>272.77</b> | <b>0</b>     | <b>29.14</b>  | <b>393.77</b>  |
| NITHER | 1/17 GWAN                           | C-I                        | 0                                | 0             | 13.76        | 0             | 13.76          |
|        | 1/17 GWAN                           | C-II                       | 0                                | 0             | 12.14        | 0             | 12.14          |
|        | 1/17 GWAN                           | C-III                      | 0                                | 0             | 14.97        | 0             | 14.97          |
|        | 1/17 GWAN                           | C-IV                       | 0                                | 0             | 0            | 29.54         | 29.54          |
|        | <b>Total DPF( I Class)</b>          |                            | <b>0</b>                         | <b>0</b>      | <b>40.87</b> | <b>29.54</b>  | <b>70.41</b>   |
|        | <b>G.Total</b>                      |                            | <b>0</b>                         | <b>0</b>      | <b>40.87</b> | <b>29.54</b>  | <b>70.41</b>   |
|        | <b>G.Total Chill Working Circle</b> |                            | <b>91.86</b>                     | <b>272.77</b> | <b>147.7</b> | <b>384.85</b> | <b>897.19</b>  |
|        |                                     |                            | <b>PROTECTION Working Circle</b> |               |              |               |                |
| ARSU   | R/1 SHILLI GIRCHI                   | C-I                        | 0                                | 0             | 0            | 0             | 327.8          |
|        | R/1 SHILLI GIRCHI                   | C-II                       | <b>0</b>                         | 0             | 0            | 0             | 274.38         |
|        | R/1 SHILLI GIRCHI                   | C-III                      | 0                                | 0             | 0            | 0             | 251.31         |
|        | R/2 PRALI GIRCHI                    | C-I                        | <b>0</b>                         | 0             | 0            | 0             | 304.73         |
|        | R/2 PRALI GIRCHI                    | C-II                       | 0                                | 0             | 0            | 0             | 248.48         |
|        | R/2 PRALI GIRCHI                    | C-III                      | <b>0</b>                         | 0             | 0            | 0             | 212.87         |
|        | <b>Total Reserve Forest</b>         |                            | <b>0</b>                         | <b>0</b>      | <b>0</b>     | <b>0</b>      | <b>1619.57</b> |
|        |                                     |                            | 0                                |               |              |               |                |
|        | 1/1 TIKKAR                          | C-Ib                       | <b>0</b>                         | 0             | 0            | 0             | 106.43         |
|        | 1/1 TIKKAR                          | C-Iib                      | <b>0</b>                         | 0             | 0            | 0             | 248.08         |

|  |                             |       |          |          |          |          |                |
|--|-----------------------------|-------|----------|----------|----------|----------|----------------|
|  | 1/1 TIKKAR                  | C-III | 0        | 0        | 0        | 0        | 256.98         |
|  | 1/4 DRAD REUNS              | WHOLE | 0        | 0        | 0        | 0        | 540.67         |
|  | 1/6 KULAPANI                | C-I   | 0        | 0        | 0        | 0        | 21.85          |
|  | 1/6 KULAPANI                | C-II  | 0        | 0        | 0        | 0        | 39.25          |
|  | 1/7 DRAD                    | C-I   | 0        | 0        | 0        | 0        | 28.33          |
|  | 1/7 DRAD                    | C-II  | 0        | 0        | 0        | 0        | 80.94          |
|  | 1/7 DRAD                    | C-III | 0        | 0        | 0        | 0        | 131.53         |
|  | 1/7 DRAD                    | C-IV  | 0        | 0        | 0        | 0        | 152.97         |
|  | <b>Total DPF( I Class)</b>  |       | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>1607.03</b> |
|  | 2/1 BRATI                   | C-I   | 0        | 0        | 0        | 0        | 179.68         |
|  | 2/1 BRATI                   | C-II  | 0        | 0        | 0        | 0        | 133.55         |
|  | 2/1 BRATI                   | C-III | 0        | 0        | 0        | 0        | 229.87         |
|  | 2/1 BRATI                   | C-IV  | 0        | 0        | 0        | 0        | 155            |
|  | 2/1 BRATI                   | C-V   | 0        | 0        | 0        | 0        | 451.23         |
|  | 2/2 JIA                     | WHOLE | 0        | 0        | 0        | 0        | 156.62         |
|  | 2/4 DOBDA                   | WHOLE | 0        | 0        | 0        | 0        | 473.49         |
|  | 2/5 BAGORI                  | WHOLE | 0        | 0        | 0        | 0        | 671.79         |
|  | 2/7 TANDITHER               | WHOLE | 0        | 0        | 0        | 0        | 104.81         |
|  | 2/8 SAMPATA                 | WHOLE | 0        | 0        | 0        | 0        | 216.11         |
|  | 2/9 GULOL                   | WHOLE | 0        | 0        | 0        | 0        | 371.1          |
|  | 2/10 MUL                    | WHOLE | 0        | 0        | 0        | 0        | 219.34         |
|  | 2/11 KALEO                  | C-I   | 0        | 0        | 0        | 0        | 246.86         |
|  | 2/11 KALEO                  | C-II  | 0        | 0        | 0        | 0        | 242.81         |
|  | 2/11 KALEO                  | C-III | 0        | 0        | 0        | 0        | 372.37         |
|  | 2/11 KALEO                  | C-IV  | 0        | 0        | 0        | 0        | 520.23         |
|  | 2/12 BALACHA                | C-I   | 0        | 0        | 0        | 0        | 210.44         |
|  | 2/12 BALACHA                | C-II  | 0        | 0        | 0        | 0        | 144.47         |
|  | 2/13 SHAKAWA                | WHOLE | 0        | 0        | 0        | 0        | 1537.84        |
|  | 2/14 DANDA                  | WHOLE | 0        | 0        | 0        | 0        | 1618.78        |
|  | 2/15<br>DAWARIDANDA         | WHOLE | 0        | 0        | 0        | 0        | 679.89         |
|  | 2/16 BERNAGI                | C-I   | 0        | 0        | 0        | 0        | 52.2           |
|  | 2/16 BERNAGI                | C-II  | 0        | 0        | 0        | 0        | 61.11          |
|  | 2/16 BERNAGI                | C-III | 0        | 0        | 0        | 0        | 80.94          |
|  | 2/16 BERNAGI                | C-IV  | 0        | 0        | 0        | 0        | 315.66         |
|  | 2/17 DADAI                  | C-I   | 0        | 0        | 0        | 0        | 149.72         |
|  | 2/17 DADAI                  | C-II  | 0        | 0        | 0        | 0        | 186.15         |
|  | 2/17 DADAI                  | C-III | 0        | 0        | 0        | 0        | 165.92         |
|  | 2/18 RACHOKARI              | C-I   | 0        | 0        | 0        | 0        | 145.69         |
|  | 2/18 RACHOKARI              | C-II  | 0        | 0        | 0        | 0        | 194.25         |
|  | 2/19 MANDROW                | C-IV  | 0        | 0        | 0        | 0        | 334.68         |
|  | <b>Total DPF( II Class)</b> |       | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>10622.6</b> |
|  | Jiman Dogri                 | 1     | 0        | 0        | 0        | 0        | 40.46          |
|  | Basawari                    | 2     | 0        | 0        | 0        | 0        | 352.07         |
|  | Sarahan I                   | 3     | 0        | 0        | 0        | 0        | 182.1          |

|  |            |    |   |   |   |   |        |
|--|------------|----|---|---|---|---|--------|
|  | Sarahan II | 4  | 0 | 0 | 0 | 0 | 149.73 |
|  | Bramgarh   | 5  | 0 | 0 | 0 | 0 | 293.4  |
|  | Shalat     | 6  | 0 | 0 | 0 | 0 | 400.64 |
|  | Barna      | 7  | 0 | 0 | 0 | 0 | 157.83 |
|  | Bijali     | 8  | 0 | 0 | 0 | 0 | 60.7   |
|  | Bail       | 9  | 0 | 0 | 0 | 0 | 874.15 |
|  | Sisu       | 10 | 0 | 0 | 0 | 0 | 60.7   |
|  | Kanraon    | 11 | 0 | 0 | 0 | 0 | 97.12  |
|  | Kathanda   | 12 | 0 | 0 | 0 | 0 | 186.15 |
|  | Randal     | 13 | 0 | 0 | 0 | 0 | 356.12 |
|  | Ralu       | 14 | 0 | 0 | 0 | 0 | 311.24 |
|  | Brow       | 15 | 0 | 0 | 0 | 0 | 121.12 |
|  | Nishani    | 16 | 0 | 0 | 0 | 0 | 60.7   |
|  | Mareli     | 17 | 0 | 0 | 0 | 0 | 67.77  |
|  | Kasholi    | 18 | 0 | 0 | 0 | 0 | 117.36 |
|  | Pankwa     | 19 | 0 | 0 | 0 | 0 | 234.7  |
|  | Banaya     | 20 | 0 | 0 | 0 | 0 | 90.95  |
|  | Damauli    | 21 | 0 | 0 | 0 | 0 | 218.53 |
|  | Razauri    | 22 | 0 | 0 | 0 | 0 | 60.24  |
|  | Deothan    | 23 | 0 | 0 | 0 | 0 | 84.98  |
|  | Kareya     | 24 | 0 | 0 | 0 | 0 | 125.45 |
|  | Amathua    | 25 | 0 | 0 | 0 | 0 | 36.42  |
|  | Pakora     | 26 | 0 | 0 | 0 | 0 | 283.28 |
|  | Tharua     | 27 | 0 | 0 | 0 | 0 | 99.14  |
|  | Kothi      | 28 | 0 | 0 | 0 | 0 | 117.36 |
|  | Shil       | 29 | 0 | 0 | 0 | 0 | 283.28 |
|  | Neger      | 30 | 0 | 0 | 0 | 0 | 198.3  |
|  | Tinder     | 31 | 0 | 0 | 0 | 0 | 246.85 |
|  | Jawagi     | 32 | 0 | 0 | 0 | 0 | 20.23  |
|  | Keodhar    | 33 | 0 | 0 | 0 | 0 | 113.31 |
|  | Sarga      | 34 | 0 | 0 | 0 | 0 | 68.8   |
|  | Neokundar  | 35 | 0 | 0 | 0 | 0 | 364.22 |
|  | Kushua     | 36 | 0 | 0 | 0 | 0 | 186.15 |
|  | Kater      | 37 | 0 | 0 | 0 | 0 | 97.15  |
|  | Kindla     | 38 | 0 | 0 | 0 | 0 | 305.53 |
|  | Kimcha     | 39 | 0 | 0 | 0 | 0 | 655.39 |
|  | Nal        | 40 | 0 | 0 | 0 | 0 | 32.37  |
|  | Kharga     | 41 | 0 | 0 | 0 | 0 | 165.92 |
|  | Bhakan     | 42 | 0 | 0 | 0 | 0 | 343.18 |
|  | Dharmot    | 43 | 0 | 0 | 0 | 0 | 194.24 |
|  | Gundi      | 44 | 0 | 0 | 0 | 0 | 267.09 |
|  | Basalai    | 45 | 0 | 0 | 0 | 0 | 145.68 |
|  | Tunan      | 46 | 0 | 0 | 0 | 0 | 326.31 |
|  | Sharshaya  | 47 | 0 | 0 | 0 | 0 | 244.88 |

|        |                                   |        |          |          |          |          |                |
|--------|-----------------------------------|--------|----------|----------|----------|----------|----------------|
|        | Jahalu                            | 48     | 0        | 0        | 0        | 0        | 233.43         |
|        | <b>TOTAL LIST UPF</b>             |        | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>9732.72</b> |
|        |                                   |        |          |          |          |          |                |
| CHOWAI | 1/13<br>SATHABANDRI<br>TRIJHAKAR  | C-Vb   | 0        | 0        | 0        | 0        | 17             |
|        | 1/30 CHOTAR                       | C-IIIb | 0        | 0        | 0        | 0        | 25.09          |
|        | 1/30 CHOTAR                       | C-V    | 0        | 0        | 0        | 0        | 97.13          |
|        | <b>Total DPF( I Class)</b>        |        | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>139.22</b>  |
|        | 2/22 BAMAUR<br>JADRI              |        |          |          |          |          | 418.86         |
|        | 2/23 KHANORA                      | C-II   |          |          |          |          | 125.86         |
|        | 2/25 KOTANAL                      | WHOLE  |          |          |          |          | 178.47         |
|        | 2/26 KHANEO                       | WHOLE  |          |          |          |          | 406.72         |
|        | 2/27 GOHAN                        | WHOLE  |          |          |          |          | 359.37         |
|        | 2/28 JALORI                       | WHOLE  |          |          |          |          | 922.3          |
|        | 2/32 SHARAGSHIL                   | WHOLE  |          |          |          |          | 56.66          |
|        | 2/32 SHARAGSHIL                   | C-I    |          |          |          |          | 161.88         |
|        | 2/33 MANDRIBIL<br>DRAD            | C-II   |          |          |          |          | 1181.3         |
|        | 2/34 CHUL                         | WHOLE  | 0        | 0        | 0        | 0        | 496.15         |
|        | <b>TOTAL DPF ( II<br/>CLASS )</b> |        | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>4307.57</b> |
|        |                                   |        |          |          |          |          |                |
|        | UPF Phanauti                      | 89     | 0        | 0        | 0        | 0        | 182.11         |
|        | UPF Barino                        | 90     | 0        | 0        | 0        | 0        | 80.93          |
|        | UPF Salut                         | 91     | 0        | 0        | 0        | 0        | 291.37         |
|        | UPF Lot                           | 92     | 0        | 0        | 0        | 0        | 93.15          |
|        | UPF Sul                           | 93     | 0        | 0        | 0        | 0        | 62.69          |
|        | UPF Kashalabag                    | 94     | 0        | 0        | 0        | 0        | 68.8           |
|        | UPF Kanshel                       | 95     | 0        | 0        | 0        | 0        | 105.22         |
|        | UPF Kultha                        | 96     | 0        | 0        | 0        | 0        | 79.32          |
|        | UPF Kamand                        | 97     | 0        | 0        | 0        | 0        | 46.53          |
|        | UPF Chapal                        | 98     | 0        | 0        | 0        | 0        | 165.92         |
|        | UPF Marog                         | 99     | 0        | 0        | 0        | 0        | 37.23          |
|        | UPF Samted                        | 100    | 0        | 0        | 0        | 0        | 26.3           |
|        | UPF Chalahug                      | 101    | 0        | 0        | 0        | 0        | 113.31         |
|        | UPF<br>Shomar(Kashmal)            | 102    | 0        | 0        | 0        | 0        | 94.7           |
|        | UPF Bharai                        | 103    | 0        | 0        | 0        | 0        | 133.54         |
|        | UPF Uthkhaner                     | 104    | 0        | 0        | 0        | 0        | 82.96          |
|        | UPF Mathuvi                       | 105    | 0        | 0        | 0        | 0        | 10.11          |
|        | UPF Tharvi                        | 106    | 0        | 0        | 0        | 0        | 28.32          |
|        | UPF Chajut                        | 107    | 0        | 0        | 0        | 0        | 80.93          |
|        | UPF Khadoran                      | 108    | 0        | 0        | 0        | 0        | 80.01          |
|        | UPF Shush                         | 109    | 0        | 0        | 0        | 0        | 74.86          |
|        | UPF Charinal                      | 110    | 0        | 0        | 0        | 0        | 14.16          |

|  |                |     |   |   |   |   |        |
|--|----------------|-----|---|---|---|---|--------|
|  | UPF Batot      | 111 | 0 | 0 | 0 | 0 | 16.18  |
|  | UPF Ghatadhar  | 112 | 0 | 0 | 0 | 0 | 52.61  |
|  | UPF Pokhar     | 113 | 0 | 0 | 0 | 0 | 72.76  |
|  | UPF Khaneri    | 114 | 0 | 0 | 0 | 0 | 52.6   |
|  | UPF Pharaudi   | 115 | 0 | 0 | 0 | 0 | 101.17 |
|  | UPF Patarna    | 116 | 0 | 0 | 0 | 0 | 52.6   |
|  | UPF Bansira    | 117 | 0 | 0 | 0 | 0 | 91.05  |
|  | UPF Satehan    | 118 | 0 | 0 | 0 | 0 | 101.17 |
|  | UPF Batlon     | 119 | 0 | 0 | 0 | 0 | 93.08  |
|  | UPF Kachimatti | 120 | 0 | 0 | 0 | 0 | 113.31 |
|  | UPF Panjudarh  | 121 | 0 | 0 | 0 | 0 | 198.2  |
|  | UPF Jaungi     | 122 | 0 | 0 | 0 | 0 | 40.46  |
|  | UPF Karana     | 123 | 0 | 0 | 0 | 0 | 89.03  |
|  | UPF JerI       | 124 | 0 | 0 | 0 | 0 | 93.08  |
|  | UPF JABO       | 125 | 0 | 0 | 0 | 0 | 22.25  |
|  | UPF Kutal      | 126 | 0 | 0 | 0 | 0 | 40.46  |
|  | UPF Mishta     | 127 | 0 | 0 | 0 | 0 | 64.75  |
|  | UPF Sampal     | 128 | 0 | 0 | 0 | 0 | 97.12  |
|  | UPF Mahutui    | 129 | 0 | 0 | 0 | 0 | 10.11  |
|  | UPF Ropa       | 130 | 0 | 0 | 0 | 0 | 34.39  |
|  | UPF Bala       | 131 | 0 | 0 | 0 | 0 | 30.35  |
|  | UPF Jahara     | 132 | 0 | 0 | 0 | 0 | 18.21  |
|  | UPF Kandi      | 133 | 0 | 0 | 0 | 0 | 18.21  |
|  | UPF Binan      | 134 | 0 | 0 | 0 | 0 | 287.33 |
|  | Mahul          | 135 | 0 | 0 | 0 | 0 | 339.93 |
|  | UPF Kutar      | 136 | 0 | 0 | 0 | 0 | 32.37  |
|  | UPF Rishtad    | 137 | 0 | 0 | 0 | 0 | 44.51  |
|  | UPF Poeg       | 138 | 0 | 0 | 0 | 0 | 169.96 |
|  | UPF Roha       | 139 | 0 | 0 | 0 | 0 | 16.18  |
|  | UPF Runa       | 140 | 0 | 0 | 0 | 0 | 28.32  |
|  | UPF Matal      | 141 | 0 | 0 | 0 | 0 | 271.14 |
|  | UPF Haripur    | 142 | 0 | 0 | 0 | 0 | 202.34 |
|  | UPF Olwa       | 143 | 0 | 0 | 0 | 0 | 299.46 |
|  | UPF Kater      | 144 | 0 | 0 | 0 | 0 | 287.28 |
|  | UPF Nagali     | 145 | 0 | 0 | 0 | 0 | 28.32  |
|  | UPF Kutol      | 146 | 0 | 0 | 0 | 0 | 24.28  |
|  | UPF Khaura     | 147 | 0 | 0 | 0 | 0 | 123.42 |
|  | UPF Thog       | 148 | 0 | 0 | 0 | 0 | 145.68 |
|  | UPF Phanokhad  | 149 | 0 | 0 | 0 | 0 | 69.89  |
|  | UPF Bakhanou   | 150 | 0 | 0 | 0 | 0 | 48.56  |
|  | UPF Nai Ropa   | 151 | 0 | 0 | 0 | 0 | 70.82  |
|  | UPF Shagahan   | 152 | 0 | 0 | 0 | 0 | 109.26 |
|  | UPF Kalow      | 153 | 0 | 0 | 0 | 0 | 48.56  |
|  | UPF Bashalani  | 154 | 0 | 0 | 0 | 0 | 72.84  |



|        |                              |          |          |          |          |          |                |
|--------|------------------------------|----------|----------|----------|----------|----------|----------------|
|        | UPF Bahua                    | 155      | 0        | 0        | 0        | 0        | 38.44          |
|        | UPF Shup                     | 156      | 0        | 0        | 0        | 0        | 82.96          |
|        | UPF Kutwa                    | 157      | 0        | 0        | 0        | 0        | 184.13         |
|        | UPF Khadu                    | 158      | 0        | 0        | 0        | 0        | 186.15         |
|        | UPF Tarala                   | 159      | 0        | 0        | 0        | 0        | 84.98          |
|        | UPF Jaon                     | 160      | 0        | 0        | 0        | 0        | 101.17         |
|        | UPF Ramal                    | 161      | 0        | 0        | 0        | 0        | 137.59         |
|        | UPF Thamach I                | 162      | 0        | 0        | 0        | 0        | 279.23         |
|        | UPF Thamach II               | 163      | 0        | 0        | 0        | 0        | 70             |
|        | UPF Deem                     | 164      | 0        | 0        | 0        | 0        | 93.07          |
|        | UPF Kot                      | 165      | 0        | 0        | 0        | 0        | 123.43         |
|        | UPF Kunala                   | 166      | 0        | 0        | 0        | 0        | 66.77          |
|        | UPF Khanag                   | 167      | 0        | 0        | 0        | 0        | 115.33         |
|        | UPF Dhar                     | 168      | 0        | 0        | 0        | 0        | 182.1          |
|        | UPF Ropa                     | 169      | 0        | 0        | 0        | 0        | 153.78         |
|        | UPF Mathena                  | 170      | 0        | 0        | 0        | 0        | 49.32          |
|        | UPF Gagni                    | 171      | 0        | 0        | 0        | 0        | 91.05          |
|        | UPF Shagag                   | 172      | 0        | 0        | 0        | 0        | 188.17         |
|        | UPF Ghadari                  | 173      | 0        | 0        | 0        | 0        | 137.6          |
|        | UPF Bhalal                   | 174      | 0        | 0        | 0        | 0        | 80.93          |
|        | UPF Pali                     | 175      | 0        | 0        | 0        | 0        | 93.08          |
|        | UPF Kutwa                    | 176      | 0        | 0        | 0        | 0        | 147.71         |
|        | UPF Shilti                   | 177      | 0        | 0        | 0        | 0        | 313.63         |
|        | UPF Tepel                    | 178      | 0        | 0        | 0        | 0        | 22.25          |
|        | <b>Total</b>                 | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>9198.94</b> |
| NITHER | 1/8 LOHAR                    | C-I      | 0        | 0        | 0        | 0        | 133.55         |
|        | 1/8 LOHAR                    | C-II     | 0        | 0        | 0        | 0        | 295.42         |
|        | 1/9 BIJURI                   | C-II     | 0        | 0        | 0        | 0        | 271.14         |
|        | 1/10 BASHAD                  | C-II     | 0        | 0        | 0        | 0        | 127.88         |
|        | 1/14 MARAHKOD                | C-IVb    | 0        | 0        | 0        | 0        | 45.32          |
|        | 1/24 SHILA                   | C-III    | 0        | 0        | 0        | 0        | 45.32          |
|        | <b>TOTAL DPF ( I CLASS )</b> |          | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>918.63</b>  |
|        | 2/20 DAMAN                   | C-II     | 0        | 0        | 0        | 0        | 122.21         |
|        | 2/21 PATAL                   | WHOLE    | 0        | 0        | 0        | 0        | 235.53         |
|        | <b>Total DPF( II Class)</b>  |          | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>357.74</b>  |
|        | Tadasha                      | 49       | 0        | 0        | 0        | 0        | 198.29         |
|        | Tihni                        | 50       | 0        | 0        | 0        | 0        | 299.46         |
|        | Shush                        | 51       | 0        | 0        | 0        | 0        | 477.53         |
|        | Ganchwa                      | 52       | 0        | 0        | 0        | 0        | 341.94         |
|        | Katoha                       | 53       | 0        | 0        | 0        | 0        | 299.46         |
|        | Bai                          | 54       | 0        | 0        | 0        | 0        | 145.68         |
|        | Soidhar                      | 55       | 0        | 0        | 0        | 0        | 137.59         |
|        | Sarli                        | 56       | 0        | 0        | 0        | 0        | 242.81         |
|        | Lunalot                      | 57       | 0        | 0        | 0        | 0        | 404.68         |

|  |                                          |    |          |          |          |          |                 |
|--|------------------------------------------|----|----------|----------|----------|----------|-----------------|
|  | Kuther                                   | 58 | 0        | 0        | 0        | 0        | 137.59          |
|  | Sheug                                    | 59 | 0        | 0        | 0        | 0        | 230.67          |
|  | Tandi                                    | 60 | 0        | 0        | 0        | 0        | 165.92          |
|  | Thalin                                   | 61 | 0        | 0        | 0        | 0        | 242.81          |
|  | Khani                                    | 62 | 0        | 0        | 0        | 0        | 165.92          |
|  | Nore                                     | 63 | 0        | 0        | 0        | 0        | 343.98          |
|  | Jaral                                    | 64 | 0        | 0        | 0        | 0        | 319.7           |
|  | Katmore                                  | 65 | 0        | 0        | 0        | 0        | 279.23          |
|  | Kanda                                    | 66 | 0        | 0        | 0        | 0        | 141.64          |
|  | Ishwa                                    | 67 | 0        | 0        | 0        | 0        | 292.31          |
|  | Khaler                                   | 68 | 0        | 0        | 0        | 0        | 153.77          |
|  | Tandi                                    | 69 | 0        | 0        | 0        | 0        | 174.02          |
|  | Margi                                    | 70 | 0        | 0        | 0        | 0        | 279.23          |
|  | Sunara                                   | 71 | 0        | 0        | 0        | 0        | 129.49          |
|  | Ghatu                                    | 72 | 0        | 0        | 0        | 0        | 194.24          |
|  | Pali                                     | 73 | 0        | 0        | 0        | 0        | 113.31          |
|  | Dagehani                                 | 74 | 0        | 0        | 0        | 0        | 72.84           |
|  | Shedari                                  | 75 | 0        | 0        | 0        | 0        | 392.54          |
|  | Bashla                                   | 76 | 0        | 0        | 0        | 0        | 190.2           |
|  | Kalog                                    | 77 | 0        | 0        | 0        | 0        | 354.1           |
|  | Khatal                                   | 78 | 0        | 0        | 0        | 0        | 20.23           |
|  | Shanah                                   | 79 | 0        | 0        | 0        | 0        | 364.21          |
|  | Duraha                                   | 80 | 0        | 0        | 0        | 0        | 499.7           |
|  | Jalori                                   | 81 | 0        | 0        | 0        | 0        | 89.03           |
|  | Sharti                                   | 82 | 0        | 0        | 0        | 0        | 203.97          |
|  | Chebari                                  | 83 | 0        | 0        | 0        | 0        | 269.09          |
|  | Nither                                   | 84 | 0        | 0        | 0        | 0        | 218.58          |
|  | Kopardhar                                | 85 | 0        | 0        | 0        | 0        | 107.93          |
|  | Moin                                     | 86 | 0        | 0        | 0        | 0        | 235.94          |
|  | Nintha                                   | 87 | 0        | 0        | 0        | 0        | 216.5           |
|  | Shah                                     | 88 | 0        | 0        | 0        | 0        | 334.71          |
|  | <b>TOTAL LIED UPF</b>                    |    | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>9480.84</b>  |
|  | <b>G.Total Protection Working circle</b> |    | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>47984.86</b> |
|  | <b>G.Total</b>                           |    |          |          |          |          | <b>53699.50</b> |

**Appendix-III**

**General Abstract (Working Circle Wise)**

| NAME OF RANGE  | FOREST CATEGORY | DEODAR /KAIL WORKING CIRCLE |               |               |               |                | FIR /SPRUCE WORKING CIRCLE |               |                |               |                | CHIL WORKING CIRCLE |               |               |               |               | Protection Working circle | G.Total         |
|----------------|-----------------|-----------------------------|---------------|---------------|---------------|----------------|----------------------------|---------------|----------------|---------------|----------------|---------------------|---------------|---------------|---------------|---------------|---------------------------|-----------------|
|                |                 | PB1                         | PBII          | PBIII         | PBIV          | TOTAL          | PB1                        | PBII          | PBIII          | PBIV          | TOTAL          | PB1                 | PBII          | PBIII         | PBIV          | TOTAL         | TOTAL                     |                 |
| Arsu           | RF              | 0                           | 0             | 0             | 112.09        | <b>112.09</b>  | 0                          | 111.69        | 32.37          | 0             | <b>144.06</b>  | 0                   | 0             | 0             | 0             | <b>0</b>      | <b>1619.57</b>            | <b>1875.72</b>  |
|                | DPF(I class)    | 35.61                       | 98.34         | 104           | 16.19         | <b>254.14</b>  | 8.9                        | 0             | 65.96          | 0             | <b>74.86</b>   | 0                   | 0             | 0             | 287.73        | <b>287.73</b> | <b>1607.03</b>            | <b>2223.76</b>  |
|                | DPF(II Class)   | 0                           | 0             | 0             | 0             | <b>0</b>       | 0                          | 0             | 328.61         | 99.96         | <b>428.57</b>  | 0                   | 0             | 106.84        | 38.44         | <b>145.28</b> | <b>10622.6</b>            | <b>11196.45</b> |
|                | Lied UPF        | 0                           | 0             | 0             | 0             | <b>0</b>       | 0                          | 0             | 0              | 0             | <b>0</b>       | 0                   | 0             | 0             | 0             | <b>0</b>      | <b>9732.72</b>            | <b>9732.72</b>  |
|                | <b>Total</b>    | <b>35.61</b>                | <b>98.34</b>  | <b>104</b>    | <b>128.28</b> | <b>366.23</b>  | <b>8.9</b>                 | <b>111.69</b> | <b>426.94</b>  | <b>99.96</b>  | <b>647.49</b>  | <b>0</b>            | <b>0</b>      | <b>106.84</b> | <b>326.17</b> | <b>433.01</b> | <b>23581.92</b>           | <b>25028.65</b> |
| Chowai         | RF              | 47.35                       | 53.02         | 0             | 84.98         | <b>185.35</b>  | 0                          | 0             | 0              | 0             | <b>0</b>       | 0                   | 0             | 0             | 0             | <b>0</b>      | <b>0</b>                  | <b>185.35</b>   |
|                | DPF(I class)    | 335                         | 459.3         | 175.62        | 106.02        | <b>1075.94</b> | 252.13                     | 101.57        | 568.99         | 48.56         | <b>971.25</b>  | 91.86               | 272.77        | 0             | 29.14         | <b>393.77</b> | <b>139.22</b>             | <b>2580.18</b>  |
|                | DPF(II Class)   | 30.35                       | 0             | 0             | 0             | <b>30.35</b>   | 144.07                     | 89.03         | 394.17         | 0             | <b>627.27</b>  | 0                   | 0             | 0             | 0             | <b>0</b>      | <b>4307.57</b>            | <b>4965.19</b>  |
|                | Lied UPF        | 0                           | 0             | 0             | 0             | <b>0</b>       | 0                          | 0             | 0              | 0             | <b>0</b>       | 0                   | 0             | 0             | 0             | <b>0</b>      | <b>9198.94</b>            | <b>9198.94</b>  |
|                | <b>Total</b>    | <b>412.7</b>                | <b>512.32</b> | <b>175.62</b> | <b>191</b>    | <b>1291.64</b> | <b>396.2</b>               | <b>190.6</b>  | <b>963.16</b>  | <b>48.56</b>  | <b>1598.52</b> | <b>91.86</b>        | <b>272.77</b> | <b>0</b>      | <b>29.14</b>  | <b>393.77</b> | <b>13645.73</b>           | <b>16929.66</b> |
| Nither         | RF              | 0                           | 14.97         | 0             | 0             | <b>14.97</b>   | 0                          | 0             | 0              | 0             | <b>0</b>       | 0                   | 0             | 0             | 0             | <b>0</b>      | <b>0</b>                  | <b>14.97</b>    |
|                | DPF(I class)    | 282.89                      | 131.71        | 94.69         | 0             | <b>509.29</b>  | 0                          | 233.91        | 54.23          | 0             | <b>288.14</b>  | 0                   | 0             | 40.87         | 29.54         | <b>70.41</b>  | <b>918.63</b>             | <b>1786.47</b>  |
|                | DPF(II Class)   | 0                           | 0             | 0             | 0             | <b>0</b>       | 101.17                     | 0             | 0              | 0             | <b>101.17</b>  | 0                   | 0             | 0             | 0             | <b>0</b>      | <b>357.74</b>             | <b>458.91</b>   |
|                | Lied UPF        | 0                           | 0             | 0             | 0             | <b>0</b>       | 0                          | 0             | 0              | 0             | <b>0</b>       | 0                   | 0             | 0             | 0             | <b>0</b>      | <b>9480.84</b>            | <b>9480.84</b>  |
|                | <b>Total</b>    | <b>282.89</b>               | <b>146.68</b> | <b>94.69</b>  | <b>0</b>      | <b>524.26</b>  | <b>101.17</b>              | <b>233.91</b> | <b>54.23</b>   | <b>0</b>      | <b>389.31</b>  | <b>0</b>            | <b>0</b>      | <b>40.87</b>  | <b>29.54</b>  | <b>70.41</b>  | <b>10757.21</b>           | <b>11741.19</b> |
| <b>G.Total</b> |                 | <b>731.2</b>                | <b>757.34</b> | <b>374.31</b> | <b>319.28</b> | <b>2182.13</b> | <b>506.27</b>              | <b>536.2</b>  | <b>1444.33</b> | <b>148.52</b> | <b>2635.32</b> | <b>91.86</b>        | <b>272.77</b> | <b>147.71</b> | <b>384.85</b> | <b>897.19</b> | <b>47984.86</b>           | <b>53699.50</b> |

|                        | NAME OF RANGE |             |              |         |          |        |             |              |         |          |        |             |              |         |          |         |             |              |         |          |
|------------------------|---------------|-------------|--------------|---------|----------|--------|-------------|--------------|---------|----------|--------|-------------|--------------|---------|----------|---------|-------------|--------------|---------|----------|
| Name of Working circle | Arsu          |             |              |         |          | Chowai |             |              |         |          | Nither |             |              |         |          | G.Total |             |              |         |          |
|                        | RF            | DPF I Class | DPF II Class | UPF     | Total    | RF     | DPF I Class | DPF II Class | UPF     | Total    | RF     | DPF I Class | DPF II Class | UPF     | Total    | RF      | DPF I Class | DPF II Class | UPF     | Total    |
| Deodar WC              | 112.09        | 254.14      | 0            | 0       | 366.23   | 185.35 | 1075.94     | 30.35        | 0       | 1291.64  | 14.97  | 509.29      | 0            | 0       | 524.26   | 312.41  | 1839.37     | 30.35        | 0       | 2182.13  |
| Fir/Spruce WC          | 144.06        | 74.86       | 428.57       | 0       | 647.49   | 0      | 971.25      | 627.27       | 0       | 1598.52  | 0      | 288.14      | 101.17       | 0       | 389.31   | 144.06  | 1334.25     | 1157.01      | 0       | 2635.32  |
| Chil WC                | 0             | 287.73      | 145.28       | 0       | 433.01   | 0      | 393.77      | 0            | 0       | 393.77   | 0      | 70.41       | 0            | 0       | 70.41    | 0       | 751.91      | 145.28       | 0       | 897.19   |
| Protection WC          | 1619.57       | 1607.03     | 10622.6      | 9732.72 | 23581.92 | 0      | 139.22      | 4307.57      | 9198.94 | 13645.73 | 0      | 918.63      | 357.74       | 9480.84 | 10757.21 | 1619.57 | 2664.88     | 15287.91     | 28412.5 | 47984.9  |
|                        | 1875.72       | 2223.76     | 11196.45     | 9732.72 | 25028.65 | 185.35 | 2580.18     | 4965.19      | 9198.94 | 16929.66 | 14.97  | 1786.47     | 458.91       | 9480.84 | 11741.19 | 2076.04 | 6590.41     | 16620.55     | 28412.5 | 53699.50 |

## BEAT WISE GEOGRAPHICAL AREA OF ANNI FOREST DIVISION

| Sr.No. | Circle | Division | Range  | Block   | Beat     | Geographical Area in GIS (SQ Meters) | Area in hac. | Forest land (UPF/DPF/RF) | Other land |
|--------|--------|----------|--------|---------|----------|--------------------------------------|--------------|--------------------------|------------|
| 1      | Rampur | Ani      | Arsu   | Arsu    | Pali     | 7498022.8                            | 749.8        | 366.12                   | 383.68     |
| 2      | Rampur | Ani      | Arsu   | Sarahan | Juagi    | 40775766.12                          | 4077.58      | 3752.29                  | 325.29     |
| 3      | Rampur | Ani      | Arsu   | Arsu    | Buini    | 6660076.9                            | 666.01       | 526.09                   | 139.92     |
| 4      | Rampur | Ani      | Arsu   | Arsu    | Tharvi   | 24767732.88                          | 2476.77      | 2105.43                  | 371.34     |
| 5      | Rampur | Ani      | Arsu   | Sarahan | Shamani  | 12188284.02                          | 1218.83      | 1084.04                  | 134.79     |
| 6      | Rampur | Ani      | Arsu   | Sarahan | Sarahan  | 22907569.02                          | 2290.76      | 1728.42                  | 562.34     |
| 7      | Rampur | Ani      | Arsu   | Kharga  | Kharga   | 31134053.4                           | 3113.41      | 2663.25                  | 450.16     |
| 8      | Rampur | Ani      | Arsu   | Kharga  | Tunan    | 10380824.88                          | 1038.08      | 960.32                   | 77.76      |
| 9      | Rampur | Ani      | Arsu   | Arsu    | Arsu     | 12595714.66                          | 1259.57      | 849.87                   | 409.7      |
| 10     | Rampur | Ani      | Arsu   | Kharga  | Kindla   | 19726504.36                          | 1972.65      | 1827.38                  | 145.27     |
| 11     | Rampur | Ani      | Arsu   | Kharga  | Sarga    | 23274553.63                          | 2327.46      | 1952.28                  | 375.18     |
| 12     | Rampur | Ani      | Arsu   | Nirmand | Brow     | 9550720.99                           | 955.07       | 788.48                   | 166.59     |
| 13     | Rampur | Ani      | Arsu   | Nirmand | Pujarli  | 13465382.92                          | 1346.54      | 606.74                   | 739.8      |
| 14     | Rampur | Ani      | Arsu   | Nirmand | Averi    | 12117514.54                          | 1211.75      | 1125.05                  | 86.7       |
| 15     | Rampur | Ani      | Arsu   | Sarahan | Tharla   | 57885085.54                          | 5788.51      | 5205.56                  | 582.95     |
| 16     | Rampur | Ani      | Arsu   | Nirmand | Nirmand  | 11551475.36                          | 1155.15      | 550.6                    | 604.55     |
| 17     | Rampur | Ani      | Chowai | Takrasi | Tharvi   | 13365497.49                          | 1336.55      | 831.2                    | 505.35     |
| 18     | Rampur | Ani      | Chowai | Takrasi | Lohal    | 7806938.51                           | 780.69       | 674.61                   | 106.08     |
| 19     | Rampur | Ani      | Chowai | Takrasi | Kuiner   | 8456798.69                           | 845.68       | 370.28                   | 475.4      |
| 20     | Rampur | Ani      | Chowai | Khanag  | Tarala   | 16840715.5                           | 1684.07      | 1252.1                   | 431.97     |
| 21     | Rampur | Ani      | Chowai | Takrasi | Karshala | 16183357.15                          | 1618.34      | 1217.33                  | 401.01     |
| 22     | Rampur | Ani      | Chowai | Khanag  | Kohila   | 14230735.03                          | 1423.07      | 1117.32                  | 305.75     |
| 23     | Rampur | Ani      | Chowai | Khanag  | Kot      | 23792198.19                          | 2379.22      | 1852.1                   | 527.12     |
| 24     | Rampur | Ani      | Chowai | Paneo   | Bai      | 8261346.12                           | 826.13       | 322.52                   | 503.61     |
| 25     | Rampur | Ani      | Chowai | Chowai  | Kutwa    | 9425495.18                           | 942.55       | 605.4                    | 337.15     |
| 26     | Rampur | Ani      | Chowai | Chowai  | Chwai    | 12143185.79                          | 1214.32      | 839.77                   | 374.55     |
| 27     | Rampur | Ani      | Chowai | Chowai  | Haripur  | 14233716.48                          | 1423.37      | 887.45                   | 535.92     |
| 28     | Rampur | Ani      | Chowai | Khanag  | Namhong  | 8532556.68                           | 853.26       | 591.18                   | 262.08     |
| 29     | Rampur | Ani      | Chowai | Paneo   | Deem     | 24097494.29                          | 2409.75      | 2056.5                   | 353.25     |
| 30     | Rampur | Ani      | Chowai | Paneo   | Poeg     | 18124668.91                          | 1812.47      | 1083.36                  | 729.11     |
| 31     | Rampur | Ani      | Chowai | Chowai  | Patarna  | 16650580.4                           | 1665.06      | 1215.98                  | 449.08     |
| 32     | Rampur | Ani      | Chowai | Paneo   | Gad      | 13241584.75                          | 1324.16      | 784.16                   | 540        |
| 33     | Rampur | Ani      | Chowai | Paneo   | Karana   | 10119226.56                          | 1011.92      | 952.91                   | 59.01      |
| 34     | Rampur | Ani      | Nither | Dalash  | Dalash   | 18888395.41                          | 1888.84      | 1061.28                  | 827.56     |
| 35     | Rampur | Ani      | Nither | Dalash  | Luhri    | 16073841.76                          | 1607.38      | 1424.47                  | 182.91     |
| 36     | Rampur | Ani      | Nither | Dalash  | Kandagai | 6878693.48                           | 687.87       | 92.26                    | 595.61     |

|    |              |     |        |        |         |                  |                 |                 |                 |
|----|--------------|-----|--------|--------|---------|------------------|-----------------|-----------------|-----------------|
| 37 | Rampur       | Ani | Nither | Nither | Nither  | 9739665.39       | 973.97          | 915.15          | 58.82           |
| 38 | Rampur       | Ani | Nither | Nither | Tandi   | 13280103.37      | 1328.01         | 736.52          | 591.49          |
| 39 | Rampur       | Ani | Nither | Moin   | Ghorla  | 5934551.77       | 593.46          | 408.73          | 184.73          |
| 40 | Rampur       | Ani | Nither | Margi  | Ghatu   | 14499797.77      | 1449.98         | 829.58          | 620.4           |
| 41 | Rampur       | Ani | Nither | Moin   | Koil    | 14541740         | 1454.17         | 833.64          | 620.53          |
| 42 | Rampur       | Ani | Nither | Margi  | Nore    | 12217302.85      | 1221.73         | 1044.09         | 177.64          |
| 43 | Rampur       | Ani | Nither | Margi  | Margi   | 17062070.64      | 1706.21         | 1383.75         | 322.46          |
| 44 | Rampur       | Ani | Nither | Margi  | Katmore | 11031486.35      | 1103.15         | 679.86          | 423.29          |
| 45 | Rampur       | Ani | Nither | Nither | Sarahar | 13203072.68      | 1320.31         | 1200.24         | 120.07          |
| 46 | Rampur       | Ani | Nither | Moin   | Moin    | 9807826.82       | 980.78          | 343.87          | 636.91          |
|    | <b>Total</b> |     |        |        |         | <b>715143926</b> | <b>71514.39</b> | <b>53699.53</b> | <b>17814.86</b> |

## 4 Inventory Field Forms 1 to 3

**Plot Approach Form****Field Form No 1**

- 1) Plot Approach Form must be filled in while the journey is in progress.  
 2) While recording date it is essential to records month and year also.
1. FSI Zone (1) Northern Zone  
 2. Physiographic Zone (1) Western Himalayas  
 3. State and Code (02) HP  
 4. Division and Code  
 5. District and Code  
 6. Mapsheet No.  
 7. Grid Code  
 8. Crew leader (name)  
 9. Name of Camp  
 10. Time (hrs) at which left the camp  
 11. Distance covered  
 12. Time taken in journey by vehicle  
 13. Location of the places up to which journey was performed by vehicle (describe in brief) **Latitude Longitude**

**(Remark: The Latitude & Longitude of the location of the places up to which journey was performed by vehicle are to be recorded here.)**

14. Conspicuous features observed during the Journey by vehicle (describe in brief) **Not to be filled up.**
15. Time (hrs.) at which started on foot **Plot 1 Plot 2 Plot 3**
16. Distance covered on foot up to the Grid Centre (Km) **Plot 1 Plot 2 Plot 3**

**(Remark: The word "Direction and" is deleted from the above items.)**

17. Conspicuous features observed during the Journey on foot (described in brief) **Not to be filled up.**
18. Time (hrs.) at which arrived at the reference point **Not to be filled up.**
19. Description of the reference point (described in details) **Not to be filled up.**
20. Compass bearing from reference point to the plot approached for commencing survey **Not to be filled up.**
21. Distance of the plot from reference point (mtr) **Not to be filled up.**

22. Time (hrs.) of arrival at the Plot **Plot 1 Plot 2 Plot 3**
23. Time (hrs.) of departure from the Plot **Plot 1 Plot 2 Plot 3**
24. Time (hrs.) at which returned to the camp
25. Compassing/Navigation done by
26. Distance measured by

27. Plot laid out by
28. Tree Enumeration done by
29. Height measurement taken by
30. B.T. and other measurement taken by
31. Bamboo enumeration done by
32. Bamboo weight taken by
33. Herbs/Shrubs/Rege. data collected by
34. Forest Floor/ Soil data collected by
35. Biomass data collected by
36. Reference in the field written by
37. Detail of the Reference

| Reference Tree | Spp Code | Spp Name | Dlance from Trees to Grid Centre | Bearing from Tree to Grid Centre |
|----------------|----------|----------|----------------------------------|----------------------------------|
| 1.             |          |          |                                  |                                  |
| 2.             |          |          |                                  |                                  |

38. Dlance & bearing of GPS to the Grid centre  
From the place upto where the crew approach  
This time is to be filled up only if the status  
Of the plot 2, 3, or 4

39. Remarks

Date:

Signature of the Crew Leader

The diagrams A & B are not to be drawn.



|  |             |                                          |
|--|-------------|------------------------------------------|
|  | 1<br>6      | General Topography                       |
|  | 1<br>7      | Slope                                    |
|  | 1<br>8      | Position on slope                        |
|  | 1<br>9      | Altitude                                 |
|  | 2<br>0      | Aspect                                   |
|  | 2<br>1      | Rockiness                                |
|  | 2<br>2      | Humus                                    |
|  | 2<br>3      | Soil colour                              |
|  | 2<br>4      | Soil conslency                           |
|  | 2<br>5      | Soil texture                             |
|  | 2<br>6      | Coarse Fragments                         |
|  | 2<br>7      | Soil depth                               |
|  | 2<br>8      | Soil erosion                             |
|  | 2<br>9      | Origin of stand                          |
|  | 3<br>0      | Crop composition                         |
|  | 3<br>1      | Canopy layer or storey                   |
|  | 3<br>2      | Top height                               |
|  | 3<br>3      | Size class                               |
|  | 3<br>4      | Intensity of regeneration                |
|  | 3<br>5      | Species                                  |
|  | 3<br>6      | Injuries to crop <i>due to pest</i>      |
|  | 3<br>6<br>a | <i>Girdling &amp; Illicit felling</i>    |
|  | 3<br>6<br>b | <i>Lopping for fodder</i>                |
|  | 3<br>7      | Fire incidence                           |
|  | 3<br>8      | Grazing incidence                        |
|  | 3<br>9      | Presence of weeds                        |
|  | 4<br>0      | Presence of grass                        |
|  | 4<br>1      | Bamboo density                           |
|  | 4<br>2      | Bamboo quality                           |
|  | 4<br>3      | Bamboo flowering                         |
|  | 4<br>4      | Bamboo Regeneration                      |
|  | 4<br>5      | Plantation potential                     |
|  | 4<br>6      | Dlance from road (km)                    |
|  | 4<br>7      | Dlance from river/stream(m)              |
|  | 4<br>8      | Plot status                              |
|  | 4<br>9      | Biotic influence                         |
|  | 5<br>0      | Natural calamity                         |
|  | 5<br>1      | <b>Forest Type (as per Working Plan)</b> |

[illegible]

Date \_\_\_\_\_

Signature of the Crew Leader .....

Name of the Crew Leader.....

Note :- i) First Number in the row below the field headings represents the column number inside the bracket represent the column width.

ii) For Lat & Long second to recorded upto one decimal places, no need to put the decimal point.

## PLOT ENUMARATION FORM

Field Form No. 3

|        |           |              |           |
|--------|-----------|--------------|-----------|
| Job No | Form Code | Mapsheet No. | Grid code |
| 1 (30  | 2 (2)     | 3 (6)        | 4 (4)     |
|        |           |              |           |

|                           |                    |
|---------------------------|--------------------|
| Total No of Bamboo clumps | Total No. of trees |
| 21 (3)                    | 22 (3)             |
|                           |                    |

[illegible]

Date \_\_\_\_\_

**Name & Signature of the Crew Leader.....**

| Forest wise Enumeration Result of Deo/Kail Working Circle                     |        |                          |              |                  |              |                                 |                   |              |             |              |              |              |             |             |             |              |                     |       |
|-------------------------------------------------------------------------------|--------|--------------------------|--------------|------------------|--------------|---------------------------------|-------------------|--------------|-------------|--------------|--------------|--------------|-------------|-------------|-------------|--------------|---------------------|-------|
| Total area (Area = 2182.13 Ha.) Enumeration : Grid system (Sample ID) 54 No.s |        |                          |              |                  |              |                                 |                   |              |             |              |              |              |             |             |             |              |                     |       |
| Name of Range                                                                 | Sr.No. | Name of Forest           | Comptt. No.  | Area (Ha.)       | Species Code | Species                         | Number/V<br>olume | 10th-20<br>V | 20-30<br>IV | 30-40<br>III | 40-50<br>IIA | 50-60<br>IIB | 60-70<br>IA | 70-80<br>IB | 80-90<br>IC | 90-100<br>ID | 100 &<br>over<br>IE | Total |
| Arsu                                                                          | 1      | Ramgarh Kandi            | 1/3 C-IV     | 35.61            | 241          | Deodar                          | Number            | 23           | 12          | 16           | 0            |              | 0           | 0           | 0           | 0            | 0                   | 51    |
|                                                                               |        |                          |              |                  |              |                                 | Volume            | 1.38         | 1.68        | 6.72         | 0            | 0            | 0           | 0           | 0           | 0            | 0                   | 9.78  |
|                                                                               |        |                          |              |                  | 926          | Kail                            | Number            | 0            | 0           | 0            | 0            | 0            | 0           | 1           | 1           | 1            | 0                   | 3     |
|                                                                               |        |                          |              |                  |              |                                 | Volume            | 0            | 0           | 0            | 0            | 0            | 0           | 4.81        | 6.09        | 7.08         | 0                   | 17.98 |
|                                                                               |        |                          |              |                  | 921          | Spruce                          | Number            | 0            | 0           | 0            | 0            | 0            | 0           | 0           | 1           | 1            |                     | 2     |
|                                                                               |        |                          |              |                  |              |                                 | Volume            | 0            | 0           | 0            | 0            | 0            | 0           | 0           | 8.49        | 9.34         | 0                   | 17.83 |
|                                                                               |        |                          |              | Total Arsu Range |              |                                 | Number            | 23           | 12          | 16           | 0            | 0            | 0           | 1           | 2           | 2            | 0                   | 56    |
|                                                                               |        |                          |              |                  |              |                                 | Volume            | 1.38         | 1.68        | 6.72         | 0            | 0            | 0           | 4.81        | 14.58       | 16.42        | 0                   | 45.59 |
| Chowai                                                                        | 1      | Takrasi                  | R/7 C-I      | 47.35            | 241          | Deodar                          | Number            | 0            | 0           | 0            | 0            | 0            | 0           | 1           | 1           | 3            | 2                   | 7     |
|                                                                               |        |                          |              |                  |              |                                 | Volume            | 0            | 0           | 0            | 0            | 0            | 0           | 4.81        | 6.09        | 21.24        | 14.16               | 46.3  |
|                                                                               | 2      | Kut                      | 1/11 C-II    | 69.61            | 2            | Fir                             | Number            | 0            | 0           | 0            | 0            | 0            | 1           | 0           | 0           | 0            | 0                   | 1     |
|                                                                               |        |                          |              |                  |              |                                 | Volume            | 0            | 0           | 0            | 0            | 0            | 5.1         | 0           | 0           | 0            | 0                   | 5.1   |
|                                                                               |        |                          |              |                  |              | Taxus                           | Number            | 0            | 2           | 3            | 0            | 0            | 0           | 0           | 0           | 0            | 0                   | 5     |
|                                                                               |        |                          |              |                  | 1162         |                                 | Volume            | 0            | 0.468       | 1.401        | 0            | 0            | 0           | 0           | 0           | 0            |                     | 1.869 |
|                                                                               |        |                          |              |                  | 1006         | Mohru/Oak<br>(Q.Semicarpifolia) | Number            | 0            | 2           | 3            | 2            | 0            | 1           | 1           | 1           | 0            | 0                   | 10    |
|                                                                               |        |                          |              |                  |              |                                 | Volume            | 0            | 0.6         | 3            | 3.6          | 0            | 4.6         | 6.3         | 8           | 0            | 0                   | 26.1  |
|                                                                               |        |                          |              |                  | 965          | Birdcherry                      | Number            | 2            | 0           | 1            | 0            | 1            | 0           | 0           | 0           | 0            | 0                   | 4     |
|                                                                               |        |                          |              |                  |              |                                 | Volume            | 0.158        | 0           | 0.7          | 0            | 2.2          | 0           | 0           | 0           | 0            | 0                   | 3.058 |
|                                                                               | 3      | Drad Reuns               | 1/12 C-I     | 89.03            | 241          | Deodar                          | Number            | 1            | 0           | 0            | 0            | 1            | 1           | 0           | 0           | 0            | 0                   | 3     |
|                                                                               |        |                          |              |                  |              |                                 | Volume            | 0.006        | 0           | 0            | 0            | 2.41         | 3.54        | 0           | 0           | 0            | 0                   | 5.956 |
|                                                                               |        |                          |              |                  | 926          | Kail                            | Number            | 0            | 0           | 1            | 3            | 7            | 4           | 0           | 0           | 1            | 0                   | 16    |
|                                                                               |        |                          |              |                  |              |                                 | Volume            | 0            | 0           | 0.42         | 3.81         | 16.87        | 14.16       | 0           | 0           | 7.08         | 0                   | 42.34 |
|                                                                               | 4      | Sathabandri<br>Trijhakar | 1/13 C-II(b) | 39.66            | 241          | Deodar                          | Number            | 0            | 0           | 7            | 11           | 6            | 3           | 0           | 0           | 0            | 0                   | 27    |
|                                                                               |        |                          |              |                  |              |                                 | Volume            | 0            | 0           | 2.94         | 13.97        | 14.46        | 10.62       | 0           | 0           | 0            | 0                   | 41.99 |
|                                                                               | 5      | Olinal                   | 1/23 C-II    | 30.35            | 926          | Kail                            | Number            | 18           | 9           | 1            | 0            | 0            | 1           | 1           | 0           | 1            | 0                   | 31    |
|                                                                               |        |                          |              |                  |              |                                 | Volume            | 1.08         | 1.26        | 0.42         | 0            | 0            | 3.54        | 4.81        | 0           | 7.08         | 0                   | 18.19 |
|                                                                               |        |                          |              |                  | 921          | Spruce                          | Number            | 7            | 14          | 4            | 0            | 1            | 0           | 0           | 0           | 0            | 0                   | 26    |
|                                                                               |        |                          |              |                  |              |                                 | Volume            | 0.42         | 1.96        | 3.4          | 0            | 3.11         | 0           | 0           | 0           | 0            | 0                   | 8.89  |
|                                                                               | 6      | Kotadhar                 | 1/28 C-II    | 23.47            | 241          | Deodar                          | Number            | 0            | 2           | 2            | 1            | 1            | 1           | 0           | 0           | 0            | 0                   | 7     |
|                                                                               |        |                          |              |                  |              |                                 | Volume            | 0            | 0.28        | 0.84         | 1.27         | 2.41         | 3.54        | 0           | 0           | 0            | 0                   | 8.34  |
|                                                                               |        |                          |              |                  | 926          | Kail                            | Number            | 0            | 2           | 2            | 1            | 0            | 0           | 0           | 0           | 0            | 0                   | 5     |

|        |    |                |                    |       |        |                              |        |       |        |        |        |        |       |       |       |       |        |
|--------|----|----------------|--------------------|-------|--------|------------------------------|--------|-------|--------|--------|--------|--------|-------|-------|-------|-------|--------|
|        |    |                |                    |       |        | Volume                       | 0      | 0.28  | 0.84   | 1.27   |        | 0      | 0     | 0     | 0     | 0     | 2.39   |
|        |    |                |                    | 921   | Spruce | Number                       | 1      | 2     | 0      | 2      | 2      | 2      | 0     | 0     | 0     | 0     | 9      |
|        |    |                |                    |       |        | Volume                       | 0.06   | 0.28  | 0      | 3.4    | 6.22   | 10.2   | 0     | 0     | 0     | 0     | 20.16  |
|        | 7  | Kotadhar       | 1/28 C-III(b)      | 6.8   | 241    | Deodar                       | Number | 0     | 6      | 7      | 6      | 3      | 5     | 3     | 0     | 0     | 30     |
|        |    |                |                    |       |        | Volume                       | 0      | 0.84  | 2.94   | 7.62   | 7.23   | 17.7   | 14.43 | 0     | 0     | 0     | 50.76  |
|        | 8  | Kalandi Dhar   | 1/32 C-II(a)       | 13.35 | 241    | Deodar                       | Number | 0     | 7      | 38     | 25     | 6      | 3     | 0     | 0     | 0     | 79     |
|        |    |                |                    |       |        | Volume                       | 0      | 0.98  | 15.96  | 31.75  | 14.46  | 10.59  | 0     | 0     | 0     | 0     | 73.74  |
|        | 9  | Bagiglai Paneo | 1/35 C-III         | 33.18 | 241    | Deodar                       | Number | 0     | 0      | 0      | 8      | 22     | 6     | 2     | 0     | 0     | 38     |
|        |    |                |                    |       |        | Volume                       | 0      | 0     | 0      | 10.16  | 53.02  | 21.24  | 9.62  | 0     | 0     | 0     | 94.04  |
|        | 10 | Bhamour Jadari | 2/22 C-I           | 30.35 | 241    | Deodar                       | Number | 0     | 0      | 0      | 0      | 0      | 0     | 0     | 0     | 3     | 3      |
|        |    |                |                    |       |        | Volume                       | 0      | 0     | 0      | 0      | 0      | 0      | 0     | 0     | 0     | 21.24 | 21.24  |
|        |    |                |                    | 921   | Spruce | Number                       | 0      | 0     | 1      | 1      | 0      | 1      | 0     | 0     | 1     | 0     | 4      |
|        |    |                |                    |       |        | Volume                       | 0      | 0     | 0.85   | 1.701  | 0      | 3.11   | 0     | 0     | 9.34  | 0     | 15.001 |
|        |    |                | Total Chowai Range |       |        | Number                       | 29     | 46    | 70     | 60     | 50     | 29     | 8     | 2     | 9     | 2     | 305    |
|        |    |                |                    |       |        | Volume                       | 1.724  | 6.948 | 33.711 | 78.551 | 122.39 | 107.94 | 39.97 | 14.09 | 65.98 | 14.16 | 485.46 |
| Nither | 1  | Bijiuri        | 1/9 C-I (a)        | 80.94 | 241    | Deodar                       | Number | 0     | 0      | 2      | 0      | 0      | 1     | 0     | 0     | 1     | 4      |
|        |    |                |                    |       |        | Volume                       | 0      | 0     | 0.84   | 0      | 0      | 3.54   | 0     | 0     | 7.08  | 0     | 11.46  |
|        |    |                |                    |       | 2      | Fir                          | Number | 0     | 2      | 0      | 1      | 1      | 4     | 0     | 0     | 0     | 8      |
|        |    |                |                    |       |        | Volume                       | 0      | 0.28  | 0      | 1.7    | 3.11   | 20.4   | 0     | 0     | 0     | 0     | 25.49  |
|        |    |                |                    |       | 921    | Spruce                       | Number | 2     | 0      | 7      | 4      | 3      | 0     | 1     | 0     | 0     | 17     |
|        |    |                |                    |       |        | Volume                       | 0.12   | 0     | 5.95   | 6.8    | 9.33   | 0      | 7.08  | 0     | 0     | 0     | 29.28  |
|        |    |                |                    |       | 1162   | Taxus                        | Number | 0     | 1      | 7      | 0      | 0      | 0     | 0     | 0     | 0     | 8      |
|        |    |                |                    |       |        | Volume                       | 0      | 0.234 | 3.269  | 0      | 0      | 0      | 0     | 0     | 0     | 0     | 3.503  |
|        |    |                |                    |       | 19     | Maple                        | Number | 0     | 0      | 2      | 0      | 0      | 0     | 0     | 0     | 0     | 2      |
|        |    |                |                    |       |        | Volume                       | 0      | 0     | 1.4    | 0      | 0      | 0      | 0     | 0     | 0     | 0     | 1.4    |
|        |    |                |                    |       | 1006   | Mohru/Oak (Q.Semicarpifolia) | Number | 1     | 1      | 0      | 1      | 0      | 1     | 0     | 0     | 0     | 4      |
|        |    |                |                    |       |        | Volume                       | 0.134  | 0.3   | 0      | 1.8    | 0      | 4.6    | 0     | 0     | 0     | 0     | 6.834  |
|        |    |                |                    |       | 1038   | Rhododendron                 | Number | 0     | 2      | 3      | 0      | 0      | 0     | 0     | 0     | 0     | 5      |
|        |    |                |                    |       |        | Volume                       | 0      | 0.588 | 2.124  | 0      | 0      | 0      | 0     | 0     | 0     | 0     | 2.712  |
|        |    |                |                    |       | 2000   | OBL                          | Number | 0     | 0      | 1      | 0      | 0      | 0     | 0     | 0     | 0     | 1      |
|        |    |                |                    |       |        | Volume                       | 0      | 0     | 0.708  | 0      | 0      | 0      | 0     | 0     | 0     | 0     | 0.708  |
|        | 2  | Bashad         | 1/10 C-I           | 51.4  | 241    | Deodar                       | Number | 3     | 12     | 4      | 2      | 0      | 2     | 0     | 0     | 0     | 23     |
|        |    |                |                    |       |        | Volume                       | 0.18   | 1.68  | 1.68   | 2.54   | 0      | 7.08   | 0     | 0     | 0     | 0     | 13.16  |
|        |    |                |                    |       | 926    | Kail                         | Number | 0     | 0      | 0      | 3      | 5      | 6     | 3     | 1     | 1     | 19     |
|        |    |                |                    |       |        | Volume                       | 0      | 0     | 0      | 3.81   | 12.05  | 21.24  | 14.43 | 6.09  | 7.08  | 0     | 64.7   |
|        |    |                |                    |       | 921    | Spruce                       | Number | 0     | 1      | 2      | 0      | 0      | 0     | 0     | 0     | 0     | 3      |
|        |    |                |                    |       |        | Volume                       | 0      | 0.14  | 1.7    | 0      | 0      | 0      | 0     | 0     | 0     | 0     | 1.84   |
|        | 3  | Marahkod       | 1/14 C-I           | 40.47 | 241    | Deodar                       | Number | 15    | 19     | 15     | 1      | 4      | 1     | 1     | 0     | 0     | 56     |
|        |    |                |                    |       |        | Volume                       | 0.9    | 2.66  | 6.3    | 1.27   | 9.64   | 3.54   | 4.81  | 0     | 0     | 0     | 29.12  |
|        |    |                |                    |       | 926    | Kail                         | Number | 4     | 1      | 0      | 1      | 0      | 1     | 1     | 0     | 0     | 8      |



|        |    |                   |               |                    |      |             |        |       |      |        |       |       |       |       |       |       |   |        |
|--------|----|-------------------|---------------|--------------------|------|-------------|--------|-------|------|--------|-------|-------|-------|-------|-------|-------|---|--------|
|        | 4  | BARU BHAI         | 1/22 whole    | 63.53              | 241  | Deodar      | Number | 1     | 0    | 0      | 0     | 2     | 2     | 2     | 0     | 0     | 0 | 7      |
|        |    |                   |               |                    |      |             | Volume | 0.06  | 0    | 0      | 0     | 4.82  | 7.08  | 9.62  | 0     | 0     | 0 | 21.58  |
|        | 5  | Phon              | 1/25 whole    | 33.18              | 241  | Deodar      | Number | 0     | 0    | 0      | 4     | 3     | 3     | 1     | 0     | 0     | 0 | 11     |
|        |    |                   |               |                    |      |             | Volume | 0     | 0    | 0      | 5.08  | 7.23  | 10.62 | 4.81  | 0     | 0     | 0 | 27.74  |
|        |    |                   |               |                    | 1010 | Ban/Oak     | Number | 0     | 0    | 2      | 0     | 0     | 0     | 0     | 0     | 0     | 0 | 2      |
|        |    |                   |               |                    |      |             | Volume | 0     | 0    | 1.314  | 0     | 0     | 0     | 0     | 0     | 0     | 0 | 1.314  |
|        | 6  | Bungbindrab<br>an | 1/27 C-I      | 43.3               | 241  | Deodar      | Number | 0     | 0    | 0      | 17    | 4     | 1     | 0     | 0     | 0     | 0 | 22     |
|        |    |                   |               |                    |      |             | Volume | 0     | 0    | 0      | 21.59 | 9.64  | 3.54  | 0     | 0     | 0     | 0 | 34.77  |
|        |    |                   |               |                    | 926  | Kail        | Number | 1     | 0    | 1      | 0     | 0     | 0     | 0     | 0     | 0     | 0 | 2      |
|        |    |                   |               |                    |      |             | Volume | 0.06  | 0    | 0.42   | 0     | 0     | 0     | 0     | 0     | 0     | 0 | 0.48   |
|        | 7  | Chotar            | 1/30 C-III(a) | 12.14              | 241  | Deodar      | Number | 12    | 7    | 8      | 3     | 1     | 0     | 1     | 0     | 0     | 0 | 32     |
|        |    |                   |               |                    |      |             | Volume | 0.72  | 0.98 | 3.36   | 3.81  | 2.41  | 0     | 4.81  | 0     | 0     | 0 | 16.09  |
|        |    |                   |               |                    | 926  | Kail        | Number | 5     | 0    | 0      | 0     | 0     | 0     | 0     | 0     | 0     | 0 | 5      |
|        |    |                   |               |                    |      |             | Volume | 0.3   | 0    | 0      | 0     | 0     | 0     | 0     | 0     | 0     | 0 | 0.3    |
|        |    |                   |               |                    | 921  | Spruce      | Number | 1     | 0    | 0      | 0     | 0     | 0     | 0     | 0     | 0     | 0 | 1      |
|        |    |                   |               |                    |      |             | Volume | 0.06  | 0    | 0      | 0     | 0     | 0     | 0     | 0     | 0     | 0 | 0.06   |
|        |    |                   |               |                    | 1010 | Ban/Oak     | Number | 5     | 0    | 0      | 0     | 0     | 0     | 0     | 0     | 0     | 0 | 5      |
|        |    |                   |               |                    |      |             | Volume | 0.67  | 0    | 0      | 0     | 0     | 0     | 0     | 0     | 0     | 0 | 0.67   |
|        |    |                   |               |                    | 1038 | Rhododedron | Number | 4     | 0    | 0      | 0     | 0     | 0     | 0     | 0     | 0     | 0 | 4      |
|        |    |                   |               |                    |      |             | Volume | 0.376 | 0    | 0      | 0     | 0     | 0     | 0     | 0     | 0     | 0 | 0.376  |
|        | 8  | Gadajhakar        | 1/33 C-I      | 20.23              | 241  | Deodar      | Number | 0     | 0    | 0      | 1     | 2     | 3     | 2     | 0     | 0     | 0 | 8      |
|        |    |                   |               |                    |      |             | Volume | 0     | 0    | 0      | 1.27  | 4.82  | 10.62 | 9.62  | 0     | 0     | 0 | 26.33  |
|        | 9  | Gadajhakar        | 1/33 C-II     | 21.04              | 241  | Deodar      | Number | 0     | 0    | 0      | 0     | 1     | 1     | 6     | 7     | 2     | 0 | 17     |
|        |    |                   |               |                    |      |             | Volume | 0     | 0    | 0      | 0     | 2.41  | 3.54  | 28.86 | 42.63 | 14.16 |   | 91.6   |
|        | 10 | Thachshil         | 1/34 C-II     | 30.35              | 241  | Deodar      | Number | 0     | 5    | 12     | 3     | 0     | 0     | 0     | 0     | 0     | 0 | 20     |
|        |    |                   |               |                    |      |             | Volume | 0     | 0.7  | 5.04   | 3.81  | 0     | 0     | 0     | 0     | 0     | 0 | 9.55   |
|        |    |                   |               |                    | 926  | Kail        | Number | 0     | 0    | 0      | 0     | 1     | 1     | 0     | 0     | 0     | 0 | 2      |
|        |    |                   |               |                    |      |             | Volume | 0     | 0    | 0      | 0     | 2.41  | 3.54  | 0     | 0     | 0     | 0 | 5.95   |
|        |    |                   |               |                    | 921  | Spruce      | Number | 0     | 1    | 0      | 0     | 0     | 0     | 0     | 0     | 0     | 0 | 1      |
|        |    |                   |               |                    |      |             | Volume | 0     | 0.14 | 0      | 0     | 0     | 0     | 0     | 0     | 0     | 0 | 0.14   |
|        | 11 | Bagiglai<br>Paneo | 1/35 C-I      | 31.16              | 241  | Deodar      | Number | 0     | 1    | 3      | 5     | 4     | 1     | 1     | 0     | 1     | 0 | 16     |
|        |    |                   |               |                    |      |             | Volume | 0     | 0.14 | 1.26   | 6.35  | 9.64  | 3.54  | 4.81  | 0     | 7.08  | 0 | 32.82  |
|        | 12 | Bagiglai<br>Paneo | 1/35 C-IV     | 48.97              | 241  | Deodar      | Number | 0     | 9    | 21     | 2     | 3     | 0     | 1     | 0     | 0     | 0 | 36     |
|        |    |                   |               |                    |      |             | Volume | 0     | 1.26 | 8.82   | 2.54  | 7.23  | 0     | 4.81  | 0     | 0     | 0 | 24.66  |
|        |    |                   |               | Total Chowai Range |      |             | Number | 56    | 31   | 49     | 46    | 26    | 18    | 19    | 8     | 3     | 0 | 256    |
|        |    |                   |               |                    |      |             | Volume | 3.866 | 4.34 | 21.054 | 58.42 | 62.66 | 63.72 | 91.39 | 48.72 | 21.24 | 0 | 375.41 |
| Nither | 1  | Margi<br>Kalaon   | R/4 whole     | 14.97              | 241  | Deodar      | Number | 2     | 0    | 15     | 26    | 13    | 8     | 1     | 0     | 0     | 0 | 65     |



|        |   |                       |              |       |      |                    |        |       |       |        |       |       |        |       |   |       |         |
|--------|---|-----------------------|--------------|-------|------|--------------------|--------|-------|-------|--------|-------|-------|--------|-------|---|-------|---------|
|        |   |                       |              |       |      | Volume             | 0      | 0     | 0.934 | 0      | 0     | 3.89  | 2.734  | 0     | 0 | 0     | 7.558   |
|        |   |                       |              |       | 651  | Walnut             | Number | 0     | 0     | 0      | 0     | 1     | 1      | 2     | 1 | 0     | 6       |
|        |   |                       |              |       |      | Volume             | 0      | 0     | 0     | 0      | 2.5   | 3.8   | 10.2   | 7.2   | 0 | 11.3  | 35      |
|        |   |                       |              |       | 965  | Birdcherry(Jamun)  | Number | 0     | 0     | 4      | 0     | 0     | 0      | 0     | 0 | 0     | 4       |
|        |   |                       |              |       |      | Volume             | 0      | 0     | 2.8   | 0      | 0     | 0     | 0      | 0     | 0 | 0     | 2.8     |
|        |   |                       |              |       | 38   | Khanor             | Number | 0     | 0     | 0      | 1     | 0     | 0      | 0     | 0 | 0     | 1       |
|        |   |                       |              |       |      | Volume             | 0      | 0     | 0     | 1.336  | 0     | 0     | 0      | 0     | 0 | 0     | 1.336   |
|        | 4 | Kandushilla           | 1/5 C-IV     | 33.59 | 241  | Deodar             | Number | 0     | 1     | 4      | 9     | 11    | 2      | 0     | 0 | 0     | 27      |
|        |   |                       |              |       |      | Volume             | 0      | 0.14  | 1.68  | 11.43  | 26.51 | 7.08  | 0      | 0     | 0 | 0     | 46.84   |
|        |   |                       |              |       |      | Total Arsu Range   | Number | 18    | 13    | 19     | 19    | 28    | 8      | 7     | 4 | 0     | 120     |
|        |   |                       |              |       |      | Volume             | 1.08   | 1.82  | 9.194 | 24.196 | 68.27 | 26.95 | 38.984 | 25.47 | 0 | 39.32 | 235.284 |
| Chowai | 1 | Satabandri Trijhakar  | 1/13 C-II(a) | 20.23 | 241  | Deodar             | Number | 0     | 0     | 12     | 6     | 2     | 1      | 1     | 0 | 0     | 22      |
|        |   |                       |              |       |      | Volume             | 0      | 0     | 5.04  | 7.62   | 4.82  | 3.54  | 4.81   | 0     | 0 | 0     | 25.83   |
|        |   |                       |              |       | 926  | Kail               | Number | 0     | 0     | 1      | 1     | 4     | 1      | 0     | 0 | 0     | 7       |
|        |   |                       |              |       |      | Volume             | 0      | 0     | 0.42  | 1.27   | 9.64  | 3.54  | 0      | 0     | 0 | 0     | 14.87   |
|        | 2 | Sathabandri Trijhakar | 1/13 C-III   | 29.14 | 241  | Deodar             | Number | 0     | 1     | 0      | 1     | 0     | 1      | 0     | 1 | 0     | 4       |
|        |   |                       |              |       |      | Volume             | 0      | 0.14  | 0     | 1.27   | 0     | 3.54  | 0      | 6.09  | 0 | 0     | 11.04   |
|        |   |                       |              |       | 926  | Kail               | Number | 1     | 0     | 0      | 2     | 2     | 0      | 0     | 0 | 0     | 5       |
|        |   |                       |              |       |      | Volume             | 0.06   | 0     | 0     | 2.54   | 4.82  | 0     | 0      | 0     | 0 | 0     | 7.42    |
|        |   |                       |              |       | 2000 | OBL                | Number | 0     | 1     | 0      | 0     | 0     | 0      | 0     | 0 | 0     | 1       |
|        |   |                       |              |       |      | Volume             | 0      | 0.294 | 0     | 0      | 0     | 0     | 0      | 0     | 0 | 0     | 0.294   |
|        | 3 | Chotar                | 1/30 C-I     | 27.11 | 241  | Deodar             | Number | 5     | 6     | 6      | 2     | 1     | 0      | 0     | 0 | 0     | 20      |
|        |   |                       |              |       |      | Volume             | 0.3    | 0.84  | 2.52  | 2.54   | 2.41  | 0     | 0      | 0     | 0 | 0     | 8.61    |
|        |   |                       |              |       | 921  | Spruce             | Number | 6     | 3     | 2      | 0     | 0     | 0      | 0     | 0 | 0     | 11      |
|        |   |                       |              |       |      | Volume             | 0.36   | 0.42  | 1.7   | 0      | 0     | 0     | 0      | 0     | 0 | 0     | 2.48    |
|        |   |                       |              |       | 1162 | Taxus              | Number | 2     | 0     | 0      | 0     | 0     | 0      | 0     | 0 | 0     | 2       |
|        |   |                       |              |       |      | Volume             | 0.208  | 0     | 0     | 0      | 0     | 0     | 0      | 0     | 0 | 0     | 0.208   |
|        |   |                       |              |       | 1038 | Rhododedron        | Number | 0     | 1     | 0      | 0     | 0     | 0      | 0     | 0 | 0     | 1       |
|        |   |                       |              |       |      | Volume             | 0      | 0.294 | 0     | 0      | 0     | 0     | 0      | 0     | 0 | 0     | 0.294   |
|        | 4 | Kalandidhar           | 1/32 C-I (a) | 19.42 | 241  | Deodar             | Number | 2     | 3     | 4      | 4     | 3     | 0      | 0     | 0 | 0     | 16      |
|        |   |                       |              |       |      | Volume             | 0.12   | 0.42  | 1.68  | 5.08   | 7.23  | 0     | 0      | 0     | 0 | 0     | 14.53   |
|        |   |                       |              |       |      | Total Chowai Range | Number | 16    | 15    | 25     | 16    | 12    | 3      | 1     | 1 | 0     | 89      |
|        |   |                       |              |       |      | Volume             | 1.048  | 2.408 | 11.36 | 20.32  | 28.92 | 10.62 | 4.81   | 6.09  | 0 | 0     | 85.576  |
| Nither | 1 | Shilla (Hamari)       | 1/16 Whole   | 52.2  | 241  | Deodar             | Number | 28    | 1     | 0      | 2     | 0     | 8      | 1     | 0 | 0     | 40      |
|        |   |                       |              |       |      | Volume             | 1.68   | 0.14  | 0     | 2.54   | 0     | 28.32 | 4.81   | 0     | 0 | 0     | 37.49   |
|        |   |                       |              |       | 926  | Kail               | Number | 4     | 0     | 0      | 0     | 0     | 0      | 0     | 0 | 0     | 4       |
|        |   |                       |              |       |      | Volume             | 0.24   | 0     | 0     | 0      | 0     | 0     | 0      | 0     | 0 | 0     | 0.24    |
|        |   |                       |              |       |      | Total Nither Range | Number | 32    | 1     | 0      | 2     | 0     | 8      | 1     | 0 | 0     | 44      |
|        |   |                       |              |       |      | Volume             | 1.92   | 0.14  | 0     | 2.54   | 0     | 28.32 | 4.81   | 0     | 0 | 0     | 37.73   |



|        |   |             |               |       |     |                     |               |              |       |        |        |        |        |        |        |        |       |         |
|--------|---|-------------|---------------|-------|-----|---------------------|---------------|--------------|-------|--------|--------|--------|--------|--------|--------|--------|-------|---------|
|        |   |             |               |       |     | <b>G.Total</b>      | <b>Number</b> | 66           | 29    | 44     | 37     | 40     | 19     | 9      | 5      | 0      | 4     | 253     |
|        |   |             |               |       |     |                     | <b>Volume</b> | 4.048        | 4.368 | 20.554 | 47.056 | 97.19  | 65.89  | 48.604 | 31.56  | 0      | 39.32 | 358.59  |
|        |   |             |               |       |     |                     |               |              |       |        |        |        |        |        |        |        |       |         |
|        |   |             |               |       |     |                     |               | <b>PB-IV</b> |       |        |        |        |        |        |        |        |       |         |
| Arsu   | 1 | Jujuth      | R/3 C-I       | 58.27 | 241 | Deodar              | Number        | 5            | 11    | 2      | 0      | 0      | 0      | 0      | 1      | 0      | 0     | 19      |
|        |   |             |               |       |     |                     | Volume        | 0.3          | 1.54  | 0.84   | 0      | 0      | 0      | 0      | 6.09   | 0      | 0     | 8.77    |
|        |   |             |               |       | 926 | Kail                | Number        | 0            | 0     | 1      | 0      | 1      | 0      | 0      | 0      | 0      | 0     | 2       |
|        |   |             |               |       |     |                     | Volume        | 0            | 0     | 0.42   | 0      | 2.41   | 0      | 0      | 0      | 0      | 0     | 2.83    |
|        | 2 | Jujuth      | R/3 C-III (a) | 53.82 | 241 | Deodar              | Number        | 0            | 1     | 1      | 0      | 0      | 1      | 1      | 1      | 0      | 0     | 5       |
|        |   |             |               |       |     |                     | Volume        | 0            | 0.14  | 0.42   | 0      | 0      | 3.54   | 4.81   | 6.09   | 0      | 0     | 15      |
|        |   |             |               |       | 2   | Fir                 | Number        | 0            | 1     | 0      | 1      | 0      | 3      | 0      | 0      | 1      | 0     | 6       |
|        |   |             |               |       |     |                     | Volume        | 0            | 0.14  | 0      | 1.7    | 0      | 15.3   | 0      | 0      | 9.34   | 0     | 26.48   |
|        |   |             |               |       | 921 | Spruce              | Number        | 0            | 0     | 4      | 2      | 0      | 6      | 2      | 0      | 1      | 0     | 15      |
|        |   |             |               |       |     |                     | Volume        | 0            | 0     | 3.4    | 3.4    | 0      | 30.6   | 14.16  | 0      | 9.34   | 0     | 60.9    |
|        | 3 | Kandushilla | 1/5 C-I (a)   | 16.19 | 241 | Deodar              | Number        | 0            | 0     | 1      | 2      | 6      | 3      | 2      | 1      | 0      | 0     | 15      |
|        |   |             |               |       |     |                     | Volume        | 0            | 0     | 0.42   | 2.54   | 14.46  | 10.62  | 9.62   | 6.09   | 0      | 0     | 43.75   |
|        |   |             |               |       | 921 | Spruce              | Number        | 0            | 1     | 0      | 1      | 1      | 0      | 2      | 0      | 0      | 0     | 5       |
|        |   |             |               |       |     |                     | Volume        | 0            | 0.14  | 0      | 1.7    | 3.11   | 0      | 14.16  | 0      | 0      | 0     | 19.11   |
|        |   |             |               |       |     | Total Arsu Range    | Number        | 5            | 14    | 9      | 6      | 8      | 13     | 7      | 3      | 2      | 0     | 67      |
|        |   |             |               |       |     |                     | Volume        | 0.3          | 1.96  | 5.5    | 9.34   | 19.98  | 60.06  | 42.75  | 18.27  | 18.68  | 0     | 176.84  |
| Chowai | 1 | Jharonu     | R/6 whole     | 13.35 | 241 | Deodar              | Number        | 19           | 6     | 0      | 5      | 2      | 3      | 0      | 0      | 4      | 0     | 39      |
|        |   |             |               |       |     |                     | Volume        | 1.14         | 0.84  | 0      | 6.35   | 4.82   | 10.62  | 0      | 0      | 28.32  | 0     | 52.09   |
|        | 2 | Takrasi     | R/7 C-II      | 71.63 | 241 | Deodar              | Number        | 0            | 0     | 0      | 4      | 3      | 4      | 1      | 1      | 0      | 0     | 13      |
|        |   |             |               |       |     |                     | Volume        | 0            | 0     | 0      | 5.08   | 7.23   | 14.16  | 4.81   | 6.09   | 0      | 0     | 37.37   |
|        |   |             |               |       | 926 | Kail                | Number        | 0            | 0     | 0      | 0      | 0      | 1      | 1      | 1      | 0      | 0     | 3       |
|        |   |             |               |       |     |                     | Volume        | 0            | 0     | 0      | 0      | 0      | 3.54   | 4.81   | 6.09   | 0      | 0     | 14.44   |
|        | 3 | Chotor      | 1/30 C-II     | 23.47 | 241 | Deodar              | Number        | 2            | 3     | 11     | 18     | 15     | 13     | 1      | 0      | 0      | 0     | 63      |
|        |   |             |               |       |     |                     | Volume        | 0.12         | 0.42  | 4.62   | 22.86  | 36.15  | 46.02  | 4.81   | 0      | 0      | 0     | 115     |
|        |   |             |               |       | 921 | Spruce              | Number        | 0            | 0     | 1      | 0      | 0      | 0      | 0      | 0      | 0      | 0     | 1       |
|        |   |             |               |       |     |                     | Volume        | 0            | 0     | 0.85   | 0      | 0      | 0      | 0      | 0      | 0      | 0     | 0.85    |
|        | 4 | Kalandidhar | 1/32 C-I(b)   | 9.31  | 241 | Deodar              | Number        | 0            | 1     | 29     | 21     | 12     | 7      | 1      | 0      | 0      | 0     | 71      |
|        |   |             |               |       |     |                     | Volume        | 0            | 0.14  | 12.18  | 26.67  | 28.92  | 17.7   | 9.62   | 0      | 0      | 0     | 95.23   |
|        |   |             |               |       |     | Total Chowai Range  | Number        | 21           | 10    | 41     | 48     | 32     | 28     | 4      | 2      | 4      | 0     | 190     |
|        |   |             |               |       |     |                     | Volume        | 1.26         | 1.4   | 17.65  | 60.96  | 77.12  | 92.04  | 24.05  | 12.18  | 28.32  | 0     | 314.98  |
|        |   |             |               |       |     | <b>G.Total</b>      | Number        | 26           | 24    | 50     | 54     | 40     | 41     | 11     | 5      | 6      | 0     | 257     |
|        |   |             |               |       |     |                     | Volume        | 1.56         | 3.36  | 23.15  | 70.3   | 97.1   | 152.1  | 66.8   | 30.45  | 47     | 0     | 491.82  |
|        |   |             |               |       |     | <b>G.Total DKWC</b> |               | 313          | 296   | 408    | 311    | 234    | 147    | 60     | 24     | 22     | 6     | 1821    |
|        |   |             |               |       |     |                     |               | 19.43        | 42.82 | 194.02 | 405.78 | 574.91 | 548.33 | 322.05 | 151.58 | 164.80 | 53.48 | 2477.20 |

| Forest wise Enumeration Result of Fir/Spruce Working Circle                 |        |                       |               |            |                  |         |                |         |       |       |       |       |       |       |       |        |            |       |
|-----------------------------------------------------------------------------|--------|-----------------------|---------------|------------|------------------|---------|----------------|---------|-------|-------|-------|-------|-------|-------|-------|--------|------------|-------|
| Total area (Area = 2635.32Ha.) Enumeration : Grid system (Sample ID)28 No.s |        |                       |               |            |                  |         |                |         |       |       |       |       |       |       |       |        |            |       |
| Name of Range                                                               | Sr.No. | Name of Forest        | Comptt. No.   | Area (Ha.) | Species Code     | Species | Number/V olume | 10th-20 | 20-30 | 30-40 | 40-50 | 50-60 | 60-70 | 70-80 | 80-90 | 90-100 | 100 & over | Total |
|                                                                             |        |                       |               |            |                  | PB-I    |                | V       | IV    | III   | IIA   | IIB   | IA    | IB    | IC    | ID     | IE         |       |
| Arsu                                                                        | 1      | Kandushilla           | 1/5 C-I (b)   | 8.9        | 241              | Deodar  | Number         | 0       | 0     | 0     | 3     | 1     | 1     | 0     | 0     | 0      | 0          | 5     |
|                                                                             |        |                       |               |            |                  |         | Volume         | 0       | 0     | 0     | 3.81  | 2.41  | 3.54  | 0     | 0     | 0      | 0          | 9.76  |
|                                                                             |        |                       |               |            | 2                | Fir     | Number         | 0       | 0     | 0     | 2     | 0     | 0     | 0     | 0     | 0      | 0          | 2     |
|                                                                             |        |                       |               |            |                  |         | Volume         | 0       | 0     | 0     | 3.4   | 0     | 0     | 0     | 0     | 0      | 0          | 3.4   |
|                                                                             |        |                       |               |            | 921              | Spruce  | Number         | 0       | 0     | 2     | 2     | 3     | 2     | 2     | 0     | 0      | 0          | 11    |
|                                                                             |        |                       |               |            |                  |         | Volume         | 0       | 0     | 1.7   | 3.4   | 9.33  | 10.2  | 14.16 | 0     | 0      | 0          | 38.79 |
|                                                                             |        |                       |               |            | Total Arsu Range |         | Number         | 0       | 0     | 2     | 7     | 4     | 3     | 2     | 0     | 0      | 0          | 18    |
|                                                                             |        |                       |               |            |                  |         | Volume         | 0       | 0     | 1.7   | 10.61 | 11.74 | 13.74 | 14.16 | 0     | 0      | 0          | 51.95 |
|                                                                             |        |                       |               |            |                  |         |                |         |       |       |       |       |       |       |       |        |            | 0     |
| Chowai                                                                      | 1      | Kut                   | 1/11 C-I(b)   | 14.57      | 2                | Fir     | Number         | 0       | 0     | 3     | 3     | 0     | 1     | 0     | 0     | 0      | 0          | 7     |
|                                                                             |        |                       |               |            |                  |         | Volume         | 0       | 0     | 2.55  | 5.1   | 0     | 5.1   | 0     | 0     | 0      | 0          | 12.75 |
|                                                                             |        |                       |               |            | 1162             | Taxus   | Number         | 2       | 4     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0          | 6     |
|                                                                             |        |                       |               |            |                  |         | Volume         | 0.208   | 0.936 | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0          | 1.144 |
|                                                                             | 2      | Sathabandri Trijhakar | 1/13 C-VII(a) | 134.36     | 2                | Fir     | Number         | 0       | 0     | 0     | 0     | 1     | 1     | 0     | 0     | 0      | 0          | 2     |
|                                                                             |        |                       |               |            |                  |         | Volume         | 0       | 0     | 0     | 0     | 3.11  | 5.1   | 0     | 0     | 0      | 0          | 8.21  |
|                                                                             |        |                       |               |            | 921              | Spruce  | Number         | 0       | 0     | 0     | 1     | 1     | 5     | 3     | 1     | 1      | 0          | 12    |
|                                                                             |        |                       |               |            |                  |         | Volume         | 0       | 0     | 0     | 1.7   | 3.11  | 25.5  | 21.24 | 8.49  | 9.34   |            | 69.38 |
|                                                                             | 3      | Olinal                | 1/23 C-I      | 21.45      | 926              | Kail    | Number         | 3       | 12    | 8     | 0     | 0     | 0     | 0     | 2     | 0      | 0          | 25    |
|                                                                             |        |                       |               |            |                  |         | Volume         | 0.18    | 1.68  | 3.36  | 0     | 0     | 0     | 0     | 12.18 | 0      | 0          | 17.4  |
|                                                                             |        |                       |               |            | 921              | Spruce  | Number         | 1       | 4     | 5     | 1     | 0     | 1     | 0     | 0     | 0      | 0          | 12    |
|                                                                             |        |                       |               |            |                  |         | Volume         | 0.06    | 0.56  | 4.25  | 1.7   | 0     | 5.1   | 0     | 0     | 0      | 0          | 11.67 |
|                                                                             | 4      | Jhakaru               | 1/31 C-I      | 43.71      | 241              | Deodar  | Number         | 4       | 2     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0          | 6     |
|                                                                             |        |                       |               |            |                  |         | Volume         | 0.24    | 0.28  | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0          | 0.52  |
|                                                                             |        |                       |               |            | 2                | Fir     | Number         | 2       | 2     | 2     | 0     | 0     | 0     | 0     | 0     | 0      | 0          | 6     |
|                                                                             |        |                       |               |            |                  |         | Volume         | 0.12    | 0.28  | 1.7   | 0     | 0     | 0     | 0     | 0     | 0      | 0          | 2.1   |
|                                                                             |        |                       |               |            | 921              | Spruce  | Number         | 3       | 4     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0          | 7     |
|                                                                             |        |                       |               |            |                  |         | Volume         | 0.18    | 0.56  | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0          | 0.74  |
|                                                                             | 5      | Thachshil             | 1/34 C-I      | 38.04      | 926              | Kail    | Number         | 0       | 4     | 1     | 2     | 3     | 3     | 0     | 0     | 0      | 0          | 13    |
|                                                                             |        |                       |               |            |                  |         | Volume         | 0       | 0.56  | 0.42  | 2.54  | 7.23  | 10.62 | 0     | 0     | 0      | 0          | 21.37 |
|                                                                             |        |                       |               |            | 921              | Spruce  | Number         | 0       | 1     | 1     | 1     | 2     | 0     | 0     | 0     | 0      | 0          | 5     |
|                                                                             |        |                       |               |            |                  |         | Volume         | 0       | 0.14  | 0.85  | 1.7   | 6.22  | 0     | 0     | 0     | 0      | 0          | 8.91  |
|                                                                             | 6      | Alatu (Sample 1)      | 2/29 (C-I)    | 14.97      | 2                | Fir     | Number         | 0       | 6     | 2     | 1     | 4     | 2     | 0     | 2     | 0      | 0          | 17    |
|                                                                             |        |                       |               |            |                  |         | Volume         | 0       | 0.84  | 1.7   | 1.7   | 12.44 | 10.2  | 0     | 16.98 | 0      | 0          | 43.86 |
|                                                                             |        |                       |               |            | 921              | Spruce  | Number         | 0       | 0     | 1     | 2     | 0     | 1     | 0     | 0     | 2      | 0          | 6     |

|        |   |                  |          |        |      |                    |        |       |       |       |       |       |        |       |       |       |       |         |
|--------|---|------------------|----------|--------|------|--------------------|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|---------|
|        |   |                  |          |        |      |                    | Volume | 0     | 0     | 0.85  | 3.4   |       | 5.1    | 0     | 0     | 18.68 | 0     | 28.03   |
|        |   |                  |          |        | 1017 | Kharshu Oak        | Number | 2     | 2     | 0     | 0     | 0     | 0      | 0     | 0     | 0     | 0     | 4       |
|        |   |                  |          |        |      |                    | Volume | 0.268 | 0     | 0     | 0     | 0     | 0      | 0     | 0     | 0     | 0     | 0.268   |
|        |   |                  |          |        | 1162 | Taxus              | Number | 2     | 2     | 0     | 0     | 0     | 0      | 0     | 0     | 0     | 0     | 4       |
|        |   |                  |          |        |      |                    | Volume | 0.208 | 0.468 | 0     | 0     | 0     | 0      | 0     | 0     | 0     | 0     | 0.676   |
|        | 7 | Alatu (Sample 2) | 2/29 C-I |        | 2    | Fir                | Number | 0     | 0     | 4     | 4     | 1     | 5      | 0     | 1     | 1     | 2     | 18      |
|        |   |                  |          |        |      |                    | Volume | 0     | 0     | 3.4   | 6.8   | 3.11  | 25.5   | 0     | 8.49  | 9.34  | 18.68 | 75.32   |
|        |   |                  |          |        | 1162 | Taxus              | Number | 0     | 1     | 0     | 0     | 0     | 0      | 0     | 0     | 0     | 0     | 1       |
|        |   |                  |          |        |      |                    | Volume | 0     | 0.234 | 0     | 0     | 0     | 0      | 0     | 0     | 0     | 0     | 0.234   |
|        | 8 | Sakiran          | 2/30C-I  | 83.37  | 2    | Fir                | Number | 0     | 0     | 0     | 0     | 1     | 2      | 1     | 1     | 0     | 0     | 5       |
|        |   |                  |          |        |      |                    | Volume | 0     | 0     | 0     | 0     | 3.11  | 10.2   | 7.08  | 8.49  | 0     | 0     | 28.88   |
|        |   |                  |          |        | 921  | Spruce             | Number | 0     | 1     | 0     | 1     | 1     | 1      | 1     | 0     | 1     | 0     | 6       |
|        |   |                  |          |        |      |                    | Volume | 0     | 0.14  | 0     | 1.7   | 3.11  | 5.1    | 7.08  | 0     | 9.34  | 0     | 26.47   |
|        | 9 | Dugashil         | 2/31C-I  | 45.73  | 241  | Deodar             | Number | 0     | 0     | 3     | 1     | 0     | 1      | 1     | 0     | 0     | 0     | 6       |
|        |   |                  |          |        |      |                    | Volume | 0     | 0     | 1.26  | 1.27  | 0     | 3.54   | 4.81  | 0     | 0     | 0     | 10.88   |
|        |   |                  |          |        |      | Total Chowai Range | Number | 19    | 45    | 30    | 17    | 14    | 23     | 6     | 7     | 5     | 2     | 168     |
|        |   |                  |          |        |      |                    | Volume | 1.464 | 6.678 | 20.34 | 27.61 | 41.44 | 111.06 | 40.21 | 54.63 | 46.7  | 18.68 | 368.812 |
| Nither | 1 | Daman            | 2/20 C-I | 101.17 | 926  | Kail               | Number | 1     | 1     | 0     | 0     | 0     | 0      | 0     | 0     | 0     | 0     | 2       |
|        |   |                  |          |        |      |                    | Volume | 0.06  | 0.14  | 0     | 0     | 0     | 0      | 0     | 0     | 0     | 0     | 0.2     |
|        |   |                  |          |        | 921  | Spruce             | Number | 2     | 5     | 7     | 15    | 3     | 6      | 1     | 1     | 0     | 1     | 41      |
|        |   |                  |          |        |      |                    | Volume | 0.12  | 0.7   | 5.95  | 25.5  | 9.33  | 30.6   | 7.08  | 8.49  | 0     | 9.34  | 97.11   |
|        |   |                  |          |        | 1017 | Kharshu/Oak        | Number | 0     | 0     | 0     | 0     | 1     | 1      | 1     | 0     | 0     | 0     | 3       |
|        |   |                  |          |        |      |                    | Volume | 0     | 0     | 0     | 0     | 3     | 4.6    | 6.3   | 0     | 0     | 0     | 13.9    |
|        |   |                  |          |        |      | Total Nither Range | Number | 3     | 6     | 7     | 15    | 4     | 7      | 2     | 1     | 0     | 1     | 46      |
|        |   |                  |          |        |      |                    | Volume | 0.18  | 0.84  | 5.95  | 25.5  | 12.33 | 35.2   | 13.38 | 8.49  | 0     | 9.34  | 111.21  |
|        |   |                  |          |        |      | G.Total PB-I       | Number | 22    | 51    | 39    | 39    | 22    | 33     | 10    | 8     | 5     | 3     | 232     |
|        |   |                  |          |        |      |                    | Volume | 1.644 | 7.518 | 27.99 | 63.72 | 65.51 | 160.00 | 67.75 | 63.12 | 46.7  | 28.02 | 531.97  |
|        |   |                  |          |        |      |                    |        |       |       |       |       |       |        |       |       |       |       |         |
|        |   |                  |          |        |      |                    |        |       |       |       |       |       |        |       |       |       |       |         |
| PB-II  |   |                  |          |        |      |                    |        |       |       |       |       |       |        |       |       |       |       |         |
| Arsu   | 1 | Jujuth           | R/3 C-II | 111.69 | 241  | Deodar             | Number | 2     | 0     | 2     | 0     | 1     | 0      | 1     | 0     | 2     | 0     | 8       |
|        |   |                  |          |        |      |                    | Volume | 0.12  | 0     | 0.84  | 0     | 2.41  | 0      | 4.81  | 0     | 14.16 | 0     | 22.34   |
|        |   |                  |          |        | 2    | Fir                | Number | 1     | 0     | 0     | 0     | 0     | 0      | 0     | 0     | 0     | 0     | 1       |
|        |   |                  |          |        |      |                    | Volume | 0.14  | 0     | 0     | 0     | 0     | 0      | 0     | 0     | 0     | 0     | 0.14    |
|        |   |                  |          |        | 921  | Spruce             | Number | 0     | 0     | 3     | 0     | 5     | 2      | 4     | 0     | 0     | 0     | 14      |
|        |   |                  |          |        |      |                    | Volume | 0     | 0     | 5.1   | 0     | 25.5  | 14.16  | 33.96 | 0     | 0     | 0     | 78.72   |
|        |   |                  |          |        |      | Total Arsu Range   | Number | 3     | 0     | 5     | 0     | 6     | 2      | 5     | 0     | 2     | 0     | 23      |
|        |   |                  |          |        |      |                    | Volume | 0.26  | 0     | 5.94  | 0     | 27.91 | 14.16  | 38.77 | 0     | 14.16 | 0     | 101.2   |

|        |   |                       |             |        |      |                      |        |       |       |        |        |       |        |       |       |        |       |         |
|--------|---|-----------------------|-------------|--------|------|----------------------|--------|-------|-------|--------|--------|-------|--------|-------|-------|--------|-------|---------|
| Chowai | 1 | Kut                   | 1/11 C-III  | 36.42  | 2    | Fir                  | Number | 0     | 0     | 3      | 2      | 2     | 2      | 0     | 0     | 0      | 0     | 9       |
|        |   |                       |             |        |      |                      | Volume | 0     | 0     | 2.55   | 3.4    | 6.22  | 10.2   | 0     | 0     | 0      | 0     | 22.37   |
|        |   |                       |             |        | 921  | Spruce               | Number | 0     | 0     | 3      | 2      | 1     | 2      | 0     | 0     | 0      | 0     | 8       |
|        |   |                       |             |        |      |                      | Volume | 0     | 0     | 2.55   | 3.4    | 3.11  | 10.2   | 0     | 0     | 0      | 0     | 19.26   |
|        | 2 | Kotadhar & Riatathach | 1/28 C-V(b) | 28.73  | 2    | Fir                  | Number | 0     | 2     | 0      | 3      | 4     | 0      | 0     | 0     | 0      | 0     | 9       |
|        |   |                       |             |        |      |                      | Volume | 0     | 0.28  | 0      | 5.1    | 12.44 | 0      | 0     | 0     | 0      | 0     | 17.82   |
|        |   |                       |             |        | 921  | Spruce               | Number | 0     | 4     | 6      | 5      | 8     | 0      | 0     | 0     | 0      | 0     | 23      |
|        |   |                       |             |        |      |                      | Volume | 0     | 0.56  | 5.1    | 8.5    | 24.88 | 0      | 0     | 0     | 0      | 0     | 39.04   |
|        | 3 | Bungmalerto           | 2/24 Whole  | 66.77  | 2    | Fir                  | Number | 0     | 0     | 0      | 1      | 0     | 1      | 0     | 1     | 0      | 0     | 3       |
|        |   |                       |             |        |      |                      | Volume | 0     | 0     | 0      | 1.7    | 0     | 5.1    | 0     | 8.49  | 0      | 0     | 15.29   |
|        |   |                       |             |        | 38   | Khanor               | Number | 0     | 0     | 0      | 1      | 0     | 1      | 0     | 0     | 1      | 0     | 3       |
|        |   |                       |             |        |      |                      | Volume | 0     | 0     | 0      | 1.336  | 0     | 3.232  | 0     | 0     | 7.678  | 0     | 12.246  |
|        |   |                       |             |        | 965  | Birdcherry (Jamun)   | Number | 0     | 0     | 0      | 1      | 0     | 0      | 0     | 0     | 0      | 0     | 1       |
|        |   |                       |             |        |      |                      | Volume | 0     | 0     | 0      | 1.3    | 0     | 0      | 0     | 0     | 0      | 0     | 1.3     |
|        |   |                       |             |        | 2000 | OBL                  | Number | 2     | 0     | 0      | 0      | 0     | 0      | 0     | 0     | 0      | 0     | 2       |
|        |   |                       |             |        |      |                      | Volume | 0.188 | 0     | 0      | 0      | 0     | 0      | 0     | 0     | 0      | 0     | 0.188   |
|        | 4 | Dugashil              | 2/31 C-II   | 22.26  | 2    | Fir                  | Number | 0     | 0     | 4      | 1      | 2     | 3      | 3     | 1     | 0      | 2     | 16      |
|        |   |                       |             |        |      |                      | Volume | 0     | 0     | 3.4    | 1.7    | 6.22  | 15.3   | 21.24 | 8.49  | 0      | 18.68 | 75.03   |
|        |   |                       |             |        | 921  | Spruce               | Number | 0     | 0     | 1      | 0      | 0     | 3      | 1     | 0     | 1      | 1     | 7       |
|        |   |                       |             |        |      |                      | Volume | 0     | 0     | 0.85   | 0      | 0     | 15.3   | 7.08  | 0     | 9.34   | 9.34  | 41.91   |
|        |   |                       |             |        |      | Total Chowai Range   | Number | 2     | 6     | 17     | 16     | 17    | 12     | 4     | 2     | 2      | 3     | 81      |
|        |   |                       |             |        |      |                      | Volume | 0.188 | 0.84  | 14.45  | 26.436 | 52.87 | 59.332 | 28.32 | 16.98 | 17.018 | 28.02 | 244.454 |
| Nither | 1 | 1/9 Bijuri            | C-I(c)      | 233.91 | 241  | Deodar               | Number | 5     | 2     | 1      | 1      | 0     | 1      | 1     | 0     | 0      | 0     | 11      |
|        |   |                       |             |        |      |                      | Volume | 0.3   | 0.28  | 0.42   | 1.27   | 0     | 3.54   | 4.81  | 0     | 0      | 0     | 10.62   |
|        |   |                       |             |        | 926  | Kail                 | Number | 0     | 1     | 3      | 2      | 0     | 0      | 0     | 0     | 0      | 0     | 6       |
|        |   |                       |             |        |      |                      | Volume | 0     | 0.14  | 1.26   | 2.54   | 0     | 0      | 0     | 0     | 0      | 0     | 3.94    |
|        |   |                       |             |        | 921  | Spruce               | Number | 0     | 4     | 4      | 2      | 0     | 0      | 0     | 0     | 1      | 0     | 11      |
|        |   |                       |             |        |      |                      | Volume | 0     | 0.56  | 3.4    | 3.4    | 0     | 0      | 0     | 0     | 9.34   | 0     | 16.7    |
|        |   |                       |             |        | 1017 | Kharshu Oak          | Number | 0     | 2     | 2      | 1      | 1     | 0      | 0     | 0     | 0      | 0     | 6       |
|        |   |                       |             |        |      |                      | Volume | 0     | 0.6   | 2      | 1.8    | 3     | 0      | 0     | 0     | 0      | 0     | 7.4     |
|        |   |                       |             |        | 1010 | Ban Oak              | Number | 2     | 3     | 3      | 0      | 1     | 0      | 0     | 0     | 0      | 0     | 9       |
|        |   |                       |             |        |      |                      | Volume | 0.626 | 1.971 | 3.603  | 0      | 2.996 | 0      | 0     | 0     | 0      | 0     | 9.196   |
|        |   |                       |             |        | 1038 | Rhododendron         | Number | 1     | 1     | 0      | 0      | 0     | 0      | 0     | 0     | 0      | 0     | 2       |
|        |   |                       |             |        |      |                      | Volume | 0.294 | 0.708 | 0      | 0      | 0     | 0      | 0     | 0     | 0      | 0     | 1.002   |
|        |   |                       |             |        |      | G.Total Nither Range | Number | 8     | 13    | 13     | 6      | 2     | 1      | 1     | 0     | 1      | 0     | 45      |
|        |   |                       |             |        |      |                      | Volume | 1.22  | 4.259 | 10.683 | 9.01   | 5.996 | 3.54   | 4.81  | 0     | 9.34   | 0     | 48.858  |
|        |   |                       |             |        |      | G.Total              | Number | 13    | 19    | 35     | 22     | 25    | 15     | 10    | 2     | 5      | 3     | 149     |

|                |   |                       |              |       |      |                         |               |             |              |              |               |              |              |              |              |              |             |                |
|----------------|---|-----------------------|--------------|-------|------|-------------------------|---------------|-------------|--------------|--------------|---------------|--------------|--------------|--------------|--------------|--------------|-------------|----------------|
|                |   |                       |              |       |      |                         | Volume        | 1.67        | 5.10         | 31.07        | 35.45         | 86.78        | 77.03        | 71.90        | 16.98        | 40.52        | 28.02       | 394.51         |
| <b>PB- III</b> |   |                       |              |       |      |                         |               |             |              |              |               |              |              |              |              |              |             |                |
| Arsu           | 1 | Jujuth                | R/3 C-III(b) | 32.27 | 2    | Fir                     | Number        | 0           | 0            | 0            | 0             | 0            | 0            | 0            | 0            | 1            | 0           | 1              |
|                |   |                       |              |       |      |                         | Volume        | 0           | 0            | 0            | 0             | 0            | 0            | 0            | 0            | 9.34         | 0           | 9.34           |
|                |   |                       |              |       | 921  | Spruce                  | Number        | 1           | 0            | 9            | 3             | 2            | 2            | 1            | 1            | 1            | 0           | 20             |
|                |   |                       |              |       |      |                         | Volume        | 0.06        | 0            | 7.65         | 5.1           | 6.22         | 10.2         | 7.08         | 8.49         | 9.34         | 0           | 54.14          |
|                |   |                       |              |       | 1162 | Taxus                   | Number        | 0           | 0            | 0            | 1             | 0            | 0            | 0            | 0            | 0            | 0           | 1              |
|                |   |                       |              |       |      |                         | Volume        | 0           | 0            | 0            | 0.821         | 0            | 0            | 0            | 0            | 0            | 0           | 0.821          |
|                |   |                       |              |       | 1038 | Rhododendron            | Number        | 0           | 1            | 0            | 0             | 0            | 0            | 0            | 0            | 0            | 0           | 1              |
|                |   |                       |              |       |      |                         | Volume        | 0           | 0.294        | 0            | 0             | 0            | 0            | 0            | 0            | 0            | 0           | 0.294          |
|                |   |                       |              |       | 651  | Walnut                  | Number        | 0           | 0            | 0            | 1             | 0            | 0            | 0            | 0            | 0            | 0           | 1              |
|                |   |                       |              |       |      |                         | Volume        | 0           | 0            | 0            | 1.5           | 0            | 0            | 0            | 0            | 0            | 0           | 1.5            |
|                | 2 | Kandushilla           | 1/5 C-II(b)  | 12.14 | 241  | Deodar                  | Number        | 1           | 1            | 3            | 0             | 3            | 3            | 2            | 0            | 0            | 1           | 14             |
|                |   |                       |              |       |      |                         | Volume        | 0.06        | 0.14         | 1.26         | 0             | 7.23         | 10.62        | 9.62         | 0            | 0            | 7.08        | 36.01          |
|                |   |                       |              |       | 926  | Kail                    | Number        | 0           | 0            | 0            | 1             | 0            | 0            | 0            | 0            | 0            | 0           | 1              |
|                |   |                       |              |       |      |                         | Volume        | 0           | 0            | 0            | 1.27          | 0            | 0            | 0            | 0            | 0            | 0           | 1.27           |
|                |   |                       |              |       | 2    | Fir                     | Number        | 0           | 0            | 0            | 1             | 1            | 0            | 0            | 0            | 0            | 0           | 2              |
|                |   |                       |              |       |      |                         | Volume        | 0           | 0            | 0            | 1.7           | 3.11         | 0            | 0            | 0            | 0            | 0           | 4.81           |
|                |   |                       |              |       | 921  | Spruce                  | Number        | 0           | 0            | 1            | 2             | 1            | 5            | 2            | 2            | 0            | 1           | 14             |
|                |   |                       |              |       |      |                         | Volume        | 0           | 0            | 0.85         | 3.4           | 3.11         | 25.5         | 14.16        | 16.98        | 0            | 7.08        | 71.08          |
|                |   |                       |              |       | 965  | Birdcherry (Jamun)      | Number        | 0           | 0            | 1            | 0             | 0            | 0            | 0            | 0            | 0            | 0           | 1              |
|                |   |                       |              |       |      |                         | Volume        | 0           | 0            | 0.7          | 0             | 0            | 0            | 0            | 0            | 0            | 0           | 0.7            |
|                | 3 | Kandushilla           | 1/5 C-III    | 56.25 | 2    | Fir                     | Number        | 0           | 0            | 1            | 3             | 0            | 0            | 0            | 0            | 0            | 0           | 4              |
|                |   |                       |              |       |      |                         | Volume        | 0           | 0            | 0.85         | 5.1           | 0            | 0            | 0            | 0            | 0            | 0           | 5.95           |
|                |   |                       |              |       | 921  | Spruce                  | Number        | 0           | 0            | 0            | 5             | 4            | 1            | 1            | 2            | 1            | 1           | 15             |
|                |   |                       |              |       |      |                         | Volume        | 0           | 0            | 0            | 8.5           | 12.44        | 5.1          | 7.08         | 16.98        | 9.34         | 9.34        | 68.78          |
|                |   |                       |              |       |      | <b>Total Arsu Range</b> | <b>Number</b> | <b>2</b>    | <b>2</b>     | <b>15</b>    | <b>17</b>     | <b>11</b>    | <b>11</b>    | <b>6</b>     | <b>5</b>     | <b>3</b>     | <b>3</b>    | <b>75</b>      |
|                |   |                       |              |       |      |                         | <b>Volume</b> | <b>0.12</b> | <b>0.434</b> | <b>11.31</b> | <b>27.391</b> | <b>32.11</b> | <b>51.42</b> | <b>37.94</b> | <b>42.45</b> | <b>28.02</b> | <b>23.5</b> | <b>254.695</b> |
| Chowai         | 1 | Drad Reuns            | 1/12 C-II    | 52.2  | 2    | Fir                     | Number        | 1           | 0            | 4            | 2             | 0            | 1            | 1            | 0            | 0            | 0           | 9              |
|                |   |                       |              |       |      |                         | Volume        | 0.06        | 0            | 3.4          | 3.4           | 0            | 5.1          | 7.08         | 0            | 0            | 0           | 19.04          |
|                |   |                       |              |       | 921  | Spruce                  | Number        | 1           | 0            | 1            | 10            | 1            | 6            | 1            | 0            | 0            | 0           | 20             |
|                |   |                       |              |       |      |                         | Volume        | 0.06        | 0            | 0.85         | 17            | 3.11         | 30.6         | 7.08         | 0            | 0            | 0           | 58.7           |
|                |   |                       |              |       | 965  | Birdcherry(Jamun)       | Number        | 0           | 0            | 1            | 0             | 0            | 0            | 0            | 0            | 0            | 0           | 1              |
|                |   |                       |              |       |      |                         | Volume        | 0           | 0            | 0.85         | 0             | 0            | 0            | 0            | 0            | 0            | 0           | 0.85           |
|                | 2 | Sathabandri Trijhakar | 1/13 C-VI    | 67.18 | 2    | Fir                     | Number        | 0           | 0            | 0            | 0             | 0            | 2            | 3            | 1            | 1            | 0           | 7              |
|                |   |                       |              |       |      |                         | Volume        | 0           | 0            | 0            | 0             | 0            | 10.2         | 21.24        | 8.49         | 9.34         | 0           | 49.27          |
|                |   |                       |              |       | 921  | Spruce                  | Number        | 0           | 0            | 0            | 0             | 0            | 0            | 1            | 1            | 1            | 0           | 3              |
|                |   |                       |              |       |      |                         | Volume        | 0           | 0            | 0            | 0             | 0            | 0            | 5.1          | 7.08         | 8.49         | 0           | 20.67          |
|                |   |                       |              |       | 965  | Birdcherry (Jamun)      | Number        | 0           | 0            | 0            | 1             | 0            | 0            | 0            | 0            | 0            | 0           | 1              |



|        |   |         |          |       |     |                    |        |       |        |        |         |         |         |        |        |         |       |         |
|--------|---|---------|----------|-------|-----|--------------------|--------|-------|--------|--------|---------|---------|---------|--------|--------|---------|-------|---------|
|        |   |         |          |       |     |                    | Volume | 0     | 0      | 0.85   | 6.8     | 3.11    | 0       | 21.24  | 8.49   | 0       | 0     | 40.49   |
| Chowai | 1 | Chajala | 1/29 C-I | 48.56 | 241 | Deodar             | Number | 3     | 3      | 3      | 2       | 2       | 0       | 0      | 0      | 0       | 0     | 13      |
|        |   |         |          |       |     |                    | Volume | 0.18  | 0.42   | 1.26   | 2.54    | 4.82    | 0       | 0      | 0      | 0       | 0     | 9.22    |
|        |   |         |          |       | 921 | Spruce             | Number | 4     | 2      | 0      | 0       | 0       | 0       | 0      | 0      | 0       | 0     | 6       |
|        |   |         |          |       |     |                    | Volume | 0.24  | 0.28   | 0      | 0       | 0       | 0       | 0      | 0      | 0       | 0     | 0.52    |
|        |   |         |          |       |     | Total Chowai Range | Number | 7     | 5      | 3      | 2       | 2       | 0       | 0      | 0      | 0       | 0     | 19      |
|        |   |         |          |       |     |                    | Volume | 0.42  | 0.7    | 1.26   | 2.54    | 4.82    | 0       | 0      | 0      | 0       | 0     | 9.74    |
|        |   |         |          |       |     | G.Total            | Number | 7     | 5      | 4      | 6       | 3       | 0       | 3      | 1      | 0       | 0     | 29      |
|        |   |         |          |       |     |                    | Volume | 0.42  | 0.7    | 2.11   | 9.34    | 7.93    | 0       | 21.24  | 8.49   | 0       | 0     | 50.23   |
|        |   |         |          |       |     | G.Total FSWC       | Number | 81    | 113    | 128    | 119     | 89      | 85      | 48     | 27     | 16      | 9     | 715     |
|        |   |         |          |       |     |                    | Volume | 6.664 | 19.393 | 99.075 | 191.509 | 279.406 | 421.052 | 331.37 | 223.02 | 142.408 | 79.54 | 1793.44 |

| Forest wise Enumeration Result of Chil Working Circle                         |         |                                 |             |            |              |              |                |          |       |       |       |       |       |       |       |        |            |       |
|-------------------------------------------------------------------------------|---------|---------------------------------|-------------|------------|--------------|--------------|----------------|----------|-------|-------|-------|-------|-------|-------|-------|--------|------------|-------|
| Total area (Area = 897.19 Ha.) Enumeration : Grid system (Sample ID) 23 No. s |         |                                 |             |            |              |              |                |          |       |       |       |       |       |       |       |        |            |       |
| Name of Range                                                                 | Sr. No. | Name of Forest                  | Comptt. No. | Area (Ha.) | Species Code | Species      | Number/V olume | 10th -20 | 20-30 | 30-40 | 40-50 | 50-60 | 60-70 | 70-80 | 80-90 | 90-100 | 100 & over | Total |
|                                                                               |         |                                 |             |            |              |              |                | V        | IV    | III   | IIA   | IIB   | IA    | IB    | IC    | ID     | IE         |       |
| PB-I                                                                          |         |                                 |             |            |              |              |                |          |       |       |       |       |       |       |       |        |            |       |
| Arsu                                                                          |         |                                 |             |            |              | 0            | Number         | 0        | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0          | 0     |
|                                                                               |         |                                 |             |            |              |              | Volume         | 0        | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0          | 0     |
| Chowai                                                                        | 1       | Sathbandri Trijhakar (Sample 1) | 1/13 C-I    | 44.92      | 929          | Chil         | Number         | 105      | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0          | 105   |
|                                                                               |         |                                 |             |            |              |              | Volume         | 6.3      | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0          | 6.3   |
|                                                                               | 2       | Sathbandri Trijhakar (Sample 2) | 1/13 C-I    | 44.92      | 929          | Chil         | Number         | 4        | 1     | 4     | 7     | 4     | 4     | 0     | 0     | 0      | 0          | 24    |
|                                                                               |         |                                 |             |            |              |              | Volume         | 0.24     | 0.14  | 1.68  | 8.89  | 9.64  | 14.16 | 0     | 0     | 0      | 0          | 34.75 |
|                                                                               | 3       | Bungbindraban (Sample 1)        | 1/27 C-IV   | 46.94      | 929          | Chil         | Number         | 10       | 1     | 5     | 5     | 2     | 1     | 0     | 0     | 0      | 0          | 24    |
|                                                                               |         |                                 |             |            |              |              | Volume         | 0.6      | 0.14  | 2.1   | 6.35  | 4.82  | 3.54  | 0     | 0     | 0      | 0          | 17.55 |
|                                                                               |         |                                 |             |            | 1038         | Rhododendron | Number         | 0        | 1     | 3     | 0     | 0     | 0     | 0     | 0     | 0      | 0          | 4     |
|                                                                               |         |                                 |             |            |              |              | Volume         | 0        | 0.294 | 2.124 | 0     | 0     | 0     | 0     | 0     | 0      | 0          | 2.418 |
|                                                                               | 4       | Bungbindraban (Sample 2)        | 1/27 C-IV   | 46.94      | 929          | Chil         | Number         | 0        | 0     | 6     | 6     | 1     | 0     | 0     | 0     | 0      | 0          | 13    |
|                                                                               |         |                                 |             |            |              |              | Volume         | 0        | 0     | 2.52  | 7.62  | 2.41  | 0     | 0     | 0     | 0      | 0          | 12.55 |
|                                                                               |         |                                 |             |            | 1038         | Rhododendron | Number         | 1        | 3     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0          | 4     |
|                                                                               |         |                                 |             |            |              |              | Volume         | 0        |       |       |       |       |       |       |       |        |            | 0     |
| Nither                                                                        | 0       |                                 |             |            |              |              | Number         | 0        | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0          | 0     |
|                                                                               |         |                                 |             |            |              |              | Volume         | 0        | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0          | 0     |
|                                                                               |         |                                 |             |            |              | G.Total      | Number         | 120      | 6     | 18    | 18    | 7     | 5     | 0     | 0     | 0      | 0          | 174   |
|                                                                               |         |                                 |             |            |              |              | Volume         | 7.14     | 0.57  | 8.42  | 22.86 | 16.87 | 17.7  | 0     | 0     | 0      | 0          | 73.57 |
| PB-II                                                                         |         |                                 |             |            |              |              |                |          |       |       |       |       |       |       |       |        |            |       |
| Arsu                                                                          | 0       |                                 |             |            |              |              | Number         | 0        | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0          | 0     |
|                                                                               |         |                                 |             |            |              |              | Volume         | 0        | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0          | 0     |
| Chowai                                                                        | 1       | Lambidhar                       | 1/19 whole  | 33.99      | 929          | Chil         | Number         | 13       | 15    | 26    | 4     | 0     | 0     | 0     | 0     | 0      | 0          | 58    |
|                                                                               |         |                                 |             |            |              |              | Volume         | 0.78     | 2.1   | 10.92 | 5.08  | 0     | 0     | 0     | 0     | 0      | 0          | 18.88 |
|                                                                               | 2       | Dagrut                          | 1/20 whole  | 36.02      | 929          | Chil         | Number         | 7        | 7     | 1     | 0     | 0     | 0     | 2     | 0     | 0      | 0          | 17    |
|                                                                               |         |                                 |             |            |              |              | Volume         | 0.42     | 0.98  | 0.42  | 0     | 0     | 0     | 9.62  |       |        |            | 11.44 |
|                                                                               | 3       | Parkotshil                      | 1/26 C-I(a) | 36.43      | 241          | Deodar       | Number         | 1        | 0     | 2     | 0     | 0     | 0     | 0     | 0     | 0      | 0          | 3     |
|                                                                               |         |                                 |             |            |              |              | Volume         | 0.06     | 0     | 0.84  | 0     | 0     | 0     | 0     | 0     | 0      | 0          | 0.9   |
|                                                                               |         |                                 |             |            | 929          | Chil         | Number         | 5        | 3     | 4     | 2     | 0     | 0     | 0     | 0     | 0      | 0          | 14    |
|                                                                               |         |                                 |             |            |              |              | Volume         | 0.3      | 0.42  | 1.68  | 2.54  | 0     | 0     | 0     | 0     | 0      | 0          | 4.94  |
|                                                                               | 4       | Bungbindraban                   | 1/27 C-III  | 42.9       | 241          | Deodar       | Number         | 3        | 1     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0          | 4     |



|        |   |                   |             |        |     |                    |        |        |      |       |       |       |      |       |      |   |       |
|--------|---|-------------------|-------------|--------|-----|--------------------|--------|--------|------|-------|-------|-------|------|-------|------|---|-------|
|        |   |                   |             |        |     | Volume             | 0.18   | 0.14   | 0    | 0     | 0     | 0     | 0    | 0     | 0    | 0 | 0.32  |
|        |   |                   |             |        | 926 | Kail               | Number | 1      | 0    | 0     | 0     | 0     | 0    | 0     | 0    | 0 | 1     |
|        |   |                   |             |        |     |                    | Volume | 0.06   | 0    | 0     | 0     | 0     | 0    | 0     | 0    | 0 | 0.06  |
|        |   |                   |             |        | 929 | Chil               | Number | 2      | 1    | 0     | 2     | 2     | 0    | 0     | 0    | 0 | 7     |
|        |   |                   |             |        |     |                    | Volume | 0.12   | 0.14 | 0     | 2.54  | 4.82  | 0    | 0     | 0    | 0 | 7.62  |
|        | 5 | Palanichaloun     | 1/36 Whole  | 123.43 | 929 | Chil               | Number | 5      | 3    | 3     | 3     | 5     | 5    | 2     | 0    | 0 | 26    |
|        |   |                   |             |        |     |                    | Volume | 0.3    | 0.42 | 1.26  | 3.81  | 12.05 | 17.7 | 9.62  | 0    | 0 | 45.16 |
|        |   |                   |             |        |     | Total Chowai Range | Number | 37     | 30   | 36    | 11    | 7     | 5    | 4     | 0    | 0 | 130   |
|        |   |                   |             |        |     |                    | Volume | 2.22   | 4.2  | 15.12 | 13.97 | 16.87 | 17.7 | 19.24 | 0    | 0 | 89.32 |
| Nither | 0 |                   |             |        |     |                    | Number | 0      | 0    | 0     | 0     | 0     | 0    | 0     | 0    | 0 | 0     |
|        |   |                   |             |        |     |                    | Volume | 0      | 0    | 0     | 0     | 0     | 0    | 0     | 0    | 0 | 0     |
|        |   |                   |             |        |     | G.Total            | Number | 37     | 30   | 36    | 11    | 7     | 5    | 4     | 0    | 0 | 130   |
|        |   |                   |             |        |     |                    | Volume | 2.22   | 4.2  | 15.12 | 13.97 | 16.87 | 17.7 | 19.24 | 0    | 0 | 89.32 |
|        |   |                   |             |        |     |                    |        | PB-III |      |       |       |       |      |       |      |   |       |
| Arsu   | 1 | Siarunal          | 2/3 C-I     | 71.23  | 929 | Chil               | Number | 2      | 0    | 1     | 7     | 2     | 1    | 0     | 0    | 0 | 13    |
|        |   |                   |             |        |     |                    | Volume | 0.12   | 0    | 0.42  | 8.89  | 4.82  | 3.54 | 0     | 0    | 0 | 17.79 |
|        | 2 | Gada Mawa         | 2/6 whole   | 35.61  |     | Chil               | Number | 33     | 0    | 0     | 0     | 0     | 0    | 0     | 0    | 0 | 33    |
|        |   |                   |             |        |     |                    | Volume | 1.98   | 0    | 0     | 0     | 0     | 0    | 0     | 0    | 0 | 1.98  |
|        |   |                   |             |        |     | Total Arsu Range   | Number | 35     | 0    | 1     | 7     | 2     | 1    | 0     | 0    | 0 | 46    |
|        |   |                   |             |        |     |                    | Volume | 2.1    | 0    | 0.42  | 8.89  | 4.82  | 3.54 | 0     | 0    | 0 | 19.77 |
| Chowai |   |                   |             |        |     |                    | Number | 0      | 0    | 0     | 0     | 0     | 0    | 0     | 0    | 0 | 0     |
|        |   |                   |             |        |     |                    | Volume | 0      | 0    | 0     | 0     | 0     | 0    | 0     | 0    | 0 | 0     |
| Nither | 1 | Gwan              | 1/17 C-I    | 13.76  | 929 | Chil               | Number | 5      | 14   | 2     | 1     | 0     | 0    | 1     | 1    | 0 | 24    |
|        |   |                   |             |        |     |                    | Volume | 0.3    | 1.96 | 0.84  | 1.27  | 0     | 0    | 4.81  | 6.09 | 0 | 15.27 |
|        | 2 | Gwan              | 1/17 C-II   | 12.14  | 929 | Chil               | Number | 0      | 4    | 11    | 8     | 0     | 0    | 0     | 0    | 0 | 23    |
|        |   |                   |             |        |     |                    | Volume | 0      | 0.56 | 4.62  | 10.16 | 0     | 0    | 0     | 0    | 0 | 15.34 |
|        | 3 | Gwan              | 1/17 C-III  | 13.76  | 929 | Chil               | Number | 13     | 11   | 3     | 1     | 0     | 0    | 0     | 0    | 0 | 28    |
|        |   |                   |             |        |     |                    | Volume | 0.78   | 1.54 | 1.26  | 1.27  | 0     | 0    | 0     | 0    | 0 | 4.85  |
|        |   |                   |             |        |     | Total Nither Range | Number | 18     | 29   | 16    | 10    | 0     | 0    | 1     | 1    | 0 | 75    |
|        |   |                   |             |        |     |                    | Volume | 1.08   | 4.06 | 6.72  | 12.7  | 0     | 0    | 4.81  | 6.09 | 0 | 35.46 |
|        |   |                   |             |        |     | G.Total            | Number | 53     | 29   | 17    | 17    | 2     | 1    | 1     | 1    | 0 | 121   |
|        |   |                   |             |        |     |                    | Volume | 3.18   | 4.06 | 7.14  | 21.59 | 4.82  | 3.54 | 4.81  | 6.09 | 0 | 55.23 |
|        |   |                   |             |        |     |                    |        | PB-IV  |      |       |       |       |      |       |      |   |       |
| Arsu   | 1 | Tikkar (Sample 1) | 1/1 C-I(a)  | 107.24 | 929 | Chil               | Number | 0      | 0    | 0     | 0     | 4     | 5    | 0     | 0    | 0 | 9     |
|        |   |                   |             |        |     |                    | Volume | 0      | 0    | 0     | 0     | 9.64  | 17.7 |       |      |   | 27.34 |
|        | 2 | Tikkar (Sample 2) | 1/1 C-I(a)  | 107.24 | 929 | Chil               | Number | 2      | 5    | 3     | 2     | 1     | 0    | 0     | 0    | 0 | 13    |
|        |   |                   |             |        |     |                    | Volume | 0.12   | 0.7  | 1.26  | 2.54  | 2.41  | 0    | 0     | 0    | 0 | 7.03  |
|        | 3 | Tikkar (Sample 1) | 1/1 C-II(a) | 180.49 | 929 | Chil               | Number | 1      | 5    | 8     | 1     | 2     | 0    | 0     | 0    | 0 | 17    |
|        |   |                   |             |        |     |                    | Volume | 0.06   | 0.7  | 3.36  | 1.27  | 4.82  | 0    | 0     | 0    | 0 | 10.21 |
|        | 4 | Tikkar (Sample 2) | 1/1 C-II(a) | 180.49 | 929 | Chil               | Number | 0      | 2    | 6     | 5     | 3     | 0    | 0     | 0    | 0 | 16    |

|        |   |                       |             |       |     |                    |        |       |       |       |        |       |       |       |      |      |      |        |
|--------|---|-----------------------|-------------|-------|-----|--------------------|--------|-------|-------|-------|--------|-------|-------|-------|------|------|------|--------|
|        |   |                       |             |       |     |                    | Volume | 0     | 0.28  | 2.52  | 6.35   | 7.23  | 0     | 0     | 0    | 0    | 0    | 16.38  |
|        | 5 | Siarunal (Sample 1)   | 2/3 C-II    | 38.44 | 929 | Chil               | Number | 1     | 0     | 1     | 4      | 4     | 2     | 2     | 0    | 0    | 0    | 14     |
|        |   |                       |             |       |     |                    | Volume | 0.06  | 0     | 0.42  | 5.08   | 9.64  | 7.08  | 9.62  | 0    | 0    | 0    | 31.9   |
|        | 6 | Siarunal (Sample 2)   | 2/3 C-II    | 38.44 | 929 | Chil               | Number | 5     | 18    | 11    | 14     | 5     | 3     | 0     | 0    | 0    | 0    | 56     |
|        |   |                       |             |       |     |                    | Volume | 0.3   | 2.52  | 4.62  | 17.78  | 12.05 | 10.62 | 0     | 0    | 0    | 0    | 47.89  |
|        |   |                       |             |       |     | Total Arsu Range   | Number | 9     | 30    | 29    | 26     | 19    | 10    | 2     | 0    | 0    | 0    | 125    |
|        |   |                       |             |       |     |                    | Volume | 0.54  | 4.2   | 12.18 | 33.02  | 45.79 | 35.4  | 9.62  | 0    | 0    | 0    | 140.75 |
| Chowai | 1 | Parkotshil (Sample 1) | 1/26 C-I(b) | 29.14 | 929 | Chil               | Number | 24    | 3     | 0     | 7      | 0     | 0     | 0     | 0    | 0    | 0    | 34     |
|        |   |                       |             |       |     |                    | Volume | 1.44  | 0.42  |       | 8.89   | 0     | 0     | 0     | 0    | 0    | 0    | 10.75  |
|        | 2 | Parkotshil (Sample 2) | 1/26 C-I(b) | 29.14 | 241 | Deodar             | Number | 0     | 0     | 3     | 0      | 0     | 0     | 0     | 0    | 0    | 0    | 3      |
|        |   |                       |             |       |     |                    | Volume | 0     | 0     | 1.26  | 0      | 0     | 0     | 0     | 0    | 0    | 0    | 1.26   |
|        |   |                       |             |       | 929 | Chil               | Number | 2     | 7     | 3     | 5      | 1     | 0     | 0     | 0    | 0    | 0    | 18     |
|        |   |                       |             |       |     |                    | Volume | 0.12  | 0.98  | 1.26  | 6.35   | 2.41  | 0     | 0     | 0    | 0    | 0    | 11.12  |
|        |   |                       |             |       |     | Total Chowai Range | Number | 26    | 10    | 6     | 12     | 1     | 0     | 0     | 0    | 0    | 0    | 55     |
|        |   |                       |             |       |     |                    | Volume | 1.56  | 1.4   | 2.52  | 15.24  | 2.41  | 0     | 0     | 0    | 0    | 0    | 23.13  |
| Nither | 1 | Gwan                  | 1/17 C-IV   | 29.54 | 929 | Chil               | Number | 11    | 16    | 2     | 1      | 0     | 1     | 1     | 0    | 0    | 0    | 32     |
|        |   |                       |             |       |     |                    | Volume | 0.66  | 2.24  | 0.84  | 1.27   | 0     | 3.54  | 4.81  | 0    | 0    | 0    | 13.36  |
|        |   |                       |             |       |     | Total Nither Range | Number | 11    | 16    | 2     | 1      | 0     | 1     | 1     | 0    | 0    | 0    | 32     |
|        |   |                       |             |       |     |                    | Volume | 0.66  | 2.24  | 0.84  | 1.27   | 0     | 3.54  | 4.81  | 0    | 0    | 0    | 13.36  |
|        |   |                       |             |       |     | G.Total            | Number | 46    | 56    | 37    | 39     | 20    | 11    | 3     | 0    | 0    | 0    | 212    |
|        |   |                       |             |       |     |                    | Volume | 2.76  | 7.84  | 15.54 | 49.53  | 48.2  | 38.94 | 14.43 | 0    | 0    | 0    | 177.24 |
|        |   |                       |             |       |     | G.Total CWC        | Number | 256   | 121   | 108   | 85     | 36    | 22    | 8     | 1    | 0    | 0    | 637    |
|        |   |                       |             |       |     |                    | Volume | 15.30 | 16.67 | 46.22 | 107.95 | 86.76 | 77.88 | 38.48 | 6.09 | 0.00 | 0.00 | 395.36 |

| Forest wise Enumeration Result of Protection Working Circle |        |                   |             |            |              |              |               |           |          |                                               |           |           |          |          |          |           |               |       |
|-------------------------------------------------------------|--------|-------------------|-------------|------------|--------------|--------------|---------------|-----------|----------|-----------------------------------------------|-----------|-----------|----------|----------|----------|-----------|---------------|-------|
| Total area (Area = 47984.86 Ha.)                            |        |                   |             |            |              |              |               |           |          | Enumeration : Grid system (Sample ID) 169 No. |           |           |          |          |          |           |               |       |
| Name of Range                                               | Sr.No. | Name of Forest    | Comptt. No. | Area (Ha.) | Species Code | Species      | Number/Volume | 10th-20 V | 20-30 IV | 30-40 III                                     | 40-50 IIA | 50-60 IIB | 60-70 IA | 70-80 IB | 80-90 IC | 90-100 ID | 100 & over IE | Total |
| Arsu                                                        | 1      | R/1 Shilli Girchi | C-II        | 274.38     | 19           | Maple        | Number        | 0         | 0        | 3                                             | 4         | 0         | 0        | 0        | 0        | 0         | 0             | 7     |
|                                                             |        |                   |             |            |              |              | Volume        | 0         | 0        | 2.1                                           | 5.2       | 0         | 0        | 0        | 0        | 0         | 0             | 7.3   |
|                                                             |        |                   |             |            | 38           | Aesculus     | Number        | 0         | 0        | 0                                             | 1         | 0         | 0        | 1        | 0        | 0         | 0             | 2     |
|                                                             |        |                   |             |            |              |              | Volume        | 0         | 0        | 0                                             | 1.34      | 0         | 0        | 4.50     | 0        | 0         | 0             | 5.84  |
|                                                             | 2      | Tikkar            | 1/1 C-I(b)  | 106.43     | 241          | Deodar       | Number        | 0         | 0        | 5                                             | 4         | 0         | 0        | 0        | 0        | 0         | 0             | 9     |
|                                                             |        |                   |             |            |              |              | Volume        | 0         | 0        | 2.1                                           | 5.08      | 0         | 0        | 0        | 0        | 0         | 0             | 7.18  |
|                                                             |        |                   |             |            | 929          | Chil         | Number        | 0         | 0        | 1                                             | 2         | 2         | 0        | 0        | 0        | 0         | 0             | 5     |
|                                                             |        |                   |             |            |              |              | Volume        | 0         | 0        | 0.42                                          | 2.54      | 4.82      | 0        | 0        | 0        | 0         | 0             | 7.78  |
|                                                             |        |                   |             |            | 1010         | Ban/Oak      | Number        | 0         | 0        | 1                                             | 1         | 0         | 0        | 0        | 0        | 0         | 0             | 2     |
|                                                             |        |                   |             |            |              |              | Volume        | 0         | 0        | 0.66                                          | 1.20      | 0         | 0        | 0        | 0        | 0         | 0             | 1.86  |
|                                                             |        |                   |             |            | 2000         | OBL          | Number        | 0         | 0        | 1                                             | 0         | 0         | 0        | 0        | 0        | 0         | 0             | 1     |
|                                                             |        |                   |             |            |              |              | Volume        | 0         | 0        | 0.71                                          | 0         | 0         | 0        | 0        | 0        | 0         | 0             | 0.71  |
|                                                             | 3      | Tikkar            | 1/1 C-II(b) | 248.08     | 929          | Chil         | Number        | 0         | 2        | 8                                             | 2         | 2         | 1        | 0        | 0        | 0         | 0             | 15    |
|                                                             |        |                   |             |            |              |              | Volume        | 0         | 0.28     | 3.36                                          | 2.54      | 4.82      | 3.54     | 0        | 0        | 0         | 0             | 14.54 |
|                                                             | 4      | Tikkar            | 1/1 C-III   | 256.98     | 929          | Chil         | Number        | 3         | 7        | 7                                             | 5         | 1         | 0        | 0        | 0        | 0         | 0             | 23    |
|                                                             |        |                   |             |            |              |              | Volume        | 0.18      | 0.98     | 2.94                                          | 6.35      | 2.41      | 0        | 0        | 0        | 0         | 0             | 12.86 |
|                                                             | 5      | Kulapani          | 1/6 C-I     | 21.85      | 241          | Deodar       | Number        | 8         | 20       | 13                                            | 5         | 0         | 0        | 0        | 0        | 0         | 0             | 46    |
|                                                             |        |                   |             |            |              |              | Volume        | 0.48      | 2.8      | 5.46                                          | 6.35      | 0         | 0        | 0        | 0        | 0         | 0             | 15.09 |
|                                                             |        |                   |             |            | 926          | Kail         | Number        | 1         | 0        | 0                                             | 2         | 0         | 0        | 0        | 0        | 0         | 0             | 3     |
|                                                             |        |                   |             |            |              |              | Volume        | 0.06      | 0        | 0                                             | 2.54      | 0         | 0        | 0        | 0        | 0         | 0             | 2.6   |
|                                                             | 6      | Kulapani          | 1/6 C-II    | 39.25      | 241          | Deodar       | Number        | 11        | 3        | 1                                             | 1         | 0         | 0        | 0        | 0        | 0         | 0             | 16    |
|                                                             |        |                   |             |            |              |              | Volume        | 0.66      | 0.42     | 0.42                                          | 1.27      | 0         | 0        | 0        | 0        | 0         | 0             | 2.77  |
|                                                             |        |                   |             |            | 926          | Kail         | Number        | 5         | 0        | 0                                             | 0         | 0         | 0        | 0        | 0        | 0         | 0             | 5     |
|                                                             |        |                   |             |            |              |              | Volume        | 0.3       | 0        | 0                                             | 0         | 0         | 0        | 0        | 0        | 0         | 0             | 0.3   |
|                                                             |        |                   |             |            | 921          | Spruce       | Number        | 2         | 0        | 0                                             | 0         | 0         | 1        | 0        | 0        | 0         | 0             | 3     |
|                                                             |        |                   |             |            |              |              | Volume        | 0.12      | 0        | 0                                             | 0         | 0         | 5.1      | 0        | 0        | 0         | 0             | 5.22  |
|                                                             |        |                   |             |            | 1038         | Rhododendron | Number        | 0         | 2        | 0                                             | 0         | 0         | 0        | 0        | 0        | 0         | 0             | 2     |
|                                                             |        |                   |             |            |              |              | Volume        | 0.00      | 0.59     | 0.00                                          | 0.00      | 0.00      | 0.00     | 0.00     | 0.00     | 0.00      | 0.00          | 0.59  |
|                                                             |        |                   |             |            | 1006         | Mohru/Oak    | Number        | 0         | 0        | 0                                             | 1         | 0         | 0        | 0        | 0        | 0         | 0             | 1     |
|                                                             |        |                   |             |            |              |              | Volume        | 0         | 0        | 0                                             | 1.8       | 0         | 0        | 0        | 0        | 0         | 0             | 1.8   |
|                                                             |        |                   |             |            | 1010         | Ban/Oak      | Number        | 0         | 2        | 1                                             | 3         | 1         | 2        | 0        | 1        | 0         | 0             | 10    |
|                                                             |        |                   |             |            |              |              | Volume        | 0         | 0.63     | 0.66                                          | 3.60      | 1.97      | 5.99     | 0.00     | 5.86     | 0         | 0             | 18.71 |
|                                                             | 7      | Drad              | 1/7 C-I     | 28.33      | 241          | Deodar       | Number        | 6         | 3        | 0                                             | 2         | 0         | 0        | 1        | 1        | 1         | 1             | 15    |
|                                                             |        |                   |             |            |              |              | Volume        | 0.36      | 0.42     | 0                                             | 2.54      | 0         | 0        | 4.81     | 6.09     | 7.08      | 7.08          | 28.38 |
|                                                             |        |                   |             |            | 921          | Spruce       | Number        | 1         | 2        | 2                                             | 1         | 3         | 3        | 1        | 0        | 1         | 0             | 14    |
|                                                             |        |                   |             |            |              |              | Volume        | 0.06      | 0.28     | 1.7                                           | 1.7       | 9.33      | 15.3     | 7.08     | 0        | 9.34      | 0             | 44.79 |
|                                                             |        |                   |             |            | 1010         | Ban/Oak      | Number        | 1         | 0        | 0                                             | 0         | 0         | 0        | 0        | 0        | 0         | 0             | 1     |
|                                                             |        |                   |             |            |              |              | Volume        | 0.134     | 0        | 0                                             | 0         | 0         | 0        | 0        | 0        | 0         | 0             | 0.134 |
|                                                             | 8      | Drad              | 1/7 C-II    | 80.94      | 241          | Deodar       | Number        | 0         | 0        | 0                                             | 1         | 0         | 2        | 0        | 0        | 0         | 1             | 4     |

|    |           |           |        |      |         |              |        |      |      |      |       |      |       |       |      |       |        |
|----|-----------|-----------|--------|------|---------|--------------|--------|------|------|------|-------|------|-------|-------|------|-------|--------|
|    |           |           |        |      |         | Volume       | 0      | 0    | 0    | 1.27 | 0     | 7.08 | 0     | 0     | 0    | 7.08  | 15.43  |
|    |           |           |        |      | 926     | Kail         | Number | 0    | 1    | 0    | 0     | 0    | 0     | 0     | 0    | 0     | 1      |
|    |           |           |        |      |         | Volume       | 0      | 0.14 | 0    | 0    | 0     | 0    | 0     | 0     | 0    | 0     | 0.14   |
|    |           |           |        |      | 921     | Spruce       | Number | 0    | 1    | 0    | 1     | 0    | 3     | 2     | 0    | 1     | 10     |
|    |           |           |        |      |         | Volume       | 0      | 0.14 | 0    | 1.7  | 0     | 15.3 | 14.16 | 16.98 | 0    | 9.34  | 57.62  |
|    |           |           |        |      | 1006    | Mohru/Oak    | Number | 5    | 5    | 0    | 0     | 0    | 1     | 0     | 0    | 0     | 11     |
|    |           |           |        |      |         | Volume       | 0.67   | 1.5  | 0    | 0    | 0     | 0    | 6.3   | 0     | 0    | 0     | 8.47   |
| 9  | Drad      | 1/7 C-III | 131.53 | 241  | Deodar  | Number       | 0      | 0    | 1    | 0    | 2     | 0    | 0     | 0     | 0    | 0     | 3      |
|    |           |           |        |      |         | Volume       | 0      | 0    | 0.42 | 0    | 4.82  | 0    | 0     | 0     | 0    | 0     | 5.24   |
|    |           |           |        |      | 921     | Spruce       | Number | 1    | 1    | 1    | 1     | 0    | 2     | 1     | 0    | 0     | 7      |
|    |           |           |        |      |         | Volume       | 0.06   | 0.14 | 0.85 | 1.7  | 0     | 10.2 | 7.08  | 0     | 0    | 0     | 20.03  |
|    |           |           |        |      | 1038    | Rhododendron | Number | 1    | 0    | 0    | 1     | 0    | 1     | 0     | 0    | 0     | 3      |
|    |           |           |        |      |         | Volume       | 0.094  | 0    | 0    | 1.34 | 0     | 3.23 | 0     | 0     | 0    | 0     | 4.66   |
|    |           |           |        |      | 1006    | Mohru/Oak    | Number | 5    | 0    | 0    | 1     | 0    | 0     | 0     | 0    | 0     | 6      |
|    |           |           |        |      |         | Volume       | 0.67   | 0    | 0    | 1.8  | 0     | 0    | 0     | 0     | 0    | 0     | 2.47   |
|    |           |           |        |      | 19      | Maple        | Number | 0    | 1    | 0    | 0     | 0    | 0     | 0     | 0    | 0     | 1      |
|    |           |           |        |      |         | Volume       | 0      | 0.2  | 0    | 0    | 0     | 0    | 0     | 0     | 0    | 0     | 0.2    |
|    |           |           |        |      | 2000    | OBL          | Number | 0    | 1    | 3    | 3     | 0    | 0     | 0     | 0    | 0     | 7      |
|    |           |           |        |      |         | Volume       | 0      | 0.29 | 2.12 | 4.01 | 0     | 0    | 0     | 0     | 0    | 0     | 6.43   |
| 10 | Drad      | 1/7 C-IV  | 152.97 | 241  | Deodar  | Number       | 0      | 1    | 0    | 0    | 0     | 2    | 1     | 1     |      |       | 5      |
|    |           |           |        |      |         | Volume       | 0      | 0.14 | 0    | 0    | 0     | 7.08 | 4.81  | 6.09  | 0    | 0     | 18.12  |
|    |           |           |        |      | 921     | Spruce       | Number | 1    | 0    | 1    | 2     | 0    | 1     | 0     | 0    | 2     | 7      |
|    |           |           |        |      |         | Volume       | 0.06   | 0    | 0.85 | 3.4  | 0     | 0    | 7.08  | 0     | 0    | 18.68 | 30.07  |
|    |           |           |        |      | 1010    | Ban/Oak      | Number | 3    | 0    | 0    | 0     | 0    | 0     | 0     | 0    | 0     | 3      |
|    |           |           |        |      |         | Volume       | 0.40   | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00  | 0.00 | 0.00  | 0.40   |
|    |           |           |        |      | 1006    | Mohru/Oak    | Number | 2    | 0    | 0    | 0     | 0    | 0     | 0     | 0    | 0     | 2      |
|    |           |           |        |      |         | Volume       | 0.27   | 0.00 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00  | 0.00 | 0.00  | 0.27   |
|    |           |           |        |      | 2000    | OBL          | Number | 0    | 0    | 1    | 0     | 1    | 1     | 0     | 0    | 0     | 3      |
|    |           |           |        |      |         | Volume       | 0      | 0.00 | 0.71 | 0.00 | 2.18  | 3.23 | 0.00  | 0.00  | 0.00 | 0.00  | 6.12   |
| 11 | Brati     | 2/1 C-IV  | 155    | 921  | Spruce  | Number       | 0      | 2    | 5    | 10   | 11    | 5    | 6     | 3     | 0    | 0     | 42     |
|    |           |           |        |      |         | Volume       | 0      | 0.28 | 4.25 | 17   | 34.21 | 25.5 | 42.48 | 25.47 | 0    | 0     | 149.19 |
|    |           |           |        |      | 1006    | Mohru/Oak    | Number | 0    | 3    | 4    | 2     | 0    | 0     | 0     | 0    | 0     | 9      |
|    |           |           |        |      |         | Volume       | 0      | 0.9  | 4    | 3.6  | 0     | 0    | 0     | 0     | 0    | 0     | 8.5    |
| 12 | Zia       | 2/2 Whole | 156.62 | 921  | Spruce  | Number       | 3      | 4    | 8    | 18   | 13    | 7    | 2     | 0     | 0    | 0     | 55     |
|    |           |           |        |      |         | Volume       | 0.18   | 0.56 | 6.8  | 30.6 | 40.43 | 35.7 | 14.16 | 0     | 0    | 0     | 128.43 |
| 13 | Dobda     | 2/4 Whole | 473.49 | 929  | Chil    | Number       | 0      | 0    | 0    | 0    | 0     | 1    | 2     | 0     | 0    | 0     | 3      |
|    |           |           |        |      |         | Volume       | 0      | 0    | 0    | 0    | 0     | 3.54 | 9.62  | 0     | 0    | 0     | 13.16  |
|    |           |           |        |      | 1010    | Ban/Oak      | Number | 0    | 1    | 0    | 0     | 2    | 1     | 0     | 0    | 0     | 4      |
|    |           |           |        |      |         | Volume       | 0.00   | 0.31 | 0.00 | 0.00 | 3.95  | 3.00 | 0.00  | 0.00  | 0.00 | 0.00  | 7.26   |
|    |           |           |        |      | 1038    | Rhododendron | Number | 3    | 5    | 2    | 0     | 4    | 0     | 0     | 0    | 0     | 14     |
|    |           |           |        |      |         | Volume       | 0.28   | 1.47 | 1.42 | 0.00 | 8.71  | 0.00 | 0.00  | 0.00  | 0.00 | 0.00  | 11.88  |
|    |           |           |        |      | 2000    | OBL          | Number | 1    | 2    | 0    | 0     | 0    | 0     | 0     | 0    | 0     | 3      |
|    |           |           |        |      |         | Volume       | 0.09   | 0.59 | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00  | 0.00 | 0.00  | 0.68   |
| 14 | Bargori   | 2/5 Whole | 671.79 | 1010 | Ban/Oak | Number       | 0      | 5    | 0    | 5    | 0     | 0    | 0     | 5     | 0    | 0     | 15     |
|    |           |           |        |      |         | Volume       | 0      | 1.57 | 0.00 | 6.01 | 0.00  | 0.00 | 0.00  | 29.29 | 0.00 | 0.00  | 36.86  |
|    |           |           |        |      | 2000    | OBL          | Number | 0    | 0    | 1    | 0     | 0    | 0     | 0     | 0    | 0     | 1      |
|    |           |           |        |      |         | Volume       | 0.00   | 0.00 | 0.71 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00  | 0.00 | 0.00  | 0.71   |
| 15 | Tandither | 2/7 whole | 104.81 | 926  | Kail    | Number       | 0      | 1    | 0    | 0    | 1     | 0    | 0     | 0     | 0    | 0     | 2      |

|    |         |            |        |      |           |              |        |       |       |      |      |      |      |       |       |       |       |
|----|---------|------------|--------|------|-----------|--------------|--------|-------|-------|------|------|------|------|-------|-------|-------|-------|
|    |         |            |        |      |           | Volume       | 0      | 0.14  | 0     | 0    | 2.41 | 0    | 0    | 0     | 0     | 0     | 2.55  |
|    |         |            |        |      | 1010      | Ban/Oak      | Number | 1     | 0     | 5    | 0    | 0    | 0    | 0     | 1     | 0     | 7     |
|    |         |            |        |      |           | Volume       | 0.13   | 0     | 3.29  | 0    | 0    | 0    | 0    | 0     | 7.72  | 0     | 11.14 |
|    |         |            |        |      | 2000      | OBL          | Number | 1     | 4     | 0    | 0    | 0    | 0    | 0     | 0     | 0     | 5     |
|    |         |            |        |      |           | Volume       | 0.094  | 1.176 | 0     | 0    | 0    | 0    | 0    | 0     | 0     | 0     | 1.27  |
| 16 | Sampatu | 2/8 Whole  | 216.11 | 926  | Kail      | Number       | 0      | 3     | 2     | 1    | 0    | 0    | 0    | 0     | 0     | 0     | 6     |
|    |         |            |        |      |           | Volume       | 0      | 0.42  | 0.84  | 1.27 | 0    | 0    | 0    | 0     | 0     | 0     | 2.53  |
|    |         |            |        |      | 1006      | Mohru/Oak    | Number | 0     | 3     | 7    | 6    | 0    | 1    | 0     | 0     | 0     | 17    |
|    |         |            |        |      |           | Volume       | 0      | 0.9   | 7     | 10.8 | 0    | 4.6  | 0    | 0     | 0     | 0     | 23.3  |
| 17 | Gulol   | 2/9 whole  | 371.1  | 926  | Kail      | Number       | 3      | 1     | 1     | 0    | 0    | 0    | 0    | 0     | 0     | 0     | 5     |
|    |         |            |        |      |           | Volume       | 0.18   | 0.14  | 0.42  | 0    | 0    | 0    | 0    | 0     | 0     | 0     | 0.74  |
|    |         |            |        |      | 1006      | Mohru/Oak    | Number | 1     | 4     | 8    | 5    | 1    | 0    | 0     | 1     | 0     | 20    |
|    |         |            |        |      |           | Volume       | 0.13   | 1.2   | 8.00  | 9.00 | 3.00 | 0    | 0    | 8     | 0     | 0     | 29.33 |
| 18 | Mul     | 2/10 whole | 219.34 | 2    | Fir       | Number       | 0      | 0     | 0     | 1    | 0    | 0    | 0    | 0     | 0     | 0     | 1     |
|    |         |            |        |      |           | Volume       | 0      | 0     | 0     | 1.7  | 0    | 0    | 0    | 0     | 0     | 0     | 1.7   |
|    |         |            |        |      | 921       | Spruce       | Number | 0     | 2     | 2    | 3    | 3    | 1    | 0     | 1     | 2     | 16    |
|    |         |            |        |      |           | Volume       | 0      | 0.28  | 1.7   | 5.1  | 9.33 | 5.1  | 0    | 8.49  | 18.68 | 18.68 | 67.36 |
|    |         |            |        |      | 1162      | Taxus        | Number | 1     | 5     | 0    | 0    | 0    | 0    | 0     | 0     | 0     | 6     |
|    |         |            |        |      |           | Volume       | 0.104  | 1.17  | 0     | 0    | 0    | 0    | 0    | 0     | 0     | 0     | 1.274 |
| 19 | Kaleo   | 2/11 C-IV  | 520.23 | 1006 | Mohru/Oak | Number       | 2      | 0     | 0     | 1    | 1    | 2    | 0    | 1     | 0     | 1     | 8     |
|    |         |            |        |      |           | Volume       | 0.27   | 0.00  | 0.00  | 1.80 | 3.00 | 9.20 | 0.00 | 8.00  | 0.00  | 12.20 | 34.47 |
|    |         |            |        |      | 19        | Maple        | Number | 4     | 1     | 1    | 0    | 0    | 0    | 0     | 0     | 0     | 6     |
|    |         |            |        |      |           | Volume       | 0.468  | 0.2   | 0.7   | 0    | 0    | 0    | 0    | 0     | 0     | 0     | 1.368 |
|    |         |            |        |      | 651       | Walnut       | Number | 3     | 1     | 1    | 0    | 0    | 0    | 0     | 0     | 0     | 5     |
|    |         |            |        |      |           | Volume       | 0.237  | 0.2   | 0.8   | 0    | 0    | 0    | 0    | 0     | 0     | 0     | 1.237 |
| 20 | Balacha | 2/12 C-I   | 210.44 | 921  | Spruce    | Number       | 0      | 0     | 0     | 0    | 0    | 0    | 1    | 0     | 1     | 1     | 3     |
|    |         |            |        |      |           | Volume       | 0      | 0     | 0     | 0    | 0    | 0    | 7.08 | 0     | 9.34  | 9.34  | 25.76 |
|    |         |            |        |      | 19        | Maple        | Number | 0     | 0     | 2    | 0    | 0    | 0    | 0     | 0     | 0     | 2     |
|    |         |            |        |      |           | Volume       | 0      | 0     | 1.4   | 0    | 0    | 0    | 0    | 0     | 0     | 0     | 1.4   |
|    |         |            |        |      | 651       | Walnut       | Number | 0     | 0     | 0    | 0    | 0    | 6    | 2     | 0     | 0     | 8     |
|    |         |            |        |      |           | Volume       | 0      | 0     | 0     | 0    | 0    | 22.8 | 10.2 | 0     | 0     | 0     | 33    |
| 21 | Balacha | 2/12 C-II  | 144.47 | 2    | Fir       | Number       | 0      | 0     | 0     | 0    | 0    | 0    | 0    | 1     | 3     | 1     | 5     |
|    |         |            |        |      |           | Volume       | 0      | 0     | 0     | 0    | 0    | 0    | 0    | 8.49  | 28.02 | 9.34  | 45.85 |
|    |         |            |        |      | 921       | Spruce       | Number | 1     | 0     | 0    | 0    | 0    | 0    | 0     | 2     | 1     | 4     |
|    |         |            |        |      |           | Volume       | 0.06   | 0     | 0     | 0    | 0    | 0    | 0    | 0     | 18.68 | 9.34  | 28.08 |
|    |         |            |        |      | 2000      | OBL          | Number | 0     | 2     | 2    | 0    | 0    | 0    | 0     | 0     | 0     | 4     |
|    |         |            |        |      |           | Volume       | 0      | 0.59  | 1.42  | 0    | 0    | 0    | 0    | 0     | 0     | 0     | 2.00  |
| 22 | Barnagi | 2/16 C-I   | 52.2   | 1010 | Ban/Oak   | Number       | 7      | 2     | 2     | 0    | 0    | 0    | 0    | 2     | 0     | 0     | 13    |
|    |         |            |        |      |           | Volume       | 0.94   | 0.63  | 1.31  | 0    | 0    | 0    | 0    | 11.71 | 0     | 0     | 14.59 |
|    |         |            |        |      | 1038      | Rhododendron | Number | 0     | 2     | 3    | 0    | 0    | 0    | 1     | 0     | 0     | 6     |
|    |         |            |        |      |           | Volume       | 0      | 0.588 | 2.124 | 0    | 0    | 0    | 4.5  | 0     | 0     | 0     | 7.212 |
| 23 | Barnagi | 2/16 C-II  | 61.11  | 241  | Deodar    | Number       | 0      | 0     | 0     | 1    | 0    | 0    | 1    | 0     | 0     | 0     | 2     |
|    |         |            |        |      |           | Volume       | 0      | 0     | 0     | 1.27 | 0    | 0    | 4.81 | 0     | 0     | 0     | 6.08  |
|    |         |            |        |      | 921       | Spruce       | Number | 0     | 0     | 0    | 1    | 0    | 0    | 1     | 0     | 0     | 3     |
|    |         |            |        |      |           | Volume       | 0      | 0     | 0     | 1.7  | 0    | 0    | 7.08 | 0     | 0     | 9.34  | 18.12 |
|    |         |            |        |      | 1010      | Ban/Oak      | Number | 0     | 2     | 0    | 1    | 1    | 0    | 1     | 0     | 0     | 5     |
|    |         |            |        |      |           | Volume       | 0      | 0.63  | 0     | 1.20 | 1.97 | 0    | 4.29 | 0     | 0     | 0     | 8.09  |
|    |         |            |        |      | 1038      | Rhododendron | Number | 0     | 0     | 0    | 1    | 1    | 0    | 0     | 0     | 0     | 2     |

|  |    |                         |            |        |      |            |        |      |      |      |       |       |       |       |   |      |       |
|--|----|-------------------------|------------|--------|------|------------|--------|------|------|------|-------|-------|-------|-------|---|------|-------|
|  |    |                         |            |        |      | Volume     | 0      | 0    | 0    | 1.34 | 2.18  | 0     | 0     | 0     | 0 | 0    | 3.51  |
|  | 24 | Barnagi                 | 2/16 C-III | 80.94  | 241  | Deodar     | Number | 5    | 2    | 1    | 5     | 5     | 2     | 2     | 0 | 0    | 22    |
|  |    |                         |            |        |      | Volume     | 0.3    | 0.28 | 0.42 | 6.35 | 12.05 | 7.08  | 9.62  | 0     | 0 | 0    | 36.1  |
|  | 25 | Barnagi                 | 2/16 C-IV  | 315.66 | 921  | Spruce     | Number | 0    | 1    | 0    | 4     | 3     | 1     | 3     | 1 | 0    | 14    |
|  |    |                         |            |        |      | Volume     | 0      | 0.14 | 0    | 6.8  | 9.33  | 5.1   | 21.24 | 8.49  | 0 | 9.34 | 60.44 |
|  | 26 | Dadai                   | 2/17 C-I   | 149.72 | 921  | Spruce     | Number | 0    | 0    | 0    | 0     | 1     | 0     | 1     | 0 | 1    | 3     |
|  |    |                         |            |        |      | Volume     | 0      | 0    | 0    | 0    | 3.11  | 0     | 7.08  | 0     | 0 | 9.34 | 19.53 |
|  |    |                         |            |        | 38   | Aesculus   | Number | 0    | 0    | 0    | 0     | 0     | 0     | 0     | 0 | 1    | 1     |
|  |    |                         |            |        |      | Volume     | 0      | 0    | 0    | 0    | 0     | 0     | 0     | 0     | 0 | 9.59 | 9.59  |
|  |    |                         |            |        | 2000 | OBL        | Number | 0    | 0    | 0    | 0     | 0     | 0     | 0     | 0 | 1    | 1     |
|  |    |                         |            |        |      | Volume     | 0      | 0    | 0    | 0    | 0     | 0     | 0     | 0     | 0 | 9.59 | 9.59  |
|  | 27 | Dadai                   | 2/17 C-II  | 186.15 | 2    | Fir        | Number | 0    | 0    | 0    | 2     | 1     | 1     | 0     | 0 | 0    | 4     |
|  |    |                         |            |        |      | Volume     | 0      | 0    | 0    | 3.4  | 3.11  | 5.1   | 0     | 0     | 0 | 0    | 11.61 |
|  |    |                         |            |        | 921  | Spruce     | Number | 0    | 1    | 1    | 3     | 0     | 2     | 1     | 2 | 0    | 11    |
|  |    |                         |            |        |      | Volume     | 0      | 0.14 | 0.85 | 5.1  | 0     | 10.2  | 7.08  | 16.98 | 0 | 9.34 | 49.69 |
|  | 28 | UPF Baswari             | C-2        | 352.07 | 241  | Deodar     | Number | 0    | 0    | 1    | 1     | 2     | 0     | 0     | 0 | 0    | 4     |
|  |    |                         |            |        |      | Volume     | 0      | 0    | 0.42 | 1.27 | 4.82  | 0     | 0     | 0     | 0 | 0    | 6.51  |
|  |    |                         |            |        | 921  | Spruce     | Number | 0    | 0    | 0    | 2     | 3     | 2     | 3     | 3 | 0    | 13    |
|  |    |                         |            |        |      | Volume     | 0      | 0    | 0    | 3.4  | 9.33  | 10.2  | 21.24 | 25.47 | 0 | 0    | 69.64 |
|  | 29 | UPF Shalat              | C-6        | 400.64 | 241  | Deodar     | Number | 15   | 21   | 13   | 1     | 1     |       |       |   |      | 51    |
|  |    |                         |            |        |      | Volume     | 0.9    | 2.94 | 5.46 | 1.27 | 2.41  | 0     | 0     | 0     | 0 | 0    | 12.98 |
|  | 30 | UPF Barna               | C-7        | 157.83 | 929  | Chil       | Number | 17   | 17   | 10   | 1     | 0     | 3     | 0     | 1 | 0    | 49    |
|  |    |                         |            |        |      | Volume     | 1.02   | 2.38 | 4.2  | 1.27 | 0     | 10.62 | 0     | 6.09  | 0 | 0    | 25.58 |
|  | 31 | UPF Bijali              | C-8        | 60.7   | 926  | Kail       | Number | 1    | 2    | 0    | 1     | 0     | 0     | 0     | 0 | 0    | 4     |
|  |    |                         |            |        |      | Volume     | 0.06   | 0.28 | 0    | 1.27 | 0     | 0     | 0     | 0     | 0 | 0    | 1.61  |
|  |    |                         |            |        | 1010 | Ban/Oak    | Number | 10   | 3    | 4    | 0     | 0     | 0     | 0     | 0 | 0    | 17    |
|  |    |                         |            |        |      | Volume     | 1.34   | 0.94 | 2.63 | 0    | 0     | 0     | 0     | 0     | 0 | 0    | 4.91  |
|  |    |                         |            |        | 62   | Kunish     | Number | 1    | 0    | 0    | 0     | 0     | 0     | 0     | 0 | 0    | 1     |
|  |    |                         |            |        |      | Volume     | 0.09   | 0    | 0    | 0    | 0     | 0     | 0     | 0     | 0 | 0    | 0.09  |
|  | 32 | UPF Bail                | C-9        | 874.15 | 926  | Chil       | Number | 9    | 5    | 0    | 0     | 0     | 0     | 0     | 0 | 0    | 14    |
|  |    |                         |            |        |      | Volume     | 0.54   | 0.7  | 0    | 0    | 0     | 0     | 0     | 0     | 0 | 0    | 1.24  |
|  |    |                         |            |        | 433  | Euclayptus | Number | 10   | 9    | 2    | 1     | 0     | 0     | 0     | 0 | 0    | 22    |
|  |    |                         |            |        |      | Volume     | 0.94   | 2.65 | 1.42 | 1.34 | 0     | 0     | 0     | 0     | 0 | 0    | 6.34  |
|  | 33 | UPF Sisu                | C-10       | 60.7   | 433  | Euclayptus | Number | 14   | 5    | 0    | 0     | 0     | 0     | 0     | 0 | 0    | 19    |
|  |    |                         |            |        |      | Volume     | 1.32   | 1.47 | 0    | 0    | 0     | 0     | 0     | 0     | 0 | 0    | 2.79  |
|  | 34 | UPF Kathanda (Sample 1) | C-12       | 186.15 | 929  | Chil       | Number | 10   | 15   | 8    | 2     | 0     | 0     | 0     | 0 | 0    | 35    |
|  |    |                         |            |        |      | Volume     | 0.60   | 2.10 | 3.36 | 2.54 | 0     | 0     | 0     | 0     | 0 | 0    | 8.60  |
|  | 35 | UPF Kathanda (Sample 2) |            |        | 241  | Deodar     | Number | 0    | 0    | 2    | 1     | 0     | 0     | 0     | 0 | 0    | 3     |
|  |    |                         |            |        |      | Volume     | 0      | 0    | 0.84 | 1.27 | 0     | 0     | 0     | 0     | 0 | 0    | 2.11  |
|  |    |                         |            |        | 926  | Kail       | Number | 19   | 3    | 4    | 2     | 0     | 0     | 0     | 0 | 0    | 28    |
|  |    |                         |            |        |      | Volume     | 1.14   | 0.42 | 1.68 | 2.54 | 0     | 0     | 0     | 0     | 0 | 0    | 5.78  |
|  | 36 | UPF Randal              | C-13       | 356.12 | 433  | Euclayptus | Number | 15   | 11   | 1    | 0     | 0     | 0     | 0     | 0 | 0    | 27    |
|  |    |                         |            |        |      | Volume     | 1.41   | 3.23 | 0.71 | 0    | 0     | 0     | 0     | 0     | 0 | 0    | 5.35  |
|  | 37 | UPF Ralu                | C-14       | 311.24 | 433  | Euclayptus | Number | 10   | 3    | 3    | 1     | 2     | 0     | 0     | 0 | 0    | 19    |

|  |    |             |      |        |      |            |        |      |      |       |      |      |       |      |      |   |        |
|--|----|-------------|------|--------|------|------------|--------|------|------|-------|------|------|-------|------|------|---|--------|
|  |    |             |      |        |      | Volume     | 0.94   | 0.88 | 2.12 | 1.34  | 4.35 | 0    | 0     | 0    | 0    | 0 | 9.64   |
|  | 38 | UPF Brow    | C-15 | 121.12 | 241  | Deodar     | Number | 13   | 9    | 3     | 0    | 0    | 0     | 0    | 0    | 0 | 25     |
|  |    |             |      |        |      | Volume     | 0.78   | 1.26 | 1.26 | 0     | 0    | 0    | 0     | 0    | 0    | 0 | 3.3    |
|  |    |             |      |        | 926  | Kail       | Number | 7    | 0    | 0     | 1    | 1    | 0     | 1    | 0    | 0 | 10     |
|  |    |             |      |        |      | Volume     | 0.42   | 0    | 0    | 1.27  | 2.41 | 0    | 4.81  | 0    | 0    | 0 | 8.91   |
|  | 39 | UPF Kasholi | C-18 | 117.36 | 929  | Chil       | Number | 26   | 11   | 0     | 0    | 0    | 0     | 0    | 0    | 0 | 37     |
|  |    |             |      |        |      | Volume     | 1.56   | 1.54 | 0    | 0     | 0    | 0    | 0     | 0    | 0    | 0 | 3.1    |
|  |    |             |      |        | 433  | Euclayptus | Number | 1    | 0    | 0     | 0    | 0    | 0     | 0    | 0    | 0 | 1      |
|  |    |             |      |        |      | Volume     | 0.09   | 0    | 0    | 0     | 0    | 0    | 0     | 0    | 0    | 0 | 0.09   |
|  | 40 | UPF Pankua  | C-19 | 234.7  | 926  | Kail       | Number | 0    | 2    | 0     | 0    | 0    | 0     | 0    | 0    | 0 | 2      |
|  |    |             |      |        |      | Volume     | 0      | 0.28 | 0    | 0     | 0    | 0    | 0     | 0    | 0    | 0 | 0.28   |
|  |    |             |      |        | 921  | Spruce     | Number | 1    | 0    | 0     | 0    | 0    | 0     | 0    | 0    | 0 | 1      |
|  |    |             |      |        |      | Volume     | 0.06   | 0    | 0    | 0     | 0    | 0    | 0     | 0    | 0    | 0 | 0.06   |
|  |    |             |      |        | 1006 | Mohru/Oak  | Number | 5    | 10   | 5     | 2    | 2    | 0     | 1    | 0    | 0 | 25     |
|  |    |             |      |        |      | Volume     | 0.67   | 3    | 5    | 3.6   | 6    | 0    | 6.3   | 0    | 0    | 0 | 24.57  |
|  |    |             |      |        | 2000 | OBL        | Number | 1    | 0    | 0     | 0    | 0    | 0     | 0    | 0    | 0 | 1      |
|  |    |             |      |        |      | Volume     | 0.09   | 0    | 0    | 0     | 0    | 0    | 0     | 0    | 0    | 0 | 0.09   |
|  | 41 | UPF Banao   | C-20 | 90.95  | 241  | Deodar     | Number | 9    | 2    | 6     | 11   | 4    | 0     | 0    | 0    | 0 | 32     |
|  |    |             |      |        |      | Volume     | 0.54   | 0.28 | 2.52 | 13.97 | 9.64 | 0    | 0     | 0    | 0    | 0 | 26.95  |
|  |    |             |      |        | 926  | Kail       | Number | 7    | 0    | 0     | 0    | 0    | 1     | 0    | 0    | 0 | 8      |
|  |    |             |      |        |      | Volume     | 0.42   | 0    | 0    | 0     | 0    | 3.54 | 0     | 0    | 0    | 0 | 3.96   |
|  | 42 | UPF Damehli | C-21 | 218.53 | 929  | Chil       | Number | 29   | 18   | 0     | 0    | 0    | 0     | 0    | 0    | 0 | 47     |
|  |    |             |      |        |      | Volume     | 1.74   | 2.52 | 0    | 0     | 0    | 0    | 0     | 0    | 0    | 0 | 4.26   |
|  | 43 | UPF Rajouri | C-22 | 60.24  | 929  | Chil       | Number | 16   | 42   | 10    | 0    | 0    | 0     | 0    | 1    | 0 | 69     |
|  |    |             |      |        |      | Volume     | 0.96   | 5.88 | 4.2  | 0     | 0    | 0    | 0     | 0    | 7.08 | 0 | 18.12  |
|  | 44 | UPF Deothan | C-23 | 84.98  | 241  | Deodar     | Number | 15   | 0    | 0     | 0    | 0    | 0     | 0    | 0    | 0 | 15     |
|  |    |             |      |        |      | Volume     | 0.9    | 0    | 0    | 0     | 0    | 0    | 0     | 0    | 0    | 0 | 0.9    |
|  |    |             |      |        | 929  | Kail       | Number | 26   | 0    | 0     | 0    | 0    | 0     | 0    | 0    | 0 | 26     |
|  |    |             |      |        |      | Volume     | 1.56   | 0    | 0    | 0     | 0    | 0    | 0     | 0    | 0    | 0 | 1.56   |
|  |    |             |      |        | 921  | Spruce     | Number | 7    | 0    | 2     | 3    | 0    | 0     | 0    | 0    | 0 | 12     |
|  |    |             |      |        |      | Volume     | 0.42   | 0    | 0    | 3.4   | 9.33 | 0    | 0     | 0    | 0    | 0 | 13.15  |
|  | 45 | UPF Kharaya | C-24 | 125.45 | 929  | Chil       | Number | 37   | 9    | 5     | 0    | 0    | 0     | 0    | 0    | 0 | 51     |
|  |    |             |      |        |      | Volume     | 2.22   | 1.26 | 2.1  | 0     | 0    | 0    | 0     | 0    | 0    | 0 | 5.58   |
|  | 46 | UPF Amathua | C-25 | 36.42  | 921  | Spruce     | Number | 0    | 0    | 0     | 1    | 0    | 8     | 9    | 1    | 0 | 19     |
|  |    |             |      |        |      | Volume     | 0      | 0    | 0    | 1.7   | 0    | 40.8 | 63.72 | 8.49 | 0    | 0 | 114.71 |
|  | 47 | UPF Pakora  | C-26 | 283.28 | 926  | Kail       | Number | 17   | 6    | 1     | 1    | 1    | 1     | 1    | 1    | 1 | 27     |
|  |    |             |      |        |      | Volume     | 1.02   | 0.84 | 0.42 | 1.27  | 0    | 3.54 | 4.81  | 0    | 0    | 0 | 11.9   |
|  |    |             |      |        | 921  | Spruce     | Number | 9    | 4    | 0     | 0    | 0    | 0     | 2    | 0    | 0 | 15     |
|  |    |             |      |        |      | Volume     | 0.54   | 0.56 | 0    | 0     | 0    | 0    | 14.16 | 0    | 0    | 0 | 15.26  |
|  | 48 | UPF Tharwa  | C-27 | 99.14  | 241  | Deodar     | Number | 10   | 2    | 1     | 2    | 2    | 1     | 0    | 0    | 0 | 18     |
|  |    |             |      |        |      | Volume     | 0.6    | 0.28 | 0.42 | 2.54  | 4.82 | 3.54 | 0     | 0    | 0    | 0 | 12.2   |
|  |    |             |      |        | 926  | Kail       | Number | 1    | 1    | 0     | 0    | 0    | 0     | 0    | 0    | 0 | 2      |
|  |    |             |      |        |      | Volume     | 0.06   | 0.14 | 0    | 0     | 0    | 0    | 0     | 0    | 0    | 0 | 0.2    |
|  |    |             |      |        | 921  | Spruce     | Number | 10   | 0    | 0     | 2    | 0    | 1     | 1    | 1    | 0 | 15     |

|  |    |               |      |        |      |              |        |      |      |      |       |      |      |       |   |   |       |
|--|----|---------------|------|--------|------|--------------|--------|------|------|------|-------|------|------|-------|---|---|-------|
|  |    |               |      |        |      | Volume       | 0.6    | 0    | 0    | 3.4  | 0     | 5.1  | 7.08 | 8.49  | 0 | 0 | 24.67 |
|  | 49 | UPF Kothi     | C-28 | 117.36 | 929  | Chil         | Number | 26   | 1    | 1    | 1     | 1    | 0    | 0     | 1 | 0 | 31    |
|  |    |               |      |        |      | Volume       | 1.56   | 0.14 | 0.42 | 1.27 | 2.41  | 0    | 0    | 6.09  | 0 | 0 | 11.89 |
|  |    |               |      |        | 1047 | Robinia      | Number | 9    | 0    | 0    | 0     | 0    | 0    | 0     | 0 | 0 | 9     |
|  |    |               |      |        |      | Volume       | 0.85   | 0    | 0    | 0    | 0     | 0    | 0    | 0     | 0 | 0 | 0.85  |
|  |    |               |      |        | 2000 | OBL          | Number | 2    | 0    | 0    | 0     | 0    | 0    | 0     | 0 | 0 | 2     |
|  |    |               |      |        |      | Volume       | 0.188  | 0    | 0    | 0    | 0     | 0    | 0    | 0     | 0 | 0 | 0.188 |
|  | 50 | UPF Shill     | C-29 | 283.28 | 929  | Chil         | Number | 2    | 2    | 2    | 2     | 5    | 0    | 0     | 3 | 0 | 16    |
|  |    |               |      |        |      | Volume       | 0.12   | 0.28 | 0.84 | 2.54 | 12.05 | 0    | 0    | 18.27 | 0 | 0 | 34.1  |
|  |    |               |      |        | 1038 | Rhododendron | Number | 12   | 2    | 0    | 0     | 0    | 0    | 0     | 0 | 0 | 14    |
|  |    |               |      |        |      | Volume       | 1.13   | 0.59 | 0    | 0    | 0     | 0    | 0    | 0     | 0 | 0 | 1.72  |
|  |    |               |      |        | 992  | Kainth       | Number | 1    | 0    | 0    | 0     | 0    | 0    | 0     | 0 | 0 | 1     |
|  |    |               |      |        |      | Volume       | 0.09   | 0    | 0    | 0    | 0     | 0    | 0    | 0     | 0 | 0 | 0.09  |
|  |    |               |      |        | 2000 | OBL          | Number | 5    | 0    | 0    | 0     | 0    | 0    | 0     | 0 | 0 | 5     |
|  |    |               |      |        |      | Volume       | 0.47   | 0    | 0    | 0    | 0     | 0    | 0    | 0     | 0 | 0 | 0.47  |
|  | 51 | UPF Nagerh    | C-30 | 198.3  | 241  | Deodar       | Number | 1    | 0    | 0    | 0     | 0    | 0    | 0     | 1 | 0 | 2     |
|  |    |               |      |        |      | Volume       | 0.06   | 0    | 0    | 0    | 0     | 0    | 0    | 6.09  | 0 | 0 | 6.15  |
|  |    |               |      |        | 921  | Spruce       | Number | 1    | 0    | 0    | 0     | 0    | 2    | 0     | 0 | 0 | 3     |
|  |    |               |      |        |      | Volume       | 0.06   | 0    | 0    | 0    | 0     | 10.2 | 0    | 0     | 0 | 0 | 10.26 |
|  |    |               |      |        | 1038 | Rhododendron | Number | 0    | 0    | 0    | 1     | 1    | 0    | 0     | 0 | 0 | 2     |
|  |    |               |      |        |      | Volume       | 0      | 0    | 0    | 1.34 | 2.18  | 0    | 0    | 0     | 0 | 0 | 3.51  |
|  | 52 | UPF Tinder    | C-31 | 246.85 | 926  | Kail         | Number | 5    | 0    | 0    | 0     | 0    | 1    | 1     | 1 | 0 | 8     |
|  |    |               |      |        |      | Volume       | 0.3    | 0    | 0    | 0    | 0     | 3.54 | 4.81 | 6.09  | 0 | 0 | 14.74 |
|  |    |               |      |        | 1038 | Rhododendron | Number | 0    | 2    | 0    | 0     | 0    | 0    | 0     | 0 | 0 | 2     |
|  |    |               |      |        |      | Volume       | 0      | 0.59 | 0    | 0    | 0     | 0    | 0    | 0     | 0 | 0 | 0.59  |
|  | 53 | UPF Jawagi    | C-32 | 20.23  | 926  | Kail         | Number | 0    | 0    | 0    | 0     | 0    | 2    | 1     | 0 | 0 | 3     |
|  |    |               |      |        |      | Volume       | 0      | 0    | 0    | 0    | 0     | 7.08 | 4.81 | 0     | 0 | 0 | 11.89 |
|  |    |               |      |        | 921  | Spruce       | Number | 0    | 9    | 3    | 1     | 0    | 1    | 1     | 0 | 0 | 15    |
|  |    |               |      |        |      | Volume       | 0      | 1.26 | 2.55 | 1.7  | 0     | 5.1  | 7.08 | 0     | 0 | 0 | 17.69 |
|  |    |               |      |        | 992  | Kainth       | Number | 0    | 3    | 0    | 0     | 0    | 0    | 0     | 0 | 0 | 3     |
|  |    |               |      |        |      | Volume       | 0      | 0.88 | 0    | 0    | 0     | 0    | 0    | 0     | 0 | 0 | 0.88  |
|  |    | UPF Keodhar   | C-33 | 113.31 | 1006 | Mohru/Oak    | Number | 6    | 9    | 13   | 8     | 1    | 0    | 0     | 0 | 0 | 37    |
|  |    |               |      |        |      | Volume       | 0.80   | 2.7  | 13   | 14.4 | 3     | 0    | 0    | 0     | 0 | 0 | 33.90 |
|  | 54 | UPF Sarga     | C-34 | 68.8   | 926  | Kail         | Number | 0    | 14   | 12   | 7     | 0    | 0    | 0     | 0 | 0 | 33    |
|  |    |               |      |        |      | Volume       | 0      | 1.96 | 5.04 | 8.89 | 0     | 0    | 0    | 0     | 0 | 0 | 15.89 |
|  | 55 | UPF Neokunder | C-35 | 364.22 | 1010 | Ban/Oak      | Number | 0    | 3    | 5    | 0     | 0    | 0    | 0     | 0 | 0 | 8     |
|  |    |               |      |        |      | Volume       | 0      | 0.94 | 3.29 | 0    | 0     | 0    | 0    | 0     | 0 | 0 | 4.22  |
|  |    |               |      |        | 1038 | Rhododendron | Number | 11   | 13   | 13   | 4     | 0    | 0    | 0     | 0 | 0 | 41    |
|  |    |               |      |        |      | Volume       | 1.03   | 3.82 | 9.20 | 5.34 | 0     | 0    | 0    | 0     | 0 | 0 | 19.40 |
|  | 56 | UPF Kushua    | C-36 | 186.15 | 241  | Deodar       | Number | 10   | 0    | 13   | 1     | 1    | 2    | 1     | 0 | 0 | 28    |
|  |    |               |      |        |      | Volume       | 0.6    | 0    | 5.46 | 1.27 | 2.41  | 7.08 | 4.81 | 0     | 0 | 0 | 21.63 |
|  |    |               |      |        | 926  | Kail         | Number | 8    | 0    | 0    | 1     | 1    | 1    | 0     | 0 | 0 | 11    |
|  |    |               |      |        |      | Volume       | 0.48   | 0    | 0    | 1.27 | 2.41  | 3.54 | 0    | 0     | 0 | 0 | 7.7   |
|  |    |               |      |        | 921  | Spruce       | Number | 10   | 1    | 2    | 0     | 0    | 0    | 0     | 0 | 0 | 13    |
|  |    |               |      |        |      | Volume       | 0.6    | 0.14 | 1.7  | 0    | 0     | 0    | 0    | 0     | 0 | 0 | 2.44  |
|  | 57 | UPF Kater     | C-37 | 97.15  | 926  | Kail         | Number | 1    | 1    | 2    | 0     | 0    | 0    | 0     | 0 | 0 | 4     |



|        |               |      |        |      |                    |        |       |       |        |        |        |        |        |        |        |        |         |
|--------|---------------|------|--------|------|--------------------|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
|        |               |      |        |      |                    | Volume | 0.06  | 0.14  | 0.84   | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 1.04    |
|        |               |      |        | 929  | Chil               | Number | 0     | 1     | 0      | 2      | 3      | 0      | 1      | 0      | 0      | 0      | 7       |
|        |               |      |        |      |                    | Volume | 0     | 0.14  | 0      | 2.54   | 7.23   | 0      | 4.81   | 0      | 0      | 0      | 14.72   |
|        |               |      |        | 1010 | Ban/Oak            | Number | 6     | 2     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 8       |
|        |               |      |        |      |                    | Volume | 0.804 | 0.626 | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 1.43    |
| 58     | UPF Kindla    | C-38 | 305.53 | 241  | Deodar             | Number | 1     | 2     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 3       |
|        |               |      |        |      |                    | Volume | 0.06  | 0.28  | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0.34    |
|        |               |      |        | 929  | Chil               | Number | 5     | 3     | 5      | 3      | 3      | 1      | 1      | 0      | 0      | 0      | 21      |
|        |               |      |        |      |                    | Volume | 0.3   | 0.42  | 2.1    | 3.81   | 7.23   | 3.54   | 4.81   | 0      | 0      | 0      | 22.21   |
| 59     | UPF Kimcha    | C-39 | 655.39 | 926  | Kail               | Number | 1     | 4     | 6      | 8      | 2      | 3      | 0      | 0      | 0      | 0      | 24      |
|        |               |      |        |      |                    | Volume | 0.06  | 0.56  | 2.52   | 10.16  | 4.82   | 10.62  | 0      | 0      | 0      | 0      | 28.74   |
|        |               |      |        | 921  | Spruce             | Number | 0     | 1     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 1       |
|        |               |      |        |      |                    | Volume | 0     | 0.14  | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0.14    |
|        |               |      |        | 1010 | Ban/Oak            | Number | 2     | 0     | 3      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 5       |
|        |               |      |        |      |                    | Volume | 0.27  | 0     | 1.97   | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 2.24    |
| 60     | UPF Nal       | C-40 | 32.37  | 929  | Chil               | Number | 0     | 0     | 0      | 2      | 3      | 0      | 2      | 0      | 0      | 0      | 7       |
|        |               |      |        |      |                    | Volume | 0     | 0     | 0      | 2.54   | 7.23   | 0      | 9.62   | 0      | 0      | 0      | 19.39   |
| 61     | UPF Kharga    | C-41 | 165.92 | 241  | Deodar             | Number | 1     | 4     | 8      | 2      | 0      | 0      | 0      | 0      | 0      | 0      | 15      |
|        |               |      |        |      |                    | Volume | 0.06  | 0.56  | 3.36   | 2.54   | 0      | 0      | 0      | 0      | 0      | 0      | 6.52    |
|        |               |      |        | 926  | Kail               | Number | 1     | 7     | 4      | 1      | 0      | 0      | 0      | 0      | 0      | 0      | 13      |
|        |               |      |        |      |                    | Volume | 0.06  | 0.98  | 1.68   | 1.27   | 0      | 0      | 0      | 0      | 0      | 0      | 3.99    |
|        |               |      |        | 929  | Chil               | Number | 1     | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 1       |
|        |               |      |        |      |                    | Volume | 0.06  | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0.06    |
| 62     | UPF Bhakan    | C-42 | 343.18 | 929  | Chil               | Number | 43    | 4     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 47      |
|        |               |      |        |      |                    | Volume | 2.58  | 0.56  | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 3.14    |
| 63     | UPF Dharmot   | C-43 | 194.24 | 929  | Chil               | Number | 23    | 1     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 24      |
|        |               |      |        |      |                    | Volume | 1.38  | 0.14  | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 1.52    |
| 64     | UPF Gundi     | C-44 | 267.09 | 241  | Deodar             | Number | 21    | 25    | 6      | 1      | 0      | 0      | 0      | 0      | 0      | 0      | 53      |
|        |               |      |        |      |                    | Volume | 1.26  | 3.5   | 2.52   | 1.27   | 0      | 0      | 0      | 0      | 0      | 0      | 8.55    |
|        |               |      |        | 926  | Kail               | Number | 4     | 6     | 3      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 13      |
|        |               |      |        |      |                    | Volume | 0.24  | 0.84  | 1.26   | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 2.34    |
|        |               |      |        | 1010 | Ban/Oak            | Number | 6     | 3     | 2      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 11      |
|        |               |      |        |      |                    | Volume | 0.80  | 0.94  | 1.31   | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 3.06    |
| 65     | UPF Bashlai   | C-45 | 145.68 | 929  | Chil               | Number | 8     | 29    | 10     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 47      |
|        |               |      |        |      |                    | Volume | 0.48  | 4.06  | 4.2    | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 8.74    |
| 66     | UPF Tunan     | C-46 | 326.31 | 926  | Kail               | Number | 1     | 3     | 11     | 2      | 0      | 0      | 0      | 0      | 0      | 0      | 17      |
|        |               |      |        |      |                    | Volume | 0.06  | 0.42  | 4.62   | 2.54   | 0      | 0      | 0      | 0      | 0      | 0      | 7.64    |
| 67     | UPF Sharshaya | C-47 | 244.88 | 433  | Euclayptus         | Number | 35    | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 35      |
|        |               |      |        |      |                    | Volume | 3.29  | 0     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 3.29    |
| 68     | UPF Jalalu    | C-48 | 233.43 | 929  | Chil               | Number | 15    | 12    | 1      | 1      | 0      | 0      | 0      | 0      | 0      | 0      | 29      |
|        |               |      |        |      |                    | Volume | 0.9   | 1.68  | 0.42   | 1.27   | 0      | 0      | 0      | 0      | 0      | 0      | 4.27    |
|        |               |      |        |      | G.Total Arsu Range | Number | 754   | 488   | 312    | 197    | 101    | 78     | 59     | 34     | 12     | 17     | 2052    |
|        |               |      |        |      |                    | Volume | 54.68 | 88.55 | 179.98 | 287.91 | 271.22 | 341.01 | 367.93 | 245.02 | 105.94 | 157.61 | 2099.85 |
| Chowai |               |      |        |      |                    |        |       |       |        |        |        |        |        |        |        |        |         |

|    |                 |            |        |      |                   |        |       |       |       |       |      |      |       |      |      |   |       |
|----|-----------------|------------|--------|------|-------------------|--------|-------|-------|-------|-------|------|------|-------|------|------|---|-------|
| 1  | Bamour Jadari   | 2/22 C-II  | 418.86 | 2    | Fir               | Number | 0     | 0     | 2     | 0     | 1    | 1    | 1     | 0    | 0    | 0 | 5     |
|    |                 |            |        |      |                   | Volume | 0     | 0     | 1.7   | 0     | 3.11 | 5.1  | 7.08  | 0    | 0    | 0 | 16.99 |
|    |                 |            |        | 921  | Spruce            | Number | 0     | 0     | 1     | 0     | 1    | 2    | 0     | 0    | 0    | 0 | 4     |
|    |                 |            |        |      |                   | Volume | 0     | 0     | 0.85  | 0     | 3.11 | 10.2 | 0     | 0    | 0    | 0 | 14.16 |
| 2  | Khanora         | 2/23 Whole | 125.86 | 921  | Spruce            | Number | 0     | 0     | 3     | 1     | 2    | 5    | 2     | 0    | 1    | 0 | 14    |
|    |                 |            |        |      |                   | Volume | 0     | 0     | 2.55  | 1.7   | 6.22 | 25.5 | 14.16 | 0    | 9.34 | 0 | 59.47 |
| 3  | Khaneo          | 2/26 whole | 406.72 | 2    | Fir               | Number | 0     | 0     | 3     | 7     | 0    | 1    | 0     | 0    | 0    | 0 | 11    |
|    |                 |            |        |      |                   | Volume | 0     | 0     | 2.55  | 11.9  | 0    | 5.1  | 0     | 0    | 0    | 0 | 19.55 |
|    |                 |            |        | 1162 | Taxus             | Number | 7     | 2     | 0     | 0     | 0    | 0    | 0     | 0    | 0    | 0 | 9     |
|    |                 |            |        |      |                   | Volume | 0.728 | 0.468 | 0     | 0     | 0    | 0    | 0     | 0    | 0    | 0 | 1.196 |
| 4  | Gohan           | 2/27 whole | 359.37 | 2    | Fir               | Number | 0     | 1     | 1     | 2     | 0    | 0    | 0     | 0    | 0    | 0 | 4     |
|    |                 |            |        |      |                   | Volume | 0     | 0.14  | 0.85  | 3.4   | 0    | 0    | 0     | 0    | 0    | 0 | 4.39  |
|    |                 |            |        | 921  | Spruce            | Number | 0     | 2     | 3     | 1     | 1    | 0    | 0     | 0    | 0    | 0 | 7     |
|    |                 |            |        |      |                   | Volume | 0     | 0.28  | 2.55  | 1.7   | 3.11 | 0    | 0     | 0    | 0    | 0 | 7.64  |
|    |                 |            |        | 2000 | OBL               | Number | 2     | 4     | 6     | 0     | 0    | 0    | 0     | 0    | 0    | 0 | 12    |
|    |                 |            |        |      |                   | Volume | 0.188 | 1.176 | 4.248 | 0     | 0    | 0    | 0     | 0    | 0    | 0 | 5.612 |
| 5  | Jalori          | 2/28 Whole | 922.3  | 1017 | Kharshu/Oak       | Number | 0     | 2     | 0     | 0     | 0    | 0    | 0     | 0    | 0    | 0 | 2     |
|    |                 |            |        |      |                   | Volume | 0     | 0.6   | 0     | 0     | 0    | 0    | 0     | 0    | 0    | 0 | 0.6   |
|    |                 |            |        | 1162 | Taxus             | Number | 0     | 0     | 1     | 1     | 0    | 0    | 0     | 0    | 0    | 0 | 2     |
|    |                 |            |        |      |                   | Volume | 0     | 0     | 0.467 | 0.821 | 0    | 0    | 0     | 0    | 0    | 0 | 1.288 |
| 6  | Sharagashil     | 2/32 C-1   | 56.66  | 2    | Fir               | Number | 0     | 0     | 2     | 0     | 0    | 0    | 0     | 0    | 0    | 0 | 2     |
|    |                 |            |        |      |                   | Volume | 0     | 0     | 1.7   | 0     | 0    | 0    | 0     | 0    | 0    | 0 | 1.7   |
|    |                 |            |        | 921  | Spruce            | Number | 0     | 0     | 0     | 1     | 0    | 1    | 2     | 1    | 0    | 0 | 5     |
|    |                 |            |        |      |                   | Volume | 0     | 0     | 0     | 1.7   | 0    | 5.1  | 14.16 | 8.49 | 0    | 0 | 29.45 |
| 7  | MandriBil Drad  | 2/33 whole | 1181.3 | 921  | Spruce            | Number | 0     | 0     | 0     | 1     | 1    | 2    | 0     | 0    | 0    | 0 | 4     |
|    |                 |            |        |      |                   | Volume | 0     | 0     | 0     | 1.7   | 3.11 | 10.2 | 0     | 0    | 0    | 0 | 15.01 |
|    |                 |            |        | 965  | Birdcherry        | Number | 2     | 3     | 1     | 0     | 0    | 0    | 0     | 0    | 0    | 0 | 6     |
|    |                 |            |        |      |                   | Volume | 0.234 | 0.6   | 0.7   | 0     | 0    | 0    | 0     | 0    | 0    | 0 | 1.534 |
|    |                 |            |        | 38   | Khanor (Aesculus) | Number | 0     | 0     | 1     | 2     | 0    | 0    | 0     | 0    | 0    | 0 | 3     |
|    |                 |            |        |      |                   | Volume | 0     | 0     | 0.708 | 2.672 | 0    | 0    | 0     | 0    | 0    | 0 | 3.38  |
| 8  | Chul (Sample 1) | 2/34 whole | 96.15  | 1017 | Kharshu/Oak       | Number |       | 2     | 4     | 3     | 0    | 0    | 0     | 0    | 0    | 0 | 9     |
|    |                 |            |        |      |                   | Volume | 0     | 0.6   | 4     | 5.4   | 0    | 0    | 0     | 0    | 0    | 0 | 10    |
| 9  | Chul (Sample 2) |            |        | 2    | Fir               | Number | 18    | 1     | 5     | 5     | 3    | 3    | 0     | 0    | 0    | 0 | 35    |
|    |                 |            |        |      |                   | Volume | 1.08  | 0.14  | 4.25  | 8.5   | 9.33 | 15.3 | 0     | 0    | 0    | 0 | 38.6  |
|    |                 |            |        | 921  | Spruce            | Number | 1     | 4     | 2     | 1     | 0    | 4    | 0     | 0    | 0    | 0 | 12    |
|    |                 |            |        |      |                   | Volume | 0.06  | 0.56  | 1.7   | 1.7   | 0    | 20.4 | 0     | 0    | 0    | 0 | 24.42 |
| 10 | UPF Phanauti    | C-89       | 182.11 | 241  | Deodar            | Number | 0     | 4     | 7     | 0     | 0    | 0    | 0     | 0    | 0    | 0 | 11    |
|    |                 |            |        |      |                   | Volume | 0     | 0.56  | 2.94  | 0     | 0    | 0    | 0     | 0    | 0    | 0 | 3.5   |
| 11 | UPF Brino       | C-90       | 80.93  | 926  | Kail              | Number | 2     | 1     | 0     | 0     | 0    | 0    | 0     | 0    | 0    | 0 | 3     |
|    |                 |            |        |      |                   | Volume | 0.12  | 0.14  | 0     | 0     | 0    | 0    | 0     | 0    | 0    | 0 | 0.26  |
|    |                 |            |        | 921  | Spruce            | Number | 1     | 0     | 0     | 0     | 0    | 0    | 0     | 0    | 0    | 0 | 1     |
|    |                 |            |        |      |                   | Volume | 0.06  | 0     | 0     | 0     | 0    | 0    | 0     | 0    | 0    | 0 | 0.06  |

|  |    |                      |       |        |     |        |        |      |      |      |      |      |      |      |       |       |   |       |
|--|----|----------------------|-------|--------|-----|--------|--------|------|------|------|------|------|------|------|-------|-------|---|-------|
|  | 12 | UPF Kashalabag       | C-94  | 68.8   | 921 | Spruce | Number | 0    | 2    | 2    | 0    | 0    | 3    | 0    | 0     | 2     | 0 | 9     |
|  |    |                      |       |        |     |        | Volume | 0    | 0.28 | 1.7  | 0    | 0    | 15.3 | 0    | 0     | 18.68 | 0 | 35.96 |
|  | 13 | UPF Koltha           | C-96  | 79.32  | 241 | Deodar | Number | 2    | 2    | 1    | 0    | 1    | 0    | 0    | 0     | 0     | 0 | 6     |
|  |    |                      |       |        |     |        | Volume | 0.12 | 0.28 | 0.42 | 0    | 2.41 | 0    | 0    | 0     | 0     | 0 | 3.23  |
|  |    |                      |       |        | 926 | Kail   | Number | 0    | 0    | 0    | 0    | 0    | 1    | 0    | 1     | 0     | 0 | 2     |
|  |    |                      |       |        |     |        | Volume | 0    | 0    | 0    | 0    | 0    | 3.54 | 0    | 6.09  | 0     | 0 | 9.63  |
|  |    |                      |       |        | 921 | Spruce | Number | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 0     | 0     | 0 | 1     |
|  |    |                      |       |        |     |        | Volume | 0    | 0    | 0    | 0    | 0    | 0    | 7.08 | 0     | 0     | 0 | 7.08  |
|  | 14 | UPF Chapal           | C-98  | 165.92 | 241 | Deodar | Number | 2    | 6    | 6    | 2    | 0    | 0    | 0    | 0     | 0     | 0 | 16    |
|  |    |                      |       |        |     |        | Volume | 0.12 | 0.84 | 2.52 | 2.54 | 0    | 0    | 0    | 0     | 0     | 0 | 6.02  |
|  |    |                      |       |        | 926 | Kail   | Number | 0    | 2    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0 | 2     |
|  |    |                      |       |        |     |        | Volume | 0    | 0.28 | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0 | 0.28  |
|  | 15 | UPF Marog            | C-99  | 37.23  | 241 | Deodar | Number | 0    | 1    | 2    | 1    | 0    | 0    | 0    | 2     | 0     | 0 | 6     |
|  |    |                      |       |        |     |        | Volume | 0    | 0.14 | 0.84 | 1.27 | 0    | 0    | 0    | 12.18 | 0     | 0 | 14.43 |
|  |    |                      |       |        | 926 | Kail   | Number | 0    | 0    | 0    | 1    | 1    | 1    | 0    | 0     | 0     | 0 | 3     |
|  |    |                      |       |        |     |        | Volume | 0    | 0    | 0    | 1.27 | 2.41 | 3.54 | 0    | 0     | 0     | 0 | 7.22  |
|  | 16 | UPF Samtel           | C-100 | 26.3   | 241 | Deodar | Number | 0    | 2    | 1    | 1    | 0    | 0    | 0    | 0     | 0     | 0 | 4     |
|  |    |                      |       |        |     |        | Volume | 0    | 0.28 | 0.42 | 1.27 | 0    | 0    | 0    | 0     | 0     | 0 | 1.97  |
|  |    |                      |       |        | 926 | Kail   | Number | 0    | 7    | 1    | 0    | 0    | 0    | 0    | 0     | 0     | 0 | 8     |
|  |    |                      |       |        |     |        | Volume | 0    | 0.98 | 0.42 | 0    | 0    | 0    | 0    | 0     | 0     | 0 | 1.4   |
|  | 17 | UPF Shomar (Kashmal) | C-102 | 94.7   | 929 | Chil   | Number | 3    | 5    | 3    | 0    | 0    | 0    | 0    | 0     | 0     | 0 | 11    |
|  |    |                      |       |        |     |        | Volume | 0.18 | 0.7  | 1.26 | 0    | 0    | 0    | 0    | 0     | 0     | 0 | 2.14  |
|  | 18 | UPF Uthkhaner        | C-104 | 82.96  | 241 | Deodar | Number | 3    | 3    | 6    | 1    | 0    | 0    | 0    | 0     | 0     | 0 | 13    |
|  |    |                      |       |        |     |        | Volume | 0.18 | 0.42 | 2.52 | 1.27 | 0    | 0    | 0    | 0     | 0     | 0 | 4.39  |
|  | 19 | UPF Mathuvi          | C-105 | 10.11  | 241 | Deodar | Number | 0    | 2    | 1    | 3    | 1    | 0    | 0    | 0     | 0     | 0 | 7     |
|  |    |                      |       |        |     |        | Volume | 0    | 0.28 | 0.42 | 3.81 | 2.41 | 0    | 0    | 0     | 0     | 0 | 6.92  |
|  |    |                      |       |        | 926 | Kail   | Number | 3    | 0    | 1    | 0    | 1    | 0    | 0    | 0     | 0     | 0 | 5     |
|  |    |                      |       |        |     |        | Volume | 0.18 | 0    | 0.42 | 0    | 2.41 | 0    | 0    | 0     | 0     | 0 | 3.01  |
|  | 20 | UPF Tharvi           | C-106 | 28.32  | 241 | Deodar | Number | 0    | 0    | 0    | 1    | 3    | 2    | 0    | 0     | 0     | 0 | 6     |
|  |    |                      |       |        |     |        | Volume | 0    | 0    | 0    | 1.27 | 7.23 | 7.08 | 0    | 0     | 0     | 0 | 15.58 |
|  | 21 | UPF Chajut           | C-107 | 80.93  | 241 | Deodar | Number | 0    | 1    | 2    | 2    | 3    | 0    | 0    | 0     | 0     | 0 | 8     |
|  |    |                      |       |        |     |        | Volume | 0    | 0.14 | 0.84 | 2.54 | 7.23 | 0    | 0    | 0     | 0     | 0 | 10.75 |
|  | 22 | UPF Khadoran         | C-108 | 80.01  | 926 | Kail   | Number | 1    | 1    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0 | 2     |
|  |    |                      |       |        |     |        | Volume | 0.06 | 0.14 | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0 | 0.2   |
|  |    |                      |       |        | 921 | Spruce | Number | 3    | 3    | 0    | 2    | 1    | 1    | 1    | 1     | 1     |   | 13    |
|  |    |                      |       |        |     |        | Volume | 0.18 | 0.42 | 0    | 3.4  | 3.11 | 5.1  | 7.08 | 8.49  | 9.34  | 0 | 37.12 |
|  | 23 | UPF Shush            | C-109 | 74.86  | 241 | Deodar | Number | 4    | 5    | 3    | 0    | 0    | 0    | 0    | 0     | 0     | 0 | 12    |
|  |    |                      |       |        |     |        | Volume | 0.24 | 0.7  | 1.26 | 0    | 0    | 0    | 0    | 0     | 0     | 0 | 2.2   |
|  |    |                      |       |        | 926 | Kail   | Number | 7    | 5    | 4    | 4    | 0    | 0    | 0    | 0     | 0     | 0 | 20    |
|  |    |                      |       |        |     |        | Volume | 0.42 | 0.7  | 1.68 | 5.08 | 0    | 0    | 0    | 0     | 0     | 0 | 7.88  |
|  |    |                      |       |        | 921 | Spruce | Number | 2    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0 | 2     |
|  |    |                      |       |        |     |        | Volume | 0.12 | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0 | 0.12  |

|  |    |                |       |        |      |              |        |       |       |       |      |       |       |       |      |   |   |       |
|--|----|----------------|-------|--------|------|--------------|--------|-------|-------|-------|------|-------|-------|-------|------|---|---|-------|
|  | 24 | UPF Charinal   | C-110 | 14.16  | 241  | Deodar       | Number | 0     | 1     | 4     | 3    | 3     | 4     | 3     | 0    | 0 |   | 18    |
|  |    |                |       |        |      |              | Volume | 0     | 0.14  | 1.68  | 3.81 | 7.23  | 14.16 | 14.43 | 0    | 0 | 0 | 41.45 |
|  | 25 | UPF Batot      | C-111 | 16.18  | 241  | Deodar       | Number | 9     | 4     | 6     | 3    | 3     | 1     | 1     | 0    | 0 | 0 | 27    |
|  |    |                |       |        |      |              | Volume | 0.54  | 0.56  | 2.52  | 3.81 | 7.23  | 3.54  | 4.81  | 0    | 0 | 0 | 23.01 |
|  | 26 | UPF Pokhari    | C-113 | 72.76  | 921  | Spruce       | Number | 0     | 2     | 1     | 0    | 4     | 3     | 0     | 1    | 0 | 0 | 11    |
|  |    |                |       |        |      |              | Volume | 0     | 0.28  | 0.85  | 0    | 12.44 | 15.3  | 0     | 8.49 | 0 | 0 | 37.36 |
|  | 27 | UPF Khaneri    | C-114 | 52.6   | 921  | Spruce       | Number | 5     | 4     | 3     | 1    | 1     | 2     | 0     | 0    | 0 | 0 | 16    |
|  |    |                |       |        |      |              | Volume | 0.3   | 0.56  | 2.55  | 1.7  | 3.11  | 10.2  | 0     | 0    | 0 | 0 | 18.42 |
|  | 28 | UPF Pharauli   | C-115 | 101.17 | 241  | Deodar       | Number | 8     | 3     | 2     | 0    | 0     | 0     | 0     | 0    | 0 | 0 | 13    |
|  |    |                |       |        |      |              | Volume | 0.48  | 0.42  | 0.84  | 0    | 0     | 0     | 0     | 0    | 0 | 0 | 1.74  |
|  |    |                |       |        | 921  | Spruce       | Number | 2     | 3     | 2     | 0    | 0     | 0     | 0     | 0    | 0 | 0 | 7     |
|  |    |                |       |        |      |              | Volume | 0.12  | 0.42  | 1.7   | 0    | 0     | 0     | 0     | 0    | 0 | 0 | 2.24  |
|  | 29 | UPF Patarna    | C-116 | 52.6   | 241  | Deodar       | Number | 4     | 6     | 3     | 1    | 0     | 1     | 2     | 0    | 0 | 0 | 17    |
|  |    |                |       |        |      |              | Volume | 0.24  | 0.84  | 1.26  | 1.27 | 0     | 3.54  | 9.62  | 0    | 0 | 0 | 16.77 |
|  |    |                |       |        | 1038 | Rhododendron | Number | 2     | 1     | 1     | 0    | 0     | 0     | 0     | 0    | 0 | 0 | 4     |
|  |    |                |       |        |      |              | Volume | 0.188 | 0.294 | 0.708 | 0    | 0     | 0     | 0     | 0    | 0 | 0 | 1.19  |
|  | 30 | UPF Satchan    | C-118 | 101.17 | 926  | Kail         | Number | 0     | 1     | 6     | 2    | 5     | 4     | 1     | 0    | 0 | 0 | 19    |
|  |    |                |       |        |      |              | Volume | 0     | 0.14  | 2.52  | 2.54 | 12.05 | 14.16 | 4.81  | 0    | 0 | 0 | 36.22 |
|  |    |                |       |        | 1010 | Ban/Oak      | Number | 0     | 3     | 0     | 0    | 0     | 0     | 0     | 0    | 0 | 0 | 3     |
|  |    |                |       |        |      |              | Volume | 0     | 0.94  | 0     | 0    | 0     | 0     | 0     | 0    | 0 | 0 | 0.94  |
|  |    |                |       |        | 2000 | OBL          | Number | 0     | 1     | 1     | 0    | 0     | 0     | 0     | 0    | 0 | 0 | 2     |
|  |    |                |       |        |      |              | Volume | 0     | 0.29  | 0.71  | 0    | 0     | 0     | 0     | 0    | 0 | 0 | 1.00  |
|  | 31 | UPF Pataun     | C-119 | 93.08  | 926  | Kail         | Number | 0     | 0     | 0     | 1    | 0     | 2     | 1     | 0    | 0 | 0 | 4     |
|  |    |                |       |        |      |              | Volume | 0     | 0     | 0     | 1.27 | 0     | 7.08  | 4.81  | 0    | 0 | 0 | 13.16 |
|  |    |                |       |        | 1010 | Ban/Oak      | Number | 0     | 1     | 3     | 0    | 0     | 0     | 0     | 0    | 0 | 0 | 4     |
|  |    |                |       |        |      |              | Volume | 0     | 0.31  | 1.97  | 0    | 0     | 0     | 0     | 0    | 0 | 0 | 2.28  |
|  |    |                |       |        | 2000 | OBL          | Number | 0     | 1     | 0     | 0    | 0     | 0     | 0     | 0    | 0 | 0 | 1     |
|  |    |                |       |        |      |              | Volume | 0     | 0.29  | 0     | 0    | 0     | 0     | 0     | 0    | 0 | 0 | 0.29  |
|  | 32 | UPF Kachimatti | C-120 | 113.31 | 929  | Chil         | Number | 6     | 7     | 9     | 2    | 0     | 0     | 0     | 0    | 0 | 0 | 24    |
|  |    |                |       |        |      |              | Volume | 0.36  | 0.98  | 3.78  | 2.54 | 0     | 0     | 0     | 0    | 0 | 0 | 7.66  |
|  | 33 | UPF Panjudarh  | C-121 | 198.2  | 929  | Chil         | Number | 4     | 16    | 7     | 0    | 0     | 0     | 0     | 0    | 0 | 0 | 27    |
|  |    |                |       |        |      |              | Volume | 0.24  | 2.24  | 2.94  | 0    | 0     | 0     | 0     | 0    | 0 | 0 | 5.42  |
|  | 34 | UPF Jaunji     | C-122 | 40.46  | 241  | Deodar       | Number | 2     | 2     | 8     | 4    | 1     | 1     | 0     | 0    | 0 | 0 | 18    |
|  |    |                |       |        |      |              | Volume | 0.12  | 0.28  | 3.36  | 5.08 | 2.41  | 3.54  | 0     | 0    | 0 | 0 | 14.79 |
|  | 35 | UPF Karanu     | C-123 | 89.03  | 929  | Chil         | Number | 9     | 10    | 3     | 5    | 3     | 1     | 0     | 0    | 0 | 0 | 31    |
|  |    |                |       |        |      |              | Volume | 0.54  | 1.4   | 1.26  | 6.35 | 7.23  | 3.54  | 0     | 0    | 0 | 0 | 20.32 |
|  | 36 | UPF Jabo       | C-125 | 22.25  | 241  | Deodar       | Number | 8     | 6     | 2     | 0    | 0     | 0     | 0     | 0    | 0 | 0 | 16    |
|  |    |                |       |        |      |              | Volume | 0.48  | 0.84  | 0.84  | 0    | 0     | 0     | 0     | 0    | 0 | 0 | 2.16  |
|  | 37 | UPF Kutal      | C-126 | 40.46  | 241  | Deodar       | Number | 3     | 2     | 2     | 2    | 0     | 3     | 2     | 0    | 0 | 0 | 14    |
|  |    |                |       |        |      |              | Volume | 0.18  | 0.28  | 0.84  | 2.54 | 0     | 10.62 | 9.62  | 0    | 0 | 0 | 24.08 |
|  | 38 | UPF Sampal     | C-128 | 97.12  | 241  | Deodar       | Number | 0     | 0     | 1     | 0    | 0     | 0     | 0     | 0    | 0 | 0 | 1     |
|  |    |                |       |        |      |              | Volume | 0     | 0     | 0.42  | 0    | 0     | 0     | 0     | 0    | 0 | 0 | 0.42  |
|  |    |                |       |        | 926  | Kail         | Number | 0     | 2     | 0     | 0    | 0     | 0     | 0     | 0    | 0 | 0 | 2     |
|  |    |                |       |        |      |              | Volume | 0     | 0.28  | 0     | 0    | 0     | 0     | 0     | 0    | 0 | 0 | 0.28  |

|  |    |                      |       |        |     |            |        |      |      |      |       |      |      |      |      |   |   |       |
|--|----|----------------------|-------|--------|-----|------------|--------|------|------|------|-------|------|------|------|------|---|---|-------|
|  |    |                      |       |        | 921 | Spruce     | Number | 1    | 2    | 4    | 0     | 2    | 3    | 1    | 0    | 0 | 0 | 13    |
|  |    |                      |       |        |     |            | Volume | 0.06 | 0.28 | 3.4  | 0     | 6.22 | 15.3 | 7.08 | 0    | 0 | 0 | 32.34 |
|  | 39 | UPF Mathvi           | C-129 | 10.11  | 241 | Deodar     | Number | 0    | 0    | 0    | 1     | 1    | 0    | 0    | 0    | 0 | 0 | 2     |
|  |    |                      |       |        |     |            | Volume | 0    | 0    | 0    | 1.27  | 2.41 | 0    | 0    | 0    | 0 | 0 | 3.68  |
|  |    |                      |       |        | 929 | Chil       | Number | 0    | 2    | 3    | 0     | 1    | 0    | 0    | 0    | 0 | 0 | 6     |
|  |    |                      |       |        |     |            | Volume | 0    | 0.28 | 1.26 | 0     | 2.41 | 0    | 0    | 0    | 0 | 0 | 3.95  |
|  | 40 | UPF Ropa             | C-130 | 34.39  | 241 | Deodar     | Number | 0    | 1    | 1    | 1     | 0    | 0    | 0    | 0    | 0 | 0 | 3     |
|  |    |                      |       |        |     |            | Volume | 0    | 0.14 | 0.42 | 1.27  | 0    | 0    | 0    | 0    | 0 | 0 | 1.83  |
|  |    |                      |       |        | 929 | Chil       | Number | 2    | 1    | 0    | 0     | 0    | 0    | 0    | 0    | 0 | 0 | 3     |
|  |    |                      |       |        |     |            | Volume | 0.12 | 0.14 | 0    | 0     | 0    | 0    | 0    | 0    | 0 | 0 | 0.26  |
|  | 41 | UPF Bala             | C-131 | 30.35  | 241 | Deodar     | Number | 0    | 0    | 0    | 1     | 2    | 1    | 1    | 0    | 0 | 0 | 5     |
|  |    |                      |       |        |     |            | Volume | 0    | 0    | 0    | 1.27  | 4.82 | 3.54 | 4.81 | 0    | 0 | 0 | 14.44 |
|  | 42 | UPF Jehra            | C-132 | 18.21  | 241 | Deodar     | Number | 4    | 10   | 0    | 0     | 0    | 0    | 0    | 0    | 0 | 0 | 14    |
|  |    |                      |       |        |     |            | Volume | 0.24 | 1.4  | 0    | 0     | 0    | 0    | 0    | 0    | 0 | 0 | 1.64  |
|  | 43 | UPF Kandi            | C-133 | 18.21  | 926 | Kail       | Number | 1    | 2    | 2    | 1     | 0    | 0    | 0    | 0    | 0 | 0 | 6     |
|  |    |                      |       |        |     |            | Volume | 0.06 | 0.28 | 0.84 | 1.27  | 0    | 0    | 0    | 0    | 0 | 0 | 2.45  |
|  | 44 | UPF Binan (Sample-I) | C-134 | 287.33 | 929 | Chil       | Number | 0    | 0    | 2    |       | 1    | 0    | 0    | 0    | 0 | 0 | 3     |
|  |    |                      |       |        |     |            | Volume | 0    | 0    | 0.84 | 0     | 2.41 | 0    | 0    | 0    | 0 | 0 | 3.25  |
|  |    |                      |       |        | 433 | Eucalyptus | Number | 0    | 2    | 0    | 0     | 0    | 0    | 0    | 0    | 0 | 0 | 2     |
|  |    |                      |       |        |     |            | Volume | 0    | 0.59 | 0    | 0     | 0    | 0    | 0    | 0    | 0 | 0 | 0.59  |
|  | 45 | UPF Binan (Sample-I) |       |        | 929 | Chil       | Number | 1    | 2    | 1    | 2     | 0    | 0    | 0    | 0    | 0 | 0 | 6     |
|  |    |                      |       |        |     |            | Volume | 0.06 | 0.28 | 0.42 | 2.54  | 0    | 0    | 0    | 0    | 0 | 0 | 3.3   |
|  | 46 | UPF Mhul (Mahvi)     | C-135 | 339.93 | 929 | Chil       | Number | 1    | 1    | 2    | 0     | 1    | 0    | 0    | 0    | 0 | 0 | 5     |
|  |    |                      |       |        |     |            | Volume | 0.06 | 0.14 | 0.84 | 0     | 2.41 | 0    | 0    | 0    | 0 | 0 | 3.45  |
|  | 47 | UPF Kutal (Kutar)    | C-136 | 32.37  | 241 | Deodar     | Number | 0    | 0    | 1    | 1     | 0    | 0    | 1    | 1    | 0 | 0 | 4     |
|  |    |                      |       |        |     |            | Volume | 0    | 0    | 0.42 | 1.27  | 0    | 0    | 4.81 | 6.09 | 0 | 0 | 12.59 |
|  | 48 | UPF Rishta           | C-137 | 44.51  | 241 | Deodar     | Number | 0    | 0    | 0    | 0     | 1    | 2    | 0    | 0    | 0 | 0 | 3     |
|  |    |                      |       |        |     |            | Volume | 0    | 0    | 0    | 0     | 2.41 | 7.08 | 0    | 0    | 0 | 0 | 9.49  |
|  | 49 | UPF Poeg(Sample-I)   | C-138 | 169.96 | 929 | Chil       | Number | 1    | 2    | 0    | 1     | 0    | 0    | 0    | 0    | 0 | 0 | 4     |
|  |    |                      |       |        |     |            | Volume | 0.06 | 0.28 | 0    | 1.27  | 0    | 0    | 0    | 0    | 0 | 0 | 1.61  |
|  |    |                      |       |        | 433 | Eucalyptus | Number | 1    | 0    | 2    | 0     | 0    | 0    | 0    | 0    | 0 | 0 | 3     |
|  |    |                      |       |        |     |            | Volume | 0.09 | 0    | 1.42 | 0     | 0    | 0    | 0    | 0    | 0 | 0 | 1.51  |
|  | 50 | UPF Poeg(Sample-II)  |       |        | 929 | Chil       | Number | 0    | 0    | 0    | 0     | 3    | 0    | 0    | 0    | 0 | 0 | 3     |
|  |    |                      |       |        |     |            | Volume | 0    | 0    | 0    | 0     | 7.23 | 0    | 0    | 0    | 0 | 0 | 7.23  |
|  |    |                      |       |        | 433 | Eucalyptus | Number | 1    | 1    | 0    | 0     | 0    | 0    | 0    | 0    | 0 | 0 | 2     |
|  |    |                      |       |        |     |            | Volume | 0.09 | 0.29 | 0    | 0     | 0    | 0    | 0    | 0    | 0 | 0 | 0.39  |
|  | 51 | UPF Roha             | C-139 | 16.18  | 929 | Chil       | Number | 11   | 9    | 1    | 0     | 0    | 0    | 1    | 0    | 0 | 0 | 22    |
|  |    |                      |       |        |     |            | Volume | 0.66 | 1.26 | 0.42 | 0     | 0    | 0    | 4.81 | 0    | 0 | 0 | 7.15  |
|  | 52 | UPF Runa             | C-140 | 28.32  | 929 | Chil       | Number | 8    | 4    | 4    | 12    | 0    | 0    | 0    | 0    | 0 | 0 | 28    |
|  |    |                      |       |        |     |            | Volume | 0.48 | 0.56 | 1.68 | 15.24 | 0    | 0    | 0    | 0    | 0 | 0 | 17.96 |

|  |    |               |       |        |      |         |        |      |       |       |      |      |       |      |      |       |       |       |
|--|----|---------------|-------|--------|------|---------|--------|------|-------|-------|------|------|-------|------|------|-------|-------|-------|
|  | 53 | UPF Mathla    | C-141 | 271.14 | 241  | Deodar  | Number | 0    | 1     | 0     | 0    | 0    | 0     | 0    | 0    | 0     | 0     | 1     |
|  |    |               |       |        |      |         | Volume | 0    | 0.14  | 0     | 0    | 0    | 0     | 0    | 0    | 0     | 0     | 0.14  |
|  |    |               |       |        | 929  | Chil    | Number | 1    | 3     | 2     | 0    | 0    | 0     | 0    | 0    | 0     | 0     | 6     |
|  |    |               |       |        |      |         | Volume | 0.06 | 0.42  | 0.84  | 0    | 0    | 0     | 0    | 0    | 0     | 0     | 1.32  |
|  | 54 | UPF Haripur   | C-142 | 202.34 | 929  | Chil    | Number | 0    | 7     | 5     | 1    | 0    | 0     | 0    | 0    | 0     | 0     | 13    |
|  |    |               |       |        |      |         | Volume | 0    | 0.98  | 2.1   | 1.27 | 0    | 0     | 0    | 0    | 0     | 0     | 4.35  |
|  | 55 | UPF Olwa      | C-143 | 299.46 | 929  | Chil    | Number | 1    | 9     | 9     | 0    | 0    | 0     | 0    | 0    | 0     | 0     | 19    |
|  |    |               |       |        |      |         | Volume | 0.06 | 1.26  | 3.78  | 0    | 0    | 0     | 0    | 0    | 0     | 0     | 5.1   |
|  | 56 | UPF Kater     | C-144 | 287.28 | 929  | Chil    | Number | 11   | 32    | 9     | 0    | 0    | 0     | 0    | 0    | 0     | 0     | 52    |
|  |    |               |       |        |      |         | Volume | 0.66 | 4.48  | 3.78  | 0    | 0    | 0     | 0    | 0    | 0     | 0     | 8.92  |
|  | 57 | UPF Nagali    | C-145 | 28.32  | 241  | Deodar  | Number | 1    | 0     | 0     | 0    | 0    | 0     | 0    | 0    | 0     | 0     | 1     |
|  |    |               |       |        |      |         | Volume | 0.06 | 0     | 0     | 0    | 0    | 0     | 0    | 0    | 0     | 0     | 0.06  |
|  |    |               |       |        | 926  | Kail    | Number | 0    | 2     | 0     | 0    | 0    | 0     | 0    | 0    | 0     | 0     | 2     |
|  |    |               |       |        |      |         | Volume | 0    | 0.28  | 0     | 0    | 0    | 0     | 0    | 0    | 0     | 0     | 0.28  |
|  |    |               |       |        | 1010 | Ban/Oak | Number | 0    | 1     | 1     | 0    | 0    | 0     | 0    | 0    | 0     | 0     | 2     |
|  |    |               |       |        |      |         | Volume | 0    | 0.313 | 0.657 | 0    | 0    | 0     | 0    | 0    | 0     | 0     | 0.97  |
|  | 58 | UPF Kutol     | C-146 | 24.28  | 241  | Deodar  | Number | 0    | 2     | 2     | 2    | 0    | 0     | 0    | 0    | 0     | 0     | 6     |
|  |    |               |       |        |      |         | Volume | 0    | 0.28  | 0.84  | 2.54 | 0    | 0     | 0    | 0    | 0     | 0     | 3.66  |
|  |    |               |       |        | 926  | Kail    | Number | 6    | 8     | 12    | 2    | 0    | 0     | 0    | 0    | 0     | 0     | 28    |
|  |    |               |       |        |      |         | Volume | 0.36 | 1.12  | 5.04  | 2.54 | 0    | 0     | 0    | 0    | 0     | 0     | 9.06  |
|  |    |               |       |        | 1010 | Ban/Oak | Number | 1    | 0     | 0     | 0    | 0    | 0     | 0    | 0    | 0     | 0     | 1     |
|  |    |               |       |        |      |         | Volume | 0.13 | 0     | 0     | 0    | 0    | 0     | 0    | 0    | 0     | 0     | 0.13  |
|  | 59 | UPF Kaura     | C-147 | 123.42 | 929  | Chil    | Number | 0    | 0     | 0     | 0    | 0    | 1     | 0    | 1    | 0     | 0     | 2     |
|  |    |               |       |        |      |         | Volume | 0    | 0     | 0     | 0    | 0    | 3.54  | 0    | 6.09 | 0     | 0     | 9.63  |
|  | 60 | UPF Shagahan  | C-152 | 109.26 | 241  | Deodar  | Number | 0    | 0     | 0     | 2    | 2    | 4     | 1    | 0    | 0     | 0     | 9     |
|  |    |               |       |        |      |         | Volume | 0    | 0     | 0     | 2.54 | 4.82 | 14.16 | 4.81 | 0    | 0     | 0     | 26.33 |
|  | 61 | UPF Kalow     | C-153 | 48.56  | 241  | Deodar  | Number | 0    | 0     | 0     | 1    | 1    | 0     | 0    | 0    | 0     | 0     | 2     |
|  |    |               |       |        |      |         | Volume | 0    | 0     | 0     | 1.27 | 2.41 | 0     | 0    | 0    | 0     | 0     | 3.68  |
|  |    |               |       |        | 929  | Chil    | Number | 0    | 0     | 2     | 2    | 1    | 5     | 0    | 0    | 0     | 0     | 10    |
|  |    |               |       |        |      |         | Volume | 0    | 0     | 0.84  | 2.54 | 2.41 | 17.7  | 0    | 0    | 0     | 0     | 23.49 |
|  | 62 | UPF Bishalani | C-154 | 72.84  | 241  | Deodar  | Number | 0    | 5     | 3     | 3    | 0    | 0     | 0    | 0    | 0     | 0     | 11    |
|  |    |               |       |        |      |         | Volume | 0    | 0.7   | 1.26  | 3.81 | 0    | 0     | 0    | 0    | 0     | 0     | 5.77  |
|  |    |               |       |        | 926  | Kail    | Number | 0    | 5     | 5     | 2    | 0    | 0     | 0    | 0    | 0     | 0     | 12    |
|  |    |               |       |        |      |         | Volume | 0    | 0.7   | 2.1   | 2.54 | 0    | 0     | 0    | 0    | 0     | 0     | 5.34  |
|  |    |               |       |        | 921  | Spruce  | Number | 0    | 0     | 0     | 1    | 0    | 0     | 0    | 0    | 0     | 0     | 1     |
|  |    |               |       |        |      |         | Volume | 0    | 0     | 0     | 1.7  | 0    | 0     | 0    | 0    | 0     | 0     | 1.7   |
|  | 63 | UPF Bahu      | C-155 | 38.44  | 241  | Deodar  | Number | 0    | 1     | 3     | 3    | 0    | 0     | 0    | 0    | 0     | 0     | 7     |
|  |    |               |       |        |      |         | Volume | 0    | 0.14  | 1.26  | 3.81 | 0    | 0     | 0    | 0    | 0     | 0     | 5.21  |
|  | 64 | UPF Shup      | C-156 | 82.96  | 241  | Deodar  | Number | 2    | 0     | 2     | 6    | 2    | 0     | 1    | 0    | 0     | 0     | 13    |
|  |    |               |       |        |      |         | Volume | 0.12 | 0     | 0.84  | 7.62 | 4.82 | 0     | 4.81 | 0    | 0     | 0     | 18.21 |
|  |    |               |       |        | 926  | Kail    | Number | 1    | 0     | 4     | 1    | 0    | 0     | 0    | 0    | 0     | 0     | 6     |
|  |    |               |       |        |      |         | Volume | 0.06 | 0     | 1.68  | 1.27 | 0    | 0     | 0    | 0    | 0     | 0     | 3.01  |
|  |    |               |       |        | 929  | Chil    | Number | 0    | 0     | 1     | 1    | 0    | 0     | 0    | 0    | 0     | 0     | 2     |
|  |    |               |       |        |      |         | Volume | 0    | 0     | 0.42  | 1.27 | 0    | 0     | 0    | 0    | 0     | 0     | 1.69  |
|  | 65 | UPF Kutwa     | C-157 | 184.13 | 241  | Deodar  | Number | 0    | 0     | 0     | 0    | 1    | 5     | 2    | 1    | 2     | 2     | 13    |
|  |    |               |       |        |      |         | Volume | 0    | 0     | 0     | 0    | 2.41 | 17.7  | 9.62 | 6.09 | 14.16 | 14.16 | 64.14 |

|  |    |                |       |        |      |              |        |      |      |      |      |       |      |       |   |       |       |
|--|----|----------------|-------|--------|------|--------------|--------|------|------|------|------|-------|------|-------|---|-------|-------|
|  | 66 | UPF Khadvi     | C-158 | 186.15 | 241  | Deodar       | Number | 1    | 1    | 3    | 1    | 0     | 0    | 0     | 0 | 0     | 6     |
|  |    |                |       |        |      |              | Volume | 0.06 | 0.14 | 1.26 | 1.27 | 0     | 0    | 0     | 0 | 0     | 2.73  |
|  |    |                |       |        | 926  | Kail         | Number | 1    | 1    | 1    | 1    | 0     | 0    | 0     | 0 | 0     | 4     |
|  |    |                |       |        |      |              | Volume | 0.06 | 0.14 | 0.42 | 1.27 | 0     | 0    | 0     | 0 | 0     | 1.89  |
|  | 67 | UPF Tarala     | C-159 | 84.98  | 241  | Deodar       | Number | 3    | 2    | 2    | 1    | 1     | 0    | 0     | 0 | 0     | 9     |
|  |    |                |       |        |      |              | Volume | 0.18 | 0.28 | 0.84 | 1.27 | 2.41  | 0    | 0     | 0 | 0     | 4.98  |
|  | 68 | UPF Jaon       | C-160 | 101.17 | 241  | Deodar       | Number | 2    | 2    | 1    | 1    | 0     | 0    | 0     | 0 | 0     | 6     |
|  |    |                |       |        |      |              | Volume | 0.12 | 0.28 | 0.42 | 1.27 | 0     | 0    | 0     | 0 | 0     | 2.09  |
|  |    |                |       |        | 929  | Chil         | Number | 2    | 2    | 1    | 0    | 0     | 0    | 0     | 0 | 0     | 5     |
|  |    |                |       |        |      |              | Volume | 0.12 | 0.28 | 0.42 | 0    | 0     | 0    | 0     | 0 | 0     | 0.82  |
|  | 69 | UPF Rumaili    | C-161 | 137.59 | 241  | Deodar       | Number | 2    | 2    | 1    | 0    | 0     | 0    | 0     | 0 | 0     | 5     |
|  |    |                |       |        |      |              | Volume | 0.12 | 0.28 | 0.42 | 0    | 0     | 0    | 0     | 0 | 0     | 0.82  |
|  |    |                |       |        | 926  | Kail         | Number | 2    | 2    | 1    | 0    | 0     | 0    | 0     | 0 | 0     | 5     |
|  |    |                |       |        |      |              | Volume | 0.12 | 0.28 | 0.42 | 0    | 0     | 0    | 0     | 0 | 0     | 0.82  |
|  | 70 | UPF Thanach-I  | C-162 | 279.23 | 926  | Kail         | Number | 0    | 2    | 4    | 0    | 0     | 0    | 0     | 0 | 0     | 6     |
|  |    |                |       |        |      |              | Volume | 0    | 0.28 | 1.68 | 0    | 0     | 0    | 0     | 0 | 0     | 1.96  |
|  |    |                |       |        | 921  | Spruce       | Number | 0    | 2    | 3    | 1    | 2     | 0    | 0     | 0 | 0     | 8     |
|  |    |                |       |        |      |              | Volume | 0    | 0.28 | 2.55 | 1.7  | 6.22  | 0    | 0     | 0 | 0     | 10.75 |
|  |    |                |       |        | 1038 | Rhododendron | Number | 0    | 0    | 1    | 0    | 0     | 0    | 0     | 0 | 0     | 1     |
|  |    |                |       |        |      |              | Volume | 0    | 0    | 0.71 | 0    | 0     | 0    | 0     | 0 | 0     | 0.71  |
|  | 71 | UPF Thanach-II | C-163 | 70     | 241  | Deodar       | Number | 0    | 2    | 0    | 0    | 0     | 0    | 0     | 0 | 0     | 2     |
|  |    |                |       |        |      |              | Volume | 0    | 0.28 | 0    | 0    | 0     | 0    | 0     | 0 | 0     | 0.28  |
|  |    |                |       |        | 926  | Kail         | Number | 0    | 0    | 1    | 1    | 0     | 0    | 0     | 0 | 0     | 2     |
|  |    |                |       |        |      |              | Volume | 0    | 0    | 0.42 | 1.27 | 0     | 0    | 0     | 0 | 0     | 1.69  |
|  |    |                |       |        | 921  | Spruce       | Number | 0    | 6    | 3    | 2    | 0     | 1    | 0     | 0 | 0     | 12    |
|  |    |                |       |        |      |              | Volume | 0    | 0.84 | 2.55 | 3.4  | 0     | 5.1  | 0     | 0 | 0     | 11.89 |
|  | 72 | UPF Khanag     | C-167 | 115.33 | 241  | Deodar       | Number | 0    | 0    | 0    | 4    | 5     | 1    | 3     | 0 | 3     | 16    |
|  |    |                |       |        |      |              | Volume | 0    | 0    | 0    | 5.08 | 12.05 | 3.54 | 14.43 | 0 | 21.24 | 56.34 |
|  | 73 | UPF Dhar       | C-168 | 182.1  | 241  | Deodar       | Number | 0    | 0    | 0    | 4    | 3     | 0    | 0     | 0 | 1     | 8     |
|  |    |                |       |        |      |              | Volume | 0    | 0    | 0    | 5.08 | 7.23  | 0    | 0     | 0 | 7.08  | 19.39 |
|  |    |                |       |        | 926  | Kail         | Number | 0    | 3    | 0    | 0    | 4     | 0    | 0     | 0 | 0     | 7     |
|  |    |                |       |        |      |              | Volume | 0    | 0.42 | 0    | 0    | 9.64  | 0    | 0     | 0 | 0     | 10.06 |
|  | 74 | UPF Ropa       | C-169 | 153.78 | 241  | Deodar       | Number | 0    | 1    | 1    | 0    | 0     | 0    | 0     | 0 | 0     | 2     |
|  |    |                |       |        |      |              | Volume | 0    | 0.14 | 0.42 | 0    | 0     | 0    | 0     | 0 | 0     | 0.56  |
|  |    |                |       |        | 926  | Kail         | Number | 0    | 1    | 1    | 1    | 1     | 0    | 0     | 0 | 0     | 4     |
|  |    |                |       |        |      |              | Volume | 0    | 0.14 | 0.42 | 1.27 | 2.41  | 0    | 0     | 0 | 0     | 4.24  |
|  |    |                |       |        | 921  | Spruce       | Number | 0    | 1    | 1    | 0    | 0     | 0    | 0     | 0 | 0     | 2     |
|  |    |                |       |        |      |              | Volume | 0    | 0.06 | 0.14 | 0    | 0     | 0    | 0     | 0 | 0     | 0.2   |
|  | 75 | UPF Gagni      | C-171 | 91.05  | 241  | Deodar       | Number | 0    | 3    | 3    | 0    | 0     | 0    | 0     | 0 | 0     | 6     |
|  |    |                |       |        |      |              | Volume | 0    | 0.42 | 1.26 | 0    | 0     | 0    | 0     | 0 | 0     | 1.68  |
|  |    |                |       |        | 2    | Fir          | Number | 0    | 2    | 3    | 0    | 0     | 0    | 0     | 0 | 0     | 5     |
|  |    |                |       |        |      |              | Volume | 0    | 0.12 | 0.42 | 0    | 0     | 0    | 0     | 0 | 0     | 0.54  |
|  | 76 | UPF Shagagi    | C-172 | 188.17 | 926  | Kail         | Number | 0    | 1    | 1    | 2    | 0     | 0    | 0     | 0 | 0     | 4     |
|  |    |                |       |        |      |              | Volume | 0    | 0.14 | 0.42 | 2.54 | 0     | 0    | 0     | 0 | 0     | 3.1   |
|  |    |                |       |        | 921  | Spruce       | Number | 0    | 3    | 2    | 4    | 5     | 0    | 0     | 0 | 0     | 14    |
|  |    |                |       |        |      |              | Volume | 0    | 0.42 | 1.7  | 6.8  | 15.55 | 0    | 0     | 0 | 0     | 24.47 |

|        |    |                       |            |        |      |                           |               |              |              |               |               |               |               |               |              |              |              |                |
|--------|----|-----------------------|------------|--------|------|---------------------------|---------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|--------------|--------------|--------------|----------------|
|        | 77 | UPF Ghadari           | C-173      | 137.6  | 241  | Deodar                    | Number        | 0            | 1            | 1             | 1             | 1             | 0             | 0             | 0            | 0            | 0            | 4              |
|        |    |                       |            |        |      |                           | Volume        | 0            | 0.14         | 0.42          | 1.27          | 2.41          | 0             | 0             | 0            | 0            | 0            | 4.24           |
|        |    |                       |            |        | 926  | Kail                      | Number        | 0            | 2            | 0             | 0             | 0             | 0             | 0             | 0            | 0            | 0            | 2              |
|        |    |                       |            |        |      |                           | Volume        | 0            | 0.28         | 0             | 0             | 0             | 0             | 0             | 0            | 0            | 0            | 0.28           |
|        |    |                       |            |        | 929  | Chil                      | Number        | 0            | 1            | 5             | 3             | 1             | 0             | 0             | 0            | 0            | 0            | 10             |
|        |    |                       |            |        |      |                           | Volume        | 0            | 0.14         | 2.1           | 3.81          | 2.41          | 0             | 0             | 0            | 0            | 0            | 8.46           |
|        | 78 | UPF Bhalal (Sample 1) | C-174      | 80.93  | 929  | Chil                      | Number        | 14           | 1            | 1             | 0             | 0             | 2             | 0             | 0            | 0            | 0            | 18             |
|        |    |                       |            |        |      |                           | Volume        | 0.84         | 0.14         | 0.42          | 0             | 0             | 7.08          | 0             | 0            | 0            | 0            | 8.48           |
|        | 79 | UPF Bhalal (Sample 2) |            |        | 929  | Chil                      | Number        | 5            | 5            | 3             | 1             | 0             | 0             | 0             | 0            | 0            | 0            | 14             |
|        |    |                       |            |        |      |                           | Volume        | 0.3          | 0.7          | 1.26          | 1.27          | 0             | 0             | 0             | 0            | 0            | 0            | 3.53           |
|        | 80 | UPF Kutua             | C-176      | 147.71 | 241  | Deodar                    | Number        | 11           | 5            | 0             | 0             | 0             | 0             | 0             | 0            | 0            | 0            | 16             |
|        |    |                       |            |        |      |                           | Volume        | 0.66         | 0.7          | 0             | 0             | 0             | 0             | 0             | 0            | 0            | 0            | 1.36           |
|        |    |                       |            |        | 926  | Kail                      | Number        | 3            | 0            | 0             | 0             | 0             | 0             | 0             | 0            | 0            | 0            | 3              |
|        |    |                       |            |        |      |                           | Volume        | 0.18         | 0            | 0             | 0             | 0             | 0             | 0             | 0            | 0            | 0            | 0.18           |
|        | 81 | UPF Shilti            | C-177      | 313.63 | 241  | Deodar                    | Number        |              | 1            | 7             | 2             | 1             | 1             | 0             | 0            | 0            | 0            | 12             |
|        |    |                       |            |        |      |                           | Volume        | 0            | 0.14         | 2.94          | 2.54          | 2.41          | 3.54          | 0             | 0            | 0            | 0            | 11.57          |
|        |    |                       |            |        | 926  | Kail                      | Number        | 0            | 0            | 1             | 2             | 0             | 0             | 0             | 0            | 0            | 0            | 3              |
|        |    |                       |            |        |      |                           | Volume        | 0            | 0            | 0.42          | 2.54          | 0             | 0             | 0             | 0            | 0            | 0            | 2.96           |
|        |    |                       |            |        | 929  | Chil                      | Number        | 0            | 0            | 1             | 0             | 0             | 0             | 0             | 0            | 0            | 0            | 1              |
|        |    |                       |            |        |      |                           | Volume        | 0            | 0            | 0.42          | 0             | 0             | 0             | 0             | 0            | 0            | 0            | 0.42           |
|        | 82 | UPF Tepel             | C-178      | 22.25  | 926  | Kail                      | Number        | 2            | 3            | 2             | 0             | 0             | 0             | 0             | 0            | 0            | 0            | 7              |
|        |    |                       |            |        |      |                           | Volume        | 0.12         | 0.42         | 0.84          | 0             | 0             | 0             | 0             | 0            | 0            | 0            | 1.38           |
|        |    |                       |            |        | 921  | Spruce                    | Number        | 0            | 4            | 4             | 0             | 0             | 0             | 0             | 0            | 0            | 0            | 8              |
|        |    |                       |            |        |      |                           | Volume        | 0            | 0.56         | 3.4           | 0             | 0             | 0             | 0             | 0            | 0            | 0            | 3.96           |
|        |    |                       |            |        | 1010 | Ban/Oak                   | Number        | 0            | 1            | 0             | 0             | 0             | 0             | 0             | 0            | 0            | 0            | 1              |
|        |    |                       |            |        |      |                           | Volume        | 0            | 0.31         | 0             | 0             | 0             | 0             | 0             | 0            | 0            | 0            | 0.31           |
|        |    |                       |            |        |      | <b>Total Chowai Range</b> | <b>Number</b> | <b>229</b>   | <b>327</b>   | <b>281</b>    | <b>146</b>    | <b>83</b>     | <b>75</b>     | <b>28</b>     | <b>9</b>     | <b>10</b>    | <b>2</b>     | <b>1190</b>    |
|        |    |                       |            |        |      |                           | <b>Volume</b> | <b>14.44</b> | <b>49.13</b> | <b>143.73</b> | <b>199.59</b> | <b>216.83</b> | <b>315.42</b> | <b>152.84</b> | <b>62.01</b> | <b>79.84</b> | <b>14.16</b> | <b>1247.99</b> |
| Nither | 1  | Lohar                 | 1/8 C-II   | 295.42 | 926  | Kail                      | Number        | 5            | 7            | 0             | 0             | 0             | 0             | 0             | 0            | 0            | 0            | 12             |
|        |    |                       |            |        |      |                           | Volume        | 0.3          | 0.98         | 0             | 0             | 0             | 0             | 0             | 0            | 0            | 0            | 1.28           |
|        |    |                       |            |        | 929  | Chil                      | Number        | 1            | 0            | 0             | 0             | 0             | 0             | 0             | 0            | 0            | 1            | 2              |
|        |    |                       |            |        |      |                           | Volume        | 0.06         | 0            | 0             | 0             | 0             | 0             | 0             | 0            | 0            | 7.08         | 7.14           |
|        |    |                       |            |        | 1010 | Ban/Oak                   | Number        | 1            | 1            | 0             | 0             | 0             | 0             | 0             | 0            | 0            | 0            | 2              |
|        |    |                       |            |        |      |                           | Volume        | 0.13         | 0.31         | 0             | 0             | 0             | 0             | 0             | 0            | 0            | 0            | 0.45           |
|        | 2  | Bijuri                | 1/9 C-II   | 271.14 | 926  | Kail                      | Number        | 6            | 16           | 7             | 1             | 0             | 0             | 0             | 0            | 0            | 1            | 31             |
|        |    |                       |            |        |      |                           | Volume        | 0.36         | 2.24         | 2.94          | 1.27          | 0             | 0             | 0             | 0            | 0            | 7.08         | 13.89          |
|        |    |                       |            |        | 1010 | Ban/Oak                   | Number        | 0            | 1            | 1             | 2             | 2             | 0             | 0             | 0            | 0            | 0            | 6              |
|        |    |                       |            |        |      |                           | Volume        | 0            | 0.313        | 0.657         | 2.402         | 3.948         | 0             | 0             | 0            | 0            | 0            | 7.32           |
|        | 3  | Shilla                | 1/24 C-III | 45.32  | 2    | Fir                       | Number        | 0            | 0            | 0             | 0             | 0             | 0             | 0             | 0            | 0            | 1            | 1              |
|        |    |                       |            |        |      |                           | Volume        | 0            | 0            | 0             | 0             | 0             | 0             | 0             | 0            | 0            | 9.34         | 9.34           |
|        |    |                       |            |        | 921  | Spruce                    | Number        | 0            | 0            | 0             | 0             | 0             | 0             | 0             | 1            | 0            | 5            | 6              |
|        |    |                       |            |        |      |                           | Volume        | 0            | 0            | 0             | 0             | 0             | 0             | 0             | 8.49         | 0            | 46.7         | 55.19          |
|        | 4  | UPF Tihni             | C-50       | 299.46 | 929  | Chil                      | Number        | 2            | 3            | 6             | 1             | 0             | 0             | 0             | 0            | 0            | 0            | 12             |
|        |    |                       |            |        |      |                           | Volume        | 0.12         | 0.42         | 2.52          | 1.27          | 0             | 0             | 0             | 0            | 0            | 0            | 4.33           |



|    |                           |      |        |      |            |        |      |      |      |      |      |      |      |   |   |   |       |
|----|---------------------------|------|--------|------|------------|--------|------|------|------|------|------|------|------|---|---|---|-------|
| 5  | UPF Shush<br>(Sample 1)   | C-51 | 477.53 |      | -          | Number | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0 | 0 | 0 | 0     |
|    |                           |      |        |      |            | Volume |      |      |      |      |      |      |      |   |   |   | 0     |
| 6  | UPF Shush<br>(Sample 2)   |      |        | 433  | Euclyptus  | Number | 0    | 1    | 0    | 0    | 0    | 0    | 0    | 0 | 0 | 0 | 1     |
|    |                           |      |        |      |            | Volume | 0    | 0.29 | 0    | 0    | 0    | 0    | 0    | 0 | 0 | 0 | 0.29  |
| 7  | UPF Gauchoa<br>(Sample 1) | C-52 | 341.94 | 926  | Kail       | Number | 0    | 0    | 1    | 0    | 0    | 0    | 0    | 0 | 0 | 0 | 1     |
|    |                           |      |        |      |            | Volume | 0    | 0    | 0.42 | 0    | 0    | 0    | 0    | 0 | 0 | 0 | 0.42  |
|    |                           |      |        | 929  | Chil       | Number | 0    | 3    | 1    | 0    | 0    | 0    | 0    | 0 | 0 | 0 | 4     |
|    |                           |      |        |      |            | Volume | 0    | 0.42 | 0.42 | 0    | 0    | 0    | 0    | 0 | 0 | 0 | 0.84  |
| 8  | UPF Gauchoa<br>(Sample 2) |      |        | 929  | Chil       | Number | 2    | 7    | 1    | 0    | 0    | 0    | 0    | 0 | 0 | 0 | 10    |
|    |                           |      |        |      |            | Volume | 0.12 | 0.98 | 0.42 | 0    | 0    | 0    | 0    | 0 | 0 | 0 | 1.52  |
|    |                           |      |        | 433  | Euclayptus | Number | 3    | 4    | 0    | 0    | 0    | 0    | 0    | 0 | 0 | 0 | 7     |
|    |                           |      |        |      |            | Volume | 0.28 | 1.18 | 0    | 0    | 0    | 0    | 0    | 0 | 0 | 0 | 1.46  |
| 9  | UPF Kathoa                | C-53 | 299.46 | 433  | Euclayptus | Number | 0    | 2    | 0    | 0    | 0    | 0    | 0    | 0 | 0 | 0 | 2     |
|    |                           |      |        |      |            | Volume | 0    | 0.59 | 0    | 0    | 0    | 0    | 0    | 0 | 0 | 0 | 0.59  |
|    |                           |      |        | 2000 | OBL        | Number | 5    | 2    | 0    | 0    | 0    | 0    | 0    | 0 | 0 | 0 | 7     |
|    |                           |      |        |      |            | Volume | 0.47 | 0.59 | 0    | 0    | 0    | 0    | 0    | 0 | 0 | 0 | 1.06  |
| 10 | UPF Bai                   | C-54 | 145.68 | 2000 | OBL        | Number | 3    | 0    | 0    | 0    | 0    | 0    | 0    | 0 | 0 | 0 | 3     |
|    |                           |      |        |      |            | Volume | 0.28 | 0    | 0    | 0    | 0    | 0    | 0    | 0 | 0 | 0 | 0.28  |
| 11 | UPF Soidhar               | C-55 | 137.59 | 929  | Chil       | Number | 27   | 4    | 0    | 0    | 0    | 0    | 0    | 0 | 0 | 0 | 31    |
|    |                           |      |        |      |            | Volume | 1.62 | 0.56 | 0    | 0    | 0    | 0    | 0    | 0 | 0 | 0 | 2.18  |
| 12 | UPF Sarli                 | C-56 | 242.81 | 929  | Chil       | Number | 46   | 12   | 8    | 0    | 0    | 0    | 1    | 0 | 0 | 0 | 67    |
|    |                           |      |        |      |            | Volume | 2.76 | 1.68 | 3.36 | 0    | 0    | 0    | 4.81 | 0 | 0 | 0 | 12.61 |
| 13 | UPF Lunalot               | C-57 | 404.68 | 241  | Deodar     | Number | 0    | 1    | 0    | 0    | 0    | 0    | 0    | 0 | 0 | 0 | 1     |
|    |                           |      |        |      |            | Volume | 0    | 0.14 | 0    | 0    | 0    | 0    | 0    | 0 | 0 | 0 | 0.14  |
|    |                           |      |        | 926  | Kail       | Number | 10   | 4    | 2    | 0    | 1    | 0    | 0    | 0 | 0 | 0 | 17    |
|    |                           |      |        |      |            | Volume | 0.6  | 0.56 | 0.84 | 0    | 2.41 | 0    | 0    | 0 | 0 | 0 | 4.41  |
| 14 | UPF Tandi                 | C-60 | 165.92 | 241  | Deodar     | Number | 6    | 1    | 0    | 0    | 0    | 0    | 0    | 0 | 0 | 0 | 7     |
|    |                           |      |        |      |            | Volume | 0.36 | 0.14 | 0    | 0    | 0    | 0    | 0    | 0 | 0 | 0 | 0.5   |
|    |                           |      |        | 926  | Kail       | Number | 42   | 4    | 1    | 0    | 3    | 0    | 0    | 0 | 0 | 0 | 50    |
|    |                           |      |        |      |            | Volume | 2.52 | 0.56 | 0.42 | 0    | 7.23 | 0    | 0    | 0 | 0 | 0 | 10.73 |
| 15 | UPF Khani                 | C-62 | 165.92 | 926  | Chil       | Number | 27   | 17   | 10   | 2    | 0    | 1    | 0    | 0 | 0 | 0 | 57    |
|    |                           |      |        |      |            | Volume | 1.62 | 2.38 | 4.2  | 2.54 | 0    | 3.54 | 0    | 0 | 0 | 0 | 14.28 |
| 16 | Nore                      | C-63 | 343.98 | 926  | Chil       | Number | 7    | 1    | 2    | 0    | 0    | 0    | 0    | 0 | 0 | 0 | 10    |
|    |                           |      |        |      |            | Volume | 0.42 | 0.14 | 0.84 | 0    | 0    | 0    | 0    | 0 | 0 | 0 | 1.4   |
| 17 | UPF Kalog                 | C-77 | 154.1  | 926  | Chil       | Number | 44   | 34   | 11   | 0    | 0    | 0    | 0    | 0 | 0 | 0 | 89    |
|    |                           |      |        |      |            | Volume | 2.64 | 4.76 | 4.62 | 0    | 0    | 0    | 0    | 0 | 0 | 0 | 12.02 |
| 18 | UPF Nither                | C-84 | 218.58 | 926  | Chil       | Number | 15   | 36   | 1    | 0    | 0    | 0    | 0    | 0 | 0 | 0 | 52    |
|    |                           |      |        |      |            | Volume | 0.9  | 5.04 | 0.42 | 0    | 0    | 0    | 0    | 0 | 0 | 0 | 6.36  |
|    |                           |      |        | 433  | Euclayptus | Number | 1    | 0    | 0    | 0    | 0    | 0    | 0    | 0 | 0 | 0 | 1     |
|    |                           |      |        |      |            | Volume | 0.09 | 0    | 0    | 0    | 0    | 0    | 0    | 0 | 0 | 0 | 0.09  |
| 19 | UPF Shah                  | C-88 | 334.71 | 241  | Deodar     | Number | 75   | 61   | 6    | 0    | 0    | 0    | 0    | 0 | 0 | 0 | 142   |
|    |                           |      |        |      |            | Volume | 4.5  | 8.54 | 2.52 | 0    | 0    | 0    | 0    | 0 | 0 | 0 | 15.56 |

|  |  |  |  |  |     |                           |               |               |               |                |                |                |                |                |                |                |                |                 |
|--|--|--|--|--|-----|---------------------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|
|  |  |  |  |  | 926 | Kail                      | Number        | 1             | 0             | 0              | 1              | 0              | 0              | 0              | 0              | 0              | 0              | 2               |
|  |  |  |  |  |     |                           | Volume        | 0.06          | 0             | 0              | 1.27           | 0              | 0              | 0              | 0              | 0              | 0              | 1.33            |
|  |  |  |  |  | 921 | Spruce                    | Number        | 0             | 0             | 1              | 0              | 1              |                | 0              | 0              | 0              | 0              | 2               |
|  |  |  |  |  |     |                           | Volume        | 0             | 0             | 0.85           | 0              | 3.11           | 0              | 0              | 0              | 0              | 0              | 3.96            |
|  |  |  |  |  |     | <b>Total Nither Range</b> | <b>Number</b> | <b>329</b>    | <b>222</b>    | <b>59</b>      | <b>7</b>       | <b>7</b>       | <b>1</b>       | <b>1</b>       | <b>1</b>       | <b>0</b>       | <b>8</b>       | <b>635</b>      |
|  |  |  |  |  |     |                           | <b>Volume</b> | <b>20.22</b>  | <b>32.81</b>  | <b>25.45</b>   | <b>8.75</b>    | <b>16.70</b>   | <b>3.54</b>    | <b>4.81</b>    | <b>8.49</b>    | <b>0.00</b>    | <b>70.20</b>   | <b>190.97</b>   |
|  |  |  |  |  |     | <b>G.Total PWC</b>        | <b>Number</b> | <b>1312</b>   | <b>1037</b>   | <b>652</b>     | <b>350</b>     | <b>191</b>     | <b>154</b>     | <b>88</b>      | <b>44</b>      | <b>22</b>      | <b>27</b>      | <b>3877</b>     |
|  |  |  |  |  |     |                           | <b>Volume</b> | <b>89.341</b> | <b>170.49</b> | <b>349.155</b> | <b>496.253</b> | <b>504.747</b> | <b>659.972</b> | <b>525.575</b> | <b>315.516</b> | <b>185.783</b> | <b>241.974</b> | <b>3538.807</b> |

| PB-I (Area in Ha. = 731.20)                                                                                 |              |                |                     |                |                |                 |                 |                 |                 |                 |                 |                 |                |                  |
|-------------------------------------------------------------------------------------------------------------|--------------|----------------|---------------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|------------------|
| Species wise No. and Volume in m3. ( Estimated / Extrapolated growing stock ) for Deo / Kail Working Circle |              |                |                     |                |                |                 |                 |                 |                 |                 |                 |                 |                |                  |
| Sr. No.                                                                                                     | Species Code | Species        |                     | 10-20 V        | 20-30 IV       | 30-40 III       | 40-50 IIA       | 50-60 IIB       | 60-70 IA        | 70-80 IB        | 80-90 IC        | 90-100 ID       | 100 over IE    | Total            |
| 1                                                                                                           | 241          | Deodar         | Number              | 19355          | 36130          | 49464           | 35700           | 26667           | 9893            | 3011            | 430             | 3011            | 860            | 184520           |
|                                                                                                             |              |                | Volume in m3        | 1138.09        | 5058.18        | 20774.68        | 45338.70        | 64268.18        | 35007.28        | 14482.06        | 2619.42         | 21316.63        | 6090.47        | 216093.69        |
| 2                                                                                                           | 926          | Kail           | Number              | 11613          | 5592           | 1720            | 3871            | 5161            | 5161            | 2581            | 860             | 1720            | 0              | 38280            |
|                                                                                                             |              |                | Volume in m3        | 696.79         | 782.81         | 722.60          | 4916.24         | 12439.00        | 18271.40        | 12413.20        | 5238.83         | 12180.93        | 0.00           | 67661.81         |
| 3                                                                                                           | 2            | Chil           | Number              | 0              | 3011           | 6022            | 2581            | 430             | 430             | 0               | 0               | 0               | 0              | 12473            |
|                                                                                                             |              |                | Volume in m4        | 0              | 421.52         | 2529.09         | 3277.50         | 1036.58         | 1522.62         | 0.00            | 0.00            | 0.00            | 0.00           | 8787.30          |
|                                                                                                             |              | Fir            | Number              | 0              | 860            | 0               | 430             | 430             | 2151            | 0               | 0               | 0               | 0              | 3871             |
|                                                                                                             |              |                | Volume in m3        | 0              | 120.43         | 0.00            | 731.20          | 1337.67         | 10968.00        | 0.00            | 0.00            | 0.00            | 0.00           | 13157.30         |
| 4                                                                                                           | 921          | Spruce         | Number              | 5592           | 10753          | 9893            | 3871            | 3011            | 1720            | 430             | 430             | 860             | 0              | 36560            |
|                                                                                                             |              |                | Volume in m3        | 335.49         | 1505.41        | 8408.80         | 6581.23         | 9363.66         | 7918.47         | 3045.23         | 3651.70         | 8034.60         | 0.00           | 48844.59         |
| 5                                                                                                           |              | Taxus          | Number              | 0              | 1290           | 4301            | 0               | 0               | 0               | 0               | 0               | 0               | 0              | 5592             |
|                                                                                                             |              |                | Volume in m4        | 0.00           | 301.94         | 2008.65         | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 0.00           | 2310.59          |
| 6                                                                                                           | 965          | Birdcherry     | Number              | 860            | 0              | 430             | 0               | 430             | 0               | 0               | 0               | 0               | 0              | 1720             |
|                                                                                                             |              |                | Volume in m3        | 67.96          | 0.00           | 301.08          | 0.00            | 946.26          | 0.00            | 0.00            | 0.00            | 0.00            | 0.00           | 1315.30          |
| 6                                                                                                           |              | Maple          | Number              | 0              | 860            | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 0              | 860              |
|                                                                                                             |              |                | Volume in m4        | 0.00           | 0.00           | 602.16          | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 0.00           | 602.16           |
| 7                                                                                                           | 38           | Aescules       | Number              | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 0              | 0                |
|                                                                                                             |              |                | Volume in m3        | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 0              | 0                |
| 8                                                                                                           |              | Mohru Oak      | Number              | 430            | 1290           | 1290            | 1290            | 0               | 860             | 430             | 430             | 0               | 0              | 6022             |
|                                                                                                             |              |                | Volume in m3        | 57.64          | 387.11         | 1290.35         | 2322.64         | 0.00            | 3957.08         | 2709.74         | 3440.94         | 0.00            | 0.00           | 14165.49         |
| 9                                                                                                           | 1038         | Rhododendron   | Number              | 0              | 860            | 1290            | 0               | 0               | 0               | 0               | 0               | 0               | 0              | 2151             |
|                                                                                                             |              |                | Volume in m3        | 0              | 252.91         | 913.57          | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 0.00           | 1166.48          |
|                                                                                                             | 2000         | Other B/L      | Number              | 0              | 0              | 430             | 0               | 0               | 0               | 0               | 0               | 0               | 0              | 430              |
|                                                                                                             |              |                | Volume in m3        | 0              | 0.00           | 304.52          | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 0.00           | 304.52           |
|                                                                                                             |              | <b>G Total</b> | <b>Number</b>       | <b>37850</b>   | <b>59786</b>   | <b>75701</b>    | <b>47743</b>    | <b>36130</b>    | <b>20216</b>    | <b>6452</b>     | <b>2151</b>     | <b>5592</b>     | <b>860</b>     | <b>292480</b>    |
|                                                                                                             |              |                | <b>Volume in m3</b> | <b>2295.97</b> | <b>8830.32</b> | <b>37855.51</b> | <b>63167.51</b> | <b>89391.35</b> | <b>77644.84</b> | <b>32650.23</b> | <b>14950.89</b> | <b>41532.16</b> | <b>6090.47</b> | <b>374409.24</b> |
| PB-II (Area in Ha. = 757.34)                                                                                |              |                |                     |                |                |                 |                 |                 |                 |                 |                 |                 |                |                  |
| Sr. No                                                                                                      | Species Cod  | Species        |                     | 10-20 V        | 20-30          | 30-40           | 40-50           | 50-60           | 60-70           | 70-80           | 80-90           | 90-100 II       | 100 over       | Total            |
| 1                                                                                                           | 241          | Deodar         | Number              | 31015          | 25605          | 40031           | 33179           | 21278           | 10819           | 7573            | 2885            | 1082            | 0              | 173467           |
|                                                                                                             |              |                | Volume in m3        | 1860.89        | 3584.74        | 16812.95        | 42136.96        | 51279.13        | 38299.77        | 37246.70        | 17570.29        | 7659.95         | 0.00           | 216451.38        |
| 2                                                                                                           | 926          | Kail           | Number              | 10098          | 8295           | 5049            | 3967            | 2885            | 2164            | 361             | 361             | 0               | 0              | 33179            |
|                                                                                                             |              |                | Volume in m3        | 605.87         | 1161.25        | 2120.55         | 5038.11         | 6953.10         | 7659.95         | 1734.67         | 2196.29         | 0.00            | 0.00           | 27469.80         |
|                                                                                                             | 929          | Chil           | Number              | 361            | 0              | 721             | 721             | 0               | 0               | 0               | 0               | 0               | 0              | 1803             |
|                                                                                                             |              |                | Volume in m4        | 21.64          | 0.00           | 302.94          | 916.02          | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 0.00           | 1240.60          |
| 3                                                                                                           | 2            | Fir            | Number              | 361            | 1082           | 721             | 361             | 0               | 0               | 0               | 0               | 0               | 0              | 2524             |
|                                                                                                             |              |                | Volume in m3        | 22             | 151            | 613             | 613             | 0               | 0               | 0               | 0               | 0               | 0              | 1399             |
| 4                                                                                                           | 921          | Spruce         | Number              | 2885           | 2524           | 2524            | 1082            | 1082            | 1443            | 1082            | 0               | 0               | 0              | 12622            |
|                                                                                                             |              |                | Volume in m2        | 173.11         | 353.43         | 2145.80         | 2347.75         | 4082.42         | 8071.08         | 8168.45         | 0.00            | 0.00            | 0.00           | 25342.04         |
| 4                                                                                                           | 1162         | Taxux          | Number              | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 0              | 0                |
|                                                                                                             |              |                | Volume in m4        | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 0              | 0                |
| 6                                                                                                           | 965          | Birdcherry     | Number              | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 0              | 0                |

|                                     |              |                |                     |                |                |                 |                 |                 |                 |                 |                 |                |             |                  |
|-------------------------------------|--------------|----------------|---------------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|-------------|------------------|
|                                     |              |                | Volume in m3        | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0               | 0              | 0           | 0                |
| 6                                   | 19           | Maple          | Number              | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0               | 0              | 0           | 0                |
|                                     |              |                | Volume in m3        | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0               | 0              | 0           | 0                |
| 7                                   | 38           | Aescules       | Number              | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0               | 0              | 0           | 0                |
|                                     |              |                | Volume in m3        | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0               | 0              | 0           | 0                |
|                                     | 1010         | Ban oak        | Number              | 1803           | 0              | 721             | 0               | 0               | 0               | 0               | 0               | 0              | 0           | 2524             |
|                                     |              |                | Volume in m3        | 241.63         | 0.00           | 473.88          | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 0.00           | 0.00        | 715.51           |
|                                     | 1017         | Kharsu Oak     | Number              | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0               | 0              | 0           | 0                |
|                                     |              |                | Volume in m3        | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0               | 0              | 0           | 0                |
|                                     | 1006         | Mohru Oak      | Number              | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0               | 0              | 0           | 0                |
| 8                                   |              |                | Volume in m3        | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0               | 0              | 0           | 0                |
| 9                                   | 1038         | Rhododendron   | Number              | 1443           | 0              | 0               | 0               | 0               | 0               | 0               | 0               | 0              | 0           | 1443             |
|                                     |              |                | Volume in m3        | 135.60         | 0.00           | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 0.00           | 0.00        | 135.60           |
|                                     | 2000         | Other B/L      | Number              | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0               | 0              | 0           | 0                |
|                                     |              |                | Volume in m3        | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0               | 0              | 0           | 0                |
|                                     |              | <b>G.Total</b> | <b>Number</b>       | <b>47965</b>   | <b>37506</b>   | <b>49768</b>    | <b>39310</b>    | <b>25245</b>    | <b>14426</b>    | <b>9016</b>     | <b>3246</b>     | <b>1082</b>    | <b>0</b>    | <b>227563</b>    |
|                                     |              |                | <b>Volume in m4</b> | <b>3060.37</b> | <b>5250.89</b> | <b>22469.20</b> | <b>51051.93</b> | <b>62314.66</b> | <b>54030.80</b> | <b>47149.82</b> | <b>19766.57</b> | <b>7659.95</b> | <b>0.00</b> | <b>272754.20</b> |
| <b>PB-III (Area in Ha. =374.31)</b> |              |                |                     |                |                |                 |                 |                 |                 |                 |                 |                |             |                  |
| Sr. No                              | Species Code | Species        |                     | 10-20 V        | 20-30 IV       | 30-40 III       | 40-50 IIA       | 50-60 IIB       | 60-70 IA        | 70-80 IB        | 80-90 IC        | 90-100 ID      | 100 over IE | Total            |
| 1                                   | 241          | Deodar         | Number              | 18300          | 6239           | 12477           | 13309           | 13309           | 5823            | 1248            | 1664            | 0              | 0           | 72367            |
|                                     |              |                | Volume in m3        | 1097.98        | 873.39         | 5240.34         | 16902.18        | 32074.21        | 20612.00        | 6001.44         | 10131.32        | 0.00           | 0.00        | 92932.86         |
| 2                                   | 926          | Kail           | Number              | 4991           | 2495           | 2495            | 1664            | 2495            | 416             | 0               | 0               | 0              | 0           | 14557            |
|                                     |              |                | Volume in m3        | 299.45         | 349.36         | 1048.07         | 2112.77         | 6013.91         | 1472.29         | 0.00            | 0.00            | 0.00           | 0.00        | 11295.84         |
| 3                                   | 929          | Chil           | Number              | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0               | 0              | 0           | 0                |
|                                     |              |                | Volume in m4        | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0               | 0              | 0           | 0                |
| 4                                   | 2            | Fir            | Number              | 0              | 832            | 0               | 0               | 0               | 416             | 0               | 0               | 0              | 416         | 1664             |
|                                     |              |                | Volume in m3        | 0.00           | 116.45         | 0.00            | 0.00            | 0.00            | 2121.09         | 0.00            | 0.00            | 0.00           | 3884.51     | 6122.05          |
| 5                                   | 921          | Spruce         | Number              | 3327           | 1664           | 832             | 0               | 416             | 0               | 1248            | 0               | 0              | 832         | 8318             |
|                                     |              |                | Volume in m2        | 199.63         | 232.90         | 707.03          | 0.00            | 1293.45         | 0.00            | 8833.72         | 0.00            | 0.00           | 7769.01     | 19035.74         |
| 6                                   | 1162         | Taxus          | Number              | 832            | 0              | 832             | 0               | 0               | 832             | 416             | 0               | 0              | 0           | 2911             |
|                                     |              |                | Volume in m4        | 86.51          | 0.00           | 388.45          | 0.00            | 0.00            | 1617.85         | 1137.07         | 0.00            | 0.00           | 0.00        | 3229.88          |
| 7                                   | 965          | Birdcherry     | Number              | 0              | 0              | 1664            | 0               | 0               | 0               | 0               | 0               | 0              | 0           | 1664             |
|                                     |              |                | Volume in m3        | 0              | 0              | 1164.52         | 0               | 0               | 0               | 0               | 0               | 0              | 0           | 1164.52          |
| 8                                   | 651          | Maple          | Number              | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0               | 0              | 0           | 0                |
|                                     |              |                | Volume in m3        | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0               | 0              | 0           | 0                |
| 9                                   | 651          | Walnut         | Number              | 0              | 0              | 0               | 0               | 416             | 416             | 832             | 416             | 0              | 416         | 2495             |
|                                     |              |                | Volume in m4        | 0              | 0              | 0               | 0               | 1039.75         | 1580.42         | 4242.18         | 2994.48         | 0              | 4699.67     | 14556.5          |
| 10                                  | 38           | Aescules       | Number              | 0              | 0              | 0               | 415.9           | 0               | 0               | 0               | 0               | 0              | 0           | 416              |
|                                     |              |                | Volume in m3        | 0.00           | 0.00           | 0.00            | 555.64          | 0.00            | 0.00            | 0.00            | 0.00            | 0.00           | 0.00        | 555.64           |
| 11                                  | 1010         | Ban oak        | Number              | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0               | 0              | 0           | 0                |
|                                     |              |                | Volume in m3        | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0               | 0              | 0           | 0                |
| 12                                  | 1017         | Kharsu Oak     | Number              | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0               | 0              | 0           | 0                |
|                                     |              |                | Volume in m3        | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0               | 0              | 0           | 0                |
| 13                                  | 1006         | Mohru Oak      | Number              | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0               | 0              | 0           | 0                |
|                                     |              |                | Volume in m3        | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0               | 0              | 0           | 0                |

|                              |             |              |              |         |         |         |          |          |          |          |          |          |          |              |           |
|------------------------------|-------------|--------------|--------------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|--------------|-----------|
| 14                           | 1038        | Rhododendron | Number       | 0       | 416     | 0       | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 416          |           |
|                              |             |              | Volume in m3 | 0       | 122.27  | 0.00    | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 122.27       |           |
| 15                           | 2000        | Other B/L    | Number       | 0       | 416     | 0       | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 416          |           |
|                              |             |              | Volume in m3 | 0       | 122.27  | 0.00    | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 0.00     | 122.27       |           |
|                              |             | G.Total      | Number       | 27449   | 12061   | 18300   | 15388    | 16636    | 7902     | 3743     | 2080     | 0        | 1664     | 105223       |           |
|                              |             |              | Volume in m3 | 1683.56 | 1816.65 | 8548.41 | 19570.59 | 40421.32 | 27403.65 | 20214.40 | 13125.80 | 0.00     | 16353.19 | 149137.58    |           |
| PB-IV (Area in Ha. = 319.28) |             |              |              |         |         |         |          |          |          |          |          |          |          |              |           |
| Sr. No                       | Species Cod | Species      |              | 10-20   | V       | 20-30   | 30-40    | 40-50    | 50-60    | 60-70    | 70-80    | 80-90    | 90-100   | III 100 over | Total     |
| 1                            | 241         | Deodar       | Number       | 11859   |         | 10035   | 20069    | 22806    | 17332    | 14140    | 2737     | 1824     | 1824     | 0            | 102626    |
|                              |             |              | Volume in m3 | 711.54  |         | 1404.83 | 8428.99  | 28963.26 | 41770.95 | 46824.69 | 15357.37 | 11110.94 | 12917.16 | 0.00         | 167489.73 |
| 2                            | 926         | Kail         | Number       | 0       |         | 0       | 456      | 0        | 456      | 456      | 456      | 456      | 0        | 0            | 2281      |
|                              |             |              | Volume in m3 | 0.00    |         | 0.00    | 191.57   | 0.00     | 1099.24  | 1614.64  | 2193.91  | 2777.74  | 0.00     | 0.00         | 7877.09   |
| 3                            | 929         | Chil         | Number       | 0       |         | 0       | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0            | 0         |
|                              |             |              | Volume in m4 | 0       |         | 0       | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0            | 0         |
| 4                            | 2           | Fir          | Number       | 0       |         | 456.1   | 0.0      | 456.1    | 0.0      | 1368.3   | 0.0      | 0.0      | 456.1    | 0.0          | 2736.7    |
|                              |             |              | Volume in m3 | 0       |         | 63.86   | 0.00     | 775.39   | 0.00     | 6978.55  | 0.00     | 0.00     | 4260.11  | 0.00         | 12077.91  |
| 5                            | 921         | Spruce       | Number       | 0       |         | 456     | 2281     | 1368     | 456      | 2737     | 1824     | 0        | 456      | 0            | 9578      |
|                              |             |              | Volume in m2 | 0       |         | 63.86   | 1938.49  | 2326.18  | 1418.52  | 13957.10 | 12917.16 | 0.00     | 4260.11  | 0.00         | 36881.40  |
| 6                            | 1162        | Taxus        | Number       | 0       |         | 0       | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0            | 0         |
|                              |             |              | Volume in m4 | 0       |         | 0       | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0            | 0         |
| 7                            | 965         | Birdcherry   | Number       | 0       |         | 0       | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0            | 0         |
|                              |             |              | Volume in m3 | 0       |         | 0       | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0            | 0         |
| 8                            | 19          | Maple        | Number       | 0       |         | 0       | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0            | 0         |
|                              |             |              | Volume in m3 | 0       |         | 0       | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0            | 0         |
| 9                            | 651         | Walnut       | Number       | 0       |         | 0       | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0            | 0         |
|                              |             |              | Volume in m4 | 0       |         | 0       | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0            | 0         |
| 10                           | 38          | Aescules     | Number       | 0       |         | 0       | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0            | 0         |
|                              |             |              | Volume in m3 | 0       |         | 0       | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0            | 0         |
| 11                           | 1010        | Ban oak      | Number       | 0       |         | 0       | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0            | 0         |
|                              |             |              | Volume in m3 | 0       |         | 0       | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0            | 0         |
| 12                           | 1017        | Kharshu Oak  | Number       | 0       |         | 0       | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0            | 0         |
|                              |             |              | Volume in m3 | 0       |         | 0       | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0            | 0         |
| 13                           | 1006        | Mohru Oak    | Number       | 0       |         | 0       | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0            | 0         |
|                              |             |              | Volume in m3 | 0       |         | 0       | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0            | 0         |
| 14                           | 1038        | Rhododendron | Number       | 0       |         | 0       | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0            | 0         |
|                              |             |              | Volume in m3 | 0       |         | 0       | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0            | 0         |
| 15                           | 2000        | Other B/L    | Number       | 0       |         | 0       | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0            | 0         |
|                              |             |              | Volume in m3 | 0       |         | 0       | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0            | 0         |
|                              |             | G.Total      | Number       | 11859   |         | 10947   | 22806    | 24630    | 18245    | 18701    | 5017     | 2281     | 2737     | 0            | 117221    |
|                              |             |              | Volume in m3 | 711.54  |         | 1532.54 | 10559.05 | 32064.83 | 44288.70 | 69374.98 | 30468.43 | 13888.68 | 21437.37 | 0.00         | 224326.13 |
|                              |             | G.Total DKWC | Number       | 125124  |         | 120301  | 166574   | 127071   | 96255    | 61244    | 24228    | 9756     | 9410     | 2524         | 742487    |
|                              |             |              | Volume in m4 | 7751    |         | 17430   | 79432    | 165855   | 236416   | 228454   | 130483   | 61732    | 70629    | 22444        | 1020627   |

| PB-I (Area in Ha. =506.27)                                                                                  |              |              |              |         |          |           |           |           |          |          |          |           |             |           |
|-------------------------------------------------------------------------------------------------------------|--------------|--------------|--------------|---------|----------|-----------|-----------|-----------|----------|----------|----------|-----------|-------------|-----------|
| Species wise No. and Volume in m3. ( Estimated / Extrapolated growing stock ) for Fir/Spruce Working Circle |              |              |              |         |          |           |           |           |          |          |          |           |             |           |
| Sr. No.                                                                                                     | Species Code | Species      |              | 10-20 V | 20-30 IV | 30-40 III | 40-50 IIA | 50-60 IIB | 60-70 IA | 70-80 IB | 80-90 IC | 90-100 ID | 100 over IE | Total     |
| 1                                                                                                           | 241          | Deodar       | Number       | 1841    | 920      | 1381      | 1841      | 460       | 920      | 460      | 0        | 0         | 0           | 7824      |
|                                                                                                             |              |              | Volume in m3 | 110.46  | 128.87   | 579.91    | 2338.05   | 1109.19   | 3258.54  | 2213.78  | 0.00     | 0.00      | 0.00        | 9738.79   |
| 2                                                                                                           | 926          | Kail         | Number       | 1841    | 7824     | 4142      | 920       | 1381      | 1381     | 0        | 920      | 0         | 0           | 18410     |
|                                                                                                             |              |              | Volume in m3 | 110.46  | 1095.38  | 1739.73   | 1169.02   | 3327.57   | 4887.81  | 0.00     | 5605.79  | 0.00      | 0.00        | 17935.77  |
|                                                                                                             | 929          | Chil         | Number       | 0       | 0        | 0         | 0         | 0         | 0        | 0        | 0        | 0         | 0           | 0         |
|                                                                                                             |              |              | Volume in m3 | 0       | 0        | 0         | 0         | 0         | 0        | 0        | 0        | 0         | 0           | 0         |
| 3                                                                                                           | 2            | Fir          | Number       | 920     | 3682     | 5063      | 4602      | 3222      | 5063     | 460      | 1841     | 460       | 920         | 26234     |
|                                                                                                             |              |              | Volume in m3 | 55.23   | 515.47   | 4303.30   | 7824.17   | 10019.54  | 25819.77 | 3258.54  | 15629.94 | 4298.69   | 8597.39     | 80322.04  |
| 4                                                                                                           | 921          | Spruce       | Number       | 2761    | 6904     | 7364      | 10586     | 4602      | 7364     | 3222     | 920      | 1841      | 460         | 46025     |
|                                                                                                             |              |              | Volume in m2 | 165.69  | 966.52   | 6259.34   | 17995.60  | 14313.63  | 37556.03 | 22809.76 | 7814.97  | 17194.77  | 4298.69     | 129375.00 |
| 4                                                                                                           | 1162         | Taxus        | Number       | 1841    | 3222     | 0         | 0         | 0         | 0        | 0        | 0        | 0         | 0           | 5063      |
|                                                                                                             |              |              | Volume in m3 | 191.46  | 753.88   | 0.00      | 0.00      | 0.00      | 0.00     | 0.00     | 0.00     | 0.00      | 0.00        | 945.34    |
| 6                                                                                                           | 965          | Birdcherry   | Number       | 0       | 0        | 0         | 0         | 0         | 0        | 0        | 0        | 0         | 0           | 0         |
|                                                                                                             |              |              | Volume in m3 | 0       | 0        | 0         | 0         | 0         | 0        | 0        | 0        | 0         | 0           | 0         |
| 6                                                                                                           | 19           | Maple        | Number       | 0       | 0        | 0         | 0         | 0         | 0        | 0        | 0        | 0         | 0           | 0         |
|                                                                                                             |              |              | Volume in m3 | 0       | 0        | 0         | 0         | 0         | 0        | 0        | 0        | 0         | 0           | 0         |
|                                                                                                             | 651          | Walnut       | Number       | 0       | 0        | 0         | 0         | 0         | 0        | 0        | 0        | 0         | 0           | 0         |
|                                                                                                             |              |              | Volume in m3 | 0       | 0        | 0         | 0         | 0         | 0        | 0        | 0        | 0         | 0           | 0         |
| 7                                                                                                           | 38           | Aescules     | Number       | 0       | 0        | 0         | 0         | 0         | 0        | 0        | 0        | 0         | 0           | 0         |
|                                                                                                             |              |              | Volume in m3 | 0       | 0        | 0         | 0         | 0         | 0        | 0        | 0        | 0         | 0           | 0         |
|                                                                                                             | 1010         | Ban oak      | Number       | 0       | 0        | 0         | 0         | 0         | 0        | 0        | 0        | 0         | 0           | 0         |
|                                                                                                             |              |              | Volume in m3 | 0       | 0        | 0         | 0         | 0         | 0        | 0        | 0        | 0         | 0           | 0         |
|                                                                                                             | 1017         | Kharshu Oak  | Number       | 920     | 920      | 0         | 0         | 460       | 460      | 460      | 0        | 0         | 0           | 3222      |
|                                                                                                             |              |              | Volume in m3 | 123.35  | 0.00     | 0.00      | 0.00      | 1380.74   | 2117.13  | 2899.55  | 0.00     | 0.00      | 0.00        | 6520.76   |
|                                                                                                             | 1006         | Mohru Oak    | Number       | 0       | 0        | 0         | 0         | 0         | 0        | 0        | 0        | 0         | 0           | 0         |
|                                                                                                             |              |              | Volume in m3 | 0       | 0        | 0         | 0         | 0         | 0        | 0        | 0        | 0         | 0           | 0         |
| 8                                                                                                           | 1038         | Rhododendron | Number       | 0       | 0        | 0         | 0         | 0         | 0        | 0        | 0        | 0         | 0           | 0         |
|                                                                                                             |              |              | Volume in m3 | 0       | 0        | 0         | 0         | 0         | 0        | 0        | 0        | 0         | 0           | 0         |
| 9                                                                                                           | 2000         | Other B/L    | Number       | 0       | 0        | 0         | 0         | 0         | 0        | 0        | 0        | 0         | 0           | 0         |
|                                                                                                             |              |              | Volume in m3 | 0       | 0        | 0         | 0         | 0         | 0        | 0        | 0        | 0         | 0           | 0         |
|                                                                                                             |              | G.Total      | Number       | 10125   | 23473    | 17950     | 17950     | 10125     | 15188    | 4602     | 3682     | 2301      | 1381        | 106777    |
|                                                                                                             |              |              | Volume in m3 | 756.64  | 3460.13  | 12882.27  | 29326.84  | 30150.68  | 73639.27 | 31181.63 | 29050.69 | 21493.46  | 12896.08    | 244837.69 |
| PB-II(Area in Ha. =536.20)                                                                                  |              |              |              |         |          |           |           |           |          |          |          |           |             |           |
| Sr. No                                                                                                      | Species Code | Species      |              | 10-20 V | 20-30 IV | 30-40 III | 40-50 IIA | 50-60 IIB | 60-70 IA | 70-80 IB | 80-90 IC | 90-100 ID | 100 over IE | Total     |
| 1                                                                                                           | 241          | Deodar       | Number       | 6256    | 1787     | 2681      | 894       | 894       | 894      | 1787     | 0        | 1787      | 0           | 16980     |
|                                                                                                             |              |              | Volume in m3 | 375.34  | 250.23   | 1126.02   | 1134.96   | 2153.74   | 3163.58  | 8597.07  | 0.00     | 12654.32  | 0.00        | 29455.25  |
| 2                                                                                                           | 926          | Kail         | Number       | 0       | 894      | 2681      | 1787      | 0         | 0        | 0        | 0        | 0         | 0           | 5362      |

|                                      |              |                | Volume in m3        | 0.00           | 125.11         | 1126.02         | 2269.91         | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 3521.05          |
|--------------------------------------|--------------|----------------|---------------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|
|                                      | 929          | Chil           | Number              | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 0                |
|                                      |              |                | Volume in m3        | 0.00           | 0.00           | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 0.00             |
| 3                                    | 2            | Fir            | Number              | 894            | 1787           | 6256            | 6256            | 7149            | 5362            | 2681            | 1787            | 0               | 1787            | 33959            |
|                                      |              |                | Volume in m3        | 125.11         | 250.23         | 5317.32         | 10634.63        | 22234.43        | 27346.20        | 18981.48        | 15174.46        | 0.00            | 16693.69        | 116757.55        |
| 4                                    | 921          | Spruce         | Number              | 0              | 7149           | 15192           | 8043            | 12511           | 6256            | 4468            | 0               | 1787            | 894             | 56301            |
|                                      |              |                | Volume in m2        | 0.00           | 1000.91        | 15192.33        | 13673.10        | 47802.23        | 35442.82        | 36676.08        | 0.00            | 16693.69        | 8346.85         | 174828.01        |
| 4                                    | 1162         | Taxus          | Number              | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 0                |
|                                      |              |                | Volume in m4        | 0.00           | 0.00           | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 0.00             |
| 6                                    | 965          | Birdcherry     | Number              | 0              | 0              | 0               | 894             | 0               | 0               | 0               | 0               | 0               | 0               | 894              |
|                                      |              |                | Volume in m3        | 0.00           | 0.00           | 0.00            | 1161.77         | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 1161.77          |
| 6                                    | 19           | Maple          | Number              | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 0                |
|                                      |              |                | Volume in m3        | 0.00           | 0.00           | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 0.00             |
|                                      | 651          | Walnut         | Number              | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 0                |
|                                      |              |                | Volume in m3        | 0.00           | 0.00           | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 0.00             |
| 7                                    | 38           | Aescules       | Number              | 0              | 0              | 0               | 894             | 0               | 894             | 0               | 0               | 894             | 0               | 2681             |
|                                      |              |                | Volume in m3        | 0.00           | 0.00           | 0.00            | 1193.94         | 0.00            | 2888.33         | 0.00            | 0.00            | 6861.57         | 0.00            | 10943.84         |
|                                      | 1010         | Ban oak        | Number              | 1787           | 2681           | 2681            | 0               | 894             | 0               | 0               | 0               | 0               | 0               | 8043             |
|                                      |              |                | Volume in m3        | 559.44         | 1761.42        | 3219.88         | 0.00            | 2677.43         | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 8218.16          |
|                                      | 1017         | Kharshu Oak    | Number              | 0              | 1787           | 1787            | 894             | 894             | 0               | 0               | 0               | 0               | 0               | 5362             |
|                                      |              |                | Volume in m3        | 0.00           | 536.20         | 1787.33         | 1608.60         | 2681.00         | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 6613.13          |
|                                      | 1006         | Mohru Oak      | Number              | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 0                |
|                                      |              |                | Volume in m3        | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 0                |
| 8                                    | 1038         | Rhododendron   | Number              | 894            | 894            | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 1787             |
|                                      |              |                | Volume in m3        | 262.74         | 632.72         | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 895.45           |
| 9                                    | 2000         | Other B/L      | Number              | 1787           | 0              | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 1787             |
|                                      |              |                | Volume in m3        | 168.01         | 0.00           | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 168.01           |
|                                      |              | <b>G.Total</b> | <b>Number</b>       | <b>11618</b>   | <b>16980</b>   | <b>31278</b>    | <b>19661</b>    | <b>22342</b>    | <b>13405</b>    | <b>8937</b>     | <b>1787</b>     | <b>4468</b>     | <b>2681</b>     | <b>133156</b>    |
|                                      |              |                | <b>Volume in m3</b> | <b>1490.64</b> | <b>4556.81</b> | <b>27768.90</b> | <b>31676.91</b> | <b>77548.82</b> | <b>68840.93</b> | <b>64254.63</b> | <b>15174.46</b> | <b>36209.59</b> | <b>25040.54</b> | <b>352562.22</b> |
| <b>PB-III (Area in Ha. =1444.33)</b> |              |                |                     |                |                |                 |                 |                 |                 |                 |                 |                 |                 |                  |
| Sr. No                               | Species Code | Species        |                     | 10-20<br>V     | 20-30<br>IV    | 30-40<br>III    | 40-50<br>IIA    | 50-60<br>IIB    | 60-70<br>IA     | 70-80<br>IB     | 80-90<br>IC     | 90-100<br>ID    | 100 over<br>IE  | Total            |
| 1                                    | 241          | Deodar         | Number              | 1444           | 7222           | 7222            | 1444            | 4333            | 4333            | 2889            | 0               | 0               | 1444            | 30331            |
|                                      |              |                | Volume in m3        | 86.66          | 1011.03        | 3033.09         | 1834.30         | 10442.51        | 15338.78        | 13894.45        | 0.00            | 0.00            | 10225.86        | 55866.68         |
| 2                                    | 926          | Kail           | Number              | 1444           | 0              | 0               | 1444            | 0               | 0               | 0               | 0               | 0               | 0               | 2889             |
|                                      |              |                | Volume in m3        | 86.66          | 0.00           | 0.00            | 1834.30         | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 1920.96          |
|                                      | 929          | Chil           | Number              | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 0                |
|                                      |              |                | Volume in m4        | 0.00           | 0.00           | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 0.00             |
| 3                                    | 2            | Fir            | Number              | 1444           | 7222           | 8666            | 17332           | 12999           | 8666            | 12999           | 8666            | 2889            | 0               | 80882            |
|                                      |              |                | Volume in m3        | 86.66          | 1011.03        | 7366.08         | 29464.33        | 40426.80        | 44196.50        | 92032.71        | 73574.17        | 26980.08        | 0.00            | 315138.36        |
| 4                                    | 921          | Spruce         | Number              | 40441          | 31775          | 44774           | 47663           | 38997           | 40441           | 20221           | 14443           | 5777            | 2889            | 287422           |
|                                      |              |                | Volume in m2        | 2426.47        | 4448.54        | 38058.10        | 81026.91        | 121280.39       | 206250.32       | 140302.22       | 120587.11       | 52732.49        | 23715.90        | 790828.45        |
| 4                                    | 1162         | Taxus          | Number              | 0              | 4333           | 8666            | 4333            | 0               | 0               | 0               | 0               | 0               | 0               | 17332            |
|                                      |              |                | Volume in m4        | 0.00           | 1013.92        | 4047.01         | 3557.38         | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 0.00            | 8618.32          |

|                             |              |                |                     |                |                |                 |                  |                  |                  |                  |                  |                 |                 |                   |
|-----------------------------|--------------|----------------|---------------------|----------------|----------------|-----------------|------------------|------------------|------------------|------------------|------------------|-----------------|-----------------|-------------------|
| 6                           | 965          | Birdcherry     | Number              | 0              | 0              | 2889            | 1444             | 0                | 0                | 0                | 0                | 0               | 0               | 4333              |
|                             |              |                | Volume in m3        | 0.00           | 0.00           | 2238.71         | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00            | 0.00            | 2238.71           |
| 6                           | 19           | Maple          | Number              | 0              | 0              | 0               | 0                | 0                | 0                | 0                | 0                | 0               | 0               | 0                 |
|                             |              |                | Volume in m3        | 0              | 0              | 0               | 0                | 0                | 0                | 0                | 0                | 0               | 0               | 0                 |
|                             | 651          | Walnut         | Number              | 0              | 0              | 0               | 1444             | 0                | 0                | 0                | 0                | 0               | 0               | 1444              |
|                             |              |                | Volume in m4        | 0.00           | 0.00           | 0.00            | 2166.50          | 0.00             | 0.00             | 0.00             | 0.00             | 0.00            | 0.00            | 2166.50           |
| 7                           | 38           | Aescules       | Number              | 0              | 0              | 0               | 0                | 0                | 0                | 0                | 0                | 0               | 0               | 0                 |
|                             |              |                | Volume in m3        | 0.00           | 0.00           | 0.00            | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00            | 0.00            | 0.00              |
|                             | 1010         | Ban oak        | Number              | 0              | 0              | 0               | 0                | 0                | 0                | 0                | 0                | 0               | 0               | 0                 |
|                             |              |                | Volume in m3        | 0.00           | 0.00           | 0.00            | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00            | 0.00            | 0.00              |
|                             | 1017         | Kharshu Oak    | Number              | 11555          | 2889           | 0               | 0                | 0                | 0                | 0                | 0                | 0               | 0               | 14443             |
|                             |              |                | Volume in m3        | 1548.32        | 866.60         | 0.00            | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00            | 0.00            | 2414.92           |
|                             | 1006         | Mohru Oak      | Number              | 0              | 0              | 0               | 0                | 0                | 0                | 0                | 0                | 0               | 0               | 0                 |
| 8                           |              |                | Volume in m3        | 0.00           | 0.00           | 0.00            | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00            | 0.00            | 0.00              |
| 9                           | 1038         | Rhododendron   | Number              | 0              | 1444           | 0               | 0                | 0                | 0                | 0                | 0                | 0               | 0               | 1444              |
|                             |              |                | Volume in m3        | 0.00           | 424.63         | 0.00            | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00            | 0.00            | 424.63            |
|                             | 2000         | Other B/L      | Number              | 0              | 0              | 0               | 0                | 0                | 0                | 0                | 0                | 0               | 0               | 0                 |
|                             |              |                | Volume in m3        | 0.00           | 0.00           | 0.00            | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00            | 0.00            | 0.00              |
|                             |              | <b>G.Total</b> | <b>Number</b>       | <b>56329</b>   | <b>54885</b>   | <b>72217</b>    | <b>75105</b>     | <b>56329</b>     | <b>53440</b>     | <b>36108</b>     | <b>23109</b>     | <b>8666</b>     | <b>4333</b>     | <b>440521</b>     |
|                             |              |                | <b>Volume in m3</b> | <b>4234.78</b> | <b>8775.75</b> | <b>54743.00</b> | <b>119883.72</b> | <b>172149.69</b> | <b>265785.61</b> | <b>246229.38</b> | <b>194161.28</b> | <b>79712.57</b> | <b>33941.76</b> | <b>1179617.53</b> |
| PB-IV (Area in Ha. =148.52) |              |                |                     |                |                |                 |                  |                  |                  |                  |                  |                 |                 |                   |
| Sr. No                      | Species Code | Species        |                     | 10-20          | 20-30          | 30-40           | 40-50            | 50-60            | 60-70            | 70-80            | 80-90            | 90-100          | 100 over        | Total             |
| 1                           | 241          | Deodar         | Number              | 2227.8         | 2227.8         | 2227.8          | 1485.2           | 1485.2           | 0                | 0                | 0                | 0               | 0               | 9653.8            |
|                             |              |                | Volume in m3        | 133.668        | 311.892        | 935.676         | 1886.204         | 3579.332         | 0                | 0                | 0                | 0               | 0               | 6846.772          |
| 2                           | 926          | Kail           | Number              | 0              | 0              | 0               | 0                | 0                | 0                | 0                | 0                | 0               | 0               | 0                 |
|                             |              |                | Volume in m3        | 0              | 0              | 0               | 0                | 0                | 0                | 0                | 0                | 0               | 0               | 0                 |
|                             | 929          | Chil           | Number              | 0              | 0              | 0               | 0                | 0                | 0                | 0                | 0                | 0               | 0               | 0                 |
|                             |              |                | Volume in m4        | 0              | 0              | 0               | 0                | 0                | 0                | 0                | 0                | 0               | 0               | 0                 |
| 3                           | 2            | Fir            | Number              | 0              | 0              | 0               | 1485.2           | 0                | 0                | 0                | 0                | 0               | 0               | 1485.2            |
|                             |              |                | Volume in m3        | 0              | 0              | 0               | 2524.84          | 0                | 0                | 0                | 0                | 0               | 0               | 2524.84           |
| 4                           | 921          | Spruce         | Number              | 2970.4         | 1485.2         | 742.6           | 1485.2           | 742.6            | 0                | 2227.8           | 742.6            | 0               | 0               | 10396.4           |
|                             |              |                | Volume in m2        | 178.224        | 207.928        | 631.21          | 2524.84          | 2309.486         | 0                | 15772.824        | 6304.674         | 0               | 0               | 27929.186         |
| 4                           | 1162         | Taxus          | Number              | 0              | 0              | 0               | 0                | 0                | 0                | 0                | 0                | 0               | 0               | 0                 |
|                             |              |                | Volume in m4        | 0              | 0              | 0               | 0                | 0                | 0                | 0                | 0                | 0               | 0               | 0                 |
| 6                           | 965          | Birdcherry     | Number              | 0              | 0              | 0               | 0                | 0                | 0                | 0                | 0                | 0               | 0               | 0                 |
|                             |              |                | Volume in m3        | 0              | 0              | 0               | 0                | 0                | 0                | 0                | 0                | 0               | 0               | 0                 |
| 6                           | 19           | Maple          | Number              | 0              | 0              | 0               | 0                | 0                | 0                | 0                | 0                | 0               | 0               | 0                 |
|                             |              |                | Volume in m3        | 0              | 0              | 0               | 0                | 0                | 0                | 0                | 0                | 0               | 0               | 0                 |
|                             | 651          | Walnut         | Number              | 0              | 0              | 0               | 0                | 0                | 0                | 0                | 0                | 0               | 0               | 0                 |
|                             |              |                | Volume in m4        | 0              | 0              | 0               | 0                | 0                | 0                | 0                | 0                | 0               | 0               | 0                 |
| 7                           | 38           | Aescules       | Number              | 0              | 0              | 0               | 0                | 0                | 0                | 0                | 0                | 0               | 0               | 0                 |
|                             |              |                | Volume in m3        | 0              | 0              | 0               | 0                | 0                | 0                | 0                | 0                | 0               | 0               | 0                 |
|                             | 1010         | Ban oak        | Number              | 0              | 0              | 0               | 0                | 0                | 0                | 0                | 0                | 0               | 0               | 0                 |
|                             |              |                | Volume in m3        | 0              | 0              | 0               | 0                | 0                | 0                | 0                | 0                | 0               | 0               | 0                 |
|                             | 1017         | Kharshu Oak    | Number              | 0              | 0              | 0               | 0                | 0                | 0                | 0                | 0                | 0               | 0               | 0                 |



|   |      |                     |               |              |              |               |               |              |              |              |              |              |             |               |
|---|------|---------------------|---------------|--------------|--------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|-------------|---------------|
|   |      |                     | Volume in m3  | 0            | 0            | 0             | 0             | 0            | 0            | 0            | 0            | 0            | 0           | 0             |
|   | 1006 | Mohru Oak           | Number        | 0            | 0            | 0             | 0             | 0            | 0            | 0            | 0            | 0            | 0           | 0             |
| 8 |      |                     | Volume in m3  | 0            | 0            | 0             | 0             | 0            | 0            | 0            | 0            | 0            | 0           | 0             |
| 9 | 1038 | Rhododendron        | Number        | 0            | 0            | 0             | 0             | 0            | 0            | 0            | 0            | 0            | 0           | 0             |
|   |      |                     | Volume in m3  | 0            | 0            | 0             | 0             | 0            | 0            | 0            | 0            | 0            | 0           | 0             |
|   | 2000 | Other B/L           | Number        | 0            | 0            | 0             | 0             | 0            | 0            | 0            | 0            | 0            | 0           | 0             |
|   |      |                     | Volume in m3  | 0            | 0            | 0             | 0             | 0            | 0            | 0            | 0            | 0            | 0           | 0             |
|   |      | <b>G.Total</b>      | <b>Number</b> | <b>5198</b>  | <b>3713</b>  | <b>2970</b>   | <b>4456</b>   | <b>2228</b>  | <b>0</b>     | <b>2228</b>  | <b>743</b>   | <b>0</b>     | <b>0</b>    | <b>21535</b>  |
|   |      |                     | Volume in m3  | 311.892      | 519.82       | 1566.886      | 6935.884      | 5888.818     | 0            | 15772.824    | 6304.674     | 0            | 0           | 37300.798     |
|   |      | <b>G.Total FSWC</b> | <b>Number</b> | <b>83270</b> | <b>99050</b> | <b>124415</b> | <b>117171</b> | <b>91024</b> | <b>82033</b> | <b>51875</b> | <b>29321</b> | <b>15436</b> | <b>8395</b> | <b>701989</b> |
|   |      |                     | Volume in m4  | 6793.95      | 17312.50     | 96961.06      | 187823.36     | 285738.01    | 408265.81    | 357438.47    | 244691.11    | 137415.62    | 71878.37    | 1814318.25    |

| PB-I (Area in Ha. =91.86)                                                                             |              |                |                     |                |               |                |                |                |                |             |             |              |                |                 |
|-------------------------------------------------------------------------------------------------------|--------------|----------------|---------------------|----------------|---------------|----------------|----------------|----------------|----------------|-------------|-------------|--------------|----------------|-----------------|
| Species wise No. and Volume in m3. ( Estimated / Extrapolated growing stock ) for Chil Working Circle |              |                |                     |                |               |                |                |                |                |             |             |              |                |                 |
| Sr. No                                                                                                | Species Code | Species        |                     | 10-20<br>V     | 20-30<br>IV   | 30-40<br>III   | 40-50<br>IIA   | 50-60<br>IIB   | 60-70<br>IA    | 70-80<br>IB | 80-90<br>IC | 90-100<br>ID | 100 over<br>IE | Total           |
| 1                                                                                                     | 241          | Deodar         | Number              | 0              | 0             | 0              | 0              | 0              | 0              | 0           | 0           | 0            | 0              | 0               |
|                                                                                                       |              |                | Volume in m3        | 0              | 0             | 0              | 0              | 0              | 0              | 0           | 0           | 0            | 0              | 0               |
| 2                                                                                                     | 926          | Kail           | Number              | 0              | 0             | 0              | 0              | 0              | 0              | 0           | 0           | 0            | 0              | 0               |
|                                                                                                       |              |                | Volume in m3        | 0              | 0             | 0              | 0              | 0              | 0              | 0           | 0           | 0            | 0              | 0               |
|                                                                                                       | 929          | Chil           | Number              | 27328          | 459           | 3445           | 4134           | 1608           | 1148           | 0           | 0           | 0            | 0              | 38122           |
|                                                                                                       |              |                | Volume in m3        | 1639.70        | 64.30         | 1446.80        | 5249.80        | 3874.20        | 4064.81        | 0.00        | 0.00        | 0.00         | 0.00           | 16339.60        |
| 3                                                                                                     | 2            | Fir            | Number              | 0              | 0             | 0              | 0              | 0              | 0              | 0           | 0           | 0            | 0              | 0               |
|                                                                                                       |              |                | Volume in m3        | 0              | 0             | 0              | 0              | 0              | 0              | 0           | 0           | 0            | 0              | 0               |
| 4                                                                                                     | 921          | Spruce         | Number              | 0              | 0             | 0              | 0              | 0              | 0              | 0           | 0           | 0            | 0              | 0               |
|                                                                                                       |              |                | Volume in m3        | 0              | 0             | 0              | 0              | 0              | 0              | 0           | 0           | 0            | 0              | 0               |
| 4                                                                                                     | 1162         | Taxus          | Number              | 0              | 0             | 0              | 0              | 0              | 0              | 0           | 0           | 0            | 0              | 0               |
|                                                                                                       |              |                | Volume in m3        | 0              | 0             | 0              | 0              | 0              | 0              | 0           | 0           | 0            | 0              | 0               |
| 6                                                                                                     | 965          | Birdcherry     | Number              | 0              | 0             | 0              | 0              | 0              | 0              | 0           | 0           | 0            | 0              | 0               |
|                                                                                                       |              |                | Volume in m3        | 0              | 0             | 0              | 0              | 0              | 0              | 0           | 0           | 0            | 0              | 0               |
| 6                                                                                                     | 19           | Maple          | Number              | 0              | 0             | 0              | 0              | 0              | 0              | 0           | 0           | 0            | 0              | 0               |
|                                                                                                       |              |                | Volume in m3        | 0              | 0             | 0              | 0              | 0              | 0              | 0           | 0           | 0            | 0              | 0               |
|                                                                                                       | 651          | Walnut         | Number              | 0              | 0             | 0              | 0              | 0              | 0              | 0           | 0           | 0            | 0              | 0               |
|                                                                                                       |              |                | Volume in m3        | 0              | 0             | 0              | 0              | 0              | 0              | 0           | 0           | 0            | 0              | 0               |
| 7                                                                                                     | 38           | Aescules       | Number              | 0              | 0             | 0              | 0              | 0              | 0              | 0           | 0           | 0            | 0              | 0               |
|                                                                                                       |              |                | Volume in m3        | 0              | 0             | 0              | 0              | 0              | 0              | 0           | 0           | 0            | 0              | 0               |
|                                                                                                       | 1010         | Ban oak        | Number              | 0              | 0             | 0              | 0              | 0              | 0              | 0           | 0           | 0            | 0              | 0               |
|                                                                                                       |              |                | Volume in m3        | 0              | 0             | 0              | 0              | 0              | 0              | 0           | 0           | 0            | 0              | 0               |
|                                                                                                       | 1017         | Kharshu Oak    | Number              | 0              | 0             | 0              | 0              | 0              | 0              | 0           | 0           | 0            | 0              | 0               |
|                                                                                                       |              |                | Volume in m3        | 0              | 0             | 0              | 0              | 0              | 0              | 0           | 0           | 0            | 0              | 0               |
|                                                                                                       | 1006         | Mohru Oak      | Number              | 0              | 0             | 0              | 0              | 0              | 0              | 0           | 0           | 0            | 0              | 0               |
| 8                                                                                                     |              |                | Volume in m3        | 0              | 0             | 0              | 0              | 0              | 0              | 0           | 0           | 0            | 0              | 0               |
| 9                                                                                                     | 1038         | Rhododendron   | Number              | 230            | 919           | 689            | 0              | 0              | 0              | 0           | 0           | 0            | 0              | 1837            |
|                                                                                                       |              |                | Volume in m3        | 0.00           | 67.52         | 487.78         | 0.00           | 0.00           | 0.00           | 0.00        | 0.00        | 0.00         | 0.00           | 555.29          |
|                                                                                                       | 2000         | Other B/L      | Number              | 0              | 0             | 0              | 0              | 0              | 0              | 0           | 0           | 0            | 0              | 0               |
|                                                                                                       |              |                | Volume in m3        | 0              | 0             | 0              | 0              | 0              | 0              | 0           | 0           | 0            | 0              | 0               |
|                                                                                                       |              | <b>G.Total</b> | <b>Number</b>       | <b>27558</b>   | <b>1378</b>   | <b>4134</b>    | <b>4134</b>    | <b>1608</b>    | <b>1148</b>    | <b>0</b>    | <b>0</b>    | <b>0</b>     | <b>0</b>       | <b>39959</b>    |
|                                                                                                       |              |                | <b>Volume in m3</b> | <b>1639.70</b> | <b>131.82</b> | <b>1934.57</b> | <b>5249.80</b> | <b>3874.20</b> | <b>4064.81</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>  | <b>0.00</b>    | <b>16894.89</b> |
| PB-II (Area in Ha. = 272.77)                                                                          |              |                |                     |                |               |                |                |                |                |             |             |              |                |                 |
| Sr. No                                                                                                | Species Code | Species        |                     | 10-20<br>V     | 20-30<br>IV   | 30-40<br>III   | 40-50<br>IIA   | 50-60<br>IIB   | 60-70<br>IA    | 70-80<br>IB | 80-90<br>IC | 90-100<br>ID | 100 over<br>IE | Total           |

| 1                                    | 241                 | Deodar         | Number              | 2182           | 546             | 1091             | 0                | 0                | 0               | 0               | 0               | 0                | 0                  | 3819            |
|--------------------------------------|---------------------|----------------|---------------------|----------------|-----------------|------------------|------------------|------------------|-----------------|-----------------|-----------------|------------------|--------------------|-----------------|
|                                      |                     |                | Volume in m3        | 130.93         | 76.38           | 458.25           | 0.00             | 0.00             | 0.00            | 0.00            | 0.00            | 0.00             | 0.00               | 665.56          |
| 2                                    | 926                 | Kail           | Number              | 546            | 0               | 0                | 0                | 0                | 0               | 0               | 0               | 0                | 0                  | 546             |
|                                      |                     |                | Volume in m3        | 32.73          | 0.00            | 0.00             | 0.00             | 0.00             | 0.00            | 0.00            | 0.00            | 0.00             | 0.00               | 32.73           |
|                                      | 929                 | Chil           | Number              | 17457          | 15821           | 18548            | 6001             | 3819             | 2728            | 2182            | 0               | 0                | 0                  | 66556           |
|                                      |                     |                | Volume in m3        | 1047.44        | 2214.89         | 7790.31          | 7621.19          | 9203.26          | 9656.06         | 10496.19        | 0.00            | 0.00             | 0.00               | 48029.34        |
| 3                                    | 2                   | Fir            | Number              | 0              | 0               | 0                | 0                | 0                | 0               | 0               | 0               | 0                | 0                  | 0               |
|                                      |                     |                | Volume in m3        | 0.00           | 0.00            | 0.00             | 0.00             | 0.00             | 0.00            | 0.00            | 0.00            | 0.00             | 0.00               | 0.00            |
| 4                                    | 921                 | Spruce         | Number              | 0              | 0               | 0                | 0                | 0                | 0               | 0               | 0               | 0                | 0                  | 0               |
|                                      |                     |                | Volume in m3        | 0.00           | 0.00            | 0.00             | 0.00             | 0.00             | 0.00            | 0.00            | 0.00            | 0.00             | 0.00               | 0.00            |
| 4                                    | 1162                | Taxus          | Number              | 0              | 0               | 0                | 0                | 0                | 0               | 0               | 0               | 0                | 0                  | 0               |
|                                      |                     |                | Volume in m3        | 0.00           | 0.00            | 0.00             | 0.00             | 0.00             | 0.00            | 0.00            | 0.00            | 0.00             | 0.00               | 0.00            |
| 6                                    | 965                 | Birdcherry     | Number              | 0              | 0               | 0                | 0                | 0                | 0               | 0               | 0               | 0                | 0                  | 0               |
|                                      |                     |                | Volume in m3        | 0.00           | 0.00            | 0.00             | 0.00             | 0.00             | 0.00            | 0.00            | 0.00            | 0.00             | 0.00               | 0.00            |
| 6                                    | 19                  | Maple          | Number              | 0              | 0               | 0                | 0                | 0                | 0               | 0               | 0               | 0                | 0                  | 0               |
|                                      |                     |                | Volume in m3        | 0.00           | 0.00            | 0.00             | 0.00             | 0.00             | 0.00            | 0.00            | 0.00            | 0.00             | 0.00               | 0.00            |
|                                      | 651                 | Walnut         | Number              | 0              | 0               | 0                | 0                | 0                | 0               | 0               | 0               | 0                | 0                  | 0               |
|                                      |                     |                | Volume in m3        | 0.00           | 0.00            | 0.00             | 0.00             | 0.00             | 0.00            | 0.00            | 0.00            | 0.00             | 0.00               | 0.00            |
| 7                                    | 38                  | Aescules       | Number              | 0              | 0               | 0                | 0                | 0                | 0               | 0               | 0               | 0                | 0                  | 0               |
|                                      |                     |                | Volume in m3        | 0.00           | 0.00            | 0.00             | 0.00             | 0.00             | 0.00            | 0.00            | 0.00            | 0.00             | 0.00               | 0.00            |
|                                      | 1010                | Ban oak        | Number              | 0              | 0               | 0                | 0                | 0                | 0               | 0               | 0               | 0                | 0                  | 0               |
|                                      |                     |                | Volume in m3        | 0.00           | 0.00            | 0.00             | 0.00             | 0.00             | 0.00            | 0.00            | 0.00            | 0.00             | 0.00               | 0.00            |
|                                      | 1017                | Kharshu Oak    | Number              | 0              | 0               | 0                | 0                | 0                | 0               | 0               | 0               | 0                | 0                  | 0               |
|                                      |                     |                | Volume in m3        | 0.00           | 0.00            | 0.00             | 0.00             | 0.00             | 0.00            | 0.00            | 0.00            | 0.00             | 0.00               | 0.00            |
|                                      | 1006                | Mohru Oak      | Number              | 0              | 0               | 0                | 0                | 0                | 0               | 0               | 0               | 0                | 0                  | 0               |
| 8                                    |                     |                | Volume in m3        | 0.00           | 0.00            | 0.00             | 0.00             | 0.00             | 0.00            | 0.00            | 0.00            | 0.00             | 0.00               | 0.00            |
| 9                                    | 1038                | Rhododendron   | Number              | 0              | 0               | 0                | 0                | 0                | 0               | 0               | 0               | 0                | 0                  | 0               |
|                                      |                     |                | Volume in m3        | 0.00           | 0.00            | 0.00             | 0.00             | 0.00             | 0.00            | 0.00            | 0.00            | 0.00             | 0.00               | 0.00            |
|                                      | 2000                | Other B/L      | Number              | 0              | 0               | 0                | 0                | 0                | 0               | 0               | 0               | 0                | 0                  | 0               |
|                                      |                     |                | Volume in m3        | 0.00           | 0.00            | 0.00             | 0.00             | 0.00             | 0.00            | 0.00            | 0.00            | 0.00             | 0.00               | 0.00            |
|                                      |                     | <b>G.Total</b> | <b>Number</b>       | <b>20185</b>   | <b>16366</b>    | <b>19639</b>     | <b>6001</b>      | <b>3819</b>      | <b>2728</b>     | <b>2182</b>     | <b>0</b>        | <b>0</b>         | <b>0</b>           | <b>70920</b>    |
|                                      |                     |                | <b>Volume in m3</b> | <b>1211.10</b> | <b>2291.27</b>  | <b>8248.56</b>   | <b>7621.19</b>   | <b>9203.26</b>   | <b>9656.06</b>  | <b>10496.19</b> | <b>0.00</b>     | <b>0.00</b>      | <b>0.00</b>        | <b>48727.63</b> |
| <b>PB-III (Area in Ha. = 147.71)</b> |                     |                |                     |                |                 |                  |                  |                  |                 |                 |                 |                  |                    |                 |
| <b>Sr. No</b>                        | <b>Species Code</b> | <b>Species</b> | <b>Number/V</b>     | <b>10-20 V</b> | <b>20-30 IV</b> | <b>30-40 III</b> | <b>40-50 IIA</b> | <b>50-60 IIB</b> | <b>60-70 IA</b> | <b>70-80 IB</b> | <b>80-90 IC</b> | <b>90-100 ID</b> | <b>100 over IE</b> | <b>Total</b>    |
| 1                                    | 241                 | Deodar         | Number              | 0              | 0               | 0                | 0                | 0                | 0               | 0               | 0               | 0                | 0                  | 0               |
|                                      |                     |                | Volume in m3        | 0.00           | 0.00            | 0.00             | 0.00             | 0.00             | 0.00            | 0.00            | 0.00            | 0.00             | 0.00               | 0.00            |
| 2                                    | 926                 | Kail           | Number              | 0              | 0               | 0                | 0                | 0                | 0               | 0               | 0               | 0                | 0                  | 0               |
|                                      |                     |                | Volume in m3        | 0.00           | 0.00            | 0.00             | 0.00             | 0.00             | 0.00            | 0.00            | 0.00            | 0.00             | 0.00               | 0.00            |
|                                      | 929                 | Chil           | Number              | 15657          | 8567            | 5022             | 5022             | 591              | 295             | 295             | 295             | 0                | 0                  | 35746           |
|                                      |                     |                | Volume in m3        | 939.44         | 1199.41         | 2109.30          | 6378.12          | 1423.92          | 1045.79         | 1420.97         | 1799.11         | 0.00             | 0.00               | 16316.05        |

| 3                                   | 2                   | Fir            | Number              | 0                  | 0                   | 0                    | 0                    | 0                    | 0                   | 0                   | 0                   | 0                    | 0                      | 0               |
|-------------------------------------|---------------------|----------------|---------------------|--------------------|---------------------|----------------------|----------------------|----------------------|---------------------|---------------------|---------------------|----------------------|------------------------|-----------------|
|                                     |                     |                | Volume in m3        | 0.00               | 0.00                | 0.00                 | 0.00                 | 0.00                 | 0.00                | 0.00                | 0.00                | 0.00                 | 0.00                   | 0.00            |
| 4                                   | 921                 | Spruce         | Number              | 0                  | 0                   | 0                    | 0                    | 0                    | 0                   | 0                   | 0                   | 0                    | 0                      | 0               |
|                                     |                     |                | Volume in m3        | 0.00               | 0.00                | 0.00                 | 0.00                 | 0.00                 | 0.00                | 0.00                | 0.00                | 0.00                 | 0.00                   | 0.00            |
| 4                                   | 1162                | Taxus          | Number              | 0                  | 0                   | 0                    | 0                    | 0                    | 0                   | 0                   | 0                   | 0                    | 0                      | 0               |
|                                     |                     |                | Volume in m3        | 0.00               | 0.00                | 0.00                 | 0.00                 | 0.00                 | 0.00                | 0.00                | 0.00                | 0.00                 | 0.00                   | 0.00            |
| 6                                   | 965                 | Birdcherry     | Number              | 0                  | 0                   | 0                    | 0                    | 0                    | 0                   | 0                   | 0                   | 0                    | 0                      | 0               |
|                                     |                     |                | Volume in m3        | 0.00               | 0.00                | 0.00                 | 0.00                 | 0.00                 | 0.00                | 0.00                | 0.00                | 0.00                 | 0.00                   | 0.00            |
| 6                                   | 19                  | Maple          | Number              | 0                  | 0                   | 0                    | 0                    | 0                    | 0                   | 0                   | 0                   | 0                    | 0                      | 0               |
|                                     |                     |                | Volume in m3        | 0.00               | 0.00                | 0.00                 | 0.00                 | 0.00                 | 0.00                | 0.00                | 0.00                | 0.00                 | 0.00                   | 0.00            |
|                                     | 651                 | Walnut         | Number              | 0                  | 0                   | 0                    | 0                    | 0                    | 0                   | 0                   | 0                   | 0                    | 0                      | 0               |
|                                     |                     |                | Volume in m3        | 0.00               | 0.00                | 0.00                 | 0.00                 | 0.00                 | 0.00                | 0.00                | 0.00                | 0.00                 | 0.00                   | 0.00            |
| 7                                   | 38                  | Aescules       | Number              | 0                  | 0                   | 0                    | 0                    | 0                    | 0                   | 0                   | 0                   | 0                    | 0                      | 0               |
|                                     |                     |                | Volume in m3        | 0.00               | 0.00                | 0.00                 | 0.00                 | 0.00                 | 0.00                | 0.00                | 0.00                | 0.00                 | 0.00                   | 0.00            |
|                                     | 1010                | Ban oak        | Number              | 0                  | 0                   | 0                    | 0                    | 0                    | 0                   | 0                   | 0                   | 0                    | 0                      | 0               |
|                                     |                     |                | Volume in m3        | 0.00               | 0.00                | 0.00                 | 0.00                 | 0.00                 | 0.00                | 0.00                | 0.00                | 0.00                 | 0.00                   | 0.00            |
|                                     | 1017                | Kharshu Oak    | Number              | 0                  | 0                   | 0                    | 0                    | 0                    | 0                   | 0                   | 0                   | 0                    | 0                      | 0               |
|                                     |                     |                | Volume in m3        | 0.00               | 0.00                | 0.00                 | 0.00                 | 0.00                 | 0.00                | 0.00                | 0.00                | 0.00                 | 0.00                   | 0.00            |
|                                     | 1006                | Mohru Oak      | Number              | 0                  | 0                   | 0                    | 0                    | 0                    | 0                   | 0                   | 0                   | 0                    | 0                      | 0               |
|                                     |                     |                | Volume in m3        | 0.00               | 0.00                | 0.00                 | 0.00                 | 0.00                 | 0.00                | 0.00                | 0.00                | 0.00                 | 0.00                   | 0.00            |
| 8                                   | 1038                | Rhododendron   | Number              | 0                  | 0                   | 0                    | 0                    | 0                    | 0                   | 0                   | 0                   | 0                    | 0                      | 0               |
|                                     |                     |                | Volume in m3        | 0.00               | 0.00                | 0.00                 | 0.00                 | 0.00                 | 0.00                | 0.00                | 0.00                | 0.00                 | 0.00                   | 0.00            |
|                                     | 2000                | Other B/L      | Number              | 0                  | 0                   | 0                    | 0                    | 0                    | 0                   | 0                   | 0                   | 0                    | 0                      | 0               |
|                                     |                     |                | Volume in m3        | 0.00               | 0.00                | 0.00                 | 0.00                 | 0.00                 | 0.00                | 0.00                | 0.00                | 0.00                 | 0.00                   | 0.00            |
|                                     |                     | <b>G.Total</b> | <b>Number</b>       | <b>15657</b>       | <b>8567</b>         | <b>5022</b>          | <b>5022</b>          | <b>591</b>           | <b>295</b>          | <b>295</b>          | <b>295</b>          | <b>0</b>             | <b>0</b>               | <b>35746</b>    |
|                                     |                     |                | <b>Volume in m3</b> | <b>939.44</b>      | <b>1199.41</b>      | <b>2109.30</b>       | <b>6378.12</b>       | <b>1423.92</b>       | <b>1045.79</b>      | <b>1420.97</b>      | <b>1799.11</b>      | <b>0.00</b>          | <b>0.00</b>            | <b>16316.05</b> |
| <b>PB-IV (Area in Ha. = 384.85)</b> |                     |                |                     |                    |                     |                      |                      |                      |                     |                     |                     |                      |                        |                 |
| <b>Sr. No</b>                       | <b>Species Code</b> | <b>Species</b> |                     | <b>10-20<br/>V</b> | <b>20-30<br/>IV</b> | <b>30-40<br/>III</b> | <b>40-50<br/>IIA</b> | <b>50-60<br/>IIB</b> | <b>60-70<br/>IA</b> | <b>70-80<br/>IB</b> | <b>80-90<br/>IC</b> | <b>90-100<br/>ID</b> | <b>100 over<br/>IE</b> | <b>Total</b>    |
| 1                                   | 241                 | Deodar         | Number              | 0                  | 0                   | 1283                 | 0                    | 0                    | 0                   | 0                   | 0                   | 0                    | 0                      | 1283            |
|                                     |                     |                | Volume in m3        | 0                  | 0                   | 538.79               | 0                    | 0                    | 0                   | 0                   | 0                   | 0                    | 0                      | 538.79          |
| 2                                   | 926                 | Kail           | Number              | 0                  | 0                   | 0                    | 0                    | 0                    | 0                   | 0                   | 0                   | 0                    | 0                      | 0               |
|                                     |                     |                | Volume in m3        | 0                  | 0                   | 0                    | 0                    | 0                    | 0                   | 0                   | 0                   | 0                    | 0                      | 0               |
|                                     | 929                 | Chil           | Number              | 19670              | 23946               | 14539                | 16677                | 8552                 | 4704                | 1283                | 0                   | 0                    | 0                      | 89371           |
|                                     |                     |                | Volume in m4        | 1180.21            | 3352.47             | 6106.29              | 21179.58             | 20610.86             | 16651.18            | 6170.43             | 0.00                | 0.00                 | 0.00                   | 75251.00        |
| 3                                   | 2                   | Fir            | Number              | 0                  | 0                   | 0                    | 0                    | 0                    | 0                   | 0                   | 0                   | 0                    | 0                      | 0               |
|                                     |                     |                | Volume in m3        | 0                  | 0                   | 0                    | 0                    | 0                    | 0                   | 0                   | 0                   | 0                    | 0                      | 0               |
| 4                                   | 921                 | Spruce         | Number              | 0                  | 0                   | 0                    | 0                    | 0                    | 0                   | 0                   | 0                   | 0                    | 0                      | 0               |
|                                     |                     |                | Volume in m2        | 0                  | 0                   | 0                    | 0                    | 0                    | 0                   | 0                   | 0                   | 0                    | 0                      | 0               |
| 4                                   | 1162                | Taxus          | Number              | 0                  | 0                   | 0                    | 0                    | 0                    | 0                   | 0                   | 0                   | 0                    | 0                      | 0               |
|                                     |                     |                | Volume in m4        | 0                  | 0                   | 0                    | 0                    | 0                    | 0                   | 0                   | 0                   | 0                    | 0                      | 0               |

|   |      |                    |                     |                |                |                 |                 |                 |                 |                 |                |             |             |                  |
|---|------|--------------------|---------------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|-------------|-------------|------------------|
| 6 | 965  | Birdcherry         | Number              | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0              | 0           | 0           | 0                |
|   |      |                    | Volume in m3        | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0              | 0           | 0           | 0                |
| 6 | 19   | Maple              | Number              | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0              | 0           | 0           | 0                |
|   |      |                    | Volume in m3        | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0              | 0           | 0           | 0                |
|   | 651  | Walnut             | Number              | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0              | 0           | 0           | 0                |
|   |      |                    | Volume in m4        | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0              | 0           | 0           | 0                |
| 7 | 38   | Aescules           | Number              | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0              | 0           | 0           | 0                |
|   |      |                    | Volume in m3        | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0              | 0           | 0           | 0                |
|   | 1010 | Ban oak            | Number              | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0              | 0           | 0           | 0                |
|   |      |                    | Volume in m3        | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0              | 0           | 0           | 0                |
|   | 1017 | Kharshu Oak        | Number              | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0              | 0           | 0           | 0                |
|   |      |                    | Volume in m3        | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0              | 0           | 0           | 0                |
|   | 1006 | Mohru Oak          | Number              | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0              | 0           | 0           | 0                |
| 8 |      |                    | Volume in m3        | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0              | 0           | 0           | 0                |
| 9 | 1038 | Rhododendron       | Number              | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0              | 0           | 0           | 0                |
|   |      |                    | Volume in m3        | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0              | 0           | 0           | 0                |
|   | 2000 | Other B/L          | Number              | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0              | 0           | 0           | 0                |
|   |      |                    | Volume in m3        | 0              | 0              | 0               | 0               | 0               | 0               | 0               | 0              | 0           | 0           | 0                |
|   |      | <b>G.Total</b>     | <b>Number</b>       | <b>19670</b>   | <b>23946</b>   | <b>15822</b>    | <b>16677</b>    | <b>8552</b>     | <b>4704</b>     | <b>1283</b>     | <b>0</b>       | <b>0</b>    | <b>0</b>    | <b>90654</b>     |
|   |      |                    | <b>Volume in m3</b> | <b>1180.21</b> | <b>3352.47</b> | <b>6645.08</b>  | <b>21179.58</b> | <b>20610.86</b> | <b>16651.18</b> | <b>6170.43</b>  | <b>0.00</b>    | <b>0.00</b> | <b>0.00</b> | <b>75789.79</b>  |
|   |      | <b>G.Total CWC</b> | <b>Number</b>       | <b>83070</b>   | <b>50258</b>   | <b>44617</b>    | <b>31834</b>    | <b>14569</b>    | <b>8875</b>     | <b>3760</b>     | <b>295</b>     | <b>0</b>    | <b>0</b>    | <b>237279</b>    |
|   |      |                    | <b>Volume in m4</b> | <b>4970.44</b> | <b>6974.96</b> | <b>18937.51</b> | <b>40428.69</b> | <b>35112.24</b> | <b>31417.83</b> | <b>18087.59</b> | <b>1799.11</b> | <b>0.00</b> | <b>0.00</b> | <b>157728.36</b> |

Appendix-III

| Species wise No. and Volume m3. ( Estimated / extrapolated growing stock ) for Protection Working Circle |              |                                      |                      |              |                                               |           |           |           |           |           |           |           |           |             |            |
|----------------------------------------------------------------------------------------------------------|--------------|--------------------------------------|----------------------|--------------|-----------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------|------------|
| Total area (Area = 47984.86 Ha.)                                                                         |              |                                      |                      |              | Enumeration : Grid system (Sample ID) 169 Nos |           |           |           |           |           |           |           |           |             |            |
| Sr. No.                                                                                                  | Species Code | Botanical Name                       | Common / Local Names | Number/ Vol. | 10-20 V                                       | 20-30 IV  | 30-40 III | 40-50 IIA | 50-60 IIB | 60-70 IA  | 70-80 IB  | 80-90 IC  | 90-100 ID | 100 over IE | Total      |
| 1                                                                                                        | 241          | <i>Cedrus deodara</i>                | Deodar               | Number       | 789337                                        | 701317    | 477009    | 278255    | 150485    | 99377     | 65305     | 19875     | 19875     | 11357       | 2612194    |
|                                                                                                          |              |                                      |                      | Volume m3    | 47360.21                                      | 98184.41  | 200343.89 | 353384.36 | 362669.00 | 351794.33 | 314116.28 | 121041.10 | 140717.73 | 80410.13    | 2070021.43 |
| 2                                                                                                        | 926          | <i>Pinus wallichiana</i>             | Kail                 | Number       | 570708                                        | 388990    | 295291    | 141967    | 59626     | 48269     | 17036     | 5679      | 0         | 2839        | 1530405    |
|                                                                                                          |              |                                      |                      | Volume m3    | 34242.45                                      | 54458.56  | 124022.41 | 180298.14 | 143699.04 | 170871.53 | 81943.38  | 34583.17  | 0.00      | 20102.53    | 844221.21  |
| 3                                                                                                        | 2            | <i>Abies pindrow</i>                 | Fir                  | Number       | 51108.13491                                   | 11357     | 45429     | 48269     | 14197     | 17036     | 2839      | 2839      | 8518      | 5679        | 207272     |
|                                                                                                          |              |                                      |                      | Volume m3    | 3066.488095                                   | 1135.74   | 32567.24  | 82056.95  | 44151.75  | 86883.83  | 20102.53  | 24106.00  | 79558.33  | 53038.89    | 426667.75  |
| 4                                                                                                        | 921          | <i>Picea smithiana</i>               | Spruce               | Number       | 176039                                        | 190236    | 170360    | 193075    | 173200    | 187396    | 122092    | 51108     | 28393     | 45429       | 1337330    |
|                                                                                                          |              |                                      |                      | Volume m3    | 10562.35                                      | 26405.87  | 142790.45 | 328227.80 | 538651.35 | 955722.12 | 864408.92 | 433908.07 | 265194.43 | 424311.09   | 3990182.45 |
| 5                                                                                                        | 929          | <i>Pinus roxburghii</i>              | Chil                 | Number       | 1479297                                       | 1178326   | 516760    | 159003    | 88020     | 45429     | 22715     | 17036     | 2839      | 2839        | 3512265    |
|                                                                                                          |              |                                      |                      | Volume m3    | 88757.79                                      | 164965.70 | 217039.21 | 201933.92 | 212127.15 | 160820.26 | 109257.84 | 103749.51 | 20102.53  | 20102.53    | 1298856.46 |
| 6                                                                                                        | 1162         | <i>Taxus baccata</i>                 | Taxus                | Number       | 22715                                         | 19875     | 2839      | 2839      | 0         | 0         | 0         | 0         | 0         | 0           | 48269      |
|                                                                                                          |              |                                      |                      | Volume m3    | 2362.33                                       | 4650.84   | 1325.97   | 2331.10   | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00        | 10670.24   |
| 7                                                                                                        | 1010         | <i>Quercus incana</i>                | Ban oak              | Number       | 107895                                        | 88020     | 79502     | 34072     | 17036     | 8518      | 2839      | 22715     | 2839      | 0           | 363436     |
|                                                                                                          |              |                                      |                      | Volume m3    | 14457.92                                      | 27550.12  | 52232.51  | 40920.58  | 33629.15  | 25520.00  | 12166.58  | 133040.15 | 21928.23  | 0.00        | 361445.25  |
| 8                                                                                                        | 1006         | <i>Quercus dilatata / floribunda</i> | Mohru Oak            | Number       | 73823                                         | 96538     | 105056    | 73823     | 14197     | 8518      | 5679      | 5679      | 0         | 2839        | 386150     |
|                                                                                                          |              |                                      |                      | Volume m3    | 9892.26                                       | 28961.28  | 105055.61 | 132881.15 | 42590.11  | 39182.90  | 35775.69  | 45429.45  | 0.00      | 34639.96    | 474408.42  |
| 9                                                                                                        | 1017         | <i>Quercus semecarpifolia</i>        | Kharshu Oak          | Number       | 0                                             | 11357     | 11357     | 8518      | 0         | 0         | 0         | 0         | 0         | 0           | 31233      |
|                                                                                                          |              |                                      |                      | Volume m3    | 0.00                                          | 3407.21   | 11357.36  | 15332.44  | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00        | 30097.01   |
| 10                                                                                                       | 651          | <i>Juglans regia</i>                 | Walnut               | Number       | 8518                                          | 2839      | 2839      | 0         | 0         | 17036     | 5679      | 0         | 0         | 0           | 36911      |
|                                                                                                          |              |                                      |                      | Volume m3    | 672.92                                        | 567.87    | 2271.47   | 0.00      | 0.00      | 64736.97  | 28961.28  | 0.00      | 0.00      | 0.00        | 97210.51   |
| 11                                                                                                       | 38           | <i>Aesculus indica</i>               | HC Nut               | Number       | 0                                             | 0         | 2839      | 8518      | 0         | 0         | 2839      | 0         | 0         | 2839        | 17036      |
|                                                                                                          |              |                                      |                      | Volume m3    | 0.00                                          | 0.00      | 2010.25   | 11380.08  | 0.00      | 0.00      | 12777.03  | 0.00      | 0.00      | 27220.76    | 53388.13   |
| 12                                                                                                       | 1038         | <i>Rhododendron aeboreum</i>         | Rhododendron         | Number       | 82341                                         | 76662     | 56787     | 19875     | 17036     | 2839      | 2839      | 0         | 0         | 0           | 258380     |
|                                                                                                          |              |                                      |                      | Volume m3    | 7740.04                                       | 22538.69  | 40205.07  | 26553.52  | 37087.47  | 9176.75   | 12777.03  | 0.00      | 0.00      | 0.00        | 156078.57  |
| 13                                                                                                       | 19           | <i>Acer acuminatum</i>               | Maple                | Number       | 11357                                         | 5679      | 17036     | 11357     | 0         | 0         | 0         | 0         | 0         | 0           | 45429      |
|                                                                                                          |              |                                      |                      | Volume m3    | 1328.81                                       | 1135.74   | 11925.23  | 14764.57  | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00        | 29154.35   |
| 14                                                                                                       | 965          | <i>Prunus cornata</i>                | Bird cherry          | Number       | 5679                                          | 8518      | 2839      | 0         | 0         | 0         | 0         | 0         | 0         | 0           | 17036      |
|                                                                                                          |              |                                      |                      | Volume m3    | 664.41                                        | 1703.60   | 1987.54   | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00        | 4355.55    |
| 15                                                                                                       | 62           | <i>Alnus nitida</i>                  | Kunish               | Number       | 2839                                          | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0           | 2839       |
|                                                                                                          |              |                                      |                      | Volume m3    | 266.90                                        | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00        | 266.90     |
| 16                                                                                                       | 433          | <i>Eucalyptus spp.</i>               | Safeda               | Number       | 258380                                        | 107895    | 22715     | 5679      | 5679      | 0         | 0         | 0         | 0         | 0           | 400347     |
|                                                                                                          |              |                                      |                      | Volume m2    | 24287.72                                      | 31721.12  | 16082.03  | 7586.72   | 12362.49  | 0.00      | 0.00      | 0.00      | 0.00      | 0.00        | 92040.07   |
| 17                                                                                                       | 992          | <i>Pyrus pasia</i>                   | Kainth               | Number       | 2839                                          | 8518      | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0           | 11357      |
|                                                                                                          |              |                                      |                      | Volume m3    | 266.90                                        | 2504.30   | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00      | 0.00        | 2771.20    |

|    |      |                                        |                |                  |                  |                  |                  |                   |                   |                   |                   |                  |                  |                  |                    |
|----|------|----------------------------------------|----------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|------------------|------------------|------------------|--------------------|
| 18 | 1047 | <i>Robinia pseudocacia</i>             | Robinia        | Number           | 25554            | 0                | 0                | 0                 | 0                 | 0                 | 0                 | 0                | 0                | 0                | 25554              |
|    |      |                                        |                | Volume m4        | 2402.08          | 0.00             | 0.00             | 0.00              | 0.00              | 0.00              | 0.00              | 0.00             | 0.00             | 0.00             | 2402.08            |
| 19 | 2000 | <i>Identified and<br/>Uncoded Tree</i> | Other B/L      | Number           | 56787            | 48269            | 42590            | 8518              | 2839              | 2839              | 0                 | 0                | 0                | 2839             | 164682             |
|    |      |                                        |                | Volume m3        | 5337.96          | 14191.03         | 30153.80         | 11380.08          | 6181.24           | 9176.75           | 0.00              | 0.00             | 0.00             | 27220.76         | 103641.62          |
|    |      |                                        | <b>G Total</b> | <b>Number</b>    | <b>3725215</b>   | <b>2944396</b>   | <b>1851250</b>   | <b>993769</b>     | <b>542314</b>     | <b>437258</b>     | <b>249862</b>     | <b>124931</b>    | <b>62465</b>     | <b>76662</b>     | <b>11008124</b>    |
|    |      |                                        |                | <b>Volume m3</b> | <b>253669.55</b> | <b>484082.06</b> | <b>991370.05</b> | <b>1409031.40</b> | <b>1433148.77</b> | <b>1873885.45</b> | <b>1492286.56</b> | <b>895857.46</b> | <b>527501.26</b> | <b>687046.66</b> | <b>10047879.20</b> |

| STATEMENT OF PAST YIELD REMOVED |              |                        |                               |                     |                  |                               |                        |                               |                     |                  |                               |                        |                               |                     |                  |                               |
|---------------------------------|--------------|------------------------|-------------------------------|---------------------|------------------|-------------------------------|------------------------|-------------------------------|---------------------|------------------|-------------------------------|------------------------|-------------------------------|---------------------|------------------|-------------------------------|
| Deodar Kail Working Circle      |              |                        |                               |                     |                  |                               |                        |                               |                     |                  |                               |                        |                               |                     |                  |                               |
| Year                            | Species      | PB-I                   |                               |                     |                  |                               | PB- II&III             |                               |                     |                  |                               | PB-IV                  |                               |                     |                  |                               |
|                                 |              | Previous Balance in M3 | Prescribed annual yield in m3 | Yield removed in m3 | Excess / Deficit | Accummulative Deviation in m3 | Previous Balance in M3 | Prescribed annual yield in m3 | Yield removed in m3 | Excess / Deficit | Accummulative Deviation in m3 | Previous Balance in M3 | Prescribed annual yield in m3 | Yield removed in m3 | Excess / Deficit | Accummulative Deviation in m3 |
| 1996-97                         | Deodar       | 0                      | 2400                          | 3.54                | -2396.46         | -2396.46                      | 0                      | 0                             | 750.21              | 750.21           | 750.21                        | 0                      | 3400                          | 4.81                | -3395.19         | -3395.19                      |
|                                 | Kail         | 0                      | 1700                          | 22.51               | -1677.49         | -1677.49                      | 0                      | 0                             | 720.13              | 720.13           | 720.13                        | 0                      | 400                           | 0                   | -400             | -400                          |
|                                 | Rai/Fir      | 0                      | 2000                          | 7.08                | -1992.92         | -1992.92                      | 0                      | 0                             | 11.9                | 11.9             | 11.9                          | 0                      | 1200                          | 0                   | -1200            | -1200                         |
|                                 | Chil         | 0                      | 90                            | 0                   | -90              | -90                           | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 15                            | 0                   | -15              | -15                           |
|                                 | OBL          | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | <b>Total</b> | 0                      | <b>6190</b>                   | <b>33.13</b>        | <b>-6156.87</b>  | <b>-6156.87</b>               | 0                      | 0                             | <b>1480.97</b>      | <b>1480.97</b>   | <b>1480.97</b>                | 0                      | <b>5015</b>                   | <b>4.81</b>         | <b>-5010.19</b>  | <b>-5010.19</b>               |
| 1997-98                         | Deodar       | -2396.46               | 2400                          | 0                   | -2400            | -4796.46                      | 750.21                 | 0                             | 352.11              | 352.11           | 1102.32                       | -3395.19               | 3400                          | 0                   | -3400            | -6795.19                      |
|                                 | Kail         | -1677.49               | 1700                          | 8.35                | -1691.65         | -3369.14                      | 720.13                 | 0                             | 429.74              | 429.74           | 1149.87                       | -400                   | 400                           | 0                   | -400             | -800                          |
|                                 | Rai/Fir      | -1992.92               | 2000                          | 0                   | -2000            | -3992.92                      | 11.9                   | 0                             | 3.11                | 3.11             | 15.01                         | -1200                  | 1200                          | 0                   | -1200            | -2400                         |
|                                 | Chil         | -90                    | 90                            | 0                   | -90              | -180                          | 0                      | 0                             | 0                   | 0                | 0                             | -15                    | 15                            | 0                   | -15              | -30                           |
|                                 | OBL          | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | <b>Total</b> | <b>-6156.87</b>        | <b>6190</b>                   | <b>8.35</b>         | <b>-6181.65</b>  | <b>-12338.52</b>              | <b>1480.97</b>         | 0                             | <b>784.96</b>       | <b>784.96</b>    | <b>2265.93</b>                | <b>-5010.19</b>        | <b>5015</b>                   | 0                   | <b>-5015</b>     | <b>-10025.19</b>              |
| 1998-99                         | Deodar       | -4796.46               | 2400                          | 18.98               | -2381.02         | -7177.48                      | 1102.32                | 0                             | 142.04              | 142.04           | 1244.36                       | -6795.19               | 3400                          | 0                   | -3400            | -10195.19                     |
|                                 | Kail         | -3369.14               | 1700                          | 101.67              | -1598.33         | -4967.47                      | 1149.87                | 0                             | 247.65              | 247.65           | 1397.52                       | -800                   | 400                           | 0                   | -400             | -1200                         |
|                                 | Rai/Fir      | -3992.92               | 2000                          | 0                   | -2000            | -5992.92                      | 15.01                  | 0                             | 0                   | 0                | 15.01                         | -2400                  | 1200                          | 0                   | -1200            | -3600                         |
|                                 | Chil         | -180                   | 90                            | 0                   | -90              | -270                          | 0                      | 0                             | 0                   | 0                | 0                             | -30                    | 15                            | 0                   | -15              | -45                           |
|                                 | OBL          | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | <b>Total</b> | <b>-12338.52</b>       | <b>6190</b>                   | 0                   | <b>-6190</b>     | <b>-18528.52</b>              | <b>2265.93</b>         | 0                             | <b>389.69</b>       | <b>389.69</b>    | <b>2656.89</b>                | <b>-10025.19</b>       | <b>5015</b>                   | 0                   | <b>-5015</b>     | <b>-15040.19</b>              |
| 1999-00                         | Deodar       | -7177.48               | 2400                          | 0                   | -2400            | -9577.48                      | 1244.36                | 0                             | 304.74              | 304.74           | 1549.1                        | -10195.19              | 3400                          | 0                   | -3400            | -13595.19                     |
|                                 | Kail         | -4967.47               | 1700                          | 72.88               | -1627.12         | -6594.59                      | 1397.52                | 0                             | 175.64              | 175.64           | 1573.16                       | -1200                  | 400                           | 0                   | -400             | -1600                         |
|                                 | Rai/Fir      | -5992.92               | 2000                          | 117.25              | -1882.75         | -7875.67                      | 15.01                  | 0                             | 0                   | 0                | 15.01                         | -3600                  | 1200                          | 0                   | -1200            | -4800                         |
|                                 | Chil         | -270                   | 90                            | 0                   | -90              | -360                          | 0                      | 0                             | 0                   | 0                | 0                             | -45                    | 15                            | 0                   | -15              | -60                           |
|                                 | OBL          | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | <b>Total</b> | <b>-18528.52</b>       | <b>6190</b>                   | <b>190.13</b>       | <b>-5999.87</b>  | <b>-24528.39</b>              | <b>2656.89</b>         | 0                             | <b>480.38</b>       | <b>480.38</b>    | <b>3137.27</b>                | <b>-15040.19</b>       | <b>5015</b>                   | 0                   | <b>-5015</b>     | <b>-20055.19</b>              |
| 2000-01                         | Deodar       | -9577.48               | 2400                          | 255.98              | -2144.02         | -11721.5                      | 1549.1                 | 0                             | 13.29               | 13.29            | 1562.39                       | -13595.19              | 3400                          | 0                   | -3400            | -16995.19                     |
|                                 | Kail         | -6594.59               | 1700                          | 374.59              | -1325.41         | -7920                         | 1573.16                | 0                             | 13.15               | 13.15            | 1586.31                       | -1600                  | 400                           | 0                   | -400             | -2000                         |
|                                 | Rai/Fir      | -7875.67               | 2000                          | 1.7                 | -1998.3          | -9873.97                      | 15.01                  | 0                             | 0                   | 0                | 15.01                         | -4800                  | 1200                          | 0                   | -1200            | -6000                         |
|                                 | Chil         | -360                   | 90                            | 0                   | -90              | -450                          | 0                      | 0                             | 0                   | 0                | 0                             | -60                    | 15                            | 0                   | -15              | -75                           |
|                                 | OBL          | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | <b>Total</b> | <b>-24407.74</b>       | <b>6190</b>                   | <b>632.27</b>       | <b>-5557.73</b>  | <b>-29965.47</b>              | <b>3137.27</b>         | 0                             | <b>26.44</b>        | <b>26.44</b>     | <b>3163.71</b>                | <b>-20055.19</b>       | <b>5015</b>                   | 0                   | <b>-5015</b>     | <b>-25070.19</b>              |
| 2001-02                         | Deodar       | -11721.5               | 2400                          | 12.18               | -2387.82         | -14109.32                     | 1562.39                | 0                             | 32.27               | 32.27            | 1594.66                       | -16995.19              | 3400                          | 0                   | -3400            | -20395.19                     |
|                                 | Kail         | -7920                  | 1700                          | 53.75               | -1646.25         | -9566.25                      | 1586.31                | 0                             | 108.17              | 108.17           | 1694.48                       | -2000                  | 400                           | 0                   | -400             | -2400                         |
|                                 | Rai/Fir      | -9873.97               | 2000                          | 1025.47             | -974.53          | -10848.5                      | 15.01                  | 0                             | 3.11                | 3.11             | 18.12                         | -6000                  | 1200                          | 0                   | -1200            | -7200                         |
|                                 | Chil         | -450                   | 90                            | 0                   | -90              | -540                          | 0                      | 0                             | 0                   | 0                | 0                             | -75                    | 15                            | 0                   | -15              | -90                           |
|                                 | OBL          | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | <b>Total</b> | <b>-29965.47</b>       | <b>6190</b>                   | <b>1091.4</b>       | <b>-5098.6</b>   | <b>-35064.07</b>              | <b>3163.71</b>         | 0                             | <b>143.55</b>       | <b>143.55</b>    | <b>3307.26</b>                | <b>-25070.19</b>       | <b>5015</b>                   | 0                   | <b>-5015</b>     | <b>-30085.19</b>              |
| 2002-03                         | Deodar       | -14109.32              | 2400                          | 17.25               | -2382.75         | -16492.07                     | 1594.66                | 0                             | 7.34                | 7.34             | 1602                          | 0                      | 3400                          | 15.12               | -3384.88         | -3384.88                      |
|                                 | Kail         | -9566.25               | 1700                          | 12.12               | -1687.88         | -11254.13                     | 1694.48                | 0                             | 74.93               | 74.93            | 1769.41                       | 0                      | 400                           | 108.19              | -291.81          | -291.81                       |
|                                 | Rai/Fir      | -10848.5               | 2000                          | 212.59              | -1787.41         | -12635.91                     | 18.12                  | 0                             | 0                   | 0                | 18.12                         | 0                      | 1200                          | 223.33              | -976.67          | -976.67                       |



|         |              |                   |             |                |                  |                   |                 |          |                |                |                 |                  |             |               |                 |                  |
|---------|--------------|-------------------|-------------|----------------|------------------|-------------------|-----------------|----------|----------------|----------------|-----------------|------------------|-------------|---------------|-----------------|------------------|
|         | Chil         | -540              | 90          | 0              | -90              | -630              | 0               | 0        | 0              | 0              | 0               | 0                | 15          | 0             | -15             | -15              |
|         | OBL          | 0                 | 0           | 0              | 0                | 0                 | 0               | 0        | 0              | 0              | 0               | 0                | 0           | 0             | 0               | 0                |
|         | <b>Total</b> | <b>-35064.07</b>  | <b>6190</b> | <b>241.96</b>  | <b>-5948.04</b>  | <b>-41012.11</b>  | <b>3307.26</b>  | <b>0</b> | <b>82.27</b>   | <b>82.27</b>   | <b>3389.53</b>  | <b>0</b>         | <b>5015</b> | <b>346.64</b> | <b>-4668.36</b> | <b>-4668.36</b>  |
| 2003-04 | Deodar       | -16492.07         | 2400        | 7.08           | -2392.92         | -18884.99         | 1602            | 0        | 12.17          | 12.17          | 1614.17         | -23780.07        | 3400        | 0             | -3400           | -27180.07        |
|         | Kail         | -11254.13         | 1700        | 0              | -1700            | -12954.13         | 1769.41         | 0        | 324.61         | 324.61         | 2094.02         | -2691.81         | 400         | 0             | -400            | -3091.81         |
|         | Rai/Fir      | -12635.91         | 2000        | 10.26          | -1989.74         | -14625.65         | 18.12           | 0        | 0              | 0              | 18.12           | -8176.67         | 1200        | 0             | -1200           | -9376.67         |
|         | Chil         | -630              | 90          | 0.14           | -89.86           | -719.86           | 0               | 0        | 0              | 0              | 0               | -105             | 15          | 0             | -15             | -120             |
|         | OBL          | 0                 | 0           | 0              | 0                | 0                 | 0               | 0        | 0              | 0              | 0               | 0                | 0           | 0             | 0               | 0                |
|         | <b>Total</b> | <b>-41012.11</b>  | <b>6190</b> | <b>17.48</b>   | <b>-6172.52</b>  | <b>-47184.63</b>  | <b>3389.53</b>  | <b>0</b> | <b>336.78</b>  | <b>336.78</b>  | <b>3726.31</b>  | <b>-34753.55</b> | <b>5015</b> | <b>0</b>      | <b>-5015</b>    | <b>-39768.55</b> |
| 2004-05 | Deodar       | -18884.99         | 2400        | 36.29          | -2363.71         | -21248.7          | 1614.17         | 0        | 7.08           | 7.08           | 1621.25         | -27180.07        | 3400        | 38.55         | -3361.45        | -30541.52        |
|         | Kail         | -12954.13         | 1700        | 18.44          | -1681.56         | -14635.69         | 2094.02         | 0        | 339.91         | 339.91         | 2433.93         | -3091.81         | 400         | 0.84          | -399.16         | -3490.97         |
|         | Rai/Fir      | -14625.65         | 2000        | 0              | -2000            | -16625.65         | 18.12           | 0        | 0              | 0              | 18.12           | -9376.67         | 1200        | 0             | -1200           | -10576.67        |
|         | Chil         | -719.86           | 90          | 0              | -90              | -809.86           | 0               | 0        | 0              | 0              | 0               | -120             | 15          | 0             | -15             | -135             |
|         | OBL          | 0                 | 0           | 0              | 0                | 0                 | 0               | 0        | 0              | 0              | 0               | 0                | 0           | 0             | 0               | 0                |
|         | <b>Total</b> | <b>-47184.63</b>  | <b>6190</b> | <b>54.73</b>   | <b>-6135.27</b>  | <b>-53319.9</b>   | <b>3726.31</b>  | <b>0</b> | <b>346.99</b>  | <b>346.99</b>  | <b>4073.3</b>   | <b>-39768.55</b> | <b>5015</b> | <b>39.39</b>  | <b>-4975.61</b> | <b>-44744.16</b> |
| 2005-06 | Deodar       | -21248.7          | 2400        | 0              | -2400            | -23648.7          | 1621.25         | 0        | 88.71          | 88.71          | 1709.96         | -30541.52        | 3400        | 73.78         | -3326.22        | -33867.74        |
|         | Kail         | -14635.69         | 1700        | 13.03          | -1686.97         | -16322.66         | 2433.93         | 0        | 107.51         | 107.51         | 2541.44         | -3490.97         | 400         | 34.38         | -365.62         | -3856.59         |
|         | Rai/Fir      | -16625.65         | 2000        | 0              | -2000            | -18625.65         | 18.12           | 0        | 0              | 0              | 18.12           | -10576.67        | 1200        | 0             | -1200           | -11776.67        |
|         | Chil         | -809.86           | 90          | 0              | -90              | -899.86           | 0               | 0        | 0              | 0              | 0               | -135             | 15          | 0             | -15             | -150             |
|         | OBL          | 0                 | 0           | 0              | 0                | 0                 | 0               | 0        | 0              | 0              | 0               | 0                | 0           | 0             | 0               | 0                |
|         | <b>Total</b> | <b>-53319.9</b>   | <b>6190</b> | <b>13.03</b>   | <b>-6176.97</b>  | <b>-59496.87</b>  | <b>4073.3</b>   | <b>0</b> | <b>196.22</b>  | <b>196.22</b>  | <b>4269.52</b>  | <b>-44744.16</b> | <b>5015</b> | <b>108.16</b> | <b>-4906.84</b> | <b>-49651</b>    |
| 2006-07 | Deodar       | -23648.7          | 2400        | 0              | -2400            | -26048.7          | 1709.96         | 0        | 0              | 0              | 1709.96         | -33867.74        | 3400        | 0             | -3400           | -37267.74        |
|         | Kail         | -16322.66         | 1700        | 7.36           | -1692.64         | -18015.3          | 2541.44         | 0        | 9.64           | 9.64           | 2551.08         | -3856.59         | 400         | 0             | -400            | -4256.59         |
|         | Rai/Fir      | -18625.65         | 2000        | 1.7            | -1998.3          | -20623.95         | 18.12           | 0        | 0              | 0              | 18.12           | -11776.67        | 1200        | 0             | -1200           | -12976.67        |
|         | Chil         | -899.86           | 90          | 0              | -90              | -989.86           | 0               | 0        | 0              | 0              | 0               | -150             | 15          | 0             | -15             | -165             |
|         | OBL          | 0                 | 0           | 0              | 0                | 0                 | 0               | 0        | 0              | 0              | 0               | 0                | 0           | 0             | 0               | 0                |
|         | <b>Total</b> | <b>-59496.87</b>  | <b>6190</b> | <b>9.06</b>    | <b>-6180.94</b>  | <b>-65677.81</b>  | <b>4269.52</b>  | <b>0</b> | <b>9.64</b>    | <b>9.64</b>    | <b>4279.16</b>  | <b>-49651</b>    | <b>5015</b> | <b>0</b>      | <b>-5015</b>    | <b>-54666</b>    |
| 2007-08 | Deodar       | -26048.7          | 2400        | 0.42           | -2399.58         | -28448.28         | 1709.96         | 0        | 22.42          | 22.42          | 1732.38         | -37267.74        | 3400        | 0             | -3400           | -40667.74        |
|         | Kail         | -18015.3          | 1700        | 25.2           | -1674.8          | -19690.1          | 2551.08         | 0        | 30.98          | 30.98          | 2582.06         | -4256.59         | 400         | 0             | -400            | -4656.59         |
|         | Rai/Fir      | -20623.95         | 2000        | 0              | -2000            | -22623.95         | 18.12           | 0        | 336.75         | 336.75         | 354.87          | -12976.67        | 1200        | 0             | -1200           | -14176.67        |
|         | Chil         | -989.86           | 90          | 0              | -90              | -1079.86          | 0               | 0        | 0              | 0              | 0               | -165             | 15          | 0             | -15             | -180             |
|         | OBL          | 0                 | 0           | 61.919         | 61.919           | 61.919            | 0               | 0        | 105.978        | 105.978        | 105.978         | 0                | 0           | 0             | 0               | 0                |
|         | <b>Total</b> | <b>-65677.81</b>  | <b>6190</b> | <b>87.539</b>  | <b>-6102.461</b> | <b>-71780.271</b> | <b>4279.16</b>  | <b>0</b> | <b>496.128</b> | <b>496.128</b> | <b>4775.288</b> | <b>-54666</b>    | <b>5015</b> | <b>0</b>      | <b>-5015</b>    | <b>-59681</b>    |
| 2008-09 | Deodar       | -28448.28         | 2400        | 173.85         | -2226.15         | -30674.43         | 1732.38         | 0        | 138.97         | 138.97         | 1871.35         | -40667.74        | 3400        | 172.58        | -3227.42        | -43895.16        |
|         | Kail         | -19690.1          | 1700        | 0              | -1700            | -21390.1          | 2582.06         | 0        | 362.58         | 362.58         | 2944.64         | -4656.59         | 400         | 0             | -400            | -5056.59         |
|         | Rai/Fir      | -22623.95         | 2000        | 0.2            | -1999.8          | -24623.75         | 354.87          | 0        | 100.29         | 100.29         | 455.16          | -14176.67        | 1200        | 0             | -1200           | -15376.67        |
|         | Chil         | -1079.86          | 90          | 0              | -90              | -1169.86          | 0               | 0        | 0              | 0              | 0               | -180             | 15          | 0             | -15             | -195             |
|         | OBL          | 61.919            | 0           | 0              | 0                | 61.919            | 105.978         | 0        | 0              | 0              | 105.978         | 0                | 0           | 0             | 0               | 0                |
|         | <b>Total</b> | <b>-71780.271</b> | <b>6190</b> | <b>174.05</b>  | <b>-6015.95</b>  | <b>-77796.221</b> | <b>4775.288</b> | <b>0</b> | <b>601.84</b>  | <b>601.84</b>  | <b>5377.128</b> | <b>-59681</b>    | <b>5015</b> | <b>172.58</b> | <b>-4842.42</b> | <b>-64523.42</b> |
| 2009-10 | Deodar       | -30674.43         | 2400        | 0              | -2400            | -33074.43         | 1871.35         | 0        | 0              | 0              | 1871.35         | -43895.16        | 3400        | 0             | -3400           | -47295.16        |
|         | Kail         | -21390.1          | 1700        | 0              | -1700            | -23090.1          | 2944.64         | 0        | 0              | 0              | 2944.64         | -5056.59         | 400         | 0             | -400            | -5456.59         |
|         | Rai/Fir      | -24623.75         | 2000        | 1938.67        | -61.33           | -24685.08         | 455.16          | 0        | 0              | 0              | 455.16          | -15376.67        | 1200        | 0             | -1200           | -16576.67        |
|         | Chil         | -1169.86          | 90          | 0              | -90              | -1259.86          | 0               | 0        | 0              | 0              | 0               | -195             | 15          | 0             | -15             | -210             |
|         | OBL          | 61.919            | 0           | 0              | 0                | 61.919            | 105.978         | 0        | 0              | 0              | 105.978         | 0                | 0           | 0             | 0               | 0                |
|         | <b>Total</b> | <b>-77796.221</b> | <b>6190</b> | <b>1938.67</b> | <b>-4251.33</b>  | <b>-82047.551</b> | <b>5377.128</b> | <b>0</b> | <b>0</b>       | <b>0</b>       | <b>5377.128</b> | <b>-64523.42</b> | <b>5015</b> | <b>0</b>      | <b>-5015</b>    | <b>-69538.42</b> |
| 2010-11 | Deodar       | -33074.43         | 2400        | 0              | -2400            | -35474.43         | 1871.35         | 0        | 0              | 0              | 1871.35         | -47295.16        | 3400        | 0             | -3400           | -50695.16        |
|         | Kail         | -23090.1          | 1700        | 0              | -1700            | -24790.1          | 2944.64         | 0        | 0              | 0              | 2944.64         | -5456.59         | 400         | 0             | -400            | -5856.59         |

|         |              |                    |             |               |                 |                    |                 |          |               |               |                 |                  |             |             |                 |                  |
|---------|--------------|--------------------|-------------|---------------|-----------------|--------------------|-----------------|----------|---------------|---------------|-----------------|------------------|-------------|-------------|-----------------|------------------|
|         | Rai/Fir      | -24685.08          | 2000        | 0             | -2000           | -26685.08          | 455.16          | 0        |               | 0             | 455.16          | -16576.67        | 1200        | 0           | -1200           | -17776.67        |
|         | Chil         | -1259.86           | 90          | 0             | -90             | -1349.86           | 0               | 0        |               | 0             | 0               | -210             | 15          | 0           | -15             | -225             |
|         | OBL          | 61.919             | 0           | 0             | 0               | 61.919             | 105.978         | 0        |               | 0             | 105.978         | 0                | 0           | 0           | 0               | 0                |
|         | <b>Total</b> | <b>-82047.551</b>  | <b>6190</b> | <b>0</b>      | <b>-6190</b>    | <b>-88237.551</b>  | <b>5377.128</b> | <b>0</b> | <b>0</b>      | <b>0</b>      | <b>5377.128</b> | <b>-69538.42</b> | <b>5015</b> | <b>0</b>    | <b>-5015</b>    | <b>-74553.42</b> |
| 2011-12 | Deodar       | -35474.43          | 2400        | 52.39         | -2347.61        | -37822.04          | 1871.35         | 0        | 144.14        | 144.14        | 2015.49         | -50695.16        | 3400        | 7.36        | -3392.64        | -54087.8         |
|         | Kail         | -24790.1           | 1700        | 0             | -1700           | -26490.1           | 2944.64         | 0        | 0             | 0             | 2944.64         | -5856.59         | 400         | 0           | -400            | -6256.59         |
|         | Rai/Fir      | -26685.08          | 2000        | 0             | -2000           | -28685.08          | 455.16          | 0        | 0             | 0             | 455.16          | -17776.67        | 1200        | 0           | -1200           | -18976.67        |
|         | Chil         | -1349.86           | 90          | 0             | -90             | -1439.86           | 0               | 0        | 0             | 0             | 0               | -225             | 15          | 0           | -15             | -240             |
|         | OBL          | 61.919             | 0           | 0             | 0               | 61.919             | 105.978         | 0        | 0             | 0             | 105.978         | 0                | 0           | 0           | 0               | 0                |
|         | <b>Total</b> | <b>-88237.551</b>  | <b>6190</b> | <b>52.39</b>  | <b>-6137.61</b> | <b>-94375.161</b>  | <b>5377.128</b> | <b>0</b> | <b>144.14</b> | <b>144.14</b> | <b>5521.268</b> | <b>-74553.42</b> | <b>5015</b> | <b>7.36</b> | <b>-5007.64</b> | <b>-79561.06</b> |
| 2012-13 | Deodar       | -37822.04          | 2400        | 3.8           | -2396.2         | -40218.24          | 2015.49         | 0        | 0             | 0             | 2015.49         | -54087.8         | 3400        | 0           | -3400           | -57487.8         |
|         | Kail         | -26490.1           | 1700        | 91.81         | -1608.19        | -28098.29          | 2944.64         | 0        | 9.62          | 9.62          | 2954.26         | -6256.59         | 400         | 0           | -400            | -6656.59         |
|         | Rai/Fir      | -28685.08          | 2000        | 104.76        | -1895.24        | -30580.32          | 455.16          | 0        | 0             | 0             | 455.16          | -18976.67        | 1200        | 0           | -1200           | -20176.67        |
|         | Chil         | -1439.86           | 90          | 0             | -90             | -1529.86           | 0               | 0        | 0             | 0             | 0               | -240             | 15          | 0           | -15             | -255             |
|         | OBL          | 61.919             | 0           | 0             | 0               | 61.919             | 105.978         | 0        | 0             | 0             | 105.978         | 0                | 0           | 0           | 0               | 0                |
|         | <b>Total</b> | <b>-94375.161</b>  | <b>6190</b> | <b>200.37</b> | <b>-5989.63</b> | <b>-100364.791</b> | <b>5521.268</b> | <b>0</b> | <b>9.62</b>   | <b>9.62</b>   | <b>5530.888</b> | <b>-79561.06</b> | <b>5015</b> | <b>0</b>    | <b>-5015</b>    | <b>-84576.06</b> |
| 2013-14 | Deodar       | -40218.24          | 2400        | 15.81         | -2384.19        | -42602.43          | 2015.49         | 0        | 318.67        | 318.67        | 2334.16         | -57487.8         | 3400        | 66.7        | -3333.3         | -60821.1         |
|         | Kail         | -28098.29          | 1700        | 0             | -1700           | -29798.29          | 2954.26         | 0        | 2.67          | 2.67          | 2956.93         | -6656.59         | 400         | 0           | -400            | -7056.59         |
|         | Rai/Fir      | -30580.32          | 2000        | 0             | -2000           | -32580.32          | 455.16          | 0        | 0             | 0             | 455.16          | -20176.67        | 1200        | 0           | -1200           | -21376.67        |
|         | Chil         | -1529.86           | 90          | 0             | -90             | -1619.86           | 0               | 0        | 0             | 0             | 0               | -255             | 15          | 0           | -15             | -270             |
|         | OBL          | 61.919             | 0           | 0             | 0               | 61.919             | 105.978         | 0        | 0             | 0             | 105.978         | 0                | 0           | 0           | 0               | 0                |
|         | <b>Total</b> | <b>-100364.791</b> | <b>6190</b> | <b>15.81</b>  | <b>-6174.19</b> | <b>-106538.981</b> | <b>5530.888</b> | <b>0</b> | <b>321.34</b> | <b>321.34</b> | <b>5852.228</b> | <b>-84576.06</b> | <b>5015</b> | <b>66.7</b> | <b>-4948.3</b>  | <b>-89524.36</b> |

| GENERAL ABSTRACT OF PAST YIELD REMOVED |                        |                               |                     |                    |                               |                        |                               |                     |                  |                               |                        |                               |                     |                  |                               |
|----------------------------------------|------------------------|-------------------------------|---------------------|--------------------|-------------------------------|------------------------|-------------------------------|---------------------|------------------|-------------------------------|------------------------|-------------------------------|---------------------|------------------|-------------------------------|
| Deodar Kail Working Circle             |                        |                               |                     |                    |                               |                        |                               |                     |                  |                               |                        |                               |                     |                  |                               |
| Species                                | PB-I                   |                               |                     |                    |                               | PB- II&III             |                               |                     |                  |                               | PB-IV                  |                               |                     |                  |                               |
|                                        | Previous Balance in M3 | Prescribed annual yield in m3 | Yield removed in m3 | Excess / Deficit   | Accummulative Deviation in m3 | Previous Balance in M3 | Prescribed annual yield in m3 | Yield removed in m3 | Excess / Deficit | Accummulative Deviation in m3 | Previous Balance in M3 | Prescribed annual yield in m3 | Yield removed in m3 | Excess / Deficit | Accummulative Deviation in m3 |
| Deodar                                 | -361813.71             | 43200                         | 597.57              | -42602.43          | -404416.14                    | 27437.79               | 0                             | 2334.16             | 2334.16          | 29771.95                      | -497741.91             | 61200                         | 378.9               | -60821.1         | -558563.01                    |
| Kail                                   | -250825.64             | 30600                         | 801.71              | -29798.29          | -280623.93                    | 36826.23               | 0                             | 2956.93             | 2956.93          | 39783.16                      | -57327.31              | 7200                          | 143.41              | -7056.59         | -64383.9                      |
| Rai/Fir                                | -281596.97             | 36000                         | 3419.68             | -32580.32          | -314177.29                    | 2811.33                | 0                             | 455.16              | 455.16           | 3266.49                       | -173943.37             | 21600                         | 223.33              | -21376.67        | -195320.04                    |
| Chil                                   | -13768.6               | 1620                          | 0.14                | -1619.86           | -15388.46                     | 0                      | 0                             | 0                   | 0                | 0                             | -2205                  | 270                           | 0                   | -270             | -2475                         |
| OBL                                    | 371.514                | 0                             | 61.919              | 61.919             | 433.433                       | 635.868                | 0                             | 105.978             | 105.978          | 741.846                       | 0                      | 0                             | 0                   | 0                | 0                             |
| <b>Total</b>                           | <b>-907754.056</b>     | <b>111420</b>                 | <b>4760.369</b>     | <b>-106659.631</b> | <b>-1014413.687</b>           | <b>67708.678</b>       | <b>0</b>                      | <b>5850.958</b>     | <b>5850.958</b>  | <b>73560.906</b>              | <b>-731217.59</b>      | <b>90270</b>                  | <b>745.64</b>       | <b>-89524.36</b> | <b>-820741.95</b>             |

| STATEMENT OF PAST YIELD REMOVED |              |                        |                               |                     |                  |                               |                        |                               |                     |                  |                               |                        |                               |                     |                  |                               |
|---------------------------------|--------------|------------------------|-------------------------------|---------------------|------------------|-------------------------------|------------------------|-------------------------------|---------------------|------------------|-------------------------------|------------------------|-------------------------------|---------------------|------------------|-------------------------------|
| Fir/Spruce Working Circle       |              |                        |                               |                     |                  |                               |                        |                               |                     |                  |                               |                        |                               |                     |                  |                               |
| Year                            | Species      | PB-I                   |                               |                     |                  |                               | PB- II&III             |                               |                     |                  |                               | PB-IV                  |                               |                     |                  |                               |
|                                 |              | Previous Balance in M3 | Prescribed annual yield in m3 | Yield removed in m3 | Excess / Deficit | Accummulative Deviation in m3 | Previous Balance in M3 | Prescribed annual yield in m3 | Yield removed in m3 | Excess / Deficit | Accummulative Deviation in m3 | Previous Balance in M3 | Prescribed annual yield in m3 | Yield removed in m3 | Excess / Deficit | Accummulative Deviation in m3 |
| 1996-97                         | Deodar       | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 8.56                | 8.56             | 8.56                          | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | Kail         | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 34.1                | 34.1             | 34.1                          | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | Rai/Fir      | 0                      | 3900                          | 0                   | -3900            | -3900                         | 0                      | 0                             | 716.93              | 716.93           | 716.93                        | 0                      | 800                           | 0                   | -800             | -800                          |
|                                 | Chil         | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | OBL          | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | <b>Total</b> | <b>0</b>               | <b>3900</b>                   | <b>0</b>            | <b>-3900</b>     | <b>-3900</b>                  | <b>0</b>               | <b>0</b>                      | <b>759.59</b>       | <b>759.59</b>    | <b>759.59</b>                 | <b>0</b>               | <b>800</b>                    | <b>0</b>            | <b>-800</b>      | <b>-800</b>                   |
| 1997-98                         | Deodar       | 0                      | 0                             | 0                   | 0                | 0                             | 8.56                   | 0                             | 38.16               | 38.16            | 46.72                         | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | Kail         | 0                      | 0                             | 0                   | 0                | 0                             | 34.1                   | 0                             | 79.33               | 79.33            | 113.43                        | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | Rai/Fir      | -3900                  | 3900                          | 0                   | -3900            | -7800                         | 716.93                 | 0                             | 231.98              | 231.98           | 948.91                        | -800                   | 800                           | 0                   | -800             | -1600                         |
|                                 | Chil         | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | OBL          | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | <b>Total</b> | <b>-3900</b>           | <b>3900</b>                   | <b>0</b>            | <b>-3900</b>     | <b>-7800</b>                  | <b>759.59</b>          | <b>0</b>                      | <b>349.47</b>       | <b>349.47</b>    | <b>1109.06</b>                | <b>-800</b>            | <b>800</b>                    | <b>0</b>            | <b>-800</b>      | <b>-1600</b>                  |
| 1998-99                         | Deodar       | 0                      | 0                             | 0                   | 0                | 0                             | 46.72                  | 0                             | 67.11               | 67.11            | 113.83                        | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | Kail         | 0                      | 0                             | 0                   | 0                | 0                             | 113.43                 | 0                             | 2.3                 | 2.3              | 115.73                        | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | Rai/Fir      | -7800                  | 3900                          | 0                   | -3900            | -11700                        | 948.91                 | 0                             | 1897.68             | 1897.68          | 2846.59                       | -1600                  | 800                           | 0                   | -800             | -2400                         |
|                                 | Chil         | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | OBL          | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | <b>Total</b> | <b>-7800</b>           | <b>3900</b>                   | <b>0</b>            | <b>-3900</b>     | <b>-11700</b>                 | <b>1109.06</b>         | <b>0</b>                      | <b>1967.09</b>      | <b>1967.09</b>   | <b>3076.15</b>                | <b>-1600</b>           | <b>800</b>                    | <b>0</b>            | <b>-800</b>      | <b>-2400</b>                  |
| 1999-00                         | Deodar       | 0                      | 0                             | 0                   | 0                | 0                             | 113.83                 | 0                             | 0                   | 0                | 113.83                        | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | Kail         | 0                      | 0                             | 0                   | 0                | 0                             | 115.73                 | 0                             | 0                   | 0                | 115.73                        | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | Rai/Fir      | -11700                 | 3900                          | 0                   | -3900            | -15600                        | 2846.59                | 0                             | 0                   | 0                | 2846.59                       | -2400                  | 800                           | 0                   | -800             | -3200                         |
|                                 | Chil         | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | OBL          | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | <b>Total</b> | <b>-11700</b>          | <b>3900</b>                   | <b>0</b>            | <b>-3900</b>     | <b>-15600</b>                 | <b>3076.15</b>         | <b>0</b>                      | <b>0</b>            | <b>0</b>         | <b>3076.15</b>                | <b>-2400</b>           | <b>800</b>                    | <b>0</b>            | <b>-800</b>      | <b>-3200</b>                  |
| 2000-01                         | Deodar       | 0                      | 0                             | 0                   | 0                | 0                             | 113.83                 | 0                             | 1.26                | 1.26             | 115.09                        | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | Kail         | 0                      | 0                             | 0                   | 0                | 0                             | 115.73                 | 0                             | 0                   | 0                | 115.73                        | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | Rai/Fir      | -15600                 | 3900                          | 0                   | -3900            | -19500                        | 2846.59                | 0                             | 0                   | 0                | 2846.59                       | -3200                  | 800                           | 0                   | -800             | -4000                         |
|                                 | Chil         | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | OBL          | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | <b>Total</b> | <b>-15600</b>          | <b>3900</b>                   | <b>0</b>            | <b>-3900</b>     | <b>-19500</b>                 | <b>3076.15</b>         | <b>0</b>                      | <b>1.26</b>         | <b>1.26</b>      | <b>3077.41</b>                | <b>-3200</b>           | <b>800</b>                    | <b>0</b>            | <b>-800</b>      | <b>-4000</b>                  |
| 2001-02                         | Deodar       | 0                      | 0                             | 0                   | 0                | 0                             | 115.09                 | 0                             | 37.93               | 37.93            | 153.02                        | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | Kail         | 0                      | 0                             | 0                   | 0                | 0                             | 115.73                 | 0                             | 57.41               | 57.41            | 173.14                        | 0                      | 0                             | 7.78                | 7.78             | 7.78                          |
|                                 | Rai/Fir      | -19500                 | 3900                          | 1282.55             | -2617.45         | -22117.45                     | 2846.59                | 0                             | 69.65               | 69.65            | 2916.24                       | -4000                  | 800                           | 1251.14             | 451.14           | -3548.86                      |
|                                 | Chil         | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | OBL          | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | <b>Total</b> | <b>-19500</b>          | <b>3900</b>                   | <b>1282.55</b>      | <b>-2617.45</b>  | <b>-22117.45</b>              | <b>3077.41</b>         | <b>0</b>                      | <b>164.99</b>       | <b>164.99</b>    | <b>3242.4</b>                 | <b>-4000</b>           | <b>800</b>                    | <b>1258.92</b>      | <b>458.92</b>    | <b>-3541.08</b>               |
| 2002-03                         | Deodar       | 0                      | 0                             | 0                   | 0                | 0                             | 153.02                 | 0                             | 24.69               | 24.69            | 177.71                        | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | Kail         | 0                      | 0                             | 7.35                | 7.35             | 7.35                          | 173.14                 | 0                             | 79.74               | 79.74            | 252.88                        | 7.78                   | 0                             | 0                   | 0                | 7.78                          |
|                                 | Rai/Fir      | 0                      | 3900                          | 1034.41             | -2865.59         | -2865.59                      | 2916.24                | 0                             | 768.5               | 768.5            | 3684.74                       | -3548.86               | 800                           | 0                   | -800             | -4348.86                      |

|         |              |                   |             |                |                  |                   |                  |          |                 |                 |                  |                 |            |          |             |                 |
|---------|--------------|-------------------|-------------|----------------|------------------|-------------------|------------------|----------|-----------------|-----------------|------------------|-----------------|------------|----------|-------------|-----------------|
|         | Chil         | 0                 | 0           | 0              | 0                | 0                 | 0                | 0        | 0               | 0               | 0                | 0               | 0          | 0        | 0           | 0               |
|         | OBL          | 0                 | 0           | 0              | 0                | 0                 | 0                | 0        | 1090.6          | 1090.6          | 1090.6           | 0               | 0          | 0        | 0           | 0               |
|         | <b>Total</b> | <b>0</b>          | <b>3900</b> | <b>1041.76</b> | <b>-2858.24</b>  | <b>-2858.24</b>   | <b>3242.4</b>    | <b>0</b> | <b>1963.53</b>  | <b>1963.53</b>  | <b>5205.93</b>   | <b>-3541.08</b> | <b>800</b> | <b>0</b> | <b>-800</b> | <b>-4341.08</b> |
| 2003-04 | Deodar       | 0                 | 0           | 0              | 0                | 0                 | 177.71           | 0        | 0               | 59.92           | 237.63           | 0               | 0          | 0        | 0           | 0               |
|         | Kail         | 7.35              | 0           | 0              | 0                | 7.35              | 252.88           | 0        | 0               | 171.14          | 424.02           | 7.78            | 0          | 0        | 0           | 7.78            |
|         | Rai/Fir      | -24983.04         | 3900        | 0              | -3900            | -28883.04         | 3684.74          | 0        | 0               | 2528.56         | 6213.3           | -4348.86        | 800        | 0        | -800        | -5148.86        |
|         | Chil         | 0                 | 0           | 0              | 0                | 0                 | 0                | 0        | 0               | 0               | 0                | 0               | 0          | 0        | 0           | 0               |
|         | OBL          | 0                 | 0           | 0              | 0                | 0                 | 1090.6           | 0        | 0               | 1376.5          | 2467.1           | 0               | 0          | 0        | 0           | 0               |
|         | <b>Total</b> | <b>-24975.69</b>  | <b>3900</b> | <b>0</b>       | <b>-3900</b>     | <b>-28875.69</b>  | <b>5205.93</b>   | <b>0</b> | <b>0</b>        | <b>4136.12</b>  | <b>9342.05</b>   | <b>-4341.08</b> | <b>800</b> | <b>0</b> | <b>-800</b> | <b>-5141.08</b> |
| 2004-05 | Deodar       | 0                 | 0           | 0              | 0                | 0                 | 237.63           | 0        | 0               | 0               | 237.63           | 0               | 0          | 0        | 0           | 0               |
|         | Kail         | 7.35              | 0           | 0              | 0                | 7.35              | 424.02           | 0        | 0               | 0               | 424.02           | 7.78            | 0          | 0        | 0           | 7.78            |
|         | Rai/Fir      | -28883.04         | 3900        | 0              | -3900            | -32783.04         | 6213.3           | 0        | 1881.15         | 1881.15         | 8094.45          | -5148.86        | 800        | 0        | -800        | -5948.86        |
|         | Chil         | 0                 | 0           | 0              | 0                | 0                 | 0                | 0        | 0               | 0               | 0                | 0               | 0          | 0        | 0           | 0               |
|         | OBL          | 0                 | 0           | 0              | 0                | 0                 | 2467.1           | 0        | 57.937          | 57.937          | 2525.037         | 0               | 0          | 0        | 0           | 0               |
|         | <b>Total</b> | <b>-28875.69</b>  | <b>3900</b> | <b>0</b>       | <b>-3900</b>     | <b>-32775.69</b>  | <b>9342.05</b>   | <b>0</b> | <b>1939.087</b> | <b>1939.087</b> | <b>11281.137</b> | <b>-5141.08</b> | <b>800</b> | <b>0</b> | <b>-800</b> | <b>-5941.08</b> |
| 2005-06 | Deodar       | 0                 | 0           | 0              | 0                | 0                 | 237.63           | 0        | 29.33           | 29.33           | 266.96           | 0               | 0          | 0        | 0           | 0               |
|         | Kail         | 7.35              | 0           | 27.67          | 27.67            | 35.02             | 424.02           | 0        | 21.38           | 21.38           | 445.4            | 7.78            | 0          | 0        | 0           | 7.78            |
|         | Rai/Fir      | -32783.04         | 3900        | 77.84          | -3822.16         | -36605.2          | 8094.45          | 0        | 216.71          | 216.71          | 8311.16          | -5948.86        | 800        | 0        | -800        | -6748.86        |
|         | Chil         | 0                 | 0           | 0              | 0                | 0                 | 0                | 0        | 0               | 0               | 0                | 0               | 0          | 0        | 0           | 0               |
|         | OBL          | 0                 | 0           | 0              | 0                | 0                 | 2525.037         | 0        | 0               | 0               | 2525.037         | 0               | 0          | 0        | 0           | 0               |
|         | <b>Total</b> | <b>-32775.69</b>  | <b>3900</b> | <b>105.51</b>  | <b>-3794.49</b>  | <b>-36570.18</b>  | <b>11281.137</b> | <b>0</b> | <b>267.42</b>   | <b>267.42</b>   | <b>11548.557</b> | <b>-5941.08</b> | <b>800</b> | <b>0</b> | <b>-800</b> | <b>-6741.08</b> |
| 2006-07 | Deodar       | 0                 | 0           | 0              | 0                | 0                 | 266.96           | 0        | 0               | 0               | 266.96           | 0               | 0          | 0        | 0           | 0               |
|         | Kail         | 35.02             | 0           | 0              | 0                | 35.02             | 445.4            | 0        | 0               | 0               | 445.4            | 7.78            | 0          | 0        | 0           | 7.78            |
|         | Rai/Fir      | -36605.2          | 3900        | 10.2           | -3889.8          | -40495            | 8311.16          | 0        | 0               | 0               | 8311.16          | -6748.86        | 800        | 0        | -800        | -7548.86        |
|         | Chil         | 0                 | 0           | 0              | 0                | 0                 | 0                | 0        | 0               | 0               | 0                | 0               | 0          | 0        | 0           | 0               |
|         | OBL          | 0                 | 0           | 0              | 0                | 0                 | 2525.037         | 0        | 0               | 0               | 2525.037         | 0               | 0          | 0        | 0           | 0               |
|         | <b>Total</b> | <b>-36570.18</b>  | <b>3900</b> | <b>10.2</b>    | <b>-3889.8</b>   | <b>-40459.98</b>  | <b>11548.557</b> | <b>0</b> | <b>0</b>        | <b>0</b>        | <b>11548.557</b> | <b>-6741.08</b> | <b>800</b> | <b>0</b> | <b>-800</b> | <b>-7541.08</b> |
| 2007-08 | Deodar       | 0                 | 0           | 0              | 0                | 0                 | 266.96           | 0        | 0               | 0               | 266.96           | 0               | 0          | 0        | 0           | 0               |
|         | Kail         | 35.02             | 0           | 0              | 0                | 35.02             | 445.4            | 0        | 0               | 0               | 445.4            | 7.78            | 0          | 0        | 0           | 7.78            |
|         | Rai/Fir      | -40495            | 3900        | 0              | -3900            | -44395            | 8311.16          | 0        | 0               | 0               | 8311.16          | -7548.86        | 800        | 0        | -800        | -8348.86        |
|         | Chil         | 0                 | 0           | 0              | 0                | 0                 | 0                | 0        | 0               | 0               | 0                | 0               | 0          | 0        | 0           | 0               |
|         | OBL          | 0                 | 0           | 756.954        | 756.954          | 756.954           | 2525.037         | 0        | 614.204         | 614.204         | 3139.241         | 0               | 0          | 0        | 0           | 0               |
|         | <b>Total</b> | <b>-40459.98</b>  | <b>3900</b> | <b>756.954</b> | <b>-3143.046</b> | <b>-43603.026</b> | <b>11548.557</b> | <b>0</b> | <b>614.204</b>  | <b>614.204</b>  | <b>12162.761</b> | <b>-7541.08</b> | <b>800</b> | <b>0</b> | <b>-800</b> | <b>-8341.08</b> |
| 2008-09 | Deodar       | 0                 | 0           | 0              | 0                | 0                 | 266.96           | 0        | 8.63            | 8.63            | 275.59           | 0               | 0          | 0        | 0           | 0               |
|         | Kail         | 35.02             | 0           | 0              | 0                | 35.02             | 445.4            | 0        | 0               | 0               | 445.4            | 7.78            | 0          | 0        | 0           | 7.78            |
|         | Rai/Fir      | -44395            | 3900        | 0              | -3900            | -48295            | 8311.16          | 0        | 1212.05         | 1212.05         | 9523.21          | -8348.86        | 800        | 0        | -800        | -9148.86        |
|         | Chil         | 0                 | 0           | 0              | 0                | 0                 | 0                | 0        | 0               | 0               | 0                | 0               | 0          | 0        | 0           | 0               |
|         | OBL          | 756.954           | 0           | 0              | 0                | 756.954           | 3139.241         | 0        | 0               | 0               | 3139.241         | 0               | 0          | 0        | 0           | 0               |
|         | <b>Total</b> | <b>-43603.026</b> | <b>3900</b> | <b>0</b>       | <b>-3900</b>     | <b>-47503.026</b> | <b>12162.761</b> | <b>0</b> | <b>1220.68</b>  | <b>1220.68</b>  | <b>13383.441</b> | <b>-8341.08</b> | <b>800</b> | <b>0</b> | <b>-800</b> | <b>-9141.08</b> |
| 2009-10 | Deodar       | 0                 | 0           | 0              | 0                | 0                 | 275.59           | 0        | 0               | 0               | 275.59           | 0               | 0          | 0        | 0           | 0               |
|         | Kail         | 35.02             | 0           | 0              | 0                | 35.02             | 445.4            | 0        | 0               | 0               | 445.4            | 7.78            | 0          | 0        | 0           | 7.78            |
|         | Rai/Fir      | -48295            | 3900        | 0              | -3900            | -52195            | 9523.21          | 0        | 0               | 0               | 9523.21          | -9148.86        | 800        | 0        | -800        | -9948.86        |
|         | Chil         | 0                 | 0           | 0              | 0                | 0                 | 0                | 0        | 0               | 0               | 0                | 0               | 0          | 0        | 0           | 0               |
|         | OBL          | 756.954           | 0           | 0              | 0                | 756.954           | 3139.241         | 0        | 0               | 0               | 3139.241         | 0               | 0          | 0        | 0           | 0               |
|         | <b>Total</b> | <b>-47503.026</b> | <b>3900</b> | <b>0</b>       | <b>-3900</b>     | <b>-51403.026</b> | <b>13383.441</b> | <b>0</b> | <b>0</b>        | <b>0</b>        | <b>13383.441</b> | <b>-9141.08</b> | <b>800</b> | <b>0</b> | <b>-800</b> | <b>-9941.08</b> |
| 2010-11 | Deodar       | 0                 | 0           | 0              | 0                | 0                 | 275.59           | 0        | 0               | 0               | 275.59           | 0               | 0          | 0        | 0           | 0               |
|         | Kail         | 35.02             | 0           | 0              | 0                | 35.02             | 445.4            | 0        | 0               | 0               | 445.4            | 7.78            | 0          | 0        | 0           | 7.78            |

|         |              |                   |             |          |              |                   |                  |          |          |          |                  |                  |            |          |             |                  |
|---------|--------------|-------------------|-------------|----------|--------------|-------------------|------------------|----------|----------|----------|------------------|------------------|------------|----------|-------------|------------------|
|         | Rai/Fir      | -52195            | 3900        | 0        | -3900        | -56095            | 9523.21          | 0        | 0        | 0        | 9523.21          | -9948.86         | 800        | 0        | -800        | -10748.86        |
|         | Chil         | 0                 | 0           | 0        | 0            | 0                 | 0                | 0        | 0        | 0        | 0                | 0                | 0          | 0        | 0           | 0                |
|         | OBL          | 756.954           | 0           | 0        | 0            | 756.954           | 3139.241         | 0        | 0        | 0        | 3139.241         | 0                | 0          | 0        | 0           | 0                |
|         | <b>Total</b> | <b>-51403.026</b> | <b>3900</b> | <b>0</b> | <b>-3900</b> | <b>-55303.026</b> | <b>13383.441</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>13383.441</b> | <b>-9941.08</b>  | <b>800</b> | <b>0</b> | <b>-800</b> | <b>-10741.08</b> |
| 2011-12 | Deodar       | 0                 | 0           | 0        | 0            | 0                 | 275.59           | 0        | 0        | 0        | 275.59           | 0                | 0          | 0        | 0           | 0                |
|         | Kail         | 35.02             | 0           | 0        | 0            | 35.02             | 445.4            | 0        | 0        | 0        | 445.4            | 7.78             | 0          | 0        | 0           | 7.78             |
|         | Rai/Fir      | -56095            | 3900        | 0        | -3900        | -59995            | 9523.21          | 0        | 0        | 0        | 9523.21          | -10748.86        | 800        | 0        | -800        | -11548.86        |
|         | Chil         | 0                 | 0           | 0        | 0            | 0                 | 0                | 0        | 0        | 0        | 0                | 0                | 0          | 0        | 0           | 0                |
|         | OBL          | 756.954           | 0           | 0        | 0            | 756.954           | 3139.241         | 0        | 0        | 0        | 3139.241         | 0                | 0          | 0        | 0           | 0                |
|         | <b>Total</b> | <b>-55303.026</b> | <b>3900</b> | <b>0</b> | <b>-3900</b> | <b>-59203.026</b> | <b>13383.441</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>13383.441</b> | <b>-10741.08</b> | <b>800</b> | <b>0</b> | <b>-800</b> | <b>-11541.08</b> |
| 2012-13 | Deodar       | 0                 | 0           | 0        | 0            | 0                 | 275.59           | 0        | 0        | 0        | 275.59           | 0                | 0          | 0        | 0           | 0                |
|         | Kail         | 35.02             | 0           | 0        | 0            | 35.02             | 445.4            | 0        | 0        | 0        | 445.4            | 7.78             | 0          | 0        | 0           | 7.78             |
|         | Rai/Fir      | -59995            | 3900        | 0        | -3900        | -63895            | 9523.21          | 0        | 0        | 0        | 9523.21          | -11548.86        | 800        | 0        | -800        | -12348.86        |
|         | Chil         | 0                 | 0           | 0        | 0            | 0                 | 0                | 0        | 0        | 0        | 0                | 0                | 0          | 0        | 0           | 0                |
|         | OBL          | 756.954           | 0           | 0        | 0            | 756.954           | 3139.241         | 0        | 0        | 0        | 3139.241         | 0                | 0          | 0        | 0           | 0                |
|         | <b>Total</b> | <b>-59203.026</b> | <b>3900</b> | <b>0</b> | <b>-3900</b> | <b>-63103.026</b> | <b>13383.441</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>13383.441</b> | <b>-11541.08</b> | <b>800</b> | <b>0</b> | <b>-800</b> | <b>-12341.08</b> |
| 2013-14 | Deodar       | 0                 | 0           | 0        | 0            | 0                 | 275.59           | 0        | 0        | 0        | 275.59           | 0                | 0          | 0        | 0           | 0                |
|         | Kail         | 35.02             | 0           | 0        | 0            | 35.02             | 445.4            | 0        | 0        | 0        | 445.4            | 7.78             | 0          | 0        | 0           | 7.78             |
|         | Rai/Fir      | -63895            | 3900        | 0        | -3900        | -67795            | 9523.21          | 0        | 0        | 0        | 9523.21          | -12348.86        | 800        | 0        | -800        | -13148.86        |
|         | Chil         | 0                 | 0           | 0        | 0            | 0                 | 0                | 0        | 0        | 0        | 0                | 0                | 0          | 0        | 0           | 0                |
|         | OBL          | 756.954           | 0           | 0        | 0            | 756.954           | 3139.241         | 0        | 0        | 0        | 3139.241         | 0                | 0          | 0        | 0           | 0                |
|         | <b>Total</b> | <b>-63103.026</b> | <b>3900</b> | <b>0</b> | <b>-3900</b> | <b>-67003.026</b> | <b>13383.441</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>13383.441</b> | <b>-12341.08</b> | <b>800</b> | <b>0</b> | <b>-800</b> | <b>-13141.08</b> |

| GENERAL ABSTRACT OF PAST YIELD REMOVED |                        |                               |                     |                  |                               |                        |                               |                     |                  |                               |                        |                               |                     |                  |                               |
|----------------------------------------|------------------------|-------------------------------|---------------------|------------------|-------------------------------|------------------------|-------------------------------|---------------------|------------------|-------------------------------|------------------------|-------------------------------|---------------------|------------------|-------------------------------|
| Fir/Spruce Working Circle              |                        |                               |                     |                  |                               |                        |                               |                     |                  |                               |                        |                               |                     |                  |                               |
| Species                                | PB-I                   |                               |                     |                  |                               | PB- II&III             |                               |                     |                  |                               | PB-IV                  |                               |                     |                  |                               |
|                                        | Previous Balance in M3 | Prescribed annual yield in m3 | Yield removed in m3 | Excess / Deficit | Accummulative Deviation in m3 | Previous Balance in M3 | Prescribed annual yield in m3 | Yield removed in m3 | Excess / Deficit | Accummulative Deviation in m3 | Previous Balance in M3 | Prescribed annual yield in m3 | Yield removed in m3 | Excess / Deficit | Accummulative Deviation in m3 |
| Deodar                                 | 0                      | 0                             | 0                   | 0                | 0                             | 3382.85                | 0                             | 215.67              | 275.59           | 3658.44                       | 0                      | 0                             | 0                   | 0                | 0                             |
| Kail                                   | 302.21                 | 0                             | 35.02               | 35.02            | 337.23                        | 5331.98                | 0                             | 274.26              | 445.4            | 5777.38                       | 93.36                  | 0                             | 7.78                | 7.78             | 101.14                        |
| Rai/Fir                                | -547119.32             | 70200                         | 2405                | -67795           | -614914.32                    | 103663.87              | 0                             | 6994.65             | 9523.21          | 113187.08                     | -107386.32             | 14400                         | 1251.14             | -13148.86        | -120535.18                    |
| Chil                                   | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             |
| OBL                                    | 4541.724               | 0                             | 756.954             | 756.954          | 5298.678                      | 29968.257              | 0                             | 1762.741            | 3139.241         | 33107.498                     | 0                      | 0                             | 0                   | 0                | 0                             |
| Total                                  | -542275.39             | 70200                         | 3196.974            | -67003.026       | -609278.412                   | 142346.957             | 0                             | 9247.321            | 13383.441        | 155730.398                    | -107292.96             | 14400                         | 1258.92             | -13141.08        | -120434.04                    |

| STATEMENT OF PAST YIELD REMOVED |              |                        |                               |                     |                  |                               |                        |                               |                     |                  |                               |                        |                               |                     |                  |                               |
|---------------------------------|--------------|------------------------|-------------------------------|---------------------|------------------|-------------------------------|------------------------|-------------------------------|---------------------|------------------|-------------------------------|------------------------|-------------------------------|---------------------|------------------|-------------------------------|
| Chil Working Circle             |              |                        |                               |                     |                  |                               |                        |                               |                     |                  |                               |                        |                               |                     |                  |                               |
| Year                            | Species      | PB-I                   |                               |                     |                  |                               | PB- II&III             |                               |                     |                  |                               | PB-IV                  |                               |                     |                  |                               |
|                                 |              | Previous Balance in M3 | Prescribed annual yield in m3 | Yield removed in m3 | Excess / Deficit | Accummulative Deviation in m3 | Previous Balance in M3 | Prescribed annual yield in m3 | Yield removed in m3 | Excess / Deficit | Accummulative Deviation in m3 | Previous Balance in M3 | Prescribed annual yield in m3 | Yield removed in m3 | Excess / Deficit | Accummulative Deviation in m3 |
| 1996-97                         | Deodar       | 0                      | 20                            | 0                   | -20              | -20                           | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 5                             | 8.35                | 3.35             | 3.35                          |
|                                 | Kail         | 0                      | 5                             | 0                   | -5               | -5                            | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 6                             | 3.54                | -2.46            | -2.46                         |
|                                 | Rai/Fir      | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | Chil         | 0                      | 500                           | 0                   | -500             | -500                          | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 600                           | 0                   | -600             | -600                          |
|                                 | OBL          | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | <b>Total</b> | <b>0</b>               | <b>525</b>                    | <b>0</b>            | <b>-525</b>      | <b>-525</b>                   | <b>0</b>               | <b>0</b>                      | <b>0</b>            | <b>0</b>         | <b>0</b>                      | <b>0</b>               | <b>611</b>                    | <b>11.89</b>        | <b>-599.11</b>   | <b>-599.11</b>                |
| 1997-98                         | Deodar       | -20                    | 20                            | 0                   | -20              | -40                           | 0                      | 0                             | 0                   | 0                | 0                             | 3.35                   | 5                             | 0                   | -5               | -1.65                         |
|                                 | Kail         | -5                     | 5                             | 0                   | -5               | -10                           | 0                      | 0                             | 0                   | 0                | 0                             | -2.46                  | 6                             | 0                   | -6               | -8.46                         |
|                                 | Rai/Fir      | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | Chil         | -500                   | 500                           | 0                   | -500             | -1000                         | 0                      | 0                             | 0                   | 0                | 0                             | -600                   | 600                           | 0                   | -600             | -1200                         |
|                                 | OBL          | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | <b>Total</b> | <b>-525</b>            | <b>525</b>                    | <b>0</b>            | <b>-525</b>      | <b>-1050</b>                  | <b>0</b>               | <b>0</b>                      | <b>0</b>            | <b>0</b>         | <b>0</b>                      | <b>-599.11</b>         | <b>611</b>                    | <b>0</b>            | <b>-611</b>      | <b>-1210.11</b>               |
| 1998-99                         | Deodar       | -40                    | 20                            | 0                   | -20              | -60                           | 0                      | 0                             | 0                   | 0                | 0                             | -1.65                  | 5                             | 0                   | -5               | -6.65                         |
|                                 | Kail         | -10                    | 5                             | 0                   | -5               | -15                           | 0                      | 0                             | 0                   | 0                | 0                             | -8.46                  | 6                             | 0                   | -6               | -14.46                        |
|                                 | Rai/Fir      | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | Chil         | -1000                  | 500                           | 0                   | -500             | -1500                         | 0                      | 0                             | 3.54                | 3.54             | 3.54                          | -1200                  | 600                           | 0                   | -600             | -1800                         |
|                                 | OBL          | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | <b>Total</b> | <b>-1050</b>           | <b>525</b>                    | <b>0</b>            | <b>-525</b>      | <b>-1575</b>                  | <b>0</b>               | <b>0</b>                      | <b>3.54</b>         | <b>3.54</b>      | <b>3.54</b>                   | <b>-1210.11</b>        | <b>611</b>                    | <b>0</b>            | <b>-611</b>      | <b>-1821.11</b>               |
| 1999-00                         | Deodar       | -60                    | 20                            | 0                   | -20              | -80                           | 0                      | 0                             | 0                   | 0                | 0                             | -6.65                  | 5                             | 0                   | -5               | -11.65                        |
|                                 | Kail         | -15                    | 5                             | 0                   | -5               | -20                           | 0                      | 0                             | 0                   | 0                | 0                             | -14.46                 | 6                             | 0                   | -6               | -20.46                        |
|                                 | Rai/Fir      | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | Chil         | -1500                  | 500                           | 0                   | -500             | -2000                         | 3.54                   | 0                             | 0                   | 0                | 3.54                          | -1800                  | 600                           | 0                   | -600             | -2400                         |
|                                 | OBL          | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | <b>Total</b> | <b>-1575</b>           | <b>525</b>                    | <b>0</b>            | <b>-525</b>      | <b>-2100</b>                  | <b>3.54</b>            | <b>0</b>                      | <b>0</b>            | <b>0</b>         | <b>3.54</b>                   | <b>-1821.11</b>        | <b>611</b>                    | <b>0</b>            | <b>-611</b>      | <b>-2432.11</b>               |
| 2000-01                         | Deodar       | -80                    | 20                            | 0                   | -20              | -100                          | 0                      | 0                             | 0                   | 0                | 0                             | -11.65                 | 5                             | 0                   | -5               | -16.65                        |
|                                 | Kail         | -20                    | 5                             | 0                   | -5               | -25                           | 0                      | 0                             | 0                   | 0                | 0                             | -20.46                 | 6                             | 0                   | -6               | -26.46                        |
|                                 | Rai/Fir      | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | Chil         | -2000                  | 500                           | 0                   | -500             | -2500                         | 3.54                   | 0                             | 0                   | 0                | 3.54                          | -2400                  | 600                           | 0                   | -600             | -3000                         |
|                                 | OBL          | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | <b>Total</b> | <b>-2100</b>           | <b>525</b>                    | <b>0</b>            | <b>-525</b>      | <b>-2625</b>                  | <b>3.54</b>            | <b>0</b>                      | <b>0</b>            | <b>0</b>         | <b>3.54</b>                   | <b>-2432.11</b>        | <b>611</b>                    | <b>0</b>            | <b>-611</b>      | <b>-3043.11</b>               |
| 2001-02                         | Deodar       | -100                   | 20                            | 0                   | -20              | -120                          | 0                      | 0                             | 0                   | 0                | 0                             | -16.65                 | 5                             | 0                   | -5               | -21.65                        |
|                                 | Kail         | -25                    | 5                             | 0                   | -5               | -30                           | 0                      | 0                             | 0                   | 0                | 0                             | -26.46                 | 6                             | 0                   | -6               | -32.46                        |
|                                 | Rai/Fir      | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | Chil         | -2500                  | 500                           | 0                   | -500             | -3000                         | 3.54                   | 0                             | 738.13              | 738.13           | 741.67                        | -3000                  | 600                           | 0                   | -600             | -3600                         |
|                                 | OBL          | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | <b>Total</b> | <b>-2625</b>           | <b>525</b>                    | <b>0</b>            | <b>-525</b>      | <b>-3150</b>                  | <b>3.54</b>            | <b>0</b>                      | <b>738.13</b>       | <b>738.13</b>    | <b>741.67</b>                 | <b>-3043.11</b>        | <b>611</b>                    | <b>0</b>            | <b>-611</b>      | <b>-3654.11</b>               |

|         |              |                 |            |              |                |                 |               |          |              |              |               |                 |            |              |                |                 |
|---------|--------------|-----------------|------------|--------------|----------------|-----------------|---------------|----------|--------------|--------------|---------------|-----------------|------------|--------------|----------------|-----------------|
| 2002-03 | Deodar       | -120            | 20         | 0            | -20            | -140            | 0             | 0        | 0            | 0            | 0             | -21.65          | 5          | 8.42         | 3.42           | -18.23          |
|         | Kail         | -30             | 5          | 0            | -5             | -35             | 0             | 0        | 0            | 0            | 0             | -32.46          | 6          | 4.82         | -1.18          | -33.64          |
|         | Rai/Fir      | 0               | 0          | 0            | 0              | 0               | 0             | 0        | 0            | 0            | 0             | 0               | 0          | 0            | 0              | 0               |
|         | Chil         | -3000           | 500        | 0            | -500           | -3500           | 741.67        | 0        | 2.16         | 2.16         | 743.83        | -3600           | 600        | 0            | -600           | -4200           |
|         | OBL          | 0               | 0          | 0            | 0              | 0               | 0             | 0        | 0            | 0            | 0             | 0               | 0          | 0            | 0              | 0               |
|         | <b>Total</b> | <b>-3150</b>    | <b>525</b> | <b>0</b>     | <b>-525</b>    | <b>-3675</b>    | <b>741.67</b> | <b>0</b> | <b>2.16</b>  | <b>2.16</b>  | <b>743.83</b> | <b>-3654.11</b> | <b>611</b> | <b>13.24</b> | <b>-597.76</b> | <b>-4251.87</b> |
| 2003-04 | Deodar       | -140            | 20         | 0            | -20            | -160            | 0             | 0        | 0            | 0            | 0             | -18.23          | 5          | 0            | -5             | -23.23          |
|         | Kail         | -35             | 5          | 0            | -5             | -40             | 0             | 0        | 0            | 0            | 0             | -33.64          | 6          | 0            | -6             | -39.64          |
|         | Rai/Fir      | 0               | 0          | 0            | 0              | 0               | 0             | 0        | 0            | 0            | 0             | 0               | 0          | 0            | 0              | 0               |
|         | Chil         | -3500           | 500        | 0            | -500           | -4000           | 743.87        | 0        | 0            | 0            | 743.87        | -4200           | 600        | 0            | -600           | -4800           |
|         | OBL          | 0               | 0          | 0            | 0              | 0               | 0             | 0        | 0            | 0            | 0             | 0               | 0          | 0            | 0              | 0               |
|         | <b>Total</b> | <b>-3675</b>    | <b>525</b> | <b>0</b>     | <b>-525</b>    | <b>-4200</b>    | <b>743.83</b> | <b>0</b> | <b>0</b>     | <b>0</b>     | <b>743.83</b> | <b>-4251.87</b> | <b>611</b> | <b>0</b>     | <b>-611</b>    | <b>-4862.87</b> |
| 2004-05 | Deodar       | -160            | 20         | 0            | -20            | -180            | 0             | 0        | 0            | 0            | 0             | -23.23          | 5          | 32.16        | 27.16          | 3.93            |
|         | Kail         | -40             | 5          | 0            | -5             | -45             | 0             | 0        | 0            | 0            | 0             | -39.64          | 6          | 14.31        | 8.31           | -31.33          |
|         | Rai/Fir      | 0               | 0          | 0            | 0              | 0               | 0             | 0        | 0            | 0            | 0             | 0               | 0          | 0            | 0              | 0               |
|         | Chil         | -4000           | 500        | 0            | -500           | -4500           | 743.87        | 0        | 54.58        | 54.58        | 798.45        | -4800           | 600        | 0            | -600           | -5400           |
|         | OBL          | 0               | 0          | 0            | 0              | 0               | 0             | 0        | 0            | 0            | 0             | 0               | 0          | 0            | 0              | 0               |
|         | <b>Total</b> | <b>-4200</b>    | <b>525</b> | <b>0</b>     | <b>-525</b>    | <b>-4725</b>    | <b>743.83</b> | <b>0</b> | <b>54.58</b> | <b>54.58</b> | <b>798.41</b> | <b>-4862.87</b> | <b>611</b> | <b>46.47</b> | <b>-564.53</b> | <b>-5427.4</b>  |
| 2005-06 | Deodar       | -180            | 20         | 0            | -20            | -200            | 0             | 0        | 0            | 0            | 0             | 3.93            | 5          | 0            | -5             | -1.07           |
|         | Kail         | -45             | 5          | 0            | -5             | -50             | 0             | 0        | 0            | 0            | 0             | -31.33          | 6          | 0            | -6             | -37.33          |
|         | Rai/Fir      | 0               | 0          | 0            | 0              | 0               | 0             | 0        | 0            | 0            | 0             | 0               | 0          | 0            | 0              | 0               |
|         | Chil         | -4500           | 500        | 0            | -500           | -5000           | 798.41        | 0        | 0            | 0            | 798.41        | -5400           | 600        | 0            | -600           | -6000           |
|         | OBL          | 0               | 0          | 0            | 0              | 0               | 0             | 0        | 0            | 0            | 0             | 0               | 0          | 0            | 0              | 0               |
|         | <b>Total</b> | <b>-4725</b>    | <b>525</b> | <b>0</b>     | <b>-525</b>    | <b>-5250</b>    | <b>798.41</b> | <b>0</b> | <b>0</b>     | <b>0</b>     | <b>798.41</b> | <b>-5427.4</b>  | <b>611</b> | <b>0</b>     | <b>-611</b>    | <b>-6038.4</b>  |
| 2006-07 | Deodar       | -200            | 20         | 0            | -20            | -220            | 0             | 0        | 0            | 0            | 0             | -1.07           | 5          | 0            | -5             | -6.07           |
|         | Kail         | -50             | 5          | 0            | -5             | -55             | 0             | 0        | 0            | 0            | 0             | -37.33          | 6          | 0            | -6             | -43.33          |
|         | Rai/Fir      | 0               | 0          | 0            | 0              | 0               | 0             | 0.85     | 0.85         | 0.85         | 0             | 0               | 0          | 0            | 0              | 0               |
|         | Chil         | -5000           | 500        | 24.28        | -475.72        | -5475.72        | 798.41        | 0        | 7.36         | 7.36         | 805.77        | -6000           | 600        | 0            | -600           | -6600           |
|         | OBL          | 0               | 0          | 0            | 0              | 0               | 0             | 0        | 0            | 0            | 0             | 0               | 0          | 0            | 0              | 0               |
|         | <b>Total</b> | <b>-5250</b>    | <b>525</b> | <b>24.28</b> | <b>-500.72</b> | <b>-5750.72</b> | <b>798.41</b> | <b>0</b> | <b>8.21</b>  | <b>8.21</b>  | <b>806.62</b> | <b>-6038.4</b>  | <b>611</b> | <b>0</b>     | <b>-611</b>    | <b>-6649.4</b>  |
| 2007-08 | Deodar       | -220            | 20         | 0            | -20            | -240            | 0             | 0        | 0            | 0            | 0             | 0               | 5          | -6.07        | -5             | -11.07          |
|         | Kail         | -55             | 5          | 0            | -5             | -60             | 0             | 0        | 0            | 0            | 0             | 0               | 6          | -43.33       | -6             | -49.33          |
|         | Rai/Fir      | 0               | 0          | 0            | 0              | 0               | 0.85          | 0        | 0            | 0            | 0.85          | 0.85            | 0          | 0            | 0              | 0               |
|         | Chil         | -5475.72        | 500        | 0            | -500           | -5975.72        | 805.77        | 0        | 0            | 0            | 805.77        | 805.77          | 600        | -6600        | -600           | -7200           |
|         | OBL          | 0               | 0          | 0            | 0              | 0               | 0             | 0        | 0            | 0            | 0             | 0               | 0          | 0            | 0              | 0               |
|         | <b>Total</b> | <b>-5750.72</b> | <b>525</b> | <b>0</b>     | <b>-525</b>    | <b>-6275.72</b> | <b>806.62</b> | <b>0</b> | <b>0</b>     | <b>0</b>     | <b>806.62</b> | <b>806.62</b>   | <b>611</b> | <b>0</b>     | <b>-611</b>    | <b>-7260.4</b>  |
| 2008-09 | Deodar       | -240            | 20         | 0            | -20            | -260            | 0             | 0        | 27.61        | 27.61        | 27.61         | -11.07          | 5          | 0            | -5             | -16.07          |
|         | Kail         | -60             | 5          | 0            | -5             | -65             | 0             | 0        | 0            | 0            | 0             | -49.33          | 6          | 0            | -6             | -55.33          |
|         | Rai/Fir      | 0               | 0          | 0            | 0              | 0               | 0.85          | 0        | 0            | 0            | 0.85          | 0               | 0          | 0            | 0              | 0               |
|         | Chil         | -5975.72        | 500        | 0            | -500           | -6475.72        | 805.77        | 0        | 0            | 0            | 805.77        | -7200           | 600        | 0            | -600           | -7800           |
|         | OBL          | 0               | 0          | 0            | 0              | 0               | 0             | 0        | 0            | 0            | 0             | 0               | 0          | 0            | 0              | 0               |
|         | <b>Total</b> | <b>-6275.72</b> | <b>525</b> | <b>0</b>     | <b>-525</b>    | <b>-6800.72</b> | <b>806.62</b> | <b>0</b> | <b>27.61</b> | <b>27.61</b> | <b>834.23</b> | <b>-7260.4</b>  | <b>611</b> | <b>0</b>     | <b>-611</b>    | <b>-7871.4</b>  |
| 2009-10 | Deodar       | -260            | 20         | 0            | -20            | -280            | 27.61         | 0        | 0            | 0            | 27.61         | -16.07          | 5          | 0            | -5             | -21.07          |
|         | Kail         | -65             | 5          | 0            | -5             | -70             | 0             | 0        | 0            | 0            | 0             | -55.33          | 6          | 0            | -6             | -61.33          |
|         | Rai/Fir      | 0               | 0          | 0            | 0              | 0               | 0.85          | 0        | 0            | 0            | 0.85          | 0               | 0          | 0            | 0              | 0               |

|         |              |                 |            |          |             |                 |               |          |          |          |               |                 |            |          |             |                 |
|---------|--------------|-----------------|------------|----------|-------------|-----------------|---------------|----------|----------|----------|---------------|-----------------|------------|----------|-------------|-----------------|
|         | Chil         | -6475.72        | 500        | 0        | -500        | -6975.72        | 805.77        | 0        | 0        | 0        | 805.77        | -7800           | 600        | 0        | -600        | -8400           |
|         | OBL          | 0               | 0          | 0        | 0           | 0               | 0             | 0        | 0        | 0        | 0             | 0               | 0          | 0        | 0           | 0               |
|         | <b>Total</b> | <b>-6800.72</b> | <b>525</b> | <b>0</b> | <b>-525</b> | <b>-7325.72</b> | <b>834.23</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>834.23</b> | <b>-7871.4</b>  | <b>611</b> | <b>0</b> | <b>-611</b> | <b>-8482.4</b>  |
| 2010-11 | Deodar       | -280            | 20         | 0        | -20         | -300            | 27.61         | 0        | 0        | 0        | 27.61         | -21.07          | 5          | 0        | -5          | -26.07          |
|         | Kail         | -70             | 5          | 0        | -5          | -75             | 0             | 0        | 0        | 0        | 0             | -61.33          | 6          | 0        | -6          | -67.33          |
|         | Rai/Fir      | 0               | 0          | 0        | 0           | 0               | 0.85          | 0        | 0        | 0        | 0.85          | 0               | 0          | 0        | 0           | 0               |
|         | Chil         | -6975.72        | 500        | 0        | -500        | -7475.72        | 805.77        | 0        | 0        | 0        | 805.77        | -8400           | 600        | 0        | -600        | -9000           |
|         | OBL          | 0               | 0          | 0        | 0           | 0               | 0             | 0        | 0        | 0        | 0             | 0               | 0          | 0        | 0           | 0               |
|         | <b>Total</b> | <b>-7325.72</b> | <b>525</b> | <b>0</b> | <b>-525</b> | <b>-7850.72</b> | <b>834.23</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>834.23</b> | <b>-8482.4</b>  | <b>611</b> | <b>0</b> | <b>-611</b> | <b>-9093.4</b>  |
| 2011-12 | Deodar       | -300            | 20         | 0        | -20         | -320            | 27.61         | 0        | 0        | 0        | 27.61         | -26.07          | 5          | 0        | -5          | -31.07          |
|         | Kail         | -75             | 5          | 0        | -5          | -80             | 0             | 0        | 0        | 0        | 0             | -67.33          | 6          | 0        | -6          | -73.33          |
|         | Rai/Fir      | 0               | 0          | 0        | 0           | 0               | 0.85          | 0        | 0        | 0        | 0.85          | 0               | 0          | 0        | 0           | 0               |
|         | Chil         | -7475.72        | 500        | 0        | -500        | -7975.72        | 805.77        | 0        | 0        | 0        | 805.77        | -9000           | 600        | 0        | -600        | -9600           |
|         | OBL          | 0               | 0          | 0        | 0           | 0               | 0             | 0        | 0        | 0        | 0             | 0               | 0          | 0        | 0           | 0               |
|         | <b>Total</b> | <b>-7850.72</b> | <b>525</b> | <b>0</b> | <b>-525</b> | <b>-8375.72</b> | <b>834.23</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>834.23</b> | <b>-9093.4</b>  | <b>611</b> | <b>0</b> | <b>-611</b> | <b>-9704.4</b>  |
| 2012-13 | Deodar       | -320            | 20         | 0        | -20         | -340            | 27.61         | 0        | 0        | 0        | 27.61         | -31.07          | 5          | 0        | -5          | -36.07          |
|         | Kail         | -80             | 5          | 0        | -5          | -85             | 0             | 0        | 0        | 0        | 0             | -73.33          | 6          | 0        | -6          | -79.33          |
|         | Rai/Fir      | 0               | 0          | 0        | 0           | 0               | 0.85          | 0        | 0        | 0        | 0.85          | 0               | 0          | 0        | 0           | 0               |
|         | Chil         | -7975.72        | 500        | 0        | -500        | -8475.72        | 805.77        | 0        | 0        | 0        | 805.77        | -9600           | 600        | 0        | -600        | -10200          |
|         | OBL          | 0               | 0          | 0        | 0           | 0               | 0             | 0        | 0        | 0        | 0             | 0               | 0          | 0        | 0           | 0               |
|         | <b>Total</b> | <b>-8375.72</b> | <b>525</b> | <b>0</b> | <b>-525</b> | <b>-8900.72</b> | <b>834.23</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>834.23</b> | <b>-9704.4</b>  | <b>611</b> | <b>0</b> | <b>-611</b> | <b>-10315.4</b> |
| 2013-14 | Deodar       | -340            | 20         | 0        | -20         | -360            | 27.61         | 0        | 0        | 0        | 27.61         | -36.07          | 5          | 0        | -5          | -41.07          |
|         | Kail         | -85             | 5          | 0        | -5          | -90             | 0             | 0        | 0        | 0        | 0             | -79.33          | 6          | 0        | -6          | -85.33          |
|         | Rai/Fir      | 0               | 0          | 0        | 0           | 0               | 0.85          | 0        | 0        | 0        | 0.85          | 0               | 0          | 0        | 0           | 0               |
|         | Chil         | -8475.72        | 500        | 0        | -500        | -8975.72        | 805.77        | 0        | 0        | 0        | 805.77        | -10200          | 600        | 0        | -600        | -10800          |
|         | OBL          | 0               | 0          | 0        | 0           | 0               | 0             | 0        | 0        | 0        | 0             | 0               | 0          | 0        | 0           | 0               |
|         | <b>Total</b> | <b>-8900.72</b> | <b>525</b> | <b>0</b> | <b>-525</b> | <b>-9425.72</b> | <b>834.23</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>834.23</b> | <b>-10315.4</b> | <b>611</b> | <b>0</b> | <b>-611</b> | <b>-10926.4</b> |

#### GENERAL ABSTRACT OF PAST YIELD REMOVED

##### Chil Working Circle

| Species      | PB-I                   |                               |                     |                  |                              | PB- II&III             |                               |                     |                  |                              | PB-IV                  |                               |                     |                  |                              |
|--------------|------------------------|-------------------------------|---------------------|------------------|------------------------------|------------------------|-------------------------------|---------------------|------------------|------------------------------|------------------------|-------------------------------|---------------------|------------------|------------------------------|
|              | Previous Balance in M3 | Prescribed annual yield in m3 | Yield removed in m3 | Excess / Deficit | Accumulative Deviation in m3 | Previous Balance in M3 | Prescribed annual yield in m3 | Yield removed in m3 | Excess / Deficit | Accumulative Deviation in m3 | Previous Balance in M3 | Prescribed annual yield in m3 | Yield removed in m3 | Excess / Deficit | Accumulative Deviation in m3 |
| Deodar       | -3060                  | 360                           | 0                   | -360             | -3420                        | 138.05                 | 0                             | 27.61               | 27.61            | 165.66                       | -234.92                | 90                            | 42.86               | -41.07           | -282.06                      |
| Kail         | -765                   | 90                            | 0                   | -90              | -855                         | 0                      | 0                             | 0                   | 0                | 0                            | -632.68                | 108                           | -20.66              | -85.33           | -761.34                      |
| Rai/Fir      | 0                      | 0                             | 0                   | 0                | 0                            | 5.95                   | 0                             | 0.85                | 0.85             | 6.8                          | 0.85                   | 0                             | 0                   | 0                | 0                            |
| Chil         | -76330.04              | 9000                          | 24.28               | -8975.72         | -85305.76                    | 9477.24                | 0                             | 805.77              | 805.77           | 10283.01                     | -84394.23              | 10800                         | -6600               | -10800           | -102600                      |
| OBL          | 0                      | 0                             | 0                   | 0                | 0                            | 0                      | 0                             | 0                   | 0                | 0                            | 0                      | 0                             | 0                   | 0                | 0                            |
| <b>Total</b> | <b>-80155.04</b>       | <b>9450</b>                   | <b>24.28</b>        | <b>-9425.72</b>  | <b>-89580.76</b>             | <b>9621.16</b>         | <b>0</b>                      | <b>834.23</b>       | <b>834.23</b>    | <b>10455.39</b>              | <b>-85260.98</b>       | <b>10998</b>                  | <b>71.6</b>         | <b>-10926.4</b>  | <b>-103643.4</b>             |



| STATEMENT OF PAST YIELD REMOVED |              |                        |                               |                     |                  |                               |
|---------------------------------|--------------|------------------------|-------------------------------|---------------------|------------------|-------------------------------|
| Protection Working Circle       |              |                        |                               |                     |                  |                               |
| Year                            | Species      | Previous Balance in M3 | Prescribed annual yield in m3 | Yield removed in m3 | Excess / Deficit | Accommulative Deviation in m3 |
| 1996-97                         | Deodar       | 0                      | 0                             | 2180.89             | 2180.89          | 2180.89                       |
|                                 | Kail         | 0                      | 0                             | 1432.53             | 1432.53          | 1432.53                       |
|                                 | Rai/Fir      | 0                      | 0                             | 5770.94             | 5770.94          | 5770.94                       |
|                                 | Chil         | 0                      | 0                             | 40.62               | 40.62            | 40.62                         |
|                                 | OBL          | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | <b>Total</b> | <b>0</b>               | <b>0</b>                      | <b>9424.98</b>      | <b>9424.98</b>   | <b>9424.98</b>                |
| 1997-98                         | Deodar       | 2180.89                | 0                             | 2703.47             | 2703.47          | 4884.36                       |
|                                 | Kail         | 1432.53                | 0                             | 662.74              | 662.74           | 2095.27                       |
|                                 | Rai/Fir      | 5770.94                | 0                             | 76.56               | 76.56            | 5847.5                        |
|                                 | Chil         | 40.62                  | 0                             | 56.58               | 56.58            | 97.2                          |
|                                 | OBL          | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | <b>Total</b> | <b>9424.98</b>         | <b>0</b>                      | <b>3499.35</b>      | <b>3499.35</b>   | <b>12924.33</b>               |
| 1998-99                         | Deodar       | 4884.36                | 0                             | 1895.28             | 1895.28          | 6779.64                       |
|                                 | Kail         | 2095.27                | 0                             | 468.57              | 468.57           | 2563.84                       |
|                                 | Rai/Fir      | 5847.5                 | 0                             | 6.51                | 6.51             | 5854.01                       |
|                                 | Chil         | 97.2                   | 0                             | 10.89               | 10.89            | 108.09                        |
|                                 | OBL          | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | <b>Total</b> | <b>12924.33</b>        | <b>0</b>                      | <b>2381.25</b>      | <b>2381.25</b>   | <b>15305.58</b>               |
| 1999-00                         | Deodar       | 6779.64                | 0                             | 799.41              | 799.41           | 7579.05                       |
|                                 | Kail         | 2563.84                | 0                             | 463.29              | 463.29           | 3027.13                       |
|                                 | Rai/Fir      | 5854.01                | 0                             | 126.52              | 126.52           | 5980.53                       |
|                                 | Chil         | 108.09                 | 0                             | 1.27                | 1.27             | 109.36                        |
|                                 | OBL          | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | <b>Total</b> | <b>15305.58</b>        | <b>0</b>                      | <b>1390.49</b>      | <b>1390.49</b>   | <b>16696.07</b>               |
| 2000-01                         | Deodar       | 7587.05                | 0                             | 27                  | 27               | 7614.05                       |
|                                 | Kail         | 3027.13                | 0                             | 209.78              | 209.78           | 3236.91                       |
|                                 | Rai/Fir      | 5980.53                | 0                             | 5005.61             | 5005.61          | 10986.14                      |
|                                 | Chil         | 109.36                 | 0                             | 0                   | 0                | 109.36                        |
|                                 | OBL          | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | <b>Total</b> | <b>16704.07</b>        | <b>0</b>                      | <b>5242.39</b>      | <b>5242.39</b>   | <b>21946.46</b>               |
| 2001-02                         | Deodar       | 7614.05                | 0                             | 324.12              | 324.12           | 7938.17                       |
|                                 | Kail         | 3236.91                | 0                             | 265.03              | 265.03           | 3501.94                       |
|                                 | Rai/Fir      | 10986.14               | 0                             | 17216.36            | 17216.36         | 28202.5                       |
|                                 | Chil         | 109.36                 | 0                             | 0                   | 0                | 109.36                        |
|                                 | OBL          | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | <b>Total</b> | <b>21946.46</b>        | <b>0</b>                      | <b>17805.51</b>     | <b>17805.51</b>  | <b>39751.97</b>               |
| 2002-03                         | Deodar       | 7938.17                | 0                             | 76.98               | 76.98            | 8015.15                       |
|                                 | Kail         | 3501.94                | 0                             | 401.48              | 401.48           | 3903.42                       |
|                                 | Rai/Fir      | 28202.5                | 0                             | 11252.81            | 11252.81         | 39455.31                      |
|                                 | Chil         | 109.36                 | 0                             | 18.12               | 18.12            | 127.48                        |
|                                 | OBL          | 0                      | 0                             | 0                   | 0                | 0                             |
|                                 | <b>Total</b> | <b>39751.97</b>        | <b>0</b>                      | <b>11749.39</b>     | <b>11749.39</b>  | <b>51501.36</b>               |
| 2003-04                         | Deodar       | 8015.15                | 0                             | 574.88              | 574.88           | 8590.03                       |
|                                 | Kail         | 3903.42                | 0                             | 160.96              | 160.96           | 4064.38                       |

|         |              |                   |          |                  |                  |                  |
|---------|--------------|-------------------|----------|------------------|------------------|------------------|
|         | Rai/Fir      | 39455.31          | 0        | 9289.51          | 9289.51          | 48744.82         |
|         | Chil         | 127.48            | 0        | 1.27             | 1.27             | 128.75           |
|         | OBL          | 0                 | 0        | 8925.5           | 8925.5           | 8925.5           |
|         | <b>Total</b> | <b>51501.36</b>   | <b>0</b> | <b>18952.12</b>  | <b>18952.12</b>  | <b>70453.48</b>  |
| 2004-05 | Deodar       | 8590.03           | 0        | 223.57           | 223.57           | 8813.6           |
|         | Kail         | 4064.38           | 0        | 367.84           | 367.84           | 4432.22          |
|         | Rai/Fir      | 48744.82          | 0        | 20823.1          | 20823.1          | 69567.92         |
|         | Chil         | 128.75            | 0        | 22.8             | 22.8             | 151.55           |
|         | OBL          | 8925.5            | 0        | 10585.346        | 10585.346        | 19510.846        |
|         | <b>Total</b> | <b>70453.48</b>   | <b>0</b> | <b>32022.66</b>  | <b>32022.66</b>  | <b>102476.14</b> |
| 2005-06 | Deodar       | 8813.6            | 0        | 336.65           | 336.65           | 9150.25          |
|         | Kail         | 4432.22           | 0        | 206.23           | 206.23           | 4638.45          |
|         | Rai/Fir      | 69567.92          | 0        | 10433.48         | 10433.48         | 80001.4          |
|         | Chil         | 151.55            | 0        | 0                | 0                | 151.55           |
|         | OBL          | 19510.846         | 0        | 3111.716         | 3111.716         | 22622.562        |
|         | <b>Total</b> | <b>102476.136</b> | <b>0</b> | <b>14088.08</b>  | <b>14088.08</b>  | <b>116564.21</b> |
| 2006-07 | Deodar       | 9150.25           | 0        | 2.01             | 2.01             | 9152.26          |
|         | Kail         | 4638.45           | 0        | 0                | 0                | 4638.45          |
|         | Rai/Fir      | 80001.4           | 0        | 2308.66          | 2308.66          | 82310.06         |
|         | Chil         | 151.55            | 0        | 1.27             | 1.27             | 152.82           |
|         | OBL          | 22622.562         | 0        | 1459.854         | 1459.854         | 24082.416        |
|         | <b>Total</b> | <b>116564.212</b> | <b>0</b> | <b>3771.794</b>  | <b>3771.794</b>  | <b>120336.01</b> |
| 2007-08 | Deodar       | 9152.26           | 0        | 1.41             | 1.41             | 9153.67          |
|         | Kail         | 4638.45           | 0        | 25.2             | 25.2             | 4663.65          |
|         | Rai/Fir      | 82310.06          | 0        | 4320.26          | 4320.26          | 86630.32         |
|         | Chil         | 152.82            | 0        | 0                | 0                | 152.82           |
|         | OBL          | 24082.416         | 0        | 6792.84          | 6792.84          | 30875.256        |
|         | <b>Total</b> | <b>120336.006</b> | <b>0</b> | <b>11139.71</b>  | <b>11139.71</b>  | <b>131475.72</b> |
| 2008-09 | Deodar       | 9153.67           | 0        | 267.81           | 267.81           | 9421.48          |
|         | Kail         | 4663.65           | 0        | 267.14           | 267.14           | 4930.79          |
|         | Rai/Fir      | 86630.32          | 0        | 10031.2          | 10031.2          | 96661.52         |
|         | Chil         | 152.82            | 0        | 0                | 0                | 152.82           |
|         | OBL          | 30875.256         | 0        | 4861.724         | 4861.724         | 35736.98         |
|         | <b>Total</b> | <b>131475.716</b> | <b>0</b> | <b>15427.874</b> | <b>15427.874</b> | <b>146903.59</b> |
| 2009-10 | Deodar       | 9421.48           | 0        | 483.85           | 483.85           | 9905.33          |
|         | Kail         | 4930.79           | 0        | 139.15           | 139.15           | 5069.94          |
|         | Rai/Fir      | 96661.52          | 0        | 6632.27          | 6632.27          | 103293.79        |
|         | Chil         | 152.82            | 0        | 93.12            | 93.12            | 245.94           |
|         | OBL          | 35736.98          | 0        | 4172.267         | 4172.267         | 39909.247        |
|         | <b>Total</b> | <b>146903.59</b>  | <b>0</b> | <b>11520.66</b>  | <b>11520.66</b>  | <b>158424.25</b> |
| 2010-11 | Deodar       | 9905.33           | 0        | 0                | 0                | 9905.33          |
|         | Kail         | 5069.94           | 0        | 0                | 0                | 5069.94          |
|         | Rai/Fir      | 103293.79         | 0        | 0                | 0                | 103293.79        |
|         | Chil         | 245.94            | 0        | 0                | 0                | 245.94           |
|         | OBL          | 39909.247         | 0        | 0                | 0                | 39909.247        |
|         | <b>Total</b> | <b>158424.247</b> | <b>0</b> | <b>0</b>         | <b>0</b>         | <b>158424.25</b> |
| 2011-12 | Deodar       | 9905.33           | 0        | 0                | 0                | 9905.33          |
|         | Kail         | 5069.94           | 0        | 0                | 0                | 5069.94          |
|         | Rai/Fir      | 103293.79         | 0        | 1824.9           | 1824.9           | 105118.69        |
|         | Chil         | 245.94            | 0        | 0                | 0                | 245.94           |

|         |              |                   |          |               |               |                  |
|---------|--------------|-------------------|----------|---------------|---------------|------------------|
|         | OBL          | 39909.247         | 0        | 0             | 0             | 39909.247        |
|         | <b>Total</b> | <b>158424.247</b> | <b>0</b> | <b>1824.9</b> | <b>1824.9</b> | <b>160249.15</b> |
| 2012-13 | Deodar       | 9905.33           | 0        | 14.1          | 14.1          | 9919.43          |
|         | Kail         | 5069.94           | 0        | 190.62        | 190.62        | 5260.56          |
|         | Rai/Fir      | 105118.69         | 0        | 195.92        | 195.92        | 105314.61        |
|         | Chil         | 245.94            | 0        | 0             | 0             | 245.94           |
|         | OBL          | 39909.247         | 0        | 0             | 0             | 39909.247        |
|         | <b>Total</b> | <b>160249.147</b> | <b>0</b> | <b>400.64</b> | <b>400.64</b> | <b>160649.79</b> |
| 2013-14 | Deodar       | 9919.43           | 0        | 0             | 0             | 9919.43          |
|         | Kail         | 5260.56           | 0        | 0             | 0             | 5260.56          |
|         | Rai/Fir      | 105314.61         | 0        | 0             | 0             | 105314.61        |
|         | Chil         | 245.94            | 0        | 0             | 0             | 245.94           |
|         | OBL          | 39909.247         | 0        | 0             | 0             | 39909.247        |
|         | <b>Total</b> | <b>160649.787</b> | <b>0</b> | <b>0</b>      | <b>0</b>      | <b>160649.79</b> |
|         |              |                   |          |               |               |                  |

| GENERAL ABSTRACT OF PAST YIELD REMOVED |                              |                                     |                           |                     |                                  |
|----------------------------------------|------------------------------|-------------------------------------|---------------------------|---------------------|----------------------------------|
| Protection Working Circle              |                              |                                     |                           |                     |                                  |
|                                        | Previous<br>Balance in<br>M3 | Prescribed<br>annual yield<br>in m3 | Yield<br>removed in<br>m3 | Excess /<br>Deficit | Accommulative<br>Deviation in m3 |
| Deodar                                 | 138916.02                    | 0                                   | 9911.43                   | 9911.43             | 148827.45                        |
| Kail                                   | 67599.36                     | 0                                   | 5260.56                   | 5260.56             | 72859.92                         |
| Rai/Fir                                | 983033.85                    | 0                                   | 105314.61                 | 105314.61           | 1088348.46                       |
| Chil                                   | 2575.54                      | 0                                   | 245.94                    | 245.94              | 2821.48                          |
| OBL                                    | 301390.548                   | 0                                   | 39909.247                 | 39909.247           | 341299.795                       |
| <b>Total</b>                           | <b>1493515.318</b>           | <b>0</b>                            | <b>160641.787</b>         | <b>160641.787</b>   | <b>1654157.105</b>               |

| Improvement Working Circle |              |                        |                               |                     |                  |                               |
|----------------------------|--------------|------------------------|-------------------------------|---------------------|------------------|-------------------------------|
| Year                       | Species      | Previous Balance in M3 | Prescribed annual yield in m3 | Yield removed in m3 | Excess / Deficit | Accommulative Deviation in m3 |
| 1996-97                    | Deodar       | 0                      | 0                             | 0                   | 0                | 0                             |
|                            | Kail         | 0                      | 0                             | 0                   | 0                | 0                             |
|                            | Rai/Fir      | 0                      | 0                             | 0                   | 0                | 0                             |
|                            | Chil         | 0                      | 0                             | 0                   | 0                | 0                             |
|                            | OBL          | 0                      | 0                             | 0                   | 0                | 0                             |
|                            | <b>Total</b> | 0                      | 0                             | 0                   | 0                | <b>0</b>                      |
| 1997-98                    | Deodar       | 0                      | 0                             | 0                   | 0                | 0                             |
|                            | Kail         | 0                      | 0                             | 0                   | 0                | 0                             |
|                            | Rai/Fir      | 0                      | 0                             | 0                   | 0                | 0                             |
|                            | Chil         | 0                      | 0                             | 0                   | 0                | 0                             |
|                            | OBL          | 0                      | 0                             | 0                   | 0                | 0                             |
|                            | <b>Total</b> | 0                      | 0                             | 0                   | 0                | <b>0</b>                      |
| 1998-99                    | Deodar       | 0                      | 0                             | 0                   | 0                | 0                             |
|                            | Kail         | 0                      | 0                             | 0                   | 0                | 0                             |
|                            | Rai/Fir      | 0                      | 0                             | 0                   | 0                | 0                             |
|                            | Chil         | 0                      | 0                             | 0                   | 0                | 0                             |
|                            | OBL          | 0                      | 0                             | 0                   | 0                | 0                             |
|                            | <b>Total</b> | 0                      | 0                             | 0                   | 0                | <b>0</b>                      |
| 1999-00                    | Deodar       | 0                      | 0                             | 0                   | 0                | 0                             |
|                            | Kail         | 0                      | 0                             | 0                   | 0                | 0                             |
|                            | Rai/Fir      | 0                      | 0                             | 0                   | 0                | 0                             |
|                            | Chil         | 0                      | 0                             | 0                   | 0                | 0                             |
|                            | OBL          | 0                      | 0                             | 0                   | 0                | 0                             |
|                            | <b>Total</b> | 0                      | 0                             | 0                   | 0                | <b>0</b>                      |
| 2000-01                    | Deodar       | 0                      | 0                             | 0                   | 0                | 0                             |
|                            | Kail         | 0                      | 0                             | 0                   | 0                | 0                             |
|                            | Rai/Fir      | 0                      | 0                             | 0                   | 0                | 0                             |
|                            | Chil         | 0                      | 0                             | 0                   | 0                | 0                             |
|                            | OBL          | 0                      | 0                             | 0                   | 0                | 0                             |
|                            | <b>Total</b> | 0                      | 0                             | 0                   | 0                | <b>0</b>                      |
| 2001-02                    | Deodar       | 0                      | 0                             | 0                   | 0                | 0                             |
|                            | Kail         | 0                      | 0                             | 0                   | 0                | 0                             |
|                            | Rai/Fir      | 0                      | 0                             | 0                   | 0                | 0                             |
|                            | Chil         | 0                      | 0                             | 0                   | 0                | 0                             |
|                            | OBL          | 0                      | 0                             | 0                   | 0                | 0                             |
|                            | <b>Total</b> | 0                      | 0                             | 0                   | 0                | <b>0</b>                      |
| 2002-03                    | Deodar       | 0                      | 0                             | 0                   | 0                | 0                             |
|                            | Kail         | 0                      | 0                             | 0                   | 0                | 0                             |
|                            | Rai/Fir      | 0                      | 0                             | 0                   | 0                | 0                             |
|                            | Chil         | 0                      | 0                             | 0                   | 0                | 0                             |
|                            | OBL          | 0                      | 0                             | 0                   | 0                | 0                             |
|                            | <b>Total</b> | 0                      | 0                             | 0                   | 0                | <b>0</b>                      |
| 2003-04                    | Deodar       | 0                      | 0                             | 2774.3              | 2774.3           | 2774.3                        |
|                            | Kail         | 0                      | 0                             | 817.96              | 817.96           | 817.96                        |
|                            | Rai/Fir      | 0                      | 0                             | 38.43               | 38.43            | 38.43                         |

|         |              |                  |          |                 |                 |                  |
|---------|--------------|------------------|----------|-----------------|-----------------|------------------|
|         | Chil         | 0                | 0        | 13.3            | 13.3            | 13.3             |
|         | OBL          | 0                | 0        | 6.93            | 6.93            | 6.93             |
|         | <b>Total</b> | <b>0</b>         | <b>0</b> | <b>3650.92</b>  | <b>3650.92</b>  | <b>3650.92</b>   |
| 2004-05 | Deodar       | 2774.3           | 0        | 764.48          | 764.48          | 3538.78          |
|         | Kail         | 817.96           | 0        | 1018.66         | 1018.66         | 1836.62          |
|         | Rai/Fir      | 38.43            | 0        | 679.28          | 679.28          | 717.71           |
|         | Chil         | 13.3             | 0        | 7.33            | 7.33            | 20.63            |
|         | OBL          | 6.93             | 0        | 2.953           | 2.953           | 9.883            |
|         | <b>Total</b> | <b>3650.92</b>   | <b>0</b> | <b>2472.703</b> | <b>2472.703</b> | <b>6123.623</b>  |
| 2005-06 | Deodar       | 3538.78          | 0        | 988.86          | 988.86          | 4527.64          |
|         | Kail         | 1836.62          | 0        | 327.21          | 327.21          | 2163.83          |
|         | Rai/Fir      | 717.71           | 0        | 65.16           | 65.16           | 782.87           |
|         | Chil         | 20.63            | 0        | 6.08            | 6.08            | 26.71            |
|         | OBL          | 9.883            | 0        | 0               | 0               | 9.883            |
|         | <b>Total</b> | <b>6123.623</b>  | <b>0</b> | <b>1387.31</b>  | <b>1387.31</b>  | <b>7510.933</b>  |
| 2006-07 | Deodar       | 4527.64          | 0        | 979.81          | 979.81          | 5507.45          |
|         | Kail         | 2163.83          | 0        | 294.7           | 294.7           | 2458.53          |
|         | Rai/Fir      | 782.87           | 0        | 262.18          | 262.18          | 1045.05          |
|         | Chil         | 26.71            | 0        | 149.81          | 149.81          | 176.52           |
|         | OBL          | 9.883            | 0        | 3205.275        | 3205.275        | 3215.158         |
|         | <b>Total</b> | <b>7510.933</b>  | <b>0</b> | <b>4891.775</b> | <b>4891.775</b> | <b>12402.708</b> |
| 2007-08 | Deodar       | 5507.45          | 0        | 17.61           | 17.61           | 5525.06          |
|         | Kail         | 2458.53          | 0        | 18.95           | 18.95           | 2477.48          |
|         | Rai/Fir      | 1045.05          | 0        | 0               | 0               | 1045.05          |
|         | Chil         | 176.52           | 0        | 514.22          | 514.22          | 690.74           |
|         | OBL          | 3215.158         | 0        | 236.608         | 236.608         | 3451.766         |
|         | <b>Total</b> | <b>12402.708</b> | <b>0</b> | <b>787.388</b>  | <b>787.388</b>  | <b>13190.096</b> |
| 2008-09 | Deodar       | 5525.06          | 0        | 773.59          | 773.59          | 6298.65          |
|         | Kail         | 2477.48          | 0        | 1936.95         | 1936.95         | 4414.43          |
|         | Rai/Fir      | 1045.05          | 0        | 4562.5          | 4562.5          | 5607.55          |
|         | Chil         | 690.74           | 0        | 168.94          | 168.94          | 859.68           |
|         | OBL          | 3451.766         | 0        | 676.321         | 676.321         | 4128.087         |
|         | <b>Total</b> | <b>13190.096</b> | <b>0</b> | <b>8118.301</b> | <b>8118.301</b> | <b>21308.397</b> |
| 2009-10 | Deodar       | 6298.65          | 0        | 0               | 0               | 6298.65          |
|         | Kail         | 4414.43          | 0        | 0               | 0               | 4414.43          |
|         | Rai/Fir      | 5607.55          | 0        | 0               | 0               | 5607.55          |
|         | Chil         | 859.68           | 0        | 987.07          | 987.07          | 1846.75          |
|         | OBL          | 4128.087         | 0        | 23.116          | 23.116          | 4151.203         |
|         | <b>Total</b> | <b>21308.397</b> | <b>0</b> | <b>1010.186</b> | <b>1010.186</b> | <b>22318.583</b> |
| 2010-11 | Deodar       | 6298.65          | 0        | 0               | 0               | 6298.65          |
|         | Kail         | 4414.43          | 0        | 0               | 0               | 4414.43          |
|         | Rai/Fir      | 5607.55          | 0        | 38.5            | 38.5            | 5646.05          |
|         | Chil         | 1846.75          | 0        | 0               | 0               | 1846.75          |
|         | OBL          | 4151.203         | 0        | 0               | 0               | 4151.203         |
|         | <b>Total</b> | <b>22318.583</b> | <b>0</b> | <b>38.5</b>     | <b>38.5</b>     | <b>22357.083</b> |
| 2011-12 | Deodar       | 6298.65          | 0        | 13.31           | 13.31           | 6311.96          |
|         | Kail         | 4414.43          | 0        | 0               | 0               | 4414.43          |
|         | Rai/Fir      | 5646.05          | 0        | 0               | 0               | 5646.05          |
|         | Chil         | 1846.75          | 0        | 0               | 0               | 1846.75          |
|         | OBL          | 4151.203         | 0        | 0               | 0               | 4151.203         |

|         |              |                  |          |                |                |                  |
|---------|--------------|------------------|----------|----------------|----------------|------------------|
|         | <b>Total</b> | <b>22357.083</b> | <b>0</b> | <b>13.31</b>   | <b>13.31</b>   | <b>22370.393</b> |
| 2012-13 | Deodar       | 6311.96          | 0        | 101.43         | 101.43         | 6413.39          |
|         | Kail         | 4414.43          | 0        | 0              | 0              | 4414.43          |
|         | Rai/Fir      | 5646.05          | 0        | 0              | 0              | 5646.05          |
|         | Chil         | 1846.75          | 0        | 7.6            | 7.6            | 1854.35          |
|         | OBL          | 4151.203         | 0        | 0              | 0              | 4151.203         |
|         | <b>Total</b> | <b>22370.393</b> | <b>0</b> | <b>109.03</b>  | <b>109.03</b>  | <b>22479.423</b> |
| 2013-14 | Deodar       | 6413.39          | 0        | 28.93          | 28.93          | 6442.32          |
|         | Kail         | 4414.43          | 0        | 51.52          | 51.52          | 4465.95          |
|         | Rai/Fir      | 5646.05          | 0        | 240.45         | 240.45         | 5886.5           |
|         | Chil         | 1854.35          | 0        | 0              | 0              | 1854.35          |
|         | OBL          | 4151.203         | 0        | 7.058          | 7.058          | 4158.261         |
|         | <b>Total</b> | <b>22479.423</b> | <b>0</b> | <b>327.958</b> | <b>327.958</b> | <b>22807.381</b> |

| <b>GENERAL ABSTRACT OF PAST YIELD REMOVED</b> |                                       |                                              |                                    |                             |                                          |
|-----------------------------------------------|---------------------------------------|----------------------------------------------|------------------------------------|-----------------------------|------------------------------------------|
| <b>Improvement Working Circle</b>             |                                       |                                              |                                    |                             |                                          |
|                                               | <b>Previous<br/>Balance in<br/>M3</b> | <b>Prescribed<br/>annual yield<br/>in m3</b> | <b>Yield<br/>removed in<br/>m3</b> | <b>Excess /<br/>Deficit</b> | <b>Accommulative<br/>Deviation in m3</b> |
| Deodar                                        | 53494.53                              | 0                                            | 6442.32                            | 6442.32                     | 59936.85                                 |
| Kail                                          | 31826.57                              | 0                                            | 4465.95                            | 4465.95                     | 36292.52                                 |
| Rai/Fir                                       | 31782.36                              | 0                                            | 5886.5                             | 5886.5                      | 37668.86                                 |
| Chil                                          | 9182.18                               | 0                                            | 1854.35                            | 1854.35                     | 11036.53                                 |
| OBL                                           | 27426.519                             | 0                                            | 4158.261                           | 4158.261                    | 31584.78                                 |
| <b>Total</b>                                  | 153712.159                            | 0                                            | 22807.381                          | 22807.381                   | 176519.54                                |

**Government of Himachal Pradesh  
Department of Forests.**

...

No. FFE-A (A) 1-3/98

Dated Shimla-2, the 31-05-1999

**NOTIFICATION**

The Governor, Himachal Pradesh is pleased to create a Forest Division Ani with Headquarters at Luhri consisting of the following areas of Rampur and Kotgarh Forests Divisions with immediate effect in public interest as under: -

| <u>Sr. No.</u> | <u>Name of Division</u> | <u>Name of Range</u> | <u>No. of Blocks</u> | <u>No. of Beats</u> | <u>Total Area in Ha.</u> |
|----------------|-------------------------|----------------------|----------------------|---------------------|--------------------------|
| 1.             | Kotgarh                 | Chowai               | 4                    | 16                  | 16,845.80                |
| 2.             | Kotgarh                 | Nither               | 3                    | 11                  | 12,097.58                |
| 3.             | Rampur                  | Arsu                 | 4                    | 16                  | 25,708.63                |
| Total=         |                         |                      | <b><u>11</u></b>     | <b><u>43</u></b>    | <b><u>54,652.01</u></b>  |

By order

**Commissioner-cum-Secretary (Fts.)  
to the Government of Himachal Pradesh.**

No. Endst. No. Fts. A (A) 1-3/98

Dated Shimla-2, the 31-05-1999

Copy for information and necessary action to:-

1. The Pr. Chief Conservator of Forests, H.P. Shimla-1.
2. The Chief Conservator of Forests, H.P. Shimla-1.
3. The Managing Director, H.P. State of Forest Corporation, SDA, Complex, Kasumpti (Shimla-9).
4. Accountant General, H.P. Shimla-171003.
5. All the Conservator of Forests, Himachal Pradesh.
6. Divisional Forest Officers, Forest Division, Rampur/Kotgarh.
7. The Controller, Printing & Stationary, Shimla-5 for publication in the H.P. Rajptra alongwith supply of copies to this Department.

**Government of Himachal Pradesh  
Department of Forests.**

No. FFE-A (A) 1-3/98

Dated Shimla-2, the 28/04/2003

**NOTIFICATION**

In supersession of this department's Notification even number dated 22-10-1999, the Governor, Himachal Pradesh is pleased to order that Forest Division, Ani, under the administrative Control of the C.F.Kullu, will henceforth be under the administrative control of Rampur Forest Circle with immediate effect in the public interest.

By order

J.P.Negi,  
Principal Secretary (Forests) to the  
Government of Himachal Pradesh.

No. Endst. No. As above.

Dated Shimla-2, the 28/04/2003.

Copy for information and necessary action is forwarded 1to: -

1. The PSs to Hon'ble CM/FM, HP Sectt. Shimla-2.
2. The Pr. Chief Conservator of Forests, H.P. Shimla-1.
3. The Pr. Chief Conservator of Forest (Wildlife), HP, Shimla-1.
4. The Managing Director, H.P. State of Forest Corporation, Ltd. Shimla-9.
5. All CCFs/CFs/Directors of State Forest Corporation in HP.
6. Accountant General, H.P. Shimla-171003.
7. The Controller, (P&S) HP Government Press, Shimla-5.
8. The Deputy Controller (F&A) O/o PCCF, H.P., Shimla-1.
9. Divisional Forest Officer, Ani at Luhri, DIt. Kullu, H.P.
10. Divisional Forest Officers, Forest Division, Rampur/Kotgarh DIt. Shimla.
11. Section Officer (Forest -B), HP Sectt; Shimla-2.
12. Guard File.

Joint Secretary (Forests) to the  
Government of Himachal Pradesh.



**HIMACHAL PRADESH FOREST DEPARTMENT**

**NOTIFICATION**

**No. Ft 29-241/BB/49.**

**Dated Shimla-1 the 25<sup>th</sup> February, 1952**

In exercise of the powers conferred by section 29 of the Indian Forest Act, (XVI of 1927) as applied to H.P. read with the Government of India, Ministry of State Notification No. 146-J dated 6<sup>th</sup> December 1950 of the Chief Commissioner, H.P. is pleased to declare the provision of Chapter IV of the Act applicable to the forest lands or waste land in H. P. which are the property of Government or over which the Government have proprietary right to the whole or any part of the produce of which the government is entitled as recorded in the Forest Settlement or land revenue settlement or land revenue records of the integrated state otherwise except to the following area:-

1. Rantu, Saliana, Chambi, Kupar, Kalala and Tomru of Kotkhai Illaqa and Nagkelu of Kotgarh illaqa declared as reserved forests in the Punjab Government no 175, dated the 15<sup>th</sup> April, 1885.
2. Chamba state forests declared reserve forests vide Chamba Darbar,s Notification No. W 46-43 dated the 10<sup>th</sup> November, 1943.
3. Sirmor state forest declared reserve forests in sirmor darbar,s Notification:-
  1. No. 1 dated the 17<sup>th</sup> Jaith, 1958 Baikrami
  2. No. 2 dated the 23<sup>rd</sup> Chait, 1991 Baikrami
  3. No.14 dated the 17<sup>th</sup> Sawan, 1990 Baikrami
  4. No. 38 dated the 27-12-1992 Baikrami
  5. No. Nil dated the I Chait, 1937 Baikrami
  6. No. Nil dated the I Chait, 1947 Baikrami
  7. No.II dated the 2<sup>nd</sup> Poh 1949 Baikrami
  8. No. I dated the 17<sup>th</sup> Jaith, 1952 Baikrami
  9. No. Nil dated the 11 Bhadon, 1982 Baikrami

2. This notification apply to all lands in old Mandi state containing the growth except such lands as have been excluded in the Forest Settlement as cultivated or as in the malgajari of private person.

By Order

CCF & Secretary (Forest Deptt.)  
To the Chief Commissioner, H.P. Admn.

**HIMACHAL PRADESH GOVERNMENT  
FOREST DEPARTMENT**

**NOTIFICATION**

Dated Shimla-4, the 25<sup>th</sup> February, 1952.

No. Ft.29-241/BC/49. In exercise of the powers conferred by clause (a) of Section 30 of the Indian Forest Act (XVI of 1927) as applied to Himachal Pradesh read with the Government of India, Ministry of State Notification No. 146-J dated the 6<sup>th</sup> Dec., 1950, the Administrator (Lieutenant Governor), Himachal Pradesh is pleased to declare all trees in the forests declared protected by Himachal Pradesh Government Notification No. Ft.29-241-BB/49 dated the 25<sup>th</sup> February, 1952 to be reserved with effect from 1 January, 1964.

2. With effect from the said date i.e. 1 January, 1964 the Himachal Pradesh Government (Forest Department) Notification No. Ft.29-241-BB/49 dated the 25<sup>th</sup> February, 1952, on the subject will stand superseded, but this will not effect the previous operation of the said notification or anything duly done or suffered there under.

By Order

CCF and Secretary (Forest) to the  
Government of Himachal Pradesh

No. Ft.29-241/BC/49(M)                      Dated Shimla-4, The 13.11.63

Copy forwarded to the:-

- (1) All Deputy Commissioners in Himachal Pradesh for information and displaying its translation in Hindi in the locality.
- (2) All Conservators of Forests, Himachal Pradesh.
- (3) All Divisional Forest Officers in Himachal Pradesh.
- (4) The Manager, Himachal Pradesh Government Press, Shimla for favour of publication in Himachal Pradesh Rajpatra.

Secretary (Forest) to the  
Government of Himachal Pradesh

**( Authoritative English Text of this Department Notification No FFE –B –A (3) 4/2015, dated- as required under Clause (3) of article 348 of the Constitution of India )**

**Government of Himachal Pradesh  
Department of Forests**

**No. FFE-B-A (3) 4/2015**

**Dated: Shimla -2, the 26 February, 2016**

**Notification**

Whereas, the draft Himachal Pradesh Forest ( Timber Distribution to the Right Holders ) Amendment Rules, 2015 were published in the Rajpatra, Himachal Pradesh on 15-09-2015 vide Notification of even No. dated 03-09-2015 for inviting objection (s) and suggestion (s) person (s) likely to be affected thereby within a period of 30 days from the date of their publication;

Whereas no objection (s) or suggestion (s) from any interested person (s) has/ have been received by the Principal Chief Conservator of Forest (HoFF), Himachal Pradesh within the above stipulated period;

Now, in exercise of the powers conferred by clause (L) of section 32 of the Indian Forest Act, 1927 (16 of 1927), the Governor of Himachal Pradesh is pleased to make the following rules further to amend the Himachal Pradesh Forest ( Timber Distribution to the Right Holder) Rules, 2013 notified vide Notification No. FFE-B (3) 43/ 2006- Vol-II, dated 26-12-2013 and published in the Rajpatra, Himachal Pradesh on 28-12-2013, namely:-

- Short title                      1 (1) These rules may be called the Himachal Pradesh and commencement. Forest (Timber Distribution to the Right Holders) Amendment rules, 2016.
- Amendment 2.                      (2) They shall come into force from the date of their publication in the Rajpatra, Himachal Pradesh
- In rule of the Himachal Pradesh Forest of rule 2 (Timber Distribution to the Right Holder) 2013 (here in after referred to as the said ‘rules’), for clause (e), the following clause shall be substituted , namely:-
- “(e) Timber Distribution Rights means right of a Right Holder having cultivable land, acquired only through inheritance, for grant of timber for construction, repair and addition or alteration of residential house and cow shed for bonafide domestic use of the Right Holder as recorded in the Forest Settlement Report of the area concerned provided that no person who have purchased land for construction of residence, cultivation or any other allied purpose settled from outside in the revenue estate shall be entitled for Timber Distribution rights”.
- Amendment 3..                      In rule 3 of the said rules, for clauses (ii) and of rules 3.(vi) the following new clauses (ii) and (vi) shall respectively be substituted, namely
- “(ii) In case Right Holder has land holding which qualifies him for grant of timber at more than one place, he may be granted timber only at one place where he actually resides;
- (vi) timber shall not be granted to the Right Holders , if salvage trees for the purpose are not available in the forest where concerned Right Holders have timber Distribution rights’.

- Amendment 4. In rule 4 of the said rules, for sub rule (2), Of rule 4 (following sub-rule shall be substituted, namely:-  
 “ (2) Trees shall be given from salvage (fallen, dry standing ) trees. No green standing trees shall be granted to the Right Holder”.
- Amendment 5. In rule 5 of the said rules, in clauses (i) and (ii) , Of rule 5. For the words “fifteen years ” and “five years ” the words “twenty years” and “ten years” shall respectively be substituted.
- Substitution 6. For rule 7 of the said rules, the following rule of rule 7. Shall be substituted namely:-  
**“7” Procedure for grant of trees.** The Right Holder may apply for grant of trees on annexure –I to the Gram Panchayat concerned after getting necessary remarks from the Patwari concerned about his land holding acquired through inheritance and rights .The concerned Gram Panchayat shall scrutinize the applications for making recommendations after ascertaining the genuineness of the requirement of the Right Holders. The recommendation shall be made in the form of a resolution of the Gram Panchayat. Thereafter, Right Holder Shall submit his application to the Forest Guard of the area who shall enter the same in the regler maintained for the purpose and shall acknowledge the receipt of the application to the Right Holder and shall send the application with his recommendations to the Block Officer after ascertaining the genuineness of demand, who in turn shall submit application alongwith his recommendations to the Range Officer. The Range Officer shall forward the same with his recommendations to the Divisional Forest Officer. After receipt of application form the Range Officer ,the Divisional Forest Officer shall take action for grant of the trees after satisfying himself about the genuineness of the requirements and availability of salvage trees in the concerned forest and intimate his decision to the Right Holder concerned a per Annexure –II appended to these rules”.
- Amendment 7. In rule 12 of the said rules, after the word of rule 12. and sign “Thereafter, “another ,” the word “salvage” shall be inserted. Substitution 8. For rule 14 of the said rules, the following of rule 14. rule shall be substituted, namely :-  
**“14 Penalties.-** If any Right Holder, contravenes any of the provisions of these rules, except rule 3 (ii) , in utilization of timber obtained, his rights shall be suspended for next twenty years. In the case of contravention of rule 3 (ii), Timber Distribution Rights of such Right Holder shall be suspended permanently .the Right Holder, in addition to the above penalty, shall also be liable to pay the cost of thee tree at the market rate.
- Substitution of 9. For annexure – I annexed to the said rules, Annexure- I following Annexure shall be substituted namely :-

**“Annexure –I”**

PERFORMA FOR APPLICATION FOR GRANT OF TIMBER  
DISTRIBUTION

(See rule 7)

(Delete whichever is not applicable )

(see rule 7)

1. Name of Applicant \_\_\_\_\_
2. Occupation \_\_\_\_\_
3. Fathers Name \_\_\_\_\_
4. No. of Family members \_\_\_\_\_
5. Is the applicant head of family \_\_\_\_\_
6. Village \_\_\_\_\_
7. Post Office \_\_\_\_\_
8. Tehsil \_\_\_\_\_
9. District \_\_\_\_\_
10. Panchayat \_\_\_\_\_
11. . Year in which Timber Distribution was earlier granted and quantity / No. of trees granted  
\_\_\_\_\_
12. Purpose for which TD required \_\_\_\_\_

(Whether for new construction, repair and addition or alteration of residential house/cow shed).

13. Detail of TD required:

| Species | Volume in Cubic Meter | Name of forest where right exists |
|---------|-----------------------|-----------------------------------|
|         |                       |                                   |

14. I, hereby declare that:

- (i) Trees to meet the requirement for construction ,repair and addition for alteration of residential house /cow shed are not available on my land;
- (ii) I have not sold any tree from my land under the 10 years felling program during the last 10 years .
- (iii) I have land holding at only one place /more than one place i.e. at \_\_\_\_\_ and at \_\_\_\_\_ and I am actually residing at \_\_\_\_\_ place. The detail of T.D. already granted is as under:-

- 
- (iv) I am the original right holder and also head of the family;
  - (v) I have not purchased land after obtaining the permission of the Government under section 118 of the Himachal Pradesh Tenancy and Land Reforms Act,1972 ;
  - (vi) I Understand that rights Holders are subject to the active cooperation and participation of Right Holders in forest conservancy and I Shall perform my duties for apprehending forest offenders, offenders , extinguishing fire etc; and
  - (vii) I shall not misuse the Timber obtained in TD and abide by the rules/ instructions of the Forest Department I this regard.

Date \_\_\_\_\_

( Signature of applicant )

Name in block letters \_\_\_\_\_

**Recommendations in the form of a Resolution of Gram Panchayat:**

It is certified that Sh. \_\_\_\_ S/o Sh. \_\_\_\_ is a permanent resident of Village \_\_\_\_ Mauza \_\_\_\_ and is head of the family as per Panchayat record. The requirement of trees of the application is genuine and he requires \_\_\_\_ Cubic Meter of timber for construction ,repair and addition or alteration of his residential house /cow shed. His /her application is recommended vide Resolution No. \_\_dated \_\_ in the Gram Panchayat .

Seal & Signature of Pradhan, Gram Panchayat

### **Report of Patwari:-**

Certified that Sh. \_\_\_\_ S/o Sh. \_\_\_\_ is a Permanent resident of Mauza \_\_\_\_\_. Applicant is owner of the cultivable land acquired through inheritance comprising khasra number \_\_\_\_ measuring \_\_\_\_ and pays an amount of Rs.\_\_\_\_ Per annum as land Revenue and has recorded rights to obtain trees in T.D. He is the head of the family .

Date \_\_\_\_

Seal & Signature of Halqua Patwari

### **Report of Forest Guard :**

- (i) The application has not obtained trees/timber Distribution for construction of new residential house/ cow shed during last 20 Years. The application has not obtained trees /timber Distribution for repair, addition or alteration of residential house/cow shed for the last 10 years;
- (ii) The applicant has not caused any loss/damage to forest wealth / encroached on forest land and no damage report/ FIR /court case relating to any forest offence is pending against him;
- (iii) The requirement to timber is for \_\_\_\_\_
- (iv) The Applicant extends full cooperation in protection of the forest, and
- (v) The applicant may be sanctioned following trees:-

| Species | Class | Number | Volume | Forest | Salvage |
|---------|-------|--------|--------|--------|---------|
|         |       |        |        |        |         |

Date \_\_\_\_

Seal & Signature of Forest Guard

Name of Forest Guard \_\_\_\_\_

Beat \_\_\_\_\_

### **Report of Block Officer ( Deputy Ranger):**

- (i) Certified that the contents of the application and the certificate given by the beat Guard are correct;
- (ii) I have inspected the site of construction ,repair and addition or alteration of residential house/cow shed, where TD grant is proposed to be utilized and the applicant may be granted following trees on spot:-

| Species | Class | Number | Volume | Forest | Salvage |
|---------|-------|--------|--------|--------|---------|
|         |       |        |        |        |         |

Which is available as salvage in \_\_\_\_\_ Forest; and

- (iii) Applicant has not sold any trees from his land during the last ten years under 10 years felling programmed.

Seal & Signature of Block Officer

Date \_\_\_\_\_

Name\_\_\_\_\_

Block \_\_\_\_\_

**Report of Range Officer:**

The requirement of the application is genuine and he may be granted following .tress:-

| Species | Class | Number | Volume | Forest | Salvage |
|---------|-------|--------|--------|--------|---------|
|         |       |        |        |        |         |

Which is available as salvage in \_\_\_\_\_ Forest,

Date:\_\_\_\_\_

Signature and seal of Range Officer

Name\_\_\_\_\_

Range \_\_\_\_\_

**Sanction by DFO:**

Following trees are sanctioned for construction, Repair and addition or alteration of residential house /cow shed to  
Sh.\_\_\_\_ S/o Sh. \_\_\_\_\_of Village \_\_\_\_\_ Gram Panchayat \_\_\_\_\_ Tehsil \_\_\_\_ Dlrict \_\_\_\_\_

| Species | Class | Number | Volume | Forest | Salvage |
|---------|-------|--------|--------|--------|---------|
|         |       |        |        |        |         |

Date:-

Signature and seal of

Divisional Forest Officer

Anni Forest Division at Luhri.

**Substitution of  
Annexure –II**

**10. For Annexure – annexed to the  
Said rules, the following Annexure shall be substituted, namely :-**

“Annexure –II  
(See rule 7)

No.  
Forest Department,  
Himachal Pradesh  
Form

To, Divisional Forest Officer,  
\_\_\_\_\_Forest Division

Sh. / Smt. \_\_\_\_\_  
Village \_\_\_\_\_ Post Office \_\_\_\_\_  
Tehsil \_\_\_\_\_ District \_\_\_\_\_  
Dated \_\_\_\_\_

Subject:- Sanction of trees under Timber Distribution Rights.  
Dear Sir,/ Madam,

Please refer to your application dated \_\_ for TD for construction, repair and addition or alteration.  
2. Your application for grant of \_\_\_\_\_ Cubic Meter timber of \_\_\_\_ species for construction, repair and addition or alteration of residential house/cow shed has been considered by the undersigned and following trees have been sanctioned in your favour:-

| Species | Class | Number | Volume | Forest | Salvage |
|---------|-------|--------|--------|--------|---------|
|         |       |        |        |        |         |

3. That your TD application has been considered and rejected on the following ground:-

- (i) \_\_\_\_\_  
(ii) \_\_\_\_\_  
(iii) \_\_\_\_\_

Your faithfully  
Date \_\_\_\_\_  
Signature and Seal  
Of Divisional Forest Officer”.

By Order,  
(R.D. Dhiman)  
Pr. Secretary (Forests ) to the  
Government of Himachal Pradesh,

Ends, No. FFE- B-A (3) 4/2015, Dated; Shimla -2, the 2016  
Copy forwarded for information and necessary action to:-

1. All Administrative Secretaries to the Government of Himachal Pradesh.
2. The Principal Chief Conservator of Forests ( HoFF), Shimla 171001.



3. The Pr. Chief Conservator of Forests (Wildlife), Shimla -171001.
4. All Addl. Chief Conservator of Forests / Chief Conservator of Forests, H.P.
5. Addl. Secretary ( GAD-C-Cabinet Branch ) to the Govt. of H.P. w.r.t. item No. 54, dated 30<sup>th</sup> June,2015
6. All Deputy Commissioner in Himachal Pradesh.
7. All Conservator of Forests/ Divisional Forest, Officers in H.P.
8. The Controller, Printing & Stationery Department, Himachal Pradesh, Shimla-5 for Publication in the Rajpatra, Himachal Pradesh.
9. The Deputy Legal Remembrance- cum – Deputy Secretary (Law) to the Govt. of H.P.
10. Guard File.

( Sat Pal Dhiman)  
Deputy Secretary ( Forests ) to the  
Government of Himachal Pradesh  
Ph. No. 0177-2621874

**NOTIFICATION**

**No. FFE-A(C)7-1/96-11**

**Dated: Shimla-2, the 7-11-99**

In the exercise of the power conferred by clause (h) of Section 32 of the Indian Forest Act, 1927 (Act No. XVI of 1927), the Governor, Himachal Pradesh is pleased to make the following rules, namely:-

**1. Short title, commencement and application**

- (1) These rules may be called the Himachal Pradesh Forests (Protection from Fire) Rules, 1999.
- (2) These rules shall come into force from the date of publication in the Rajpatra, Himachal Pradesh.
- (3) These rules shall be applicable through out the year except for the period from 1<sup>st</sup> of July to 13<sup>th</sup> of September.

**2. Definitions**

- (1) In these rules, unless there is anything repugnant in subject or context,
  - (a) “Act” means the Indian Forest Act, 1927 (XVI of 1927);
  - (b) “Divisional Forest Officer” means,
    - (i) Divisional Forest Officer of a Forest Division.
    - (ii) Divisional Manager of the Himachal Pradesh State Forest Corporation Ltd., and
    - (iii) Collector (in whose jurisdiction forest lies);
  - (c) “Forest” means a reserved Forest or protected-forest, duly notified as such under the Act;
  - (d) “Section” means section of act; and
  - (e) “Schedule” means Schedule appended to these Rules.
    - (viii) The words and expressions used, but not defined in these rules, shall have the meanings assigned to them in the Act.

**(2) Prohibition of kindling of fire:-**

- (1) Kindling of fire within one hundred meters from a forest without permissions of the Divisional Forest Officer, or his authorized representative shall be prohibited.
- (2) Any person lighting a fire even beyond one hundred meter from the boundary of a forest shall take precautions, by clearing a fire path, not less than 10 meters in width between such place and such boundary, of by employing watchers or otherwise, to prevent the fire from spreading.
- (3) Precautions to be taken in burning agriculture residue bushes or “ghasnies”, near forest. No person shall ignite agriculture residue or set fire to “ghasnies”, or clear by fire any land, within a distance of one hundred meter from the boundary of the forest, unless;
  - (a) He gives notice of his intention to burn or clear the land by fire, at least one week before doing so, to the nearest Forest Range Officer under whose jurisdiction such land lies; and
  - (b) There is between such boundary and the spot on which such material are ignited, a space at least ten meters in width which is clear of all vegetation capable of carrying fire from such spot to the forest.

(4) Restrictions on collection and stacking of inflammable forest produce of inflammable material outside the boundary of or in the forest. Any person collecting such inflammable material, that is to say, forest produce such as grass, dried leaves and pine needles, firewood timber, bamboo and resin, on a land adjoining a forest, or a holder of a pass or permit issued by Forest Officer, or a person exercising his privilege or right to collect such forest produce from a forest, shall stack it at, as the case may be, in an open space in the forest as the Divisional Forest Officers may, by general or special order, specify, and shall isolate such stacks in such manner that, if it catches fire, the fire shall not spread to the surrounding area to endanger the forests.

**(3) Precautions to be taken at camping places**

(1) No person shall camp in a forest, except in a camping place specially cleared and set apart and duly notified for the said purpose by the Divisional Forest Officers.

(2) A person camping at such camping place may light fire for the purpose of cooking or for any other purpose in such a manner as not to endanger the forest or any building, shed and property at the camping place.

(x) A person camping at the camping place shall, before vacating it, collect in the center of the camping place all inflammable material, which is to be left behind, and shall carefully extinguish all fires at the site.

By order  
Commissioner-cum-Secretary (Forests)  
to the Government of Himachal Pradesh

Authoritative English text of this Department Notification No. 1-21/71-L.S.G. Dated 8-6-94 as required under clause (3) of Article 348 of Constitution of India.

**Government of Himachal Pradesh  
Local Self Govt. Deptt.**

**NOTIFICATION**

No. 1-21-LSG

Dated, Shimla-2, the 8<sup>th</sup> June 1994.

In exercise of the powers conferred by clause (a) of Section 2 of the H.P. Public Premises & Land (Eviction & Rent Recovery) Act, 1971 (Act No. 22 of 1971), the Governor, Himachal Pradesh is pleased to empower all the Divisional Forest Officers of the department to perform the functions of the Collector within their jurisdiction under the aforesaid Act in so far as the encroachments as well as unauthorized occupation of Forest Land is concern with immediate effect.

By order

S.K. Sood  
Commissioner-cum-Secretary LSG)  
to the Govt. of Himachal Pradesh.

No. 1-21/71-L.S.G.

Dated Shimla-2 the 8-6-94

Copy forwarded to:

1. All the Secretaries/Joint Secretaries/Deputy Secretaries/Under Secretaries to the Govt. of Himachal Pradesh.
2. All the Heads of Department in Himachal Pradesh.
3. The Controller, Printing & Stationers, H.P. Press Shimla-5 for publication in the H.P. Rajpatra (Extraordinary). It is requested that ten copies of the Rajpatra in which the above supplied to this Department.
4. A.L.D. Law Department in Himachal Pradesh Sectt. Shimla-2.
5. Record file.

Under Secretary (LSG) to the  
Govt. of India Himachal Pradesh.

(Authoritative English text of this Department Notification No. FTs-II(B) 15-10/87 Dated 23-8-2001 as required under clause (3) of article of the Constitution of India)

## NOTIFICATION

No. Fts. II(B) 15-10/87

Dated

In exercise of the powers conferred by section 80 read with section 81 of the Indian Forest Act, 1927 (Act No. XVI of 1927), the Governor, Himachal Pradesh is pleased to make the following Regulations, namely:-

**1. Short title, application and commencement:-**

- (1) These Regulations may be called the Himachal Pradesh Participatory Forest Management Regulations, 2001
- (2) They shall apply to such Government forest and such Government land including the common land, which shall be selected jointly for participatory forest management by the Society and the Department.
- (3) They shall come into force from the date of publication in Rajpatra, Himachal Pradesh.

**2. Definitions:-** In these Regulations, unless there is anything repugnant in the subject or context.

- (a) **“Act”** means the Indian Forest Act, 1927 (Act No.16 of 1927) as amended in its application to Himachal Pradesh;
- (b) **“Conflict Resolution Group”** means a group consisting of a representative of the concerned Gram Panchayat, a representative of the local non-Government organizations or local community based organizations and the concerned Assistant Conservator of Forests.
- (c) **“Common Land”, “Family”, “Gram Panchayat”, “Panch”, “Pradhan”, “Village” and “Ward”** shall have the meanings respectively assigned to them in the Himachal Pradesh Panchayat Raj Act, 1984 (Act No.4 of 1994);
- (d) **“Department”** means the Himachal Pradesh Forest Department.
- (e) **“Divisional Forest Officer”** means the forest officer in-charge of a territorial of wildlife forest division of the Department.
- (f) **“Executive Committee”** means executive body of the Society;
- (g) **“Forest Officer”** means a Forest Officer as defined under Sub-section (2) of section 2 of the Act;
- (h) **“General House”** means General House of the Society;
- (i) **“Government”** means Government of Himachal Pradesh;
- (j) **“Grazier group”** means a group of persons, whether resident members or migratory graziers, who are dependent on the grazing resource in the selected area for meeting their livelihood needs;
- (k) **“Micro-plan”** means a holistic forest management development plan of the area selected for participatory management;
- (l) **“Participatory forest management”** means management of Government forest and Government land including common land managed jointly by the Society and by the Department;

- (m) **“Selected area”** means any Government forest and Government land including common land selected under regulation 3 of these Regulations;
- (n) **“Self help group”** means any organized group of person, who collectively by mutual help are able to enhance their economic status through resource based activities;
- (o) **“Self help group”** means a sub component of the micro-plan, which is a technically appropriate plan for the site;
- (p) **“Society”** means village forest development society registered under section 3 of the Societies Registration Act, 1860 (Act No. 21 of 1860) for participatory forest management;
- (q) **“Sustainable forest management”** means management which is economically viable, environmentally benign and socially beneficial, and which balances present and future needs; and
- (r) **“User group”** means a group of persons dependent upon a common natural resource for sustaining its livelihood needs.

### 3. **Intent of participatory forest management:-**

- (1) On an application made to the Divisional Forest Officer signed by at least 50 percent of the voters of a Gram Panchayat Ward, any Government forest and Government land including common land may be brought under participatory forest management. The land so identified shall be known as selected area.
- (2) In accordance with the wider objectives and plans of Government for sustainable forest management, the selected area shall be managed jointly by the Society and the Department on the terms and conditions of an agreement to be entered between the Society and the Department.

### 4. **Village forest development society:-**

- (1) There shall be a Society for a Gram Panchayat Ward. However, where the Ward is not compact and the hamlets within it do not have common forests, common grazing lands, common rights and concessions, more than one Society may be formed for each cluster of hamlets. The Society shall be registered under section 3 of the Societies' Registration Act, 1860. (Act No.21 of 1860).
- (2) All voters of a Gram Panchayat Ward shall be entitled to be enrolled as members of the Society.

### 5. **Constitution of Executive Committee of the Society:-**

The Executive Committee shall consist of -

- (a) President to be elected by the General House;
- (b) Vice President -do-
- (c) Four Members -do-
- (d) Treasurer to be nominated by the elected members from amongst the members of the Society;
- (e) Joint Secretary (Woman) -do-
- (f) Ward Panch ex-officio member;
- (g) President – Mahila Mandal -do-
- (h) Representative – Local women group -do-
- (i) Three Members to be co-opted from the village level

Committees constituted by other

- (j) Member – Secretary to be elected by the General House.

Provided that at least 7 members of the Executive Committee shall be from amongst that women.

Joint Secretary shall assist the Member Secretary.

**6. Term of office of members of the Executive Committee:-** Elected members of the Executive Committee shall hold office for a period of two years from the date of assumption of office.

**7. Powers of the Executive Committee:-** The Executive Committee shall exercise the powers of a “Forest Officers” as assigned by the Government under the Act.

**8. Usufruct sharing:-** The Society shall be entitled to the following benefits, namely:-

- (a) to collect the yield such as fallen twigs, branches, lopping, grass, fruits, flowers, seeds, leaf fodder and non timber forest products free of cost;
- (b) to the sale proceeds of all intermediate harvest, subject to protection of forest and plantations for at least 3 years from the date of agreement;
- (c) to organize and promote vocational activities related to forest produce and land; and other activities such as promotion of self help groups which may provide direct benefits, including micro lending to women. None of the activities so promoted shall affect the legal status of the forest land;
- (d) recorded rights over the forest shall not be affected by these benefits;
- (e) the Government shall forest charge no royalty on the forest produce within the selected area;
- (f) after 5 years, the Society may expand the areas, on the basis of a fresh agreement deed, by inclusion of adjoining or nearby areas;
- (g) after 20 years from the date of agreement and, based on the principles of sustained forest management, 75 percent of the net sale proceeds from selected area shall be put into the account of Society and the remaining 25 percent of the sale proceeds shall go to the concerned Gram Panchayat; and
- (h) to utilize at least 40 percent of the net sale proceeds on forest regeneration activities including soil and water conservation. Provided that for the purpose of usufruct sharing, family shall be one unit.

**9. Funds:-** Funds shall be generated by the Society through contributions by members and sale of usufructs under these regulations. All funds, including those received from the Government, Gram Panchayats and non-government sources, shall be utilized through the micro-planning process.

**10. Maintenance of accounts:-** The sum received by the Society shall be deposited in the name of the concerned Society in a nationalized bank or scheduled bank or co-operative bank or post office and the account shall be operated under the signatures of the President, Treasurer and Member Secretary of the Society.

**11. Grant-In-Aid:-** The department shall release Grant-In-Aid to the Society under the Grant-In-Aid Rules subject to the availability of funds and satisfactory performance of functions by the Society.

**12. Settlement of dispute:-** In case of any dispute in relation to usufructs sharing in the Society, the Deputy Ranger concerned of the Department, shall take steps to reconcile the dispute. In case the dispute is not resolved, the

Deputy Ranger shall refer the dispute, along with his report to the Ranger Officer concerned of the Department. The Range Officer, after hearing the parties, shall resolve the dispute within 30 days from the date of receipt of report of the Deputy Ranger.

**13. Appeal:-** An appeal shall lie from the decision of the Ranger Office to the Conflict Resolution Group to be filed within 30 days from the date of decision, who shall decide the same within 60 days from the date of filing of appeal, after affording an opportunity of being heard to the parties. The decision of the Conflict Resolution Group shall be final and binding on the parties. The conflict Resolution Group shall send a copy of the decision to the Society and the Divisional Forest Officer concerned free of cost.

**14. Preparation of micro-plans:-**

(1) A micro-plan shall be prepared for the forest management and development of the selected area, by the Society. The Development shall help the Society in preparation of the micro-plan. A micro-plan shall be operative for a period of five years from the date of its approval by the Divisional Forest Officer and may be revised after three years. The micro-plan shall be passed in the general house with at least 60 percent majority of the members present.

(2) The Divisional Forest Officer may approve whole or part of the micro-plan.

**15. Powers of the Government:-**

Notwithstanding anything contained in these regulations, the Government shall have the powers to issued directions to the Society on participatory forest management processes, micro planning, co-ordination, monitoring Grant-in-Aid and implementation mechanisms.

By order  
FC-cum-Secretary (Forests) to the  
Government of Himachal Pradesh

Endst. No. As above

Dated Shimla-2, the 23-8-2000

- Copy is forwarded to the following for favour of information and necessary action:-
1. The Secretary, Government of India, Ministry of Environment & Forests, Paryavaran Bhawan, CGO Complex, Lodhi Road, New Delhi-3.
  2. The FC-cum – Secretary (Finance – Reg.) to the Government of Himachal Pradesh, Shimla-2, with 3 spare copies.
  3. The Pr. Chief Conservator of Forests, H.P. Shimla-1 with 20 spare copies.
  4. The Addl. PCCF, H.P. Shimla-1.
  5. The Accountant General (Audit), H.P. Shimla-3 with 5 spare copies.
  6. All CCFs in Himachal Pradesh.
  7. The Conservator of Forests, Planning, H.P. Shimla-1.
  8. The Controller (P & S), H.P. Govt. Press, Shimla-5, for publication in the Rajpatra.
  9. The Asst. Controller (F & A), O/O PCCF, H.P. Shimla-1
  10. Guard File.

-Sd-  
Addl . Secretary (Forests) to the  
Government of Himachal Pradesh



**Government of Himachal Pradesh  
Forest Department**

No.FFE-B-A (10)-1/2009

Dated the Shimla – 18-08-2018

**Notification**

In supersession of all Previous Notification Nos. Fts ( F) 6-7/82- Losse, Fts –B (B) -6-/ 82-II . FFE-B-A (10) - 2005 AND FFE. B-A (10) -1 /2009 Dated 09.04.1996, 27.08.2001, 20.07.2006.and 04.03.2014 regarding relief due to losses caused to human beings and domestic live stock by the wild animals as defined in Wildlife ( protection ) Act, 1972 the Governor , Himachal Pradesh is pleased to notify the following enhanced relief rates as under:-

| S.No | Particulars                                                                                                                                                  | Enhanced Rates ( in Rupees) |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| 1.   | In case of death of human being.                                                                                                                             | 4,00,000/-                  |
| 2.   | In case of permanent disability to human being.                                                                                                              | 2,00,000/-                  |
| 3.   | In case of grievous injuries/ partial disability to human being.                                                                                             | 75,000/-                    |
| 4.   | In case of simple injury to human being as per actual cost of medical treatment subject to maximum.                                                          | 15,000/-                    |
| 5.   | In case of loss of Horse ,Mule, Buffalo, Ox, Yak and Camel                                                                                                   | 30,000/-                    |
| 6.   | In case of loss of Cow Jersey and cross breed.                                                                                                               | 15,000/-                    |
| 7.   | In case of loss of Cow ( local ;bred), Donkey, Churu, churi & Pashmina Goat.                                                                                 | 6,000/-                     |
| 8.   | In case of loss Sheep, Goat and pig.                                                                                                                         | 3,000/-                     |
| 9.   | In case of loss of young ones of Buffalo, Cow Jersey and all other breeds, Mule , yalc, Horse, Camel , Churu, churi, Donkey . Pashmina Goat, Sheep and Goat. | 15,00/-                     |

The following guidelines will be followed for grant of relief:-

- i) Production of postmortem report in case of human life, certificate in case of grievous injury, partial & permanent disability and prescription slip as well as verification of actual cost of Medical treatment in case of simple injury (including Monkey bites) from the Medical officer of a Government Institution / Govt. recognized Medical Institution, as the case may be.
- ii) The verification of loss of cattle that was actually caused by wild animal can be done by the Pradhan / Up Pradhan of Panchayat/ Patwari/ President Notified Area Committee/ Chairman, Municipal Committee, Commissioner/ Mayor /Deputy Mayor, Municipal Corporation of the area /Elected Member of the Cantonment Board area /Councilor of the area, Range Officer / Deputy Ranger / Forest Guard or any other forest officer higher in rank than a Range Officer , Veterinary officer or Veterinary Pharmacist or officer authorized by Veterinary officer of the area .
- iii) All DFOs in HP Shall be the final authority to sanction all case of relief claims on account of losses caused by the wild animals to humans and domestic livestock.
- iv) The DFOs shall release 25% of the amount of relief prescribed for human loss/ permanent & partial disability / grievous injury on receipt of report as interim relief immediately to the family of the deceased /affected person after due Verification in anticipation of formal sanction without delay. The balance amount will be released after receipt of the complete relief claim.
- v) For immediate disbursement of relief claim, a corpus fund will be created at the level of Principal Chief Conservator of Forests (Wildlife)- Cum Chief Wildlife Warden. All the Budget allocations from the state as well as from State CAMPA in respect of relief shall be deposited in the aforesaid corpus fund. The PCCF (WL) will ensure the disbursement of relief amount in respect of aforesaid categories of losses on the same day on receipt of a request from the concerned DFO. The DFO concerned will ensure to send such requests by E-mail /Fax asking for funds of relief amount on the same day of incident or on the day of receipt of information of the incident from the claimant. DFC will make

- payment of aforesaid 25% of the relief amount immediately from the budget available with him under any scheme and same will be recouped on receipt of funds from the Chief Wildlife Warden.
- vi) All claims in respect of simple injury to humans shall be restricted to actual cost of medical treatment, verified by the Medical Officer of a Government Institution / Govt. recognized Medical Institution subject to maximum of Rupees 15,000/- as prescribed above in the categories of losses.
  - vii) All Cases of losses caused by the wild animals should be reported by the applicant to nearest Forest Office within seven days of the incident and claims for relief is filed within one month to the nearest Range Forest Office under control of Divisional forest officer (territorial or wildlife). The claim can be filed either at the place where the loss by Wild animal has occurred /reported or where the applicant resides. All time barred cases shall be set to Govt. of Himachal Pradesh for approval.
  - viii) The relief will be granted in case of loss of livestock to the owner of the livestock. These rates would be applicable for killing of domestic animals by wild animals as defined in Wildlife (Protection) Act, 1972 in cattlesheds / cowsheds, private land, private premises and forests.
  - ix) The relief will be granted in case of loss of the human being will be granted in the order of preference given Below:-

- (a) Wife or husband, as the case may be.
  - (b) Sons, unmarried or divorced daughters and children of predeceased son (equal share).
  - (c) Daughters. (Equal share).
  - (d) Grand Children being children of his/her sons or daughters who died before him/her (equal share).
  - (e) Father or Mother.
  - (f) Brothers or sisters or children of the deceased brothers (equal share).
  - (g) Failing all above any other next or kin entitled to a share in the estate.
- All the prescribed rates shall be made applicable with immediate effect.

**By Order,**

**Tarun Kapoor**  
**Additional Chief Secretary (Forest) to the**  
**Government of Himachal Pradesh**

Authorities English text of the Govt. Notification No. Fts. (A)3-1/77 dated 17-8-93 as required under clause(3) of Article of the Constitution of India for the general information of the public.

**Government of Himachal Pradesh  
Department of Forest Farming & Conservation.**

No.Fts(A)3-1/77

Dated Shimla-2, 17<sup>th</sup> August, 1993

**NOTIFICATION**

In exercise of powers conferred under sections 41 and 42 of the Indian Forest Act, 1927 (16 of 1927), the President of India is pleased to make the following rules to Amend the Himachal Pradesh Forest Produce Transit (Land Routes) Rules, 1978 and published in the Rajpatra Himachal Pradesh (Extra-Ordinary) dated the 5<sup>th</sup> March, 1979, vide this Department Notification of even number dated 20.11.1978, namely:-

Short Title            1            These rules shall be called the Himachal Pradesh Forest Produce Transit (land Routes) Amendment, Rules, 1993.

Amendment           2            In rule 5 of the Himachal Pradesh Forest Produce Transit (land of rule-5            Routes) Rules, 1978 (herein after called the “said rules”) after the words “any forest produce”, but before the words “that does not bear”, the words and signs “other than fuelwood, Khair wood, bamboos, charcoal, medicinal plants and seeds” shall be inserted.

Amendment           3            In rule 6 of the said rules, after the words “forest produce” but before of rule 6 the words by land routes, the words and sign “other than fuelwood, khair wood, bamboos, charcoal, medicinal plants and seeds” shall be inserted.

Amendment           4            In rule 10 of the said rules, for the words “timber or for such timber of rule 10 appearing after the words “any unmarked”, but before the words “as bears” the words and signs “forest Produce other than fuelwood, Khair wood, bamboos, charcoal, medicinal plants and seeds” shall be substituted.

Amendment           5            In rule 11 of the said rules, for sub-rule (5), the following shall be substituted, namely:-  
“ (5). The issuing authority shall also determine the other conditions subject to which the pass shall be issued and shall also determine the period for which the pass shall remain valid. However, the validity of any pass shall under no circumstances exceed a period of six month including any extension (s) allowed. A fee of Rs.25/- shall be livable for the issue of such a pass except in case of medicinal plants for which the fee shall be as per Annexure: D:”

Amendment           6            For rule 18 of the said rules, the following shall be substituted, namely:-  
of rule 18

“18. Ban on booking forest produce by rail, by post and by air:- No person shall offer any forest produce, for export by rail or any railway station or by post at post office or by air on any airport within Himachal Pradesh, unless a pass has been issued under these rules and no railway, Postal, Airport authority shall accept for transport/transmission, any forest produce by rail, post or air, unless it is accompanied by a valid pass”.

Amendment 7 In rule 20 of the said rules, for the words “six months” appearing after of rule 20 the words “extends to”, but before the words “or with” the words “two years” shall be substituted and for figure “500”, words “five thousand” shall be substituted.

Amendment 8 After ‘Annexure-‘C’ to the said rules, the following New Annexure-‘D’ Annexure-‘D’ the following Annexure ‘D’ shall be inserted, namely:-

**Annexure ‘D’**

(See rule 11(5))

| Sr. No. | Botanical name of medicinal plants                       | Local name of medicinal plants | Export permit Fee (in Rs. Per Quintal) |
|---------|----------------------------------------------------------|--------------------------------|----------------------------------------|
| 1       | 2                                                        | 3                              | 4                                      |
| 1.      | Anselia aptra                                            | Sath jalori                    | 50.00                                  |
| 2.      | Aconitum chasmanthum                                     | Patish Atish (Karvi Patish)    | 7500.00                                |
| 3.      | Picrorhiza Kurrooa                                       | Karoo                          | 540.00                                 |
| 4.      | Jurienea macrocephale                                    | Dhoop                          | 500.00                                 |
| 5.      | Podophyllum hexandrum                                    | Bankakri                       | 450.00                                 |
| 6.      | Angelica glauca                                          | Chora                          | 125.00                                 |
| 7.      | Viola odorata                                            | Banafsha                       | 2250.00                                |
| 8.      | Valeriana wallichii                                      | Mushakbala                     | 590.00                                 |
| 9.      | Rheum emodi                                              | Rewandchini                    | 110.00                                 |
| 10.     | Dioscorea deltoidea                                      | Shingli-mingli                 | 900.00                                 |
| 11.     | Thalictrum                                               | Mamiri                         | 335.00                                 |
| 12.     | Artemisia brevifolia                                     | Seski                          | 50.00                                  |
| 13.     | Thymus sephyllum                                         | Banjawain                      | 100.00                                 |
| 14.     | Atropa acuminata                                         | Balladona (Jharka)             | 60.00                                  |
| 15.     | Morchella esculenta                                      | Guchhies                       | 10000.00                               |
| 16.     | Potentilla nepalensis                                    | Dori                           | 40.00                                  |
| 17.     | Placia integrima                                         | Kakarsinghi                    | 1000.00                                |
| 18.     | Polygenatum verticillatum/cirrhifolium (meda/mahameda)   | Salam Mishri (Rs 2-3000/kg)    | 1000.00                                |
| 19.     | Aconitum heterophyllum                                   | Patish (Mithi)                 | 1500.00                                |
| 20.     | Aconitum violaceum                                       | Mitha telia                    | 500.00                                 |
| 21.     | Salvia moorcrottiana                                     | Thuth                          | 180.00                                 |
| 22.     | Bunium persicum                                          | Kala zira                      | 2000.00                                |
| 23.     | Selinum vaginatum                                        | Butkesh                        | 400.00                                 |
| 24.     | Taxus baccata                                            | Birmi                          | 600.00                                 |
| 25.     | Rhododendron companulatum                                | Kashmiri patta                 | 150.00                                 |
| 26.     | Tinospora cordifolia                                     | Gloe                           | 100.00                                 |
| 27.     | Orchis latifolia                                         | Salam punja                    | 6000.00                                |
| 28.     | Valeriana hardwickii                                     | Nihani                         | 300.00                                 |
| 29.     | Acorus calamus                                           | Bush                           | 130.00                                 |
| 30.     | Pinus wallichina                                         | Kail cones                     | 1000.00                                |
| 31.     | Berberis arlata<br>Berberis asiatica<br>Berberies lycium | Rasaunt                        | 500.00                                 |
| 32.     | Swertia chirata                                          | Chiryata                       | 700.00                                 |
| 33.     | Adiantum lunlatum                                        | Dusgtuli                       | 80.00                                  |
| 34.     | Nardostachys jatamansi                                   | Jatamansi (Balchora)           | 690.00                                 |
| 35.     | Lichens                                                  | Chalora                        | 225.00                                 |
| 36.     | Abies webbiana                                           | Talis patra                    | 85.00                                  |

|     |                         |                       |        |
|-----|-------------------------|-----------------------|--------|
| 37. | Ephedra gerardiana      | Ephederiana (Butehur) | 50.00  |
| 38. | Saussurea lappa         | Kuth                  | 300.00 |
| 39. | Hedychium acuminatum    | Kapper kachri         | 70.00  |
| 40. | Hyoscyamus niger        | Kharasani Ajwain      | 150.00 |
| 41. | Heracleum spp           | Patishan roots        | 25.00  |
| 42. | Gerardiana heterophylla | Bichhu buti           | 150.00 |

By Order

P.T. Wangdi  
FC-cum-Secretary (Forests) to the  
Govt. of Himachal Pradesh.

Endst. No. Fts. (A) 3-A/77

Dated 17.8.1993

Copy to :

1. PCCF H.P. with 50 spare copies.
2. All CFs/ DFOs in H.P.
3. All Deputy Commissioners in H.P.
4. Controller Printing & Stationary Department Himachal Pradesh, Shimla-5 with the request to public in the Rajpatra (extraordinary)
5. Guard file

**Government of Himachal Pradesh**  
**Department of Forest Farming & Conservation.**

No. Fts-B(f)-13-49/98 Loose

Dated Shimla-2, 4<sup>th</sup> August, 2000

**NOTIFICATION**

In, exercise of the powers conferred by sections 41 and 42 of the Indian Forest Act, 1927 (16 of 1927), The Governor Himachal Pradesh is pleased to make the following rules to amend the Himachal Pradesh Forest Produce Transit (Land Routes) Rules, 1978 published in the Rajpatra Himachal Pradesh (Extra-Ordinary) dated the 5<sup>th</sup> March, 1997, vide Notification No. Fts (A)3-1/77, dated 17.8.1993, namely:-

1. Short Title i) These rules may be called the Himachal Pradesh Forest  
Commencement Produce Transit (land Routes) Amendment, Rules, 2000.  
ii) They shall come into force from the date of publication in the Rajpatra,  
Himachal Pradesh.
2. Amendment of In Annexure-D to the Himachal Pradesh Forest Produce Annexure- D.  
Transit (Land Routes) Rules, 1978, after item No. 42, the  
Following new items shall be added, Namely:-

| Sr. No. | Botanical name of medicinal plants | Local name of medicinal plants | Export permit Fee (in Rs. Per Quintal) |
|---------|------------------------------------|--------------------------------|----------------------------------------|
| 43.     | Cedrella Spp                       | Dari phool                     | 50/-                                   |
| 44.     | Pyrus pashia colebrookea           | Kainth                         | 30/-                                   |
| 45.     | Oppositifolia                      | Bindi Phool                    | 50/-                                   |
| 46.     | Rhododendron opp                   | Brass phool                    | 150/-                                  |
| 47.     | Coleus aromaticus                  | Pathan Bail                    | 30/-                                   |
| 48.     | Lichens and Mosses                 | Green Mous Ghass               | 250/-                                  |
| 49.     | Hypericum patulum                  | Khaarera/Basanti               | 250/-                                  |
| 50.     | Curcuma spp                        | Ban Haldi                      | 50/-                                   |
| 51      | Juniper recurva                    | Bether patta                   | 100/-                                  |

The export permit fee levied on all 51 species in this agreement will be applicable irrespective of the fact whether the above species are collected from the forest or are grown domestically except that the above fee will not be levied on item No. 22 Bunium persicum (Kala Zira) and item No. 38 Saururea lappa (Kuth) in case they have been grown on private land. However, export permit fee will be chargeable in cases these two species have been collected from the forests.

By Order

FC-cum-Secretary (Forests) to the  
Government of Himachal Pradesh.

Endst. No. As above.

Dated Shimla-2, 4<sup>th</sup> August, 2000

Copy to :

1. The Joint Secretary (GAD) to the GoHP Shimla-2 w.r.t. item No. 18 of the meeting dated 20.7.2000.
2. The Principal Chief Conservator of Forests, Himachal Pradesh, Shimla-1 w.r.t. his letter No. Ft. 12-306/57 (M)-XIII dated 5.5.2000
3. All the Conservator of Forests/Divisional Forest Officers in Himachal Pradesh.
4. The Controller, HP Printing and Stationary Department, Ghora Chowki, Shimla-5 for publication in the Rajpatra. 5 copies of the same be sent to this Department.
5. All the Deputy Commissioners in Himachal Pradesh.
6. The LR-cum-Secretary (Law) to the GoHP.
7. The Under Secretary (Finance) to the GoHP Shimla-2.
8. Guard file/spare copies (50 Nos.)

Addl. Secretary (Forests) to the  
Govt. of Himachal Pradesh.

**Government of Himachal Pradesh  
Forest Department**

**NOTIFICATION**

No.FFE-B-E(3)-31/2001-1

Dated: Shimla-2, the

19<sup>th</sup> February, 2011.

Whereas, the Expert committee constituted by the State Government in compliance of interim order dated 12.12.1996 of the Hon'ble Apex court in writ Petition (C) 202 of 1995 titled – T.N. Godaverman Vs union of India and others decided that the 'compact wooded block' above 5 ha which are not recorded as 'forest' in the revenue record shall be treated as 'forest'.

2. And Whereas, during the hearing of Civil Appeals No. 8133, 8134 and 8135 of 2003 on 01.02.210 in the Central Empowered Committee constituted by the Hon'ble Supreme Court of India in Writ Petition (c) 202 of 1995 titled – T.N. Godaverman Vs Union of India and others, it was suggested by the Central Empowered Committee that the definition of 'Forests' as defined by the State of Himachal Pradesh needs further clarification by way of certain definable parameters.

3. And Whereas the Central Empowered Committee vide its recommendations dated 7<sup>th</sup> September, 2010 communicated to the Hon'ble Apex Court that the CEC is in agreement with the definition of the 'compact wooded block' decided by the state and recommended that the Civil Appeals No.8133, 8134 and 8135 of 2003 may be decided with the direction that the State of Himachal Pradesh will notify the decision of 'compact wooded block' decided by it immediately.

4. And Whereas on the recommendations/Report of the Central Empowered Committee, the Hon'ble supreme court of India on 22/11/2010 in the above matter has passed following order:-

5.

"The CEC vide its report dated 7<sup>th</sup> September, 2005 inter alia observed that it will be appropriate that the State of Himachal notifies the definition of Compact Wooded Block as decided by the Himachal Pradesh Forest Department. Learned counsel for the State of H.P. submits that so far the State did not issue any such Notification. In such circumstances, we direct the State of H.P. to examine the issue and issue appropriate Notification in this regard shall be issue within three months today."

Now therefore, in compliance of the above order of the Hon'ble Apex Court, the definition of 'forest'/ 'compact wooded block' is notified as under:-

1. **"If the private area is notified under Indian Forest Act, 1927 or other Act or is entered as van /ban/ vani/ jungle in the revenue record it will be treated as forest."**
2. **For other type of areas not recorded as indicated in point 1.**

There are two components under this definition:-

**Compactness of the area 5 Ha. and**



**Woodiness** in this area of above 5 Ha.

According, the definition in different agro-climatic zones wooded be as under:-

- i) **Temperate areas:-** These areas consling of conifer forests of deodar, for, spruce, kail, and of oaks rhododendrons and other broad leaved species will be defined as under:-

“A compact wooded private area of more than five hectares constituted by itself or in contiguity with private khasras of one or more than one land owners and having mare than 400 trees of natural original and not of plantation origin per hectare of Class-III and above in this compact wooded block will constitute a forest.”

- ii) **Sub-tropical areas:-** The areas consling of chil, khair and other broad leaved forest species will be defined as under:-

**Chil forest:-** The above definition for temperate area will hold good in these forest.

**Khair and other broad leaved species:** “A compact wooded private area of more than five hectares constituted by itself or in contiguity with private khasras of one or more than one land owners and having more than 800 trees of natural origin and not of plantation origin per hectares of less than class III or for a mixed crop (mature and young) the trees being worked out by taking one mature tree equal to two young trees being worked out by taking one mature tree equal to two young trees and vice versa in this compact wooded block will constitute a forest”.

By Order

Principal Secretary (Forests) to the  
Government of Himachal Pradesh.

**Endst. No. FFE-B-E(3)-31/2001-1**

Dated: Shimla-171002, the

19/02/2011

Copy forwarded for information and necessary action to:-

1. The Private Secretary to his Excellency Governor of H.P. Shimla-2.
2. The Private Secretary to Hon'ble Chief Minister H.P. Shimla-2.
3. The Principal Chief Conservator of Forests, HP, Shimla-1 with 10 spare copies.
4. The Principal Chief Conservator of Forests, Wildlife, HP, Shimla-1 with 10 spare copies.
5. The M.D. HPSDFC, Kasumpti, Shimla-9.
6. The Joint Secretary (Law) to the GoHP, Shimla-2.
7. All the Deputy Commissioners in Himachal Pradesh.
8. All the Addl. Principal CCFs / CF and Conservators of Forests/Divisional Forest Officers in H.P.
9. The Controller, HP Printing & Stationery department Ghora Chowki, Shimla-5 for publication in Rajpatra (Extra ordinary).
10. Guard file (50 copies).

By Order

Principal Secretary (Forests) to the  
Government of Himachal Pradesh

Government of Himachal Pradesh  
Department of Forests

No. FFE-B (F) 2-73/97

Dated Shimla-2,

the 23<sup>rd</sup> Oct, 2002.

Notification

The Governor, Himachal Pradesh is pleased to constitute the Upper Satluj Valley watershed Development society for the implementation of Catchment Area Treatment plans of all Hydrel projects coming up, or in existence, in Satluj Valley basin. The Society will be responsible for the implementation of Cat plans.

The Society will function in accordance with the approved byelaws as annexed to this notification at (Annexure -A).

By order

Principal Secretary (Forests) to the  
Government of Himachal Pradesh.

Endst . No. As above, Dated Shimla-2, the

Any for information and necessary action is forwarded to :-

1. Pr. Chief Conservator of Forests (WL), H.P. Shimla-1
2. Pr. Chief Conservator of Forests, H.P. Shimla-1.
3. M.D. H.P. State Forest Corporation Dtd, Shimla-9.
4. All CCFs/CFs/Directors of HPSFC in H.P.
5. The Controller (P&S), H.P. Govt. Press, Shimla-5.
6. Conservator of Forests Rampur Circle.
7. All Executive Directors/ General Managers of the Power Projects in Satluj Valley Basin.
8. Finance Department Himachal Pradesh.

Addl. Secretary (Forests) to the  
Government of Himachal Pradesh.

Government of Himachal Pradesh  
Department of Forests

No. FFE-B-F (1)2/2010

Dated Shimla-2, the 5<sup>th</sup> May, 2012

Notification

The Governor Himachal Pradesh is pleased to order the closure of “ Satluj valley Watershed Development Society, Rampur”, constituted vide notification No FFE-B(F)2-73/97 dated 23.10.2002; for the implementation of Catchment Area Treat Plans of all Hydro-Electric Projects in Satluj basin, in public interest.

2 The above –said society will cease functioning, latest by 30.06.2012, after the finalization of accounts (including audits) and balance sheet for the year 2011-12.

3 The balance funds , pertaining to the implementation of CAT Plans etc. lying in the bank accounts of above – said society , if any will be transferred to the bank account (CAMPA) of the Conservator of Forests, Rampur. The amount of interest accrued in the Bank account will however, be transferred and placed at the disposal of HP State CAMPA.

4 Conservator of Forests, Rampur will act as ‘successor’ of the Sutlej Valley Watershed Development Society, Rampur”, and will be responsible for matters relating to record keeping accounts, audit and RTI etc.

5 The catchment Area Treatment Plans( CAT Plans) & Compensatory Afforestation (CA) etc. of all Hydro- Electric Projects in Satluj river basin will, henceforth, be implemented through the concerned Conservator of Forests.

By Order

Principal Secretary (Forests)  
To the Government of Himachal Pradesh  
Dated Shimla-2 the 5<sup>th</sup> may.....

Endst.No. As Above/

Copy for information and necessary action is forwarded to :-

1. Principal Chief Conservator of Forests (T), HP Shimla-1.
2. Principal Chief Conservator of Forests (Wildlife), HP Shimla-1.
3. Managing director, HP State Forest Development Corporation Ltd., Shimla-9.
4. All Addl. Pr.CCFs/CCFs/CFs/ Directors of HPSFC in HP.
5. Project Director, Satluj valley Watershed Development Society, Rampur.
6. Controller (P&S), HP Govt. Press Shimla-05.
7. Secretary General, Himachal Power Producer Forum (HPPF), Uttam Bhawan Near Tunnel Shimla -04.
8. RegIrar, Co-op Societies, SDA Complex Shimla-09.

Sd./-  
Under Secretary (Forests)  
To the Government of Himachal Pradesh

उत्तिर्ही म. डी. एल. - 33004/99

REGD. No. D. L.-33004/99

# **भारत का राजपत्र** **The Gazette of India**

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असाधारण  
EXTRAORDINARY  
भाग II—खण्ड 3—उप-खण्ड (II)  
PART II—Section 3—Sub-section (II)

प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY

सं. 1363]  
No. 1363]

नई दिल्ली, बुधवार, मई 20, 2020/वैशाख 30, 1942  
NEW DELHI, WEDNESDAY, MAY 20, 2020/VAISAKHA 30, 1942

पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय

अधिसूचना

नई दिल्ली, 23 अप्रैल, 2020

का.आ. 1524(अ).—हिमाचल प्रदेश राज्य ने वनों से बाहर के क्षेत्रों में रीसस मकाक बंदरों की अत्यधिक संख्या के कारण बड़े पैमाने पर खेती के विनाश होने सहित जीवन और संपत्ति की हानि होने की रिपोर्ट दी है;

और केंद्रीय सरकार वनों में वन्यजीवों का संरक्षण सुनिश्चित करने के लिए राज्य में मानव जीवन, फसलों और अन्य संपत्तियों की क्षति को कम करने के लिए इस प्रजाति की स्थानीय संख्या को संतुलित करना आवश्यक समझती है;

अतः इसलिए, अब केंद्रीय सरकार वन्यजीव (संरक्षण) अधिनियम, 1972 (1972 का 53) की धारा 62 द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए एतद्वारा उक्त अधिनियम की अनुसूची-II के भाग-I की क्रम संख्या 17-क पर सूचीबद्ध रीसस मकाक (मकाका मुलाटा) को पीड़क जंतु के रूप में घोषित करती है और निम्न तालिका में विनिर्दिष्टानुसार हिमाचल प्रदेश के क्षेत्रों में सरकारी राजपत्र में इस अधिसूचना के प्रकाशित होने की तारीख से एक वर्ष की अवधि के लिए उक्त अधिनियम की अनुसूची-V में सम्मिलित करती है; अर्थात्:—

तालिका

| क्रम सं. | जिले का नाम | तहसीलों/उप-तहसीलों की संख्या | क्षेत्र/तहसील/उप-तहसील का नाम (*)                                                                                                          |
|----------|-------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| (1)      | (2)         | (3)                          | (4)                                                                                                                                        |
| (i)      | चंबा        | 06                           | चूराह, नरमीर, डलहोड़ी, भटियात, सिद्धुता और चंबा                                                                                            |
| (ii)     | कांगड़ा     | 15                           | कस्बा-कोटला, जसवान, देहरा-गोपीपुर, खुडियां, जयसिंहपुर, बैजनाथ, धर्मशाला, शाहपुर, तूरपुर, डंडौरा, फतेहपुर, जवाली, कांगड़ा, पालनपुर और बड़ोह |

2098 GI/2020

(1)



|        |           |    |                                                                                                                                                          |
|--------|-----------|----|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| (iii)  | बिलासपुर  | 06 | संभुडा, भारती, गुमारविन, नैनादेवी, बिलासपुर सदर और ममहोज                                                                                                 |
| (iv)   | उना       | 05 | भरवैग, जमुच, उना, हारीसी और बंगाना                                                                                                                       |
| (v)    | शिमला     | 16 | तुल्सी, डिग्री, कोटखार्द, कुमारसैग, पोषाग, रोहाड़, जुन्वर, विरगांव, कुपची, नग्गारी, डिक्कर, जुगा, शिमला घाटीग, रामपुर, नेरवा और शिमला नगर निगम की सीमाएं |
| (vi)   | मिर्जापुर | 10 | पांडेरा हाहिब, दवाह, पम्नीता, नौहरा, पन्नाद, राजगढ़, रेणुका, शिल्लार्द, कामरु और बाहुन नगर पालिका समिति क्षेत्र                                          |
| (vii)  | सोभन      | 08 | अकी, कंवापाद, रामसहर्, नृण्णगड, पालागड, कगौसी, सोलन और दलप्याड                                                                                           |
| (viii) | मंडी      | 10 | मंडी, जबियोट, धुताग, कामाग, सोमिंदरनगर, पधार, लदभाटोल, सरकाभाट, धर्मपुर और मुंदरनगर                                                                      |
| (ix)   | कुल्लु    | 06 | निर्मंद, बजर, अमी, पनासी, कुल्लु और सैज                                                                                                                  |
| (x)    | हमीरपुर   | 06 | हमीरपुर, भोरंज, भदाऊ, मुजानपुर, मदमर और बिजहारी                                                                                                          |
| (xi)   | किल्लौर   | 05 | विबर, पूह, कल्पा, संगासा और मूरंग                                                                                                                        |

2. शिमला प्रकाशक (मककाता मुलाटा) का अनुसूची-V में शामिल किया जाना हिमाचल प्रदेश राज्य के नन क्षेत्रों पर लागू नहीं होगा।

[फा. सं. 1-26/2015-डब्ल्यूएल-(पार्टी)]

संजय कुमार, अपर नन महानिदेशक (वन्यजीव)

## MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE

### NOTIFICATION

New Delhi, the 23rd April, 2020

**S.O. 1524(E).**—Whereas, the State of Himachal Pradesh has reported harm to life and property including large scale destruction of agriculture due to overpopulation of Rhesus Macaque monkeys in areas outside forests;

And whereas, the Central Government has considered it necessary to balance local population of this species to mitigate the damage to human life, crops and other properties of the State for ensuring conservation of wildlife in forests.

Now, therefore, in exercise of the powers conferred by section 62 of the Wild Life (Protection) Act, 1972 (53 of 1972), the Central Government, hereby declares Rhesus Macaque (*Macaca mulatta*) listed at serial number 17-A of Part I of Schedule II to the said Act, as vermin and included in Schedule V of the said Act, for a period of one year from the date of publication of this notification in the Official Gazette, in the areas of Himachal Pradesh as specified in the Table below, namely:-

TABLE

| Sl. No. | Name of District | No. of Tehsil/ Sub-Tehsil | Name of Area/Tehsil/Sub-Tehsil (*)                                                                                                                       |
|---------|------------------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| (1)     | (2)              | (3)                       | (4)                                                                                                                                                      |
| (i)     | Chamba           | 06                        | Churah, Bharmour, Dalhousie, Bhatiyat, Sihunta and Chamba                                                                                                |
| (ii)    | Kangra           | 15                        | Kasba-Kotla, Jaswan, Dehra-Gopipur, Khundiyan, Jaisinghpur, Baijnath, Dharamshala, Shahpur, Nurpur, Indora, Fatehpur, Jawali, Kangra, Palampur and Baroh |
| (iii)   | Bilaspur         | 06                        | Jhandutta, Bharati*, Ghumarwin, Nainadevi, Bilaspur Sadar and Namhol                                                                                     |
| (iv)    | Una              | 05                        | Bharwain, Amb, Una, Haroli and Bangana                                                                                                                   |

|        |          |    |                                                                                                                                                                            |
|--------|----------|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (v)    | Shimla   | 16 | Sunni, Theog, Kotkhai, Kumarsain, Chopal, Rohroo, Jubbal, Chirgaon, Kupvi*, Nankhari*, Tikkar* Junga*, Shimla Rural, Rampur, Nerwa and Shimla Municipal Corporation limits |
| (vi)   | Sirmour  | 10 | Paonta Sahib, Dadahu*, Panjhota*, Nohra*, Pachhad, Rajgarh, Renuka, Shillai, Kamrau, Nahan Municipal Committee Area                                                        |
| (vii)  | Solan    | 08 | Arki, Kandaghat, Ramshahar*, Krishangarh*, Nalagarh, Kasauli, Solan and Darlaghat                                                                                          |
| (viii) | Mandi    | 10 | Mandi, Chachiot, Thunag, Karsog, Jogindernagar, Padhar, Ladbhadol, Sarkaghat, Dharampur* and Sundarnagar                                                                   |
| (ix)   | Kullu    | 06 | Nirmand, Banjar, Anni, Manali, Kullu and Sainj                                                                                                                             |
| (x)    | Hamirpur | 06 | Hamirpur, Bhoranj, Nadaun, Sujanpur, Badsar and Bijhari                                                                                                                    |
| (xi)   | Kinnaur  | 05 | Nichar, Pooh, Kalpa, Sangla and Moorang                                                                                                                                    |

2. The inclusion of Rhesus Macaque (*Macaca mulatta*) in Schedule V shall not be applicable in the forest areas of the State of Himachal Pradesh.

[F. No. 1-26/2015- WL-I (pt)]

SANJAY KUMAR, Addl. Director General of Forests (WL)

Endst. No. WLM/Monkey Vermin/ 989-543 dated/ 23/5/2015

Copy alongwith its enclosure is forwarded to all CCFs/CFs/DFOs (Territorial & Wildlife) in HP for information and necessary action. They are requested to ensure circulation of the above notification at Panchayat level to ensure implementation of this notification.

Encl: As above

Pr. Chief Conservator of Forests (WL),  
and Chief Wildlife Warden, Shimla, HP

**COPIES OF NOTIFICATION.**

**NO. 57 I June ,1986**

No. 282 Notification-His Honor the Lieutenant Governor of the Punjab is please in accordance with section 28 of Act VII of 1878 (Indian Forest Act) to declare provisions of Chapter IV of that Act Applicable to all forests and waste land in Kullu Sub Division of the Khangra DIrict ( exclusive of Waziri Rupi) which is recorded in the revenue settlement papers as the property of Government except such areas as have been declared Reserved Forest by Notification No. 2298 dated 12<sup>th</sup> May,1894 and protected forest by Notification No. 280 and 281 dated I June 1986 and also the all forest and waste land in the Waziri Rupi jagir on which the trees have been recorded in the revenue Settlement papers belong to Government except such areas as have been declared Reserved Forests. By Notification Nos 280 and 281 dated the I June, 1896.

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**No.59**

No. 284- Notification—His honor the Lieutenant Governor of the Punjab is pleased in accordance with Section 29 ( c ) of Act VII of 1878, the Indian Forest Act , to prohibit , from the date of this Notification , the burning of lime and Charcoal with in the areas declared prohibited by Notification No. 280 dated I June 1896 without the special permission in writing of the Forest Officer and also to prohibit from the same date the breaking up or the clearing for cultivation or for ant land within the areas aforementioned.

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**No.60**

No. 285:- Notification—His honor the Lieutenant Governor of the Punjab id pleased in accordance with section 29 (c) of Act VII of 1878, the Indian Forest Act, to prohibit, from the date of this Notification, the breaking up or the clearing for cultivation or for any other purpose of any land within areas declared Protected forest by Notification No. 281 dated I June 1896, except with the special permission in writing of the Asslant Commissioner.

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**The 1 June 1896**

**No.62**

No. 287—Notification – The Hon'ble the Lieutenant Governor of the Punjab is pleased to make the following rule under the provisions of section 75 ( c ) of Act VII OF 1878 , ( THE Indian Forest Act ), for the preservation of areas in the Kullu Sub-Division of the Kangra District , declared in the Revenue Settlement records to belong to the Government , but growing on lands belonging to private persons:-

**RULES**

1. Trees on lands recorded as under cultivation at the last re-assessment of the land revenue are, with the exception of deodar, at the absolute disposal of the proprietors of such lands.

2. Deodar trees on lands described in Rule; may be lopped without permission of the heights necessary to allow the crops to ripen, and fallen deodar trees on such lands may removed without permission.

3. Deodar trees on lands described in Rule' may not be cut without the permission of the Negi of the Kothi, who shall give such permission to the owner of the land without payment if he is satisfied that the trees are required for applicant's own bonofide use, or that it is necessary to cut them to allow the owner to cultivate.

4. Trees on land other than Government forest not recorded as under cultivation at the last re-assessment of the land revenue are, with the exception of the trees mentioned in rules 5, at the absolute disposal of the owners of such lands.

5. Trees of the following kinds, viz:-

- |              |                |              |
|--------------|----------------|--------------|
| 1. Deodar    | 8. Chil        | 15. Horse    |
| Chestnut     |                |              |
| 2. Box       | 9. Spruce      | 16. Celtis   |
| 3. Walnut    | 10. Silver Fir | 17. Mulberry |
| 4. Ash       | 11. Yew        | 18. Hill tun |
| 5. Elm       | 12. Cypress    | 19. Kakran   |
| 6. Alders    | 13. Shisham    | 20. Poplar   |
| 7. Blue pine | 14. Olive      |              |

On lands described in Rule 4 may not be cut without the permission of the Negi of the Kothi who shall give such permission of the owner of the land without payment if he is satisfied that the trees are required for the applicant's own bonafide use or that it is necessary to cut them to allow the owner to cultivate.

6. The trees mentioned in the foregoing rules shall not be cut lopped or removed by or on behalf of the Government or any person except as provided by those rules.

7. Deodar trees cut under Rules 3 and 5 may not be sold bartered or alienated.

8. Whenever a Negi gives permission to cut trees under Rules 3 and 5 he shall cause a record of such permission and the purpose for which it was given to be made by the Patwari of the Kothi.

9. (i) Nothing in Rules 5 and 6 shall apply to trees of the twenty kinds above mentioned standing on land which has been brought under cultivation with the permission of the Assistant Commissioner of Kullu given after the last re-assessment of the land revenue.



(a) Such trees shall continue the property of Government unless the contrary is recorded in the permission given to break up the lands, and may not be cut, barked, or removed without the permission of the Assistant Commissioner or Forest Officer.

10. Trees which under rules 5 and 9 may not be cut without permission may be lopped without permission to the height necessary to allow the crops to ripen, and fallen trees may be removed without permission.

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**No. 64**                      **No.325 THOWSON, Esquire Revenue Secretary to Government Punjab**

To-The Secretary to the Government of India,

Revenue and Agriculture Department.

**IN CONTINUATION OF MY LETTER NO. 306 DATED THE 25<sup>th</sup> JUNE 1890**

I am directed to forward copies of the general conditions for the three classes of Forest gazetted in Punjab Government Notifications

Nos 280-282 dated the 1 June 1896 and to express regret that they were not sent

With the other enclosures.

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**No.65**                      General Condition for I class Protected Forests in Kullu Sub Division.

1. This record has been prepared for the purpose of section 28 of the Indian Forest Act, 1878, and is applicable to the areas which have been declared protected forests by the notification mentioned in the margin.
2. In this record, unless there is something repugnant in the subject of context. "Trees" and Timber have the same meaning as in the Forest Act except that it does not include elephants, Camels, buffaloes or pigs.
3. The soil and all produce of these forests belong to the Government subject to the recorded rights of users.
4. The rights of users of rights holders are appendant to cultivated land, assessed to revenue including cultivated land recorded in the last assessment of revenue as waste belonging to private persons upon which though liable to assessment no revenue was charged in the internal distribution (bath) and also land brought under cultivation since last assessment of the revenue with permission of the Assistant Commissioner and they are acquired and alienated only with such land. They are only exercised for the bonafide Agriculture and domestic purposes of the right holders and only in behalf of their own cattle, and not for the supply of tea or other industries, nor for purely pastoral as distinguished from agricultural purposes.
5. No forest produce acquired by right holders in the exercise of those rights of user, except bamboos, fruits and medicinal roots and leaves, honey and grass is sold or bartered or applied for any but the purpose for it was acquired.

6. Trees for building purpose are not given when the right holders applying purposes are not given when the right holders applying for them has already got a suitable building in a reasonably convenient locality and of size sufficient for requirement of a bonafide native agriculturI holding the land to which the right appertains

7. When trees have been given for building purposes, the buildings have been constructed within the limits of the Kothi where the cultivated land on account of which the trees given is situated.

**No. 66** General conditions for II class Protected Forests in the Kullu Sub Division.

1. This record has been prepared for the purposes of Section 28 of the Indian Forest Act,1878, and for is applicable to the areas which have been declared protected forests by the notification mentioned in the margin.

2. In this record unless there is something repugnant in this subject or context:-

“Trees” and “Timber” have the same meaning as in the Forest Act.

“Cattle” has the same meaning as in the Forest Act, except that it does not include Elephants, camels, buffaloes or pigs.

3. The soil and all the forests produce of these forests belongs to Government subject to the recorded rights of users.

4. The rights of users of the right holders are appendant to cultivated land, assessed to revenue, including cultivated land recorded at the last assessment of the Revenue as waste belonging to private persons upon which, through liable to assessment, no revenue was charged in the internal dItribution ( bach ) and also land brought under cultivation since last assessment of the revenue with the permission of the AssIant Commissioner, and they are acquired and alienated only with such land.

They are exercised only for the bonafide agricultural and domestic purpose of the right holders and only in behalf of their own cattle and not for the supply of tea or other industries, not for purely pastoral as dItinguished from agricultural purposes.

5. No forest produce acquired by right holders in exercised of these rights of users, except bamboos,fruits,flowers,medicinal roots and leaves, honey and grass, is said to bartered, or applied to any but the purpose for which it was acquired.

6. Trees for building purpose are not given when the right holders apply for them has already got a suitable building in a reasonably convenient locality and of size sufficient for the requirement of bonafide native agriculturI holding the land to which the rights appended.

7. When trees have been given to building purposes the buildings have been constructed within the limits of the Cath. Where the cultivated land on account of which the trees are given is situated.

8. Green Deodar trees are not cut in the close vicinity of any temple or of any building connected with any temple. Dry deodar trees standing in the close vicinity of any temple or of any building connected with any temple are cut and removed for the repairs of the temple building.

9. Whenever a limit in time has not been imposed on the exercise of any right it does not of necessity follow that the right in reality exercised every day and always all the year round , but impales that the period during which the right is exercised depend on circumstances so various and changing that it is impossible sto fix them.

10. All rights admitted are subject to the limitation that they may not be exercised to an extent that may endanger the exlence of forest over which the rights are admitted. If the exercised of those rights, and in that case the extent of the rights of the right holders inter shall be proportionate to the revenue assessed or that might be assessed in respect of the land to which the right is appendant.

11. The following are the rights for the exercise of which in Un-demarcated forests provision is made in the record:-

1) To graze cattle.

2) To take timber and trees.

a) For agricultural implements and domestic utensil.

- b) For the construction and repair of dwelling houses, cattle and grass sheds and other agricultural buildings and also for grain boxes and irrigation channels.
- c) For the construction & repair of temples and of dwelling attached to temples.
- d) For the ark of the deltas and other such purpose.
- e) For the baler and the cremation of the dead.
- f) For fuel and for charcoal for smithy purposes.
- g) For tanning and such like purpose.
- 3) To take the following articles of forests produce:-
  - a) Grass of all kinds for fodder, thatching, rope-making, and other domestic and agricultural purposes.
  - b) Flowers, ferns , plants for medicinal, domestic and agricultural purposes.
  - c) Brushwood for fencing and other purposes.
  - d) Branches of trees for fodder, manure, hedges, charcoal and ropes.
  - e) Fallen leaves for manure.
  - f) Leaves and bark of certain trees and shrubs for tanning and incense, rope making, medicinal and other purposes.
  - g) Dry wood for fuel torches and other purposes.
  - h) Fruits and roots for food, washing, dying, medicinal and other such purposes.
  - i) Stumps of trees for torches and manufacture of oil.
  - j) Bamboos for baskets making and other purposes.
  - k) Stones, states , earth , clay and lime stone for building , plastering for the manufacture of earthen vessels , mile stones and other purposes.
  - l) Wild honey.
12. Proprietors of cultivated land in the Kullu Sub Division assessed to revenue and their agricultural tenants may exercise over the timber and trees of the I class in undemarcated forests situated in Kothies other than that in which their land is situated only such rights are have admitted to them in the detailed record of rights for each Kothi.
13. For the rest they may exercise in any under marketed forest to which they are all of now entitled, provided that such rights shall be exercised subject to the limitations laid down in this record. For the purposes of this record trees are divided in to two classes:-
 

|                                                                                                                                                               |                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| I Class                                                                                                                                                       | 2 <sup>nd</sup> Class |
| Deodar,Kail, Chil , Rai ,Tosh ,Cypress,Walnut<br>Box , Elm , Ash , Alder , Yew ,Shisham , Olive ,<br>Horse chestnut , Kirk , Mulberry , Darl , Kakara, Phals. | All other trees.      |
14. In the exercise of the rights detailed in paragraph 11 all second class are lopped , barked , cut and removed , whether dry of green , standing or fallen.
15. The following rights are exercised in respect of the I class trees.
  - 1) They are cut and removed whether dry or green , standing or fallen , for the following purposes:-
    - a) Agricultural and domestic implements and utensils.
    - b) Building purposes, grain boxes, irrigation channels.
    - c) Constructions and repair of temples.
    - d) Ark of deotas.
    - e) Biers and cremation of the dead.
  - 2) Except deodar, fallen trees and dry standling trees of the I class are cut and removed for fuel and charcoal as well as for the purposes detailed in (1) and the stumps of deodar are also taken.
  - 3) Green Rai , Tosh , Chil are cut and removed for the biers and for cremation of the dead.
  - 4) A branch of a yew suitable for the Baster deo (house hold goods) is cut and removed for the construction of new dwelling house.
  - 5) The following trees are lopped for fodder and other purposes:-

- 6) Kail , Chil , Rai , Tosh are lopped for charcoal, but not to the top.
- 7) In Kullu proper Rai and Tosh in Waziri Rupi, Inner Seraj and Outer Seraj Kail , Chil , Rai and Tosh are lopped for manure, but not to the top.
- 8) In Outer Seraj, where other suitable trees cannot be found Kail and Rai suitable for the sanj and shamai of the plough are cut and removed.
16. In Inner and Outer Seraj the proprietors of cultivated land assessed to revenue set nets, traps and shares for the capture of hawks and Muskdeers in the forest of their Kothis.
17. The rights of the Jagirdar of Ropi as such in these forest have been separately recorded and preceding paragraph do not apply of them.
18. Timber lying within the highest water level of the large streams mentioned below has not been removed except small pieces which one man can carry.

**NO.67** Record of rights and general condition for the un-demarcated forests of the Kullu Sub Division.

1. This record has been prepared for the purpose of section 28 of the Indian Forest Act, 1878 and is applicable to the areas which have been declared protected forests by the notification mentioned in the margin.
2. In this record unless there is something repugnant in subject or context.  
“Trees and Timber” have been the same meaning as in the Forest Act.  
“Cattle” has the same meaning as in the Forest Act except that it does not include elephants, camel, buffaloes or pigs.
3. In Kullu proper Inner and Outer Seraj the soil all the produce of these forests belong to the government, subject to the recorded rights of users.
4. The rights of user of right holders are appendant to cultivated land , assessed to revenue including cultivated land recorded in the last assessment of the revenue as waste belonging to private persons upon which through liable to assessment, no revenue was charged in the internal distribution ( 9 Bach ) and also land brought under cultivation since last assessment of the revenue with the permission of the Assistant Commissioner , and they are acquired and alienated only with such land.  
They are exercised only for bonafide agricultural and domestic purpose of the right holders and only in the behalf of their own catgut, and not for the supply to tea or other industries, not for purely pastoral as distinguished from agricultural purposes.
5. No forest produce acquired by right holders of these right of user , except bamboos , fruits flowers , medicinal roots and leaves , honey and grasses , sold , bartered or applied to any but the purpose for what it was acquired.
6. Trees for building purposes are not given when the right holder applying for them has already got a suitable building in a reasonably convenient locality and of size sufficient for requirement of a bonafide native agriculture holding the land to which the right appertains.
7. When trees have been given for building purposes, the building have been constructed within the limits of the limits of Kothi where the cultivated land on account of which the trees are given is situated.
8. Green deodar tree sare not cut in the close vicinity of any temple or of any building connected with any temple. Dry deodar trees standing in the close vicinity of any temple or of any building connected with any temple are cut and removed for the repairs of the temple building.
9. Wherever a limit in time has not been imposed on the exercise of any right, it does not of necessary follow that the right in reality is exercised every day and always all the year round, but it implies that the period during which the right is exercised depend on the circumstances so various and changing that it is impossible to them.
10. All rights admitted are subject to the limitation that they may not be exercised to an extent that may endanger the exlence of the forest over which the rights are admitted. If the exercise of rights as admitted would endanger the exlence of forest, a limitation must be placed on the rights of the

- right holders inter shall be proportionate the revenue assessed or that might assessed in respect of land to which the right appendant.
11. The proprier of the land and also their agriculturaltenants exercise the rights declared in the detailed record of each forest to be appendant to their land , subject to the conditions and limitations prescribed , tenantsat will get trees for building purpose only through the proprietors of their lands.
  12. Where ever in the detailed record of right the right to minor forest produce is admitted , it means a right to remove for any agricultural or domestic purpose the following articles of forest produce , viz :-
    - 1) Grass baran , Kadari , Jarain , churwachi , sheroli and such like forest produce.
    - 2) Jagri , gugal , elkbir , partis and such like roots.
    - 3) Chestnut , Walnut , banaksha and other flowers , fruits and medicinal plants and leaves.
    - 4) Wild honey.
    - 5) The various kind of bamboos.
  13. Where ever the right to lop , bark , cut and remove inferior trees or to cut and remove the fallen trees and dry standing trees is admitted in the detailed record of rights it means a right to do these acts for the following agricultural and domestic purposes.
    - 1) Fuel, charcoal.
    - 2) Fences.
    - 3) Agricultural and domestic implements.
    - 4) Building purposes.
    - 5) Fodder.
    - 6) Cremation purpose.
    - 7) Manure.
    - 8) Incense and other such uses.
    - 9) Tanning, rope making and oil making.
  14. Wherever in the detail record of rights a right to timber is admitted , it means a right to timber and trees for the following purposes:-
    - 1) For the construction and repair of dwelling houses, cattle and grass sheds and other agriculture buildings.
    - 2) For the construction and repair of temple and buildings attached to temples.
    - 3) For the Ark of Deotas and other such purposes.
    - 4) For gain boxes, irrigation channels, agricultural and domestic implements and other such purposes.
  15. Where ever a right of record, roads and paths are used by cattle unless the contrary is stated.
  16. In Inner and Outer Seraj , the proprietors of the cultivated land assessed to revenue set nets , traps and snares for capture of hawks and musk deer in the forest of their Kothi.
  17. The right of the Jagirdar of Rupri waziri as such in these forests have been separately recorded and the preceding paragraphs do not apply to him
  18. Timber lying within the highest water level of the large streams mentioned below has not been removed except small pieces which one man can carry:-
    - 1) Beas below Kolong Bridge.
    - 2) Solang gahr , below Solang hamlet.
    - 3) Alaini Nal , below Monali Nagar road.
    - 4) Fojlati Nal , below Kukri hamlet.
    - 5) Sarvari Nal ,below Gramng hamlet.
    - 6) Parbati River , below Phulag hemlet.
    - 7) Grahani Nal, below its junction with the Garth Nal.
    - 8) Shat Nal , below its junction with Dohara Nal.
    - 9) Hurla Nal , below its junction with Manihar Nal.
    - 10) Jiva Nal, below the Gbhatip Dhar.
    - 11) Sainj river below the humkani forest.

- 12) Tirthan River , below the Rolla forest.
- 13) Palhachan Nal , below the Bungdhar forest.
- 14) Kulwari Nal , below the Kulwari hamlet.
- 15) Juphara Gad , below the Kajlahr forest.
- 16) Bahu Gad , below the Ghaner Kalaun forest.
- 17) Bisua Gad , below the Shaad hamlet.
- 18) Kurpan Gad , below the Shilli- girchi forest.
- 19) Mohali Gad , below the Brati – forest.
- 20) Satluj River , the whole right bank on the boarder of the Kullu Sub-Division.

### **GEZETTE NOTIFICATIONS.**

**The 6<sup>th</sup> November, 1896.**

#### **No.2**

No. 505 – Notification – in continuation of Punjab Government Notification No. 408 dated 26<sup>th</sup> August, 1896. His Honor the Lieutenant Governor is pleased, in accordance with June , 1896 by Notification No. 282 dated 1 June, 1896 to be reserved trees from the date of this notification.

#### **No.3**

The 7<sup>th</sup> November, 1896.

No.-507-Notification –The following Rules apply to the areas declared protected forests under Chapter IV of Act VII of 1878 Indian Forest Act, by Notification No. 280 dated 1 June, 1896 by Notification No. 282 dated 1 June, 1896 and are issued under section 31 of that Act with the sanction of the Governor General in Council.

2. Except where the contrary is stated, the rules apply to the protected forests of all classes.

3. In these rules unless there is something repugnant in the subject or context.  
“Record of right” means the record prepared in accordance with section 28 of the Indian Forest Act.

“Right holders” mean a person to whom a right has been admitted in the record of right of any forest.

“Trees” and “Timber” have the same meanings as in the Indian Forest Act.

“Cattle” includes horses, mares, rams, ponies, colts’ fillies, mules, asses’ ewes, sheep, lambs, goat and kids but does not include elephants, camels, buffaloes and pigs.

“Land assessed to revenue” includes land recorded in the Land Revenue Record as belonging to private persons and liable to assessment, though no revenue was charged upon it in internal distribution (Bach) of the last assessment and also land brought under cultivation since last assessment of the revenue with the permission of the Assistant Commissioner.

4. The local Government may at any time in exercise of the powers conferred and to the manner prescribed by Chapter II of the Indian Forest Act (VII of 1878) apply to these areas or to any of them the provision of the said Chapter and so remove them from the operation of these rules.

5. 1) The grazing of buffaloes is prohibited except with the permission of the Forest Officer.

2) The Forest Officers may give permission to the proprietors of cultivated land in the Kullu Sub Division assessed to revenue and to their agricultural tenants to graze buffaloes kept for their agricultural or domestic purposes in Un-demarcated forests where there is no risk of damage to tree growth

Provided that permission shall not be given if the right holders in the forests show reasonable and sufficient cause to the contrary.

6. The grazing in the I class and 2<sup>nd</sup> class protected forests is prohibited except by right holders in the exercise of admitted right in record of rights.

Provided that nothing in this rule shall prevent right holders from grazing any number of cows, bullocks and calves belonging to themselves and a number of sheep and goats belonging not more than 30% in excess of number they passed at the last assessment of the revenue.

7. 1) Except as provided in rule 23, no person other than proprietors of cultivated land in the Kullu Sub Division assessed to revenue and their agricultural tenants shall graze cattle in the Un-demarcated forests.

2) No such proprietors or tenant shall grazed in any Un-demarcated forest any cattle except cattle kept by them for their own domestic or agricultural ( not including pastoral) purposes.

Provided that nothing in this rule shall prevent any such proprietors or tenant from grazing any number of cows , bullocks and calves belonging to himself and number of sheep and goats belonging to himself not more that 30 % in excess of the number passed at the time of first assessment of revenue.

8. 1) Nothing in the last two preceding rule shall prevent Gaddi Shepherds on their way through Kullu from grazing their flocks in these II class demarcated and Un-demarcated forests through which they have a right of way from 15<sup>th</sup> Jaith to the end of Har and from 15<sup>th</sup> Bhadoon to 20<sup>th</sup> Assauj or for such longer periods as the periods as the Assiant Commissioner may fix.

2) Without the permission of the Assiant Commissioner in writing, Gaddi shepherds may not halt their flocks in protected forests for more than one night at any single halting place and halting places shall be at least five miles apart.

9. The removal of fallen leaves from I and 2<sup>nd</sup> class demarcated forests is prohibited except by right holders in the exercise of a right admitted in the record of rights.

10. The lopping cutting, barking, ringing and removal of forbidden except by the right holders in the exercise of a recorded right and subject to the provision of Rules 12,13.

11. 1) Except as provided in Rule 23 , no person other than proprietor of cultivated land in the Kullu Sub Division assessed to revenue and the heir agricultural tenants shall lop , cut , bark ,ring or remove timber or trees in any demarcated forests.

2) No such proprietors or tenants shall lop, cut, bark, ring or remove any timber of trees reserved by Notification No. 408 dated 26<sup>th</sup> August, 1896 and No. 505 dated 6<sup>th</sup> November 1896 ub ab Un-demarcated forest situated in a Kothi other than that in which his land is situated in the exercise of a right admitted to him in the detailed record for each Kothi.

3) No such proprietor or tenant shall lop, cut bark, ring or remove any timber or trees in an undemarcated forest except for his own domestic or agricultural (not including pastoral) purposes nor shall do so for any such purposes unless it falls under one or the heading in paragraph 11 of the Record of Rights and General conditions for the Un-demarcated forests of the Kullu Sub Division.

12. 1) Except as provided in Rule 13 timber and trees of the kinds reserved by Notification No. 408 dated 26<sup>th</sup> August, 1896 and by Notification No. 505 dated 6<sup>th</sup> November,1896 viz-

#### Superior Reserved Trees

1. Deodar
2. Box
3. Walnut
4. Ash
5. Alder
6. Blue Pine
7. Chil

#### Inferior Reserved Trees

11. Olive
12. Elm
13. Yew
14. Cypress
15. Horse chestnut
16. Celtus
17. Mulberry



8. Spruce
9. Silver Fir
10. Shisham

18. Hill Tun
19. Kakran
20. Poplar

May not be cut lopped, barked or removed without the permit of Asslant Commissioner of the Forest Officer.

2) In cases where revenue has been assessed on the right to timber under the land revenue assessment, no permit shall be granted until such revenue has been paid.

3) Permit shall be held to have been lapsed if the trees are not cut , lopped , barked or removed within the period fixed to the permits.

13. No permit is necessary for doing any of the acts next herein after mentioned, but nothing in this rule shall confer upon any person any right not recorded in the record of rights as enjoyed by him.

The acts referred to are as follows:-

- 1) The cutting and removal of stumps of any kind, and of felled timber except deodar, walnut, box and ash.
- 2) The cutting and removal of:-
  - a) Any dry standing trees (not being deodar, walnut, box and ash) in 2<sup>nd</sup> class demarcated and Un-demarcated forests.
  - b) Any dry standing trees ( not being deodar, walnut , box and ash ) in I class demarcated forest which has been specially marked by the Forest Officer , provided that unless and until a sufficient number of trees are so marked may be cut and removed under the permit of the Negi of the Kothi in which the forest is situated. The Asslant Commissioner shall determine when a sufficient number of trees have been marked and the authority of the Negi to give permits shall then cease. Nothing in clauses 1& 2) shall be deemed to allow the cutting and removal without a permit of any timber or dry standing trees from any forest which has burned.3.
3. The cutting and removal of any inferior reserved trees which has been specially marked by the Forest Officer.
4. The lopped for fodder, manure, charcoal or other purpose of any inferior reserved tree.
5. The lopping for charcoal of Kail (where the rights has been admitted in the Record of Rights),or of Rai , Tosh or Chil up to one third of its height in Kullu proper and Waziri Rupi , to one half in inner Seraj and two third in Outer Seraj.  
This clause applies only two haths in girth at three haths from the ground in Kullu proper and Waziri Rupi , and more than one hath in girth at three haths from the ground in Inner Seraj and Outer Seraj.
6. a) The lopping for manure in I class demarcated forests ( where the rights has been recorded ) any superior reserved trees except deodar , walnut , box and ash with such period of periods , not being in the aggregate more than four months or less than two months in each year and at such times as the Deputy Commissioner shall fix upon the report of Asslant Commissioner and Forest Officer.  
 b)The lopping for manure in II class demarcated forests and in Un-demarcated forest of any superior reserved tree except deodar, walnut , box and ash.  
 This clause is subject to the same conditions as to the girth of the trees and height to which it may be lopped as imposed in clause-5.
7. The cutting and removal for one branch of a yew suitable for the Bastar Deo (house Hold God) on the construction of a new dwelling.
8. The cutting and removal for biers of two Rai poles not more than a hath in girth in girth at breast height or when Rai trees are not readily accessible , of two poles of the same dimension of any kind of trees except deodar , walnut , box and ash. But kai trees may be cut removal from I class demarcated forests only when a right has



been admitted in the Record of Rights and alder may be cut and removal from any forest only when a right there to has been recorded or when alder trees have been specially marked for the purpose by the Forest Officer.

Notice of all such cutting must be given to the Rakhas or other forest official within ten days.

9. The cutting and removal for cremation purpose of two Kail not exceeding two haths in girth at breast height or where Kail are not easily procurable of Deo trees of the same dimension of any kind except alder ( unless specially marked for the purpose by the Forest Officer) deodar , walnut , box and ash.

10. The cutting and removal for making agricultural implements' and domestic utensils of any tree or not more hath in girth at breast height of any kind except deodar , walnut, box , ash and kail.

Kail trees also may be cut and removed where a right has been admitted in the record but such trees cut for sanj of the plough may not be more than one hath and for the shamain not more than two hath in girth at breast height.

Notice of all such cutting must be given to the rakhas or other forest officials within ten days.

11. Trees granted by the Asslant Commissioner of Forest Officer may not be cut or removed until marked by a Forest Officer.

Provided that unless and until a sufficient number of tree have been marked in a forest by the Forest Officer, the Negi of Kothi in which the forest named in the permit is situated may on presentation of the permit marked the trees of the kind and size and to the number entered in it.

The Asslant Commissioner shall determine when a sufficient number of trees have been marked and the authority of the Negi to mark trees shall then cease.

12. Trees shall be marked in a forest in which the applicant for a permit has a right of trees.

Provided that when the Deputy Commissioner has decided in the report of the Forest Officer that in the state of that forest the cutting of trees there would end to its destruction the trees granted shall in that case be marked in another forest which shall be as conveniently situated for the purpose of the applicant as the which shall be as conservancy and the requirement of the right holder will admit.

13. Not standing with in two yards of any public road may be cut except with the permission of the Asslant Commissioner.
14. Deodar trees will be given only for irrigation channels for the construction and repair of temple buildings and for the doors and windows of dwelling houses.
15. 1) Green deodar trees shall not be cut within ten years of any temple or any buildings connected with any temple.
16. Dry deodar trees standing within the space above defined may be cut and removed only for the repair of the temple buildings.
17. Where trees have been given for building purposes, the building shall be constructed within the limits of Kothi where the cultivated land on account of which the trees given is situated.
18. The Deputy Commissioner is empowered to arrange with right holders in any forest the quantity of timber per annum to be granted to them for building purposes and the quantity thus fixed shall be dIributed among the right holders by the Negi or in such other way as may have been agreed upon.
19. When the house of a right holder has been destroyed or broken down by snow or otherwise or when, for other sufficient reason, timber is required , the Asslant Commissioner or Forest Officer shall atone pass orders on the application for a permit without regard to any time that may be fixed for granting permits.

20. No forest produce acquired under these rules or by right holders on the exercise of right may be sold or bartered or applied to any but the purpose for which it was acquired. Provided that nothing in this rule shall prevent the sale of bamboos , fruits , flowers , medicinal roots and leaves , honey , grass , fire wood , torches , charcoal, lime , slates and plastering earth.
21. Non agricultural residents and travelers and traders passing through Kullu may , if the right holders do not object , graze their own cattle , collect dry fallen wood ( not being deodar , walnut , box and ash) and cut grass in the un demarcated forest of the Kothi in which they reside or through which they are passing , but these licenses may be exercised only for their own domestic requirements , while bonafide travelling in Kullu , and in case of abuse may be withdrawn by the Govt.
22. No grass land may be burned without the permission of the AssIant Commissioner of Forest Officer.
23. In the undemarcated forests, no land may be broken up or cleared for cultivation or for any other purposes without the permission of AssIant Commissioner.
24. Now quarries may not be opened without the permission of the AssIant Commissioner of Forest Officers.
25. The felling and removal of trees, timber and other forest produce for trade, and the granting of licenses to fell and remove trees, timber, or other forest produce for trade, and the payment to be made in respect thereof, shall be at the discretion of the Forest Officer, acting under the control of the Deputy Commissioner.  
The Forest Officer shall not fell or remove trees , timber , or other forest produce , not grant licenses for their removal to an extent that will interfere with due supply of the right holders.
26. Nets, traps and snares may not be set in Waziri Rupi , without the permission of Rai of Rupi and in the rest of Kullu Sub Division without a permit from the AssIant Commissioner.
27. In the exercise of the rights as admitted in any forest would endanger the exlence of the forest, the Forest Officer, with the sanction of the Deputy Commissioner may define by number or otherwise the aggregate extent to which the rights can safely be exercised over the forest, and the extent to which each right holders in accordance with paragraph of the Record of Rights entitled to exercise his rights.

IN THE SUPREME COURT OF INDIA  
CIVIL ORIGINAL JURISDICTION

WRIT PETITION (CIVIL) NO. 202 OF 1995

T.N.GODAVARMAN Thirumulkpad  
...Petitioner.

Versus

Union of India & Ors.  
...Respondents.

(With W.P. (Civil) No. 171/96)

ORDER

In view of the create significance of the points involved in these matters, relating to the protection and conservation of the forests throughout the country, it was considered necessary that the States are heard. Accordingly, notice was issued to all of them. We have heard the learned Attorney General for the Union of India, Learned counsel appearing for the States and the parties/applicants and, in Union, the learned Amicus Curiae, Sh. H. N. Salve, assisted by Servashri U. Lalit, Mahender Dass and P.K. Manohar, After hearing all the learned counsel, who have rendered very able assistance to the court, We have formed the opinion that the matters require a further in depth hearing to examine all the aspects relating to the National Forest Policy. For this purpose, several points which emerged during the course of the hearing require further study by the learned counsel and, therefore, we defer the continuation of this hearing for some time to enable the learned counsel to further study these points.

However, we are of the opinion that certain interim directions are necessary at this stage in respect of some aspects. We have heard the learned Attorney General and the other learned counsel on these aspects. It has emerged at the hearing that there is a misconception in certain quarters about the true scope of the Forest Conservation Act, 1980 (for short the 'Act') and the meaning of the word "forest" used therein. There is also a resulting misconception about the need of prior approval of the central Government, as required by Section 2 of the Act in respect of certain activities in the forest area which are more often of a commercial nature. It is necessary to clarify that position.

The Forest Conservation Act, 1980 was enacted with a view to check further deforestation which ultimately results in ecological imbalance; and therefore, the provisions made therein for the conservation of forests and for matters connected therewith, must apply to all forests irrespective of the nature of ownership or classification thereof. The word "forest" must be understood according to its dictionary meaning. This description covers all statutorily recognized forests, whether designated as reserved, protected or otherwise for the purpose of Section 2(i) of the Forest Conservation Act, 1980. The term "forest land" occurring in Section 2, will not only include "forest" as understood in the dictionary sense, but also any area recorded as forest in the Government record irrespective of the ownership. This is how it has to be understood for the purpose of Section 2 of the Act. The provisions enacted in the Forest Conservation Act, 1980 for the conservation of forests and the matters connected therewith must apply clearly to all forests so understood irrespective of the ownership or classification thereof. This aspect has been made abundantly clear in the decisions of this court in *Ambica Quarry Works and Ors versus State of Gujarat and ors* (1987 (1) SCC 213), *Rural Litigation and Entitlement Kendra Versus State of U.P.* (1989 Suppl. (1) SCC 504), and

recently in the order dated 29th November, 1996 in W.P. (C) No. 749/95 (Supreme Court Monitoring Committee Vs. Mussorie Dehradun Development Authority and ors). (1985(3) SCC 663) has, therefore to be understood in the light of these subsequent decisions We consider it necessary to reiterate this settled position emerging from the decisions of this court to dispel the doubt, if any, in the perception of any State Government or authority. This has become necessary also because of the stand taken on behalf of the State of Rajasthan, even at this late stage, relating to permissions granted for mining in such area which is clearly contrary to the decisions of this court. It is reasonable to assume that any State Government which has failed to appreciate the correct position in law so far, will forthwith correct its stance and take the necessary remedial measure without any further delay.

We further direct as:-

**1.General:**

In view of the meaning of the word “forest” in the Central Government is required for any non-forest activity within the area of any “forest”. In accordance with Section 2 of the Act, all on-going activity within any forest in any State through-out the country, without the prior approval of the Central Government, must cease forthwith. It is, therefore, clear that the running of saw mills of any kind including veneer or plywood mills, and mining of any mineral are non-forest purposes and are, therefore, not permissible without prior approval of the Central Government. Accordingly any such activity is prima facie violation of the provisions of the Forest Conservation Act, 1980. Every State Government must promptly ensure total cessation of all such activities forthwith.

2. In addition to the above in the tropical wet ever-green forests of Tirap and Changlang in the State of Arunachal Pradesh, there would be a complete ban on felling of any kind of trees in because of their practical significance to maintain ecological balance needed to preserve bio-diversity. All saw mills, veneer mills and plywood mills in Tirap and Changlang in Arunachal Pradesh and within a distance of 100 kms. From its border in Assam, should also be closed immediately. The State Governments of Arunachal Pradesh and Assam must ensure compliances of this direction.

3. The felling of trees in all forests is to remain suspended except in accordance with the working plans of the State Governments, as approved by the Central Government. In the absence of any Working plan in any particular State, such as Arunachal Pradesh, where the permit system exists, the felling under the permits can be done only by the Forests Department of the State Government or the State Forest Corporation.

4. There shall be a complete ban on the movement of cut trees and timber from any of the Seven North-Eastern States to any other State of the country either by rail, road or water-ways. The Indian Railways and the State Governments are directed to take all measure necessary to ensure strict compliance of this direction. This ban will not apply to the movement of certified timber required for defence or other Government purposes. This ban will also not affect felling in any private plantation comprising of trees planted in any area which is not a forest.

5. Each State Government should constitute within one month an Export Committee to:-

- (i) Identify areas which are “Forests” Irrespective of whether they are so notified, recognized or classified under any law, and irrespective of the ownership of the land of such forest;
- (ii) Identify areas which were earlier forests but stand degraded, denuded or cleared; and

- (iii) Identify areas covered by plantation trees belonging to the Government and those belonging to private persons.

6. Each State Government should within two months, file a report regarding:-

- (i) The number of saw mills, veneer and plywood mills actually operating within the State, with particulars of their real ownerships;
- (ii) The licensed and actual capacity of these mills for stock and sawing;
- (iii) Their proximity to the nearest forest;
- (iv) Their source of timber;

1. Each State Government should constitute within one month an Expert Committee to assess:

- (i) The sustainable capacity of the “forests of the State qua saw mills and timber based industry
- (ii) The number of existing saw mills which can safely be sustained in the State;
- (iii) The optimum distances from the forest, from that State, at which the saw mill should be located.

8. The Expert Committees so constituted should be requested to give its report within one month of being constituted.

9 Each State Government would constitute a Committee comprising of the Principal Chief Conservator of Forests and another Senior Officer to oversee the compliance of this order and file status reports.

## **II FOR THE STATE OF JAMMU AND KASHMIR:**

1. There will be no felling of trees permitted in any forests” public or private. This ban will not affect felling any private plantations comprising of trees planted by private persons or the Social Forestry Department of the State or Jammu and Kashmir and in such plantations, felling will be strictly in accordance with law.
2. In “Forests” the State Government may either departmentally or through the State Forest Corporation remove fallen trees or fell and remove diseased or dry standing timber and that only from areas other than those notified under the Jammu & Kashmir Wild life Protection Act. 1978 or any other law banning such felling or removal of trees.
3. For this purpose, the State Government will constitute an Expert Committee comprising of a representative being an IFS Officer posted in the State of Jammu & Kashmir, a representative of the State Government and two private experts of eminence and the Managing Director of the State Forest Corporation (as Member Secretary) who will fix the qualitative and quantitative norms for the felling of fallen trees, diseased and dry standing trees. The State shall ensure that the trees so felled and removed by it are strictly in accordance with these norms.
4. Any felling of trees in forest or otherwise or any clearance of land for execution of Projects shall be in strict compliance with Jammu & Kashmir Forest Conservation Act. 1990 and any other laws applying thereto. However, any trees so felled, and the disposal of such trees shall be done exclusively by the State Forest Corporation and no private agency will be permitted to deal with this aspect. This direction will also cover the submerged areas of the THEIN DAM.
5. All timber obtained as aforesaid or otherwise, shall be utilized within the state, preferably to meet the timber and fuel wood requirements of the local people, the Government and other local institutions.

6. The movement of trees or timber (sawn or otherwise) from the State shall for the present, stand suspended, except for the use of DGS & D, Railways and Defence. Any such movement for such use will-
  - a) Be affected after due certification, consignment wise made by the Managing Director of the State Corporation which will include certification that the timber has come from State Forest Corporation source; and
  - b) Be undertaken by the Corporation itself, the Jammu and Kashmir Forest Department or the receiving agency.
7. The State of Jammu and Kashmir will file preferably within one month from today, a detailed affidavit specifying the quantity of timber hold by private persons purchased from State Forest Corporation Depots for transport outside the Static (other than for consumption by the DGS & D, Railways and Defense). Further directions in this regard may be considered after the affidavit is filed.
8. No saw mill, veneer or plywood mill would be permitted to operate in this State at a distance of less than 8Kms. From the boundary of any demarcated forest areas. Any existing mill falling in this belt should be relocated forthwith.

### III. FOR THE STATE OF HIMACHAL PRADESH AND THE HILL REGIONS OF THE STATES OF UTTAR PRADESH AND WEST BENGAL:

1. There will be no felling of trees permitted in any forest, Public or private. This ban will not affect felling in any private plantation comprising of trees planted in any area which is not apply to permits granted to the right holders for their bonafide personal use in Himachal Pradesh.
2. In a 'forest' the State Government may either departmentally or through the State Forest Corporation remove standing timber from areas other than those notified under Section 18 or Section 35 of the Wild Life protection Act, 1972 or any other Act banning such felling or removal of trees.
3. For this purpose, the State Government is to constitute an Expert Committee comprising a representative from MOEF, a representative of the State Government two private experts of eminence and the MD of the State Forest Corporation (as Member Secretary) who will fix the qualitative and quantitative norms for the felling of fallen trees and diseased and standing timber. The Static shall ensure that the trees so felled and removed are in accordance with these norms.
4. Felling of trees in any forest or any clearance of forest land in execution of projects shall be in strict conformity with the Forest Conservation Act.1980 and any other laws applying thereto. Moreover, any trees so felled and the disposal of such trees shall be done exclusively by the State Forest Corporation and no private agency is to be involved in any aspect thereof

### IV. FOR THE STATE OF TAMIL NADU:-

1. There will be a complete ban on felling of trees in all 'forest area' This will, however not apply to:-
  - (a) Trees which have been planted and grown, and are not of spontaneous growth, and
  - (b) Are in areas which were not forests earlier but were cleared for any reason.
2. The State Government within four weeks from today, is to constitute a Committee for identifying all 'forests'

3. These tribals who are part of the social forestry programme in respect of patta lands, other than forests, may continue to grow and cut according to the Government Scheme provided that they grow and cut trees in accordance with the law applicable.
4. In so far as the plantations (tea, coffee, cardamom etc. are concerned, it is directed as under:-
  - a) The felling of shade trees in these plantations will be-
    - i) Limited to trees which have been planted and not these which have grown spontaneously;
    - ii) Limited to the species identified in the TANTEA report;
    - iii) In accordance with the recommendations of '(including to the extent recommended by ) TANTEA report;
    - iv) Under the supervision of the statutory committee constitute by the State Government;
  - b) In so far as the fuel trees planted by the plantations for fuel wood outside the forest area are concerned the State Government is directed to obtain within four weeks a report from TANTEA as was done in the case of shade trees, and the further action for felling them will be as per that report. Meanwhile eucalyptus and wattle trees in such area may be felled by them for their own use as permitted by the statutory committee.
  - c) The State Government is directed to ascertain and identify those areas of the plantation which are a 'forest' and are not in active use as a plantation. No felling of any trees is however to be permitted in these areas, and sub-paras (b) and (c ) above will not apply to such areas.
  - d) There will be no further expansion of the plantations in a manner so as to involves encroachment up in (by way of clearing or otherwise) of "forests"
5. As far as the trees already out prior to the interim orders of this court dated December 11, 1995 are concerned, the same may be permitted to be removed provided they were not so felled from Jammu land. The State Government would verify these trees and mark then suitably to ensure that this order is duly complied with. For the present his is being permitted as a one time measure.
6. In so far as felling of any trees in Jammu lands is concerned (whether in plantations or others), the ban on felling will operate subject to any order made in the Civil Appeal Nos.367 to 375 of 1977 in C.A. Nos.1344-45 of 1976. After the order is made in these Civil Appeals on the I. As. Pending therein, if necessary this aspect may be re-examined.
7. This order is to operate and to be implemented, notwithstanding any order at variance, made or which may be made by any Government or any authority tribunal or court, including the High Court.

The earlier order made in these matters shall be read modified wherever necessary to this extent. This order is to continue, until further order. This order will operate and be complied with by all concerned. Notwithstanding any order at variance, made or which may be made hereafter, by any authority, including the Central of any State Government or any court (including the Court) or Tribunal.

We also direct that notwithstanding the closure of any saw mills or other wood-based industry pursuant to this order the workers employed in such units will continue to this order the workers employed in such units will continues to be paid their full emoluments due and shall not be retrenched or remove from service for this reason.

We are informed that the Railway authorities are still using wooden sleepers for lying tracks. The Ministry of Railway file an affidavit giving full particulars in this regard including the extent wood consumed by them, the source of supply of wood and the steps taken by them to find alternatives to the use of wood.

I.A. Nos.7,9,10,11,12,13 and 14 in writ petition (Civil) No.202 of 1995 and I.A. Nos.1,2,3,4,5,6,7,8 & 10 in writ Petition (Civil) No. 171 of 1996 are disposed of accordingly.

LI the matter on February 25, 1997 as part-heard for further hearing.

.....

(J.S.Verma)

.....

(R.N. Kirpal)

New Delhi:  
December 12, 1996.



Government of India  
MinIry of Environment and Forests  
Northern Regional Office

Bays No. 24-25  
Dakshin Marg Sector-31-A  
Chandigarh-160030  
Dated: Monday, March 03, 2014

File No. 13-7(20)/2003-ROC  
To

The Pr. Secretary (Forests)  
Government of Himachal Pradesh,  
Department of Forests,  
Civil Secretariat, Shimla  
Himachal Pradesh.

**Sub:-           Extension of working plan for the Forests of Outer Seraj, Ani Forest Division, DIrict Kullu Himachal Pradesh.**

**Ref.           Letter No. WP Mandi/2387 dated 4<sup>th</sup> February, 2014.**  
Sir,

The proposed for extension of Working plan for the forest of Outer Seraj, Anni Forest Division (2012-13 to 2014-15) has been examined in accordance with the provisions of Forest (Conservation) Act, 1980 as amended till date, National Working plan Code, guideline issued by the Government of India MinIry of Environment and Forests, New Delhi from time to time, National Forest Policy 1988 as well as orders dated 12<sup>th</sup> December, 1988 Hon'ble Supreme Court of India in PIL WP (c) 202 of 1995 read with WP (c) of 1996.

After careful examination of the proposal for extension of the validity of Working Plan for the forests of Outer Seraj, Anni Forest Division, approval of the Central Government is hereby conveyed under Forest (Conservation) Act, 1980 for extension for a period of three years upto March 31, 2015 subject to observance of the following conditions:-

- i. All the provision of the Forest (Conservation) Act, 1980 and various Rules & Guidelines issued under the Act shall be strictly enforced;
- ii. Yield obtained from dead, dry & salvaged timber will form part of prescribed yield and in case prescribed yield has been achieved from dead & dry trees, no further felling will be carried out. Yield form dead, dry & salvaged timber must not exceed the prescribed yield in the working plan;
- iii. All the felling must commensurate with regeneration and no felling would be permitted unless funds for regeneration are available. In this regard, all orders of Hon'ble Supreme Court of India or any other courts will be strictly complied with;
- iv. Intensive protection measures against fire, biotec interferences and encroachment in forest shall be taken up;
- v. All the prescriptions prescribed in the working plan regarding plantations, protection and development of the forest areas will be strictly followed and any change in the prescriptions will be treated as deviation for which prior approval of the competent authority will be obtained;
- vi. Sufficient budgetary allocations be ensured for timely implementation of various prescriptions regarding protection, regeneration and development of the forests.

- vii. Under the proposed felling sequence for the period 2012-13 to 2014-15 under each Working Circle, the year of raising of plantations will be mentioned to ensure that felling are being undertaken on completion of rotation period;
- viii. Work of preparation of new working Plan will be taken up well in advance to ensure that new Working Plan is in place before the expiry of the extended period of this plan.

3. The Central Government reserves the right to review/modify or withdraw the approval at any point of time depending upon the management needs and any other guidelines of the MinIry of Environment and Forests, Government of India or Hon'ble Supreme Court of India. A Copy of the final document any please be submitted to this office.

Yours Faithfully

Sd//  
(Ishwar Singh)

I/c Addl. Principal Chief Conservator of Forests (Central)

Copy to :

1. The Pr. Chief Conservator of Forests, Govt. of Himachal Pradesh, Forest Department, Talland Shimla.
2. The Addl. Director General of Forests (FC), MinIry of Environment & Forests, Paryavaran Bhawan, CGO Complex, New Delhi.
3. The Chief Conservator of Forests, Working Plan & Settlement, Govt. of Himachal Pradesh, Forest Department, MI Chamber, Khalini, Shimla, HP.
4. The Divisional Forest Officer, Ani Forest Division, DIrict Kullu HP.
5. Guard File.

**Appendix -XXXVI**

**BEAT WISE GEOGRAPHICAL AREA OF ANNI FOREST DIVISION**

| Sr.No. | Circle | Division | Range  | Block   | Beat     | Geographical Area<br>in GIS (Sq. Meters) |
|--------|--------|----------|--------|---------|----------|------------------------------------------|
| 1      | Rampur | Ani      | Arsu   | Arsu    | Pali     | 7498022.8                                |
| 2      | Rampur | Ani      | Arsu   | Sarahan | Juagi    | 40775766.12                              |
| 3      | Rampur | Ani      | Arsu   | Arsu    | Buini    | 6660076.9                                |
| 4      | Rampur | Ani      | Arsu   | Arsu    | Tharvi   | 24767732.88                              |
| 5      | Rampur | Ani      | Arsu   | Sarahan | Shamani  | 12188284.02                              |
| 6      | Rampur | Ani      | Arsu   | Sarahan | Sarahan  | 22907569.02                              |
| 7      | Rampur | Ani      | Arsu   | Kharga  | Kharga   | 31134053.4                               |
| 8      | Rampur | Ani      | Arsu   | Kharga  | Tunan    | 10380824.88                              |
| 9      | Rampur | Ani      | Arsu   | Arsu    | Arsu     | 12595714.66                              |
| 10     | Rampur | Ani      | Arsu   | Kharga  | Kindla   | 19726504.36                              |
| 11     | Rampur | Ani      | Arsu   | Kharga  | Sarga    | 23274553.63                              |
| 12     | Rampur | Ani      | Arsu   | Nirmand | Brow     | 9550720.99                               |
| 13     | Rampur | Ani      | Arsu   | Nirmand | Pujarli  | 13465382.92                              |
| 14     | Rampur | Ani      | Arsu   | Nirmand | Averi    | 12117514.54                              |
| 15     | Rampur | Ani      | Arsu   | Sarahan | Tharla   | 57885085.54                              |
| 16     | Rampur | Ani      | Arsu   | Nirmand | Nirmand  | 11551475.36                              |
| 17     | Rampur | Ani      | Chowai | Takrasi | Tharvi   | 13365497.49                              |
| 18     | Rampur | Ani      | Chowai | Takrasi | Lohal    | 7806938.51                               |
| 19     | Rampur | Ani      | Chowai | Takrasi | Kuiner   | 8456798.69                               |
| 20     | Rampur | Ani      | Chowai | Khanag  | Tarala   | 16840715.5                               |
| 21     | Rampur | Ani      | Chowai | Takrasi | Karshala | 16183357.15                              |
| 22     | Rampur | Ani      | Chowai | Khanag  | Kohila   | 14230735.03                              |
| 23     | Rampur | Ani      | Chowai | Khanag  | Kot      | 23792198.19                              |
| 24     | Rampur | Ani      | Chowai | Paneo   | Bai      | 8261346.12                               |
| 25     | Rampur | Ani      | Chowai | Chowai  | Kutwa    | 9425495.18                               |
| 26     | Rampur | Ani      | Chowai | Chowai  | Chwai    | 12143185.79                              |
| 27     | Rampur | Ani      | Chowai | Chowai  | Haripur  | 14233716.48                              |
| 28     | Rampur | Ani      | Chowai | Khanag  | Namhong  | 8532556.68                               |
| 29     | Rampur | Ani      | Chowai | Paneo   | Deem     | 24097494.29                              |
| 30     | Rampur | Ani      | Chowai | Paneo   | Poeg     | 18124668.91                              |
| 31     | Rampur | Ani      | Chowai | Chowai  | Patarna  | 16650580.4                               |
| 32     | Rampur | Ani      | Chowai | Paneo   | Gad      | 13241584.75                              |
| 33     | Rampur | Ani      | Chowai | Paneo   | Karana   | 10119226.56                              |
| 34     | Rampur | Ani      | Nither | Dalash  | Dalash   | 18888395.41                              |
| 35     | Rampur | Ani      | Nither | Dalash  | Luhri    | 16073841.76                              |
| 36     | Rampur | Ani      | Nither | Dalash  | Kandagai | 6878693.48                               |
| 37     | Rampur | Ani      | Nither | Nither  | Nither   | 9739665.39                               |

|    |              |     |        |        |         |                  |
|----|--------------|-----|--------|--------|---------|------------------|
| 38 | Rampur       | Ani | Nither | Nither | Tandi   | 13280103.37      |
| 39 | Rampur       | Ani | Nither | Moin   | Ghorla  | 5934551.77       |
| 40 | Rampur       | Ani | Nither | Margi  | Ghatu   | 14499797.77      |
| 41 | Rampur       | Ani | Nither | Moin   | Koil    | 14541740         |
| 42 | Rampur       | Ani | Nither | Margi  | Nore    | 12217302.85      |
| 43 | Rampur       | Ani | Nither | Margi  | Margi   | 17062070.64      |
| 44 | Rampur       | Ani | Nither | Margi  | Katmore | 11031486.35      |
| 45 | Rampur       | Ani | Nither | Nither | Sarahar | 13203072.68      |
| 46 | Rampur       | Ani | Nither | Moin   | Moin    | 9807826.82       |
| 47 | <b>Total</b> |     |        |        |         | <b>715143926</b> |

## **RECORD OF RIGHTS**

### **GENERAL CONDITIONS FOR RESERVED FORESTS**

1. The rights contained in the Reserved Forests of Kullu proper, Inner Seraj, Outer Seraj and Rupi, with the exception of rights admitted to the Rai of Rupi, are subject to the following General Provisions:-
  - 1) All rights to forest produce or grazing are subject to such conditions as to Payment or otherwise as Government may see fit to impose at a revision of the land Revenue settlement.
  - 2) All rights are appendant to the cultivated land of the recorded right holders, and may be acquired and alienated only with such land.
  - 3) Forest produce obtained in the exercise of admitted rights may not be sold or bartered or alienated in any other way.
  - 4) A right of forest produce is extinguished when the object over which the right is exercise ceases to exI and Government is not in any way bound to take special steps to prevent the object (admitting of the exercise of the right) ceasing to exI in the ordinary course of nature, nor may the right holders take such steps.

Illustration: - A phat is being covered up with young Kelo or Kail Government is not bound to, and the right holders may not cut down the trees or in other ways endeavour to ensure the continued existence of the phat.

- 5) In case of dispute as to the number of cattle, sheep or goats that any right holder may graze or the number of trees he may cut, the number must be determined with reference to the relative amount of revenue paid by each right holder, the total for all right holders never exceeding the recorded maximum
- 6) A portion of any forest may be closed with the sanction of competent authority for such time as may be necessary and all or any of the rights admitted in the forest may be suspended in each portion for such time provided that the area open for the exercise of these rights be sufficient and in a locality reasonably convenient for the exercise the these rights.

II. The rights allowed to the Rai of Rupi in the reserved forests of Rupi are subject to the following general provision:-

- 1) Forest produce obtained in the exercise of admitted rights may not be sold or bartered or alienated in any other way.
- 2) A right to forest produce is extinguished when the object over which the right is exercoised ceased to exI, and Government is not in any way bound to take special steps to prevent the object (admitting of the exercise of the right) ceasing to exI in the ordinary course of nature, nor may the Rai take such steps.

Illustration:- If the chestnut trees in a forest all die out, Government is not bound to, and the Rai may not, plant such trees to ensure the continued exercise of the rights to take chestnuts.

- 3) A portion of any forest may be closed with the sanction of competent authority for such time as may be necessary, and all or any of the rights to forest produce admitted I the forest may be suspended in such portion for such time, provide that the area open for the exercise of these rights be sufficient and in a locality reasonably convenient for the exercise of these rights.
- 4) The rai may charge whatever consideration he thinks proper for the licenses to snare musk deer and hawks.
- 5) The Rai is responsible that the nets and snares are is reality suitable for the capture of musk deer and hawks and not interested for capture of pheasants or other game.

1. **R.1 Shilligrichi Area: 1380 acres ( 853.49 hect.)**

|                     |             |                          |
|---------------------|-------------|--------------------------|
| Name of Kothi:- Kot | Bounaries:- | North: Kurpangad         |
|                     | South:-     | Line including all trees |
|                     | East :-     | Karna Nal                |
|                     | West:-      | Bishlai dhar to Dacher   |

**Rights admitted and continued:-**

The following right sare admitted and continue in the forest:-

1. To Tindar, Jawagi and Chambarla hamlets to graze 436 sheeps and goats in the month of Assauj under Jai Dass of Tindar as Rasu in the five thaches within forest limits, viz. Jamu thsach, Girchi, Sarkocha, Boai and Okla Nal.
2. To Jawagi hamlet to ct grass in the month of Sawan and to lop mohru trees to any rights for fodder in posh.

These rights are subject to the general provisions recorded for the Outer seraj Reserved Forest.

2 **R/2 Prali Girchi Area: 1360 acres ( 766.80 hect)**

|                                                  |                                                                                    |
|--------------------------------------------------|------------------------------------------------------------------------------------|
| Name of Kothi:- Bahramgarh Boundaries :- North:- | Line from Bung Peak to Junction o the sagaor Nal and Brati Nal and along Sagao Nal |
| South:                                           | Kurpangad                                                                          |
| East: -                                          | Line from Sagao Nal to Thacru and Kumbadhar.                                       |
| West:                                            | Shamatthan Nal to Bung Peak through Dimaruathia                                    |

**Rights admitted and continue:-**

No rights admitted.

The following paths run through the forest:-

1. Along the Kurpan stream and up the Kumba thach dhar.
2. Path from Bung and Dimraua this to Nago thach.

These paths are used by sheep and goats going to he runs at the head waters of the Kurpan and Brai streams.

3. **R/3 Jujuth Area: 560 acres (256.15 hect.)**

|                                          |         |                                                               |
|------------------------------------------|---------|---------------------------------------------------------------|
| Name of Kothi:- Bahramgarh Boundaries :- | North:- | Jujuth Nal and Bishdeo Nal to Gargich gai                     |
|                                          | South:  | Brali dhar                                                    |
|                                          | East:-  | Demarcated line above cultivation of Sarahan and Jale dogries |
|                                          | West:   | Mandrao dhar                                                  |

**Rights admitted and continued:-**

The following rights are admitted in this forest of jaler hamlet:-

1. Rights to cut grass of all kinds in Sawan and Bhadon.
2. Right to cut and remove all dry fallen wood fit for fuel, with the exception of Deodar.
3. Right to lop kathi, reuns and bashil to any height in Sawan and Bhadon.
4. The following rights are admitted to the Deogras of Jaler and Sarahan:-
  - 1) Right to lop ban (oak) to any height for fodder in Phagon and Chaitr.
  - 2) Right to cut and remove all dry fallen wood fit for fuel, with the exception of Deodar during Phagon and Chaitr.
  - 3) Right to cut grass in Phagon and Chaitr.

The path from Jaler to Kara runs through the forest, and is used by cattle, sheep and goats.

These rights are subject to the general provisions recorded for the Outer Seraj Reserved Forests.

**4 R/4 Magi, Kalaun Area: 60 acres (14.97 hect.)**

|                            |             |                                                     |
|----------------------------|-------------|-----------------------------------------------------|
| Name of Kothi:- Naraingarh | Boundaries: | North: Cultivation of Shirsha                       |
|                            |             | South: Cultivation of Dharagi                       |
|                            |             | East :- Nala by cultivation of Nalog and Nala Margi |
|                            |             | West: Naigar.                                       |

Rights admitted and continued:

The following rights is allowed to the two hamlets of Dhara-Margi and Nala Margi, subject to the general provision recorded for the Outer Seraj Reserved Forests, viz. right to lop oak to any height for fodder and manure

Oak to any height for fodder and manure.

The following paths run through the forest, and are used by cattle, sheep and goats, viz:-

- 1) Margi to Shirsha
- 2) Nagot to Shirsha
- 3) Dhara-Margi to Sohanu (Open waste)
- 4) Nala Margi to Sohanu (Open waste)
- 5) Nalog to Sohanu (Open waste)

**5. R/5 Ghaner Kalaun Area: 30 areas (4.05 hect.)**

|                           |             |                              |
|---------------------------|-------------|------------------------------|
| Name of Kothi: Naraingarh | Boundaries: | North: Cultivation of Ghaner |
|                           |             | South: Cultivation of Dhar.  |
|                           |             | East: Reunsi Forest.         |
|                           |             | West: Cultivation of Ghaner. |

Right admitted and continued:

The following right of Ghaner and Dhar hamlets are allowed subject to the general provisions recorded for the Outer Seraj Reserved Forests viz:-

The right to lop ban and mohru to any height in the month of Posh and Magh.

The following paths run through the forests, and are used by cattle, sheep and goats:-

- 1) Ghaner to Dhar.
- 2) Ghaner to Ghanerwa-Pani
- 3) Dhar to Dhara Kohli-ka-Pani
- 4) Dhar to Rai-ka-Kutal and Reunsi forest.
- 5) Dhar to Ghanerwa-Pani and Graths.

**6. R/6 Jaron Kalaun Area:- 45 acres ( 13.35 hect.)**

|                        |             |                                                                  |
|------------------------|-------------|------------------------------------------------------------------|
| Name of Kothi:- Jalori | Boundaries: | North: Khara Kharshu                                             |
|                        |             | South: Cultivation of Jaron                                      |
|                        |             | East: Demarcated Land                                            |
|                        |             | West: Cultivation of Jaron and path from Jaron to Khara Kharsho. |

Rights admitted and continued:-

The following right are admitted to the hamlets of jaron and dhar

- 1) Right to cut shakair (a kind of herb used for fodder ) in Kartik.
- 2) Right to cut chalocha ( a Kind of iris used for fodder ) in Kartik

These rights are subject to general provisions recorded for the Outer Seraj Reserved Forests.

The following paths run through the forest and are used by cattle, sheep and goats:-

- (1) Dhar to Jarono
- (2) Narono to Khara Kharshu
- (3) Jarono to Ragersh (Grass land)
- (4) Dhar to Ragesh (grass land)

7 R/7 Takrasi Area:- 180 acres (118.98 hect.)

Name of Kothi:- Ragupur Boundaries:- North:- Sewa Nal, Sanchokardhar and Kao Nal

South Sawin Dhar

East:- Cultivation of Chumkari Dogri and of Har Dass, Lira Dahr, Takrasi Dhar excluding teple of Takrasi Nag and Chandi Dogri.

West:- Cultivation of Kaderna

Right admitted and continued:

1. In the past of the forest on west of the Takrasi Dhar, the following rights are allowed:-

- (1) Khalut hemlet, which is in side the forest and may continue to cultivated the bh. Pa. now held by the hamlet:-
  - (A) Right to graze 12 had of cattle and not being buffaloes, all the year round.
  - (B) Right to cut grass and herbs any time.
  - (C) Right to take all fallen wood fit for fuel except deodar, and to cut the all stumps of all tress for torches.
  - (D) Right to lop or cut kathi, pothi, reuns for fodder in Jaith, Har, Sawan and Bhadon.
  - (E) Right to lop Kail and Rai for manure in Sawan, Bhadon subject to the conditions that the trees topped are not less than a hath of girth at the three haths from the frounds and are not lpped to more than one hath their height.
  - (F) Right to cut jou for agricultural implements.
  - (G) Right to receive, on application to the Forest Officer Kail and Rai trees sufficient in number and size for the repair and construction of the four exling dwelling housed and their out houses.
  - (H) For burning the dead, Kail or Rai, one tree may be cut without permission, but notice shall atonce be given to the forest official incharge of the forest.
- (2) To Jilikultha:-
  - (A) Right to cut grass and herbs of all kinds at any time.
- (3) To Marog:-
  - (A) Right to take dry fallen wood fit for fuel except deodar, and the cut stumps of all trees for torches. The Kutumba Bai is in side the forest, and the water is used by Marog for meng, cattle etc.
    - (1) Along Takrasi of Dancho Kor ridge, used by cattle, sheep and goats.
    - (2) Khalut to Chandi Dogri used by cattle only.
    - (3) Khalut to Jilikultha used by cattle only.
    - (4) Bohal to Takrasi Nag, used by men only

II. In the part o forest on the east of the main ridge, the hamlet of Tharwa is allowed to cut chalocha in Kartik.

The following paths run through the forest:-

- (1) Takrasi Nag to chumkari, used by men only
- (2) Tharwa to chumari, used by cattle, Sheep and goats.
- (3) Chajuth to Pakrer, used by cattle, sheep and goats.
- (4) Chajuth to Mani Ram's Dogri used by the cattle, sheep and goats.
- (5) Chumkari to Pakrer, used by the cattle , sheep and goats.
- (6) Chumkari to Pokar Nali, used by cattle, sheep and goats.
- (7) Path along ridge, used by cattle, sheep and goats.

All the admitted rights are subject to the general provisions recorded for the Outer Seraj Reserved Forests.

#### GENERAL CONDITIONS APPLICABLE TO ALL I CLASS PROTECTED FORESTS

1. The soil and all produce of these forests belong to the Government, subject to the recorded rights of user.
2. The right of user are appendant to cultivated land paying revenue or of which the revenue has been assigned, and may be acquired or alienated only with such land. They may be excercised only in proportion to the are cultivate, and the revenue paid or assigned, and the Government may when ever it considers it necessary in the interest of the forest, or of other right holders, defined b numbers the extent o any of the rights which a right holders exercise. They may be excercised only for the bonafide agricultural and domestic purposes of the right



- holder and only on behalf of their own cattle, sheep and goats and not for the supply of the wants of area or other industry, or for purely pastoral as distinguished from agricultural purposes.
3. No forest produce acquired in the exercise of these right of user, except bamboos, fruits, flowers, medicinal roots and leaves, may be sold or bartered or applied to any but the purpose for which it was acquired provided that right holders may during the pleasure of Government sell firewood, torches, charcoal, grass lime, slates and plastering earth.
  4. During the currency of the present Revenue Settlement rights will be exercised without payment. At the next Revenue Settlement, Government may assess all or any of these rights to revenue in such a way as it may consider proper, and may charge a price of trees and other forest produce.
  5. Trees for building purposes will not be given when the right holder applying for them has already got a suitable building in a reasonably convenient locality and of size sufficient for his requirement. For instance, A sells half his holding to B, who applies for trees to build a house on the land purchased. A has on his land a house conveniently situated for cultivation of the land sold. B is not entitled to trees, as he brought only the right of A, who is not entitled to another house.
  6. When trees have been given for building purposes, the buildings shall be constructed within the local limits of the hamlets (graoon) where the cultivated land on account of which the TREES ARE GIVEN IS SITUATED.
  7. The proprietors of the land and also their agricultural tenants may exercise the rights admitted within the limits specified, but tenants at will get trees for building purposes only through the proprietors of their land.
  8. Deodar trees from these forests may not be claimed even on payment.
  9. Green trees may not be cut within 40 yards of any temple or of any building constructed with any temple. Dry Deodar trees standing within this area shall be supplied to the repair of the temple building, and on application to the Forest Officer will be given for that purpose.
  10. Nets, traps and snares may not be set without the permission of the Assistant commissioner, and subject to the condition he may impose, but such permission will be given in case where a right to set nets and snares for the capture of hawks and musk deer was recorded at the I Revenue Settlement.
  11. The right of user are subject to the condition that all right holders shall render every assistance in extinguishing any fire occurring in any forest within which they have rights, whether they have been called upon to do so or not, and in cases of wilful neglect, Government may order that all or any rights within specified limits be suspended for any time it consider proper.
  12. Where ever a limit in time has not been imposed in exercise of any right it does not of necessity follow that the right is in reality exercised every day and always all the year round, but it implies that the period during which the right is exercised depend on circumstances so various and changing that it is impossible to fix them.

#### **General Right**

| Sr.No. | Name of rights   | Description of rights with limitation                                                                                         |
|--------|------------------|-------------------------------------------------------------------------------------------------------------------------------|
| 1      | Grass            | Grass, baran, Kadri, Jarahn, churwachi, sheruli and such like forest produce may be given without permission.                 |
| 2      | Roots            | Jakri, gugli, eklbir, Karu, patis and such like forest produce may be taken without permission.                               |
| 3      | Fruits & Flowers | Chestnut, walnut, banafash & flowers may be taken without permission.                                                         |
| 4      | Nirgal           | The various kinds of bamboo may be taken without permission.                                                                  |
| 5      | Torches          | Torches may be cut from stumps of kelo & Kail and fallen kil of any size may be taken for this purpose without permission.    |
| 6      | Fuel             | All wood lying on the ground may be removed for fuel or making charcoal without permission, except kelo, walnut, box and ash. |

The above rights will be allowed in each I Class Protected Forests, unless the contrary is stated.

#### **Special Conditions,**

The following rights, whenever allowed in the I Class Protected Forests of Outer Sera are subject to the condition given in column -3 unless the contrary is stated.

| Sr.No. | Name of rights                                        | Conditions                                                                                                                                                                                                                                                                                                                               |
|--------|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | Fodder leaves                                         | Tress and shrubs that may in any forest be cut without permission, may also be lopped without permission leaves for fodder, for manure and for hedges.                                                                                                                                                                                   |
| 2      | Manures                                               | Tree and shrubs that may in any forest be cut lopped without permission, may also be lopped without permission for leaves for fodder, for manure, and for hedge, Kail, chil, rai and tosh may be lopped only to half height for this purpose and the trees lopped must be not less than one hath in girth at three hath from the ground. |
| 3      | Hodge                                                 | Trees and shrubs that may in any forest be cut without permission, may also be lopped without permission for leaves, for fodder, fir manure and fir hedges.                                                                                                                                                                              |
| 4      | Timber for buildings and other purposes               | With the exception of trees and shrubs for the cutting of which general permission is given, no trees may be cut without the                                                                                                                                                                                                             |
| 5      | Right of way                                          | Road and path may be used by cattle, sheep and goats.                                                                                                                                                                                                                                                                                    |
| 6      | Wood for burning the dead and agricultural implements | Where trees for which permission to cut is ordinarily required, may be cut for these purposes without pervious permission, notice must at once be given to the Forest Officer Incharge.                                                                                                                                                  |
| 7      | Charcoal                                              | Kail, Chil, Rai, tosh may be lopped to only half their height for this perpose, and the trees lopped must be not less than a hat in girth at three haths from the ground. Charcoal may not be burned within the limits of the forest.                                                                                                    |
| 8      | Slates                                                | Slates and clay for planter may be removed witout.                                                                                                                                                                                                                                                                                       |
| 9      | Clay for plaster                                      | Permission, provided damage is not done to any trees, but new quarries may be opened without the permission of the Forest Officer.                                                                                                                                                                                                       |

Note:- The word cattle does not include buffaloes, but eh word sheep-grazing includes goat grazing.

**1/1 Tikar Area: 2240 Acres ( 899.22 Hect.)**

|  | Boundaries |                                   |
|--|------------|-----------------------------------|
|  | North      | Raita Dhar                        |
|  | East       | Kajaugad                          |
|  | South      | Tkkar Dhar                        |
|  | West       | Cultivation Dhar to Tarapur Fort. |

| Sr.No. | Name of rights         | Description of rights with limitation (viz. general rights and general and special conditions.                                                                                                        |
|--------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | Grazing                | Cattle may graze.                                                                                                                                                                                     |
| 2      | Grazing                | Sheep and goat may graze.                                                                                                                                                                             |
| 3      | Fodder leaves          | Ban, Kathi, Murat may be lopped to anby heigh without permission.                                                                                                                                     |
| 4      | Manure                 | Iran, banbras may be lpped to any hight without permission.                                                                                                                                           |
| 5      | Agriculture implements | Ban may be cut for agricultural implements without permission.                                                                                                                                        |
| 6      | Building Timber        | Kai, Rai will be given on application.                                                                                                                                                                |
| 7      | Right of way           | The following paths run through the Forest.<br>(1) Tarapur Fort to Mohcka Used by man only.<br>(2) Tarapur Fort to Dogri<br>(3) Dawari to Mochka along the Kujau gad: Used by cattle sheep and goats. |

| No. | Name & having rights                                                                            | Rights                                                                                                              | Remarks                                                                                                                                                                                                                                                                                                                                               |
|-----|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Mochika                                                                                         | Full Rights                                                                                                         |                                                                                                                                                                                                                                                                                                                                                       |
| 2   | Kharga                                                                                          | Nirgal rai and tos for building purpose.                                                                            |                                                                                                                                                                                                                                                                                                                                                       |
| 3   | Dawari                                                                                          |                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                       |
| 4   | Ropri                                                                                           |                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                       |
| 5   | Tikri                                                                                           |                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                       |
| 6   | Tandi                                                                                           |                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                       |
| 7   | Kumhar                                                                                          |                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                       |
| 8   | Dabar                                                                                           |                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                       |
| 9   | Tunan Phati (on right of Kunigad.) Thachua, Poshna Phati of Kandi, Koshol Phati of <u>Dhaul</u> | Dhara Gahr, Keoa Dhar Gahr. Yahni Nal Gahr. Pich-kot Gahr. Gana Gaii Gahr. Tika Nigahr. Tika Nigahr Kui-age Nigahr. | The Sheep meet under Damodhar, Rasu of Gundi, about 20 <sup>th</sup> bais hak. They graze inspring out side the forest in Tandither, Sampathu and go tto Nigahra in Saan and Bhaddon, and to the geha in this forest in Assuj and Kartik. The Gana-gai Thach is alf in pandrah-bis and half in Dhaul. ( See Gulle Forest).                            |
| 10  | For right holders, see remarks                                                                  | Moti rai Gahr Choa-het-Gahr- Chawe (or Choa-ga) Ghar.                                                               | The grazing in these gahrs was claimed by Damodhar Rasu of Pandarbis and alos by MJthed Gahr. Kandi Kothi . It seems probalble tht both parties have grazed Moti rai was recorded at the Revenue Settlement in the name of Dmodhar with a note that a sheep fom Kandi Kothi also grazed in it. The question of right must be decided in a Civil Suit. |

#### - Proprietary Right

Field No.8 area pa. 0.2 belonging to parsu & C, sons of Jaimlu Kanet, is included in the Forest and may be cultivate as here to fore.

½ Shikrwa Area 150 Acres ( 40.47 hect.)

|                      |              |                                                       |
|----------------------|--------------|-------------------------------------------------------|
| Name of Koti:- Dhaul | Boundaries:- |                                                       |
|                      | North        | Rare Bai Nal                                          |
|                      | East         | Path                                                  |
|                      | South        | Demarcated line form cultivation Surat RM TO So Dogri |
|                      | West         |                                                       |

| Sr.No. | Name of rights | Description of rights with limitation (viz. general rights and general and special conditions. |
|--------|----------------|------------------------------------------------------------------------------------------------|
| 1      | Grazing        | Cattle may graze.                                                                              |
| 2      | Grazing        | Sheep and goat may graze.                                                                      |
| 3      | Manure Leave   | Ban may be lopped to any height without permission.                                            |
| 4      | Manure Leave   | Fallen sothour may taken during the first week of Chaiter, and the first week of Baisa.        |
| 5      | Right or way   | A path runs from Bana to Chunagai used only by men.                                            |

| No. | Name & having rights | Rights      | Remarks                                                                     |
|-----|----------------------|-------------|-----------------------------------------------------------------------------|
| 1   | Bandi                | Full Rights | But sheeps and ogat may graze only form Mangsir to pPhagon (Both inclusive) |
| 2   | Bung                 | Full Rights |                                                                             |

|   |        |                                          |                                                                           |
|---|--------|------------------------------------------|---------------------------------------------------------------------------|
| 3 | Chuko  | Full Rights                              |                                                                           |
| 4 | Bana   | Full Rights                              |                                                                           |
| 5 | Bali   | Full Rights                              |                                                                           |
| 6 | Pali   | Grazzing of cattle and of Sheeo and Goat | But sheeps and got may graze only from Mangsir to Phagon (Both inclusive) |
| 7 | Karmel | Manure leaves as above                   |                                                                           |

Proprietary right

No cultivation in this forest, but there grass not held in proprietary right from which grass may be cut as heretofore.

1/3 Ramgarh kandi area 500 acres (151,75 hect ,)

|                       |              |                                                             |
|-----------------------|--------------|-------------------------------------------------------------|
| Name of Kothi:- Himri | Boundaries:- |                                                             |
|                       | North        | Cultivation of Chunagai and Nishani.                        |
|                       | East         | Cultivation of Chaglot, Bagba Nal and Seta Dhank            |
|                       | South        | Bathini Dank to Ramgarh and Kophi Dhar.                     |
|                       | West         | Path from Kathanda to Chaunagai and cultivation of Khanota. |

| Sr.No. | Name of rights  | Description of rights with limitation (viz. general rights and general and special conditions.                                         |
|--------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 1      | Grazing         | Cattle may graze.                                                                                                                      |
| 2      | Grazing         | Sheep and goat may graze.                                                                                                              |
| 3      | Fodder Leave    | Ban Moaru may be lopped to any height without permission.                                                                              |
| 4      | Manure Leave    | Fallen sothour may taken during the first week of Chaiter, and the first week of Baisakh.                                              |
| 5      | Fuel            | Ban, Iran, Bras, Sihega, Marat and Bashil may be cut without permission.                                                               |
| 6      | Building timber | Kail will be given on application                                                                                                      |
| 7      | Right of way    | Path:-<br>1. Nishani to Wair Open to cattle, Sheep and goats<br>2. Chunagai to Chaglot<br>3. Nishanto to Forest under Bathini Deodhank |

| No. | Name & having rights    | Rights            | Remarks                                                                                           |
|-----|-------------------------|-------------------|---------------------------------------------------------------------------------------------------|
| 1   | Nishani                 | Full Rights       | But sheeps and goat may graze only form Kartik to end o phagun, except when snow lies deep        |
| 2   | Mathala                 | Right 1,2,3,4 & 5 | But cattle only in end of Chaitr, goat to the end of Sawan and sheep only when flocks are united. |
| 3   | Soner                   | Right 1,2,3,4 & 5 | But sheep and goats graze ony when flocks are united.                                             |
| 4   | Pujarli                 | Rights 3 to 6     |                                                                                                   |
| 5   | Chaglot                 | Building timber   |                                                                                                   |
| 6   | Ralu ( of Poshna Phati) | Building Timber   |                                                                                                   |
| 7   | Pihali, Gater, Poshana  | Building Timber   |                                                                                                   |
| 8   | Bargai                  | Building Timber   |                                                                                                   |
| 9   | Juni                    | Full Rights       |                                                                                                   |

|    |                           |                          |                                                                                                  |
|----|---------------------------|--------------------------|--------------------------------------------------------------------------------------------------|
| 10 | Soich                     | As above                 |                                                                                                  |
| 11 | Pali, Kashoi Bala, Galaed | Building Timber          |                                                                                                  |
| 12 | Makrer, Badi              | Building Timber          |                                                                                                  |
| 13 | Arsu Phati                | Building Timber          |                                                                                                  |
| 14 | Soich                     | Building Timber          |                                                                                                  |
| 15 | Khnoti                    | Full right as above.     |                                                                                                  |
| 16 | Kathanda                  | Right 4,5 & 6            |                                                                                                  |
| 17 | Nirmand                   | Right 5 & 6              |                                                                                                  |
| 18 | Bail                      | Building Timber          |                                                                                                  |
|    |                           | Thach                    |                                                                                                  |
| 19 | Twar Phati                | Deog                     | The flocks of these phaties and villages meet                                                    |
| 20 | Nishani Phati             | Bathani Dhank            | Under Binu Nogi, Rasu, in the beginning o Baisakh and remain in the forest until the end of Har. |
| 21 | Kathanda                  | Basuti Ban               |                                                                                                  |
| 22 | Khanota                   | Badana<br>Namai<br>Bugba |                                                                                                  |

### Proprietary Rights

The following fields are included in the forest and may be cultivated hereto fore.

| Khasra No. | Proprietor                            | Area |    |
|------------|---------------------------------------|------|----|
|            |                                       | Bh.  | Pa |
| 5          | Man Chand Son of Sh. Karam Dass Kanet | 2    | 0  |
| 8          | Dibani Son of Sh. Budhu Ram           | 0    | 6  |
| 7          | Shiv Dass Son of Sh. Naju Kohli       | 0    | 3  |
| 2          | Samu Son of Sh. Naju Ram Kohli        | 0    | 6  |
| 3          | Samu Son of Sh. Naju Ram Kohli        | 0    | 4  |
| 13         | Nabi Son of Sh. Kamlu Kanet           | 1    | 5  |
| 4383       | Maafi of Natli Nag                    | 0    | 8  |
|            | Total                                 | 5    | 0  |

¼ Renus Area 1340 Acres (540.67 Hect.)

|                     |              |                                                                       |
|---------------------|--------------|-----------------------------------------------------------------------|
| Name of Kothi:- Kot | Boundaries:- |                                                                       |
|                     | North        | Birni and Marhaur Dhar.                                               |
|                     | East         | Natural Limit of the Forest                                           |
|                     | South        | Nageha Gad                                                            |
|                     | West         | Demarcated line from Birni thana excluding Cultivator known as Reuns. |

| Sr.No. | Name of rights | Description of rights with limitation (viz. general rights and general and special conditions. |
|--------|----------------|------------------------------------------------------------------------------------------------|
| 1      | Grazing        | Sheep and goats may graze.                                                                     |
| 2      | Fodder         | Grass may be cut.                                                                              |
| 3      | Right of way   | There is a sheep path along the Birni Dhar, Which is the Noathern                              |

|  |  |                         |
|--|--|-------------------------|
|  |  | boundary of the Forest. |
|--|--|-------------------------|

| No. | Name & having rights | Rights                   | Remarks |
|-----|----------------------|--------------------------|---------|
| 1   | Nagahr               | Rights                   |         |
| 2   | Dim Tharwa           | Thachas                  |         |
| 3   | Nagehr               | Khanorta                 |         |
| 4   | Badalhal             | Khanorti                 |         |
| 5   | Buen, Tholu          | Badardsu                 |         |
| 6   | Kre, Kolaras         | Mohru Banhoa<br>Birantha |         |

Proprietary Rights

No cultivation is included in the forest.

**1/5 Kandu Shila Area: 350 Acres ( 136.88 hect.)**

|                            |              |                                                                                              |
|----------------------------|--------------|----------------------------------------------------------------------------------------------|
| Name of Kothi:- Bahramgarh | Boundaries:- |                                                                                              |
|                            | North        | Shungra Dhar and Tandu Dhar to Rachokari.                                                    |
|                            | East         | Cultivation of Tharla path form Tharala to Sarhan, Garsheni dhar and Cultivation of Safopha. |
|                            | South        | Cultivation of Safopha known as Bun.                                                         |
|                            | West         | Rachokari Dhar.                                                                              |

| Sr.No. | Name of rights  | Description of rights with limitation (viz. general rights and general and special conditions.                                                                                                                                                                                            |
|--------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | Grazing         | Cattle may graze.                                                                                                                                                                                                                                                                         |
| 2      | Fodder leaves   | Mohru, Kharshu, Kathi, Reus, Murat may be lopped to any Height without permission.                                                                                                                                                                                                        |
| 3      | Manure leaves   | Kail, Rai, Tos may be lopped in Sawan, Bhadon.                                                                                                                                                                                                                                            |
| 4      | Building timber | Kail, Rai, Tos will be given on application                                                                                                                                                                                                                                               |
| 3      | Right of way    | The following paths run throught the forest:-<br>1. Manj ki Gosar Open to cattle sheep and goat<br>2. Sagofa to Sarahan<br>3. Bagir to Sarhan<br>4. Tharla to Sagopha<br>(a Small lenth only)<br>A path also goes to the Jalandi Deota, whose temple is inside the foest on Garheni Dhar. |
|        |                 |                                                                                                                                                                                                                                                                                           |

| No. | Name & having rights | Rights               | Remarks                                           |
|-----|----------------------|----------------------|---------------------------------------------------|
| 1   | Sagofa               | Full Rights as above | But only I shilar i.e. right side of Sagofa gehr. |
| 2   | Tharla               | Full rights as above | But only in Kandu i.e. left side of Sagofa gehr.  |

**Proprietary Right**

| Khasra No. | Proprietor                  | Area |    |
|------------|-----------------------------|------|----|
|            |                             | Bh.  | Pa |
| 1588       | Abju, Son of Mansa, Kanet   | 0    | 2  |
| 1096       | Manohar Son of Pahlad Kanet | 0    | 5  |
| 1095       | Kearu son of Ganga Ram      | 0    | 5  |
|            | Total                       | 0    | 12 |

|                            |              |                                                  |
|----------------------------|--------------|--------------------------------------------------|
| Name of Kothi:- Bahramgarh | Boundaries:- |                                                  |
|                            | North        | Baraili orkhara Dhar                             |
|                            | East         | Demarcated line by Cultivation of Jogi of Daler. |
|                            | South        | Demarcated line by Cultivation of Saburno.       |
|                            | West         | Kula Dhar.                                       |

| Sr.No. | Name of rights | Description of rights with limitation (viz. general rights and general and special conditions. |
|--------|----------------|------------------------------------------------------------------------------------------------|
| 1      | Grazing        | Cattle may graze.                                                                              |
| 2      | Fodder leaves  | Ban may be lopped to any height without permission.                                            |
| 3      | Grass          | Grass may be cut without permission                                                            |
| 4      | Right of way   | A Path known as Khara Dhar Path for sheep and goats runs through the Forest.                   |

| No. | Name & having rights | Rights              | Remarks                                                                                                    |
|-----|----------------------|---------------------|------------------------------------------------------------------------------------------------------------|
| 1   | Jaler                | Grass land          |                                                                                                            |
| 2   | Daler                |                     |                                                                                                            |
| 3   | Ishwa                | Fodder leave of oak | The leaves are taken from Bagi's chan of Shed, Which is under the forest and where sheep remain in winter. |
| 4   | Jaler Phati          |                     |                                                                                                            |
| 5   | Ishwa                |                     | These sheep meet under Jeo , Rasu of Jaler and graze in this forest Jait.                                  |
| 6   | Sikhan of Nore phati | Sheep grazing       | Remaining at Khara Dhar.                                                                                   |
| 7   | Shaman               |                     |                                                                                                            |
| 8   | Barna                |                     |                                                                                                            |
| 9   | Shalat               |                     |                                                                                                            |

#### Proprietary Rights

No cultivation is included in this forest, but grass lands, not held in proprietary right is included, from which grass may be cut as here to fore.

**1/7 Drad Area: 820 Acres( 393.77 Hect.)**

|                            |              |                                   |
|----------------------------|--------------|-----------------------------------|
| Name of Kothi:- Bahramgarh | Boundaries:- |                                   |
|                            | North        | Ridge between Outer & inner Seraj |

|  |       |                                                       |
|--|-------|-------------------------------------------------------|
|  | East  | Mandrow Dhar & Kuladhar.                              |
|  | South | Demarcated line by Patoribil above Bjuri & Drad Dogri |
|  | West  | Aknagar and Rath cho.                                 |

| Sr.No. | Name of rights          | Description of rights with limitation (viz. general rights and general and special conditions.            |
|--------|-------------------------|-----------------------------------------------------------------------------------------------------------|
| 1      | Grazing                 | Sheep and Cattle may graze.                                                                               |
| 2      | Fodder leaves           | Ban, mohru, Kathi, Murat, Mandar, Reuns may be lopped to any height without permission.                   |
| 3      | Agricultural implements | Ban Mohar, mkandaru, Jamu, Shirir, hawansh may be cut without permission.                                 |
| 4      | Building timber         | Rai and Tosh will be given on application.                                                                |
| 4      | Right of way            | A Path from Bachair phati to Sarahan by Rata Cho runs through the forest. It is used for sheep and goats. |

| No. | Name of hamlets & having rights | Rights                                                                                             | Remarks                                                                                                    |
|-----|---------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| 1   | Bijuri Dogir                    | Full Rights                                                                                        | But sheep & goats graze only in Mansgsir.                                                                  |
| 2   | Daler                           |                                                                                                    |                                                                                                            |
| 3   | Ishwa                           | Fodder leave of oak                                                                                | The leaves are taken from Bagi's chan of Shed, Which is under the forest and where sheep remain in winter. |
| 4   | Drad dogri of Bahramgarh        |                                                                                                    |                                                                                                            |
| 5   | Sihin, Nagadi                   | Agricultural implements<br>Building timber and moharu in Posh Magh.<br>Moharu leaves in Posh, Magh |                                                                                                            |
| 6   | Tharwa, Barna                   |                                                                                                    |                                                                                                            |
| 7   | Shaman                          |                                                                                                    |                                                                                                            |
| 8   | Shalat                          |                                                                                                    |                                                                                                            |

| No.          | Name of hamlets & having rights   | Rights                        | Remarks                                                                                                                                     |
|--------------|-----------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| 1            | Jaler Phati & Ishwa Sikhin        | Postori bill gahr Bakaun gahr | These gahrs are grazed in Jait and Assauj by Jeo Rasu of Jaler                                                                              |
| 2            | Shaman                            | Kasi Kod gahr                 |                                                                                                                                             |
| 3            | Barna and Shalat of Nohr Phati    |                               |                                                                                                                                             |
| <b>Chans</b> |                                   |                               |                                                                                                                                             |
| 4            | Jeo of Jaler                      | Choa-ga                       | The owner of these chans or sheds keep their sheep and goats in them in Posh and Magh to be near the mohru leaves which are used as fodder. |
| 5            | Narayanu of Jaler                 | Patori-bil                    |                                                                                                                                             |
| 6            | Parbatu of Jaler                  |                               |                                                                                                                                             |
| 7            | Phitu of Jaler                    |                               |                                                                                                                                             |
| 8            | Dhani Ram and Dhan chand of Ishwa | Narhawa-rewar                 |                                                                                                                                             |
| 9            | Piari Ram of Laphal in Naraingarh | Bakhan                        |                                                                                                                                             |

### Proprietary Rights

No cultivation is included in this forest.



**1/8 Lohr Area: 820 Acres( 428.97 Hect.)**

|                            |              |                                                  |
|----------------------------|--------------|--------------------------------------------------|
| Name of Kothi:- Bahramgarh | Boundaries:- |                                                  |
|                            | North        | Kalai gad                                        |
|                            | East         | Aknagar, Cultivation of Kalai Dogri and of Nohr. |
|                            | South        | Tharwa Dhar                                      |
|                            | West         | Bhatadogri Dhar.                                 |

| Sr.No. | Name of rights          | Description of rights with limitation (viz. general rights and general and special conditions.                                                                 |
|--------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | Grazing                 | Cattle may graze.                                                                                                                                              |
| 2      | Grazing                 | Sheep and cattle may graze.                                                                                                                                    |
| 3      | Fodder leaves           | Ban, mohru, bashil, siaro, Musrat, bujlu, reunsu may be lopped to any height without permission.                                                               |
| 4      | Manure Leaves           | Iran and bras may be lopped to any hight.                                                                                                                      |
| 5      | Fuel                    | Iran, ban, bras, shershi, siaru, Kathi, reuns be cut without permission.                                                                                       |
| 6      | Agricultural implements | Ban, bras, mandru may be cut without permission.                                                                                                               |
| 7      | Building timber         | Kail, Rai & chill will be given on application.                                                                                                                |
| 8      | Right of way            | The following paths run through the forests:-<br>1. Kala Dogri to Nohr<br>Open for cattle, sheep and goats<br>2. Kala Dogri to Kathmor<br>3. Kathmor to Tarala |

| No.            | Name of hamlets & having rights      | Rights                                          | Remarks                                                                                                                                      |
|----------------|--------------------------------------|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 1              | Kala Dogri                           | Full Rights                                     | But Sheep and goat grazing only in Baisakh, Jait.                                                                                            |
| 2              | Katmore                              | Full Rights                                     | But cattle grazing only in Baisakh, Jait, Har, Sawan, Bhaddon, Assauj and sheep and got grazing in Kartik Mangsir, Baisakh, Jait             |
| 3              | Ishwa                                | Right 2,3,5,6,7 also grass                      | But sheep and goat grazing only Baishak Jait.                                                                                                |
| 4              | Shalat, Pajanda, Dogri               | Rights 5,6,7 and grass                          |                                                                                                                                              |
| 5              | Nohr                                 | Full Rights                                     | But sheep and goat grazing only Baishak Jait.                                                                                                |
| 6              | Rato, Sathawa                        | Agrucutlural implements<br>Building timber      |                                                                                                                                              |
| 7              | Kaler, Lanj, Lakhi Lanj, and Katmore | Building Timber                                 |                                                                                                                                              |
| <b>Thaches</b> |                                      |                                                 |                                                                                                                                              |
| 8              | Ranu Phati                           | Balut Gahr                                      | These gahrs are grazed by shee sheep of Rane and Gahtu Phaties under Shiv Ram and Phatu Rasus for a few days in Har and a few days in Assuj. |
| 9              | Ghatu Phati                          | Lohr-Gahr, Lohr Gahr, Rai-age-Gahr, Kadrao Gahr |                                                                                                                                              |

## Proprietary Rights

Field No.3 area 0-2 pa. Belonging to Kamlu, & C. sons of Jamnu, Kohli is inside the forest, and may cultivated as heretofore. Grass land nO. 4 (bb 0.3) entered in name of Manu son of Hari Ram & C is also included grass may be cut as here to form this land and also from other grasslands no entered in proprietary right.

### 1/9 Bijuri Area:1700 Acres( 610.27 Hect.)

|                            |              |                                                   |
|----------------------------|--------------|---------------------------------------------------|
| Name of Kothi:- Naraingarh | Boundaries:- |                                                   |
|                            | North        | Ridge between Outer & Inner seraj                 |
|                            | East         | Akhnagar RAtacho, Cultivation of Drad & Dal Dogri |
|                            | South        | Kalar Garh                                        |
|                            | West         | Bajanda or Kamlai Dhar                            |

| Sr.No. | Name of rights          | Description of rights with limitation (viz. general rights and general and special conditions.                                                                                                       |
|--------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | Grazing                 | Cattle may graze.                                                                                                                                                                                    |
| 2      | Grazing                 | Sheep and cattle may graze.                                                                                                                                                                          |
| 3      | Fodder leaves           | Ban, mohru, Kathi, Musrat, Kharsu may be lopped to any height without permission.                                                                                                                    |
| 4      | Manure Leaves           | Ban Brass,Iran may be lopped to any hight.                                                                                                                                                           |
| 5      | Fuel                    | Dry fallen wood may be removed and green ban, iran, bras may be cut without permission.                                                                                                              |
| 6      | Agricultural implements | Ban, Palan may be cut without permission for agricultural implements.                                                                                                                                |
| 7      | Building timber         | Kail, Rai will be given on application.                                                                                                                                                              |
| 8      | Right of way            | The following paths run through the forests:-<br>4. Bajanda to Kala Dogri via Sand<br>Open for cattle, sheep and goats<br>5. Bajanda to Kala Dogri via Sant to Drad to cultivation inside the forest |

| No.     | Name of hamlets & having rights                                      | Rights                                                   | Remarks                                                                                                                        |
|---------|----------------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| 1       | Drad Dogir                                                           | Full Rights                                              | But Narpat, Nantu and Tunkar live in the dogras only during Mag, Phagon, Chaitr, but cattle also come to cultivate the fields. |
| 2       | Sand Dogra                                                           | Full Rights                                              |                                                                                                                                |
| 3       | Dal                                                                  | Full Rights                                              |                                                                                                                                |
| 4       | Banas                                                                | Rights 3,6 also grass                                    | Dali lives here all the year.                                                                                                  |
| 5       | Ladag                                                                | Rights 3, 6                                              |                                                                                                                                |
| 6       | Uperla Tarala                                                        | Rights 3, 6                                              |                                                                                                                                |
| 7       | Nichla Tarala                                                        | Also Grass                                               |                                                                                                                                |
| 8       | Bashair Phati                                                        | Sheruli also grass                                       |                                                                                                                                |
| Thaches |                                                                      |                                                          |                                                                                                                                |
| 9       | Laphal, Bachair, Ladag, Nanal, Jaun, Banas of Naragingarh Kothi also | Rata-cho Gahr. Dwrio Garh Allai Dhar Gahr. Lohani Nigahr | The Gahrs are grazed in Harand Assauj & Nigahr in the end of Bhadon. The garh are grazed by both                               |

|  |                                                                                        |  |                                                                                                                             |
|--|----------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------|
|  | jaler Phati and Ishwa, Sikhan, Shaman, Barna, Shalat of Nohr Phai of Bahram garh Kothi |  | Naraingahr sheer under Piari Ram Resus and Bahramgarh sheer under Jeo Ram Jaler, but the latter do not graze in the nigahr. |
|--|----------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------|

### Proprietary Rights

Field No. 767 area 0-12 pa. Belonging to Thunkar to son of Dunghru Kohli is included in the forest and may be cultivated as heretofore also a chan or Piari Ram, Kanet.

Grass land of Buchair Phati are included, but are not held in proprietary right. Grass may be cut hereto fore.

### 1/10 Bashad Area:670 Acres( 179.28 Hect.)

|                            |              |                                                         |
|----------------------------|--------------|---------------------------------------------------------|
| Name of Kothi:- Naraingarh | Boundaries:- |                                                         |
|                            | North        | Demarcated line by Kasun Thach and Rashad Nal           |
|                            | East         | Cultivation of Tand, Phairalav and lahur and Kulti Nal. |
|                            | South        | Nachlach Dhar                                           |
|                            | West         | Naraingarh Dhar                                         |

| Sr.No. | Name of rights          | Description of rights with limitation (viz. general rights and general and special conditions.                                                                                                                                                                                                                                                      |
|--------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | Grazing                 | Cattle may graze.                                                                                                                                                                                                                                                                                                                                   |
| 2      | Grazing                 | Sheep and cattle may graze.                                                                                                                                                                                                                                                                                                                         |
| 3      | Fodder leaves           | Ban, mohru, Kathi, Musrat, reuns paluhin may be lopped to any height without permission.                                                                                                                                                                                                                                                            |
| 4      | Manure Leaves           | Kail and rai may be lopped in Sawn, Bhado to half their hight subject to the general provision as to the size of the trees.                                                                                                                                                                                                                         |
| 5      | Fuel, fence             | Ban, Bras, Iran, Hawansh, Loij may be cut without permission.                                                                                                                                                                                                                                                                                       |
| 6      | Agricultural implements | Ban, Mandru, Palan may be cut without permission.                                                                                                                                                                                                                                                                                                   |
| 7      | Building timber         | Kail, Rai & tosh will be given on application.                                                                                                                                                                                                                                                                                                      |
| 8      | Right of way            | <p>The following paths run through the forests:-</p> <ol style="list-style-type: none"> <li>1. Shkrisha to Nagag</li> <li>2. Ldarul to Nagag</li> <li>3. Ldarul to Doanda</li> <li>4. Ldarul to wasteland</li> <li>5. Dumat to Ishwa</li> <li>6. Dumat to Dau for men only</li> </ol> <p style="text-align: right;">For cattle, sheep and goats</p> |

| No. | Name of hamlets & having rights | Rights | Remarks |
|-----|---------------------------------|--------|---------|
|-----|---------------------------------|--------|---------|

|   |                                           |                                    |                                                                                                                                                    |
|---|-------------------------------------------|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Larula, Dumat Pharailavi                  | Full Rights                        | But cattle of Larul graze only in Baishak, Jait, har, Assauj, Kartik, Mangsir and sheep and goats in Kartik, Mansir, Baisak and beginning of Jait. |
| 2 | Tand                                      | Full Rights<br>Except grazing      | Dali lives here all the year.                                                                                                                      |
| 3 | Tingcha, Nanaun<br>Kagamdo, Ishwa, Sabagh | Rights 3,6 & 7                     | These villages require only rai also Nirgal and tosh trees for planks, not and sheruli, Kail                                                       |
| 4 | Ghatu                                     | Full Right<br>Except grazing       |                                                                                                                                                    |
| 5 | Ghatu, Jajar                              | Rights 6,7 alos Nirgal and sheruli | These villagers require rai and Tosh trees for planks not Kail                                                                                     |
| 6 | Nala Margi, Dhara Margi                   | Right 3,6                          |                                                                                                                                                    |
| 7 | Barger, Urtu, Deog, Nau,                  | Right 5,6,3                        |                                                                                                                                                    |
| 8 | Ghatu Phati                               | Slates                             |                                                                                                                                                    |

### Proprietary Rights

Some grass land is included in the forest, but is not held in proprietary right. Grass may be cut as heretofore.

**1/11 Kut Area:389 Acres( 157.20 Hect.)**

|                            |              |                                                                                   |
|----------------------------|--------------|-----------------------------------------------------------------------------------|
| Name of Kothi:- Naraingarh | Boundaries:- |                                                                                   |
|                            | North        | Naya Nal                                                                          |
|                            | East         | Kamlahi or BajandaDhar.                                                           |
|                            | South        | Kandu Dhartu and cultivation of sutjo of Trala.                                   |
|                            | West         | Cultivation of Banas, Moti's Dogri and Nilo Pani Nal Path from the pass to Ladag. |

| Sr.No. | Name of rights          | Description of rights with limitation (viz. general rights and general and special conditions.                                                                                                                                                              |
|--------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | Grazing                 | Cattle may graze.                                                                                                                                                                                                                                           |
| 2      | Grazing                 | Sheep and cattle may graze.                                                                                                                                                                                                                                 |
| 3      | Fodder leaves           | Kathi, Musrat, reuns paluhin, Kharshu, Bakna may be lopped to any height without permission.                                                                                                                                                                |
| 4      | Manure Leaves           | Kail and rai may be lopped in Sawn, Bhado to half their hight subject to the general provision as to the size of the trees.                                                                                                                                 |
| 5      | Fuel, fence             | Kashmal, Shegal, Iran, Chaku, Kathi may be cut without permission.                                                                                                                                                                                          |
| 6      | Agricultural implements | Kharshu and Jamu may be cut without permission. A Rai tree not exceeding one hath their girth at the ground may be cut for the Sainj of the plough, subject to the general provision as to notice.                                                          |
| 7      | Building timber         | Kail, Rai & tosh will be given on application.                                                                                                                                                                                                              |
| 8      | Right of way            | The following paths run through the forests:- <ol style="list-style-type: none"> <li>1. Banas to Ladag</li> <li>2. Banas to Kut (for Kharshu leaves)<br/>For cattle, sheep and goats</li> <li>3. Ladag to Jaun</li> <li>4. Ladag to Pajanda Dhar</li> </ol> |

| No.            | Name of hamlets & having rights            | Rights                                       | Remarks                                                                                                                                       |
|----------------|--------------------------------------------|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 1              | Banas                                      | Full Rights                                  | But sheep and goats graze only in Kartik, Mangsir, Posh, Magh, Phagon, Jaith.                                                                 |
| 2              | Ladag                                      | Full Rights                                  | But sheep and goats graze only in Kartik and Mansir and until snow falls.                                                                     |
| 3              | Shigar<br>Being Dograss of Tarala & Nanal  | Cattle grazing manure leaves building timber | But only in Sawan Bhadon                                                                                                                      |
| 4              | Rona                                       |                                              |                                                                                                                                               |
| 5              | Nanal                                      |                                              |                                                                                                                                               |
| 6              | Bachair                                    |                                              |                                                                                                                                               |
| 7              | Upper Tarala                               | Grass Ghayanas                               |                                                                                                                                               |
| <b>Thaches</b> |                                            |                                              |                                                                                                                                               |
| 8              | Laphal, Bachair, Ladag, Nanal, Jaun, Banas | Thoda Gahr Tio Khud Gahr, Kwai Khud Gahr     | These gahrs are grazed in Har and Assauj by the Naraingarh sheep under Piari Ram Rasu, Kwai Thach is on the high way ofr sheep goin to Rupri. |

### Proprietary Rights

Field No. 1161 belonging to Dittu son of Ranku and Co. Area 2 pa. has been given up on exchange. The grass land of Buchair and Tarala is included but not held in preparatory rights, grass may be cut heretofore.

**1/12 Drad Area: 760 Acres( 267.49 Hect.)**

|                            |              |                                                    |
|----------------------------|--------------|----------------------------------------------------|
| Name of Kothi:- Naraingarh | Boundaries:- |                                                    |
|                            | North        | Khana Nal                                          |
|                            | East         | Naraingarh Dhar.                                   |
|                            | South        | Cultivation of Dhar, Ghaner and ridge behind Kutwa |
|                            | West         | Gater Gar.                                         |

| Sr.No. | Name of rights | Description of rights with limitation (viz. general rights and general and special conditions.               |
|--------|----------------|--------------------------------------------------------------------------------------------------------------|
| 1      | Grazing        | Cattle may graze.                                                                                            |
| 2      | Grazing        | Sheep and cattle may graze.                                                                                  |
| 3      | Fodder leaves  | Ban, Mohru, Kathi, Kharshu, Shaglati.                                                                        |
| 4      | Manure Leaves  | Kail and rai may be lopped in Sawn, Bhado to half their hight subject to the general provision as to notice. |
| 5      | Fuel           | Bras, Ban, Iran, Runs, Kathi may be cut without permission.                                                  |

|   |                         |                                                                                                                                                                                                                                               |
|---|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6 | Agricultural implements | Ban, Jamu, Palan may be cut without permission. A Rai tree not exceeding one hath their girth at the ground may be cut for the Sanj of the plough, subject to the general provision as to notice.                                             |
| 7 | Building timber         | Kail, Rai & tosh will be given on application.                                                                                                                                                                                                |
| 8 | Right of way            | <p>The following paths run through the forests:-</p> <ol style="list-style-type: none"> <li>1. Ghaner tp Gatar</li> <li>2. Dhar to Kado</li> <li>3. Dhar to Kado</li> <li>4. Kutwa to Kado</li> </ol> <p>Used for cattle, sheep and goats</p> |

| No.            | Name of hamlets & having rights | Rights                                                                                      | Remarks                                                                                           |
|----------------|---------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| 1              | Ghaner                          | Full Rights                                                                                 | But sheep and goats graze only in Kartik, Mangsir, Posh, Magh, Phagon.                            |
| 2              | Dhar                            | Full Rights in Reuns                                                                        |                                                                                                   |
| 3              | Chanog                          | Building timber in Drad                                                                     |                                                                                                   |
| 4              | Kado                            | Full right in Drad                                                                          |                                                                                                   |
| 5              | Degut                           | Fooder leaves and Sheruli in Reuns and Grass ghayana in Darad                               |                                                                                                   |
| 6              | Kutwa                           | Fodder leaves and sheep grazing in Reuns, cattle grazing and sheep, agricultural implements | But sheep grazing only in Magh, Phagon But cattle and sheep in Kartik and grass ghayanas in Drad. |
| <b>Thaches</b> |                                 |                                                                                             |                                                                                                   |
| 8              | Jan, Nathral, Kado, Kutwa       | Drad gehr                                                                                   | These villagers graze in thi gahr in Jaith under sham and ablu Ras.                               |

### Proprietary Rights

No cultivation is included in the forest, but the grass Land of kutwa, Ghaner, Dagut and & co. is in side, but is not held in proprietary right. Grass may be cut as heretofore.

**1/13 (a) Sathabindri Area: 460 Acres(186.15 Hect.)**

|                            |              |
|----------------------------|--------------|
| Name of Kothi:- Naraingarh | Boundaries:- |
|----------------------------|--------------|

|  |       |                           |
|--|-------|---------------------------|
|  | North | Cultivation of Buthdhar   |
|  | East  | Ding gar and phalanx gahr |
|  | South | Nonu Kanda                |
|  | West  | Telidhar and Airan Dhar   |

| Sr.No. | Name of rights          | Description of rights with limitation (viz. general rights and general and special conditions.               |
|--------|-------------------------|--------------------------------------------------------------------------------------------------------------|
| 1      | Grazing                 | Sheep and cattle may graze.                                                                                  |
| 2      | Fodder leaves           | Bar, Kirk, Kathi, Burju, Shaglati, Loii, Jamu may belopped to any hight without permission.                  |
| 4      | Manure Leaves           | Kail and rai may be lopped in Sawn, Bhado to half their hight subject to the general provision as to notice. |
| 5      | Gras                    | Grass and sheruli may be cut.                                                                                |
| 6      | Agricultural implements | Ban, Jamu, Palan may be cut without permission.                                                              |
| 7      | Building timber         | Kail will be given on application.                                                                           |

| No. | Name of hamlets & having rights | Rights                                          | Remarks                                               |
|-----|---------------------------------|-------------------------------------------------|-------------------------------------------------------|
| 1   | Jau, Ding                       | Full Rights including ghayan                    | But sheep and goats graze only in Kartik and Mangsir. |
| 2   | Tapranda, Shagan, Soma          | Oak leaves and grass ghyans                     |                                                       |
| 3   | Tapranada, Pauti                | Ban, Jamu and Palan for agricultural implements |                                                       |
| 4   | Bishlani, Soma, Kader           |                                                 |                                                       |
| 5   | Jagel, Satrao                   |                                                 |                                                       |
| 6   | Thanota (Phichla Jhilla)        |                                                 |                                                       |
| 7   | Saran, Chalaun                  |                                                 |                                                       |
| 8   | Jaler, Butidhar                 |                                                 |                                                       |
| 9   | Chalona, Bahua                  |                                                 |                                                       |
| 10  | Kaili-shah, Galui               |                                                 |                                                       |
| 11  | Shamash, Kanda                  |                                                 |                                                       |
| 12  | Bakhaun, Karoar                 |                                                 |                                                       |
| 13  | Thog, Samesha                   |                                                 |                                                       |

## Proprietary Rights

The following ghaunans, vis. NO. 3674, 3675, 3676, 3677, 3678, 3679, 3680, 3698, which have been recorded in the name of individual are I side the forest and besides them the ghayans of Tapranda and which were not recorded at the Revenue Settlement in the names of individuals. Grass may be cut as heretofore.

### 1/13 Taraijhakhar Area: 340 Acres(137.59 Hect.)

|                            |              |                                                                   |
|----------------------------|--------------|-------------------------------------------------------------------|
| Name of Kothi:- Naraingarh | Boundaries:- |                                                                   |
|                            | North        | Cultivation of Buthidhar and Bahua stream                         |
|                            | East         | Airan Dhar and Telidhar                                           |
|                            | South        | Cultivation of Tapranda Bishlani, Jaler Dhar and Sukh Nal         |
|                            | West         | Bhaua stream, cultivation of Sun-pakalti, Dogri, Jaler and Bahua. |

| Sr.No. | Name of rights            | Description of rights with limitation (viz. general rights and general and special conditions.                                                                                                                                                                                            |
|--------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | Grazing                   | Cattle may graze.                                                                                                                                                                                                                                                                         |
| 2      | Grazing                   | Sheep and cattle may graze.                                                                                                                                                                                                                                                               |
| 3      | Fodder leaves             | Ban, Kathi, Loij be lopped to any hight without permission.                                                                                                                                                                                                                               |
| 4      | Manure Leaves             | Kail, rai and Chill may be lopped to half in Sawan, Bhadron Subject to the general provision as to the size of trees.                                                                                                                                                                     |
| 5      | Fuel                      | Dry wood (Fallen) may be removed also green Kathi, Ban, Brass, Iran may be cut without permission.                                                                                                                                                                                        |
| 6      | Wood for burning the dead | One Kail, Rai or Chil trees may be cut for the burning of dead, subject to the general provisions as to notice.                                                                                                                                                                           |
| 7      | Agricultural implements   | A Rai tree not exceeding one hath in girth at he ground laevel may be cut for the sajn of plough subject to the general provision as to notice.                                                                                                                                           |
| 7      | Building timber           | Kail, Rai & Tosh will be given on application.                                                                                                                                                                                                                                            |
| 8      | Right of way              | The following paths run through the forest:-<br>1. Chowai to Dau Open to cattle and Goats<br>2. Chowai to Chanog via Butidhar<br>3. Shimla Road<br>4. Tapranda to Gharats in Bahua stream<br>5. Shagan to Dau<br>6. Gard to Dau<br>7. Shirsha to Chowai via Nono<br>8. Bahua to Shamashar |

| No. | Name of hamlets & having rights | Rights                        | Remarks                                          |
|-----|---------------------------------|-------------------------------|--------------------------------------------------|
| 1   | Tapranda, Bishalani             | Full Rights and satrao, Pauti | But sheep and goats graze only in Posh and Magh. |



|    |                          |                                                                                   |                                                  |
|----|--------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------|
| 2  | Pauti, Sataro            |                                                                                   |                                                  |
| 3  | Chowai, Chalaun          | Bishlani Daman                                                                    |                                                  |
| 4  | Tanouta (Jhila & Pichla) | Chadao dogri, Dogri and Chabol have ghayans                                       |                                                  |
| 5  | Chilona, Daman           |                                                                                   |                                                  |
| 6  | Saran, Jaler             |                                                                                   |                                                  |
| 7  | Butidhar, Bahua          |                                                                                   |                                                  |
| 8  | Soma, Kader              |                                                                                   |                                                  |
| 9  | Shamshar                 | Cattle grazing fodder manure leaves fuel and agricultural implements              | But cattle graze only in Sawan and Bhadron only. |
| 9  | Chodao Dogri             | Cattle grazing grass but only for mangsir, Posh, Magh, Phagon, Chaitr and Baisak. |                                                  |
| 10 | Kao                      | Fodder leaves Manure leaves Agricultural implements building timber               |                                                  |
| 11 | Karour                   | Building timber                                                                   |                                                  |

### **Proprietary Rights**

The following fields No.s 7 & 9 area bh. 2.8 belonging to Chetu, & co. sons of Chainu Kohli are inside the forest and may be cultivated as heretofore.

The following ghaunans, vis. NO. 3696, 3697, 3682, 3684, 3685, 3686, 3687, 3683, 3692, 3695, 3690, 3691, 3694 recorded at Revenue Settlement in the names of individuals are included in the forest and besides them the grass lands at Satrao & Co. not so recorded may be cut as heretofore.

### ***1/14 Marahkod Area: 840 Acres(252.53 Hect.)***

|                       |              |                                                                                                                |
|-----------------------|--------------|----------------------------------------------------------------------------------------------------------------|
| Name of Kothi:- Himri | Boundaries:- |                                                                                                                |
|                       | North        | Demarcated line by Daladeni, Banao Kod Dadharadhar, Chiun Dhar, Binal, Naigar and from Katheo to Hawalthu Dank |
|                       | East         | Hawaltu Dank to Wanstu                                                                                         |
|                       | South        | Latanda Dhar                                                                                                   |
|                       | West         | Kaili Dhar                                                                                                     |

| Sr.No. | Name of rights | Description of rights with limitation (viz. general rights and general and special conditions. |
|--------|----------------|------------------------------------------------------------------------------------------------|
| 1      | Grazing        | Cattle may graze.                                                                              |
| 2      | Grazing        | Sheep and cattle may graze.                                                                    |
| 3      | Fodder leaves  | Ban, Mohru, Kathi, Shgal, Aiyal, Pathi, Reuns may be lopped to                                 |

|   |                         |                                                                                                                                                                                                                                                                                                                          |
|---|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   |                         | any hight without permission.                                                                                                                                                                                                                                                                                            |
| 4 | Manure Leaves           | Ban, Brass, Iran . mey be lopped to any hight without permission.                                                                                                                                                                                                                                                        |
| 5 | Fuel                    | Ban, Brass, Iron, Kathi, Pothi may be cut without permission                                                                                                                                                                                                                                                             |
| 6 | Agricultural implements | Ban, Mohru, Hawansh, Jamuu, Kharshu, Mandru may be cut without permission.                                                                                                                                                                                                                                               |
| 7 | Building timber         | Kail, Rai will be given on application.                                                                                                                                                                                                                                                                                  |
| 8 | Right of way            | The following paths run through the forest:-<br>1. Sarmo to Brahola Open to cattle and Goats<br>2. Jager to Daplad<br>3. Sarmo to Latanda<br>4. Sarmu to Gwal Gaura<br>5. Sarmu to Shaloun (Slate quarry)<br>6. Latanda to Brain<br>7. Jager to Dagail, watering place<br>8. Sarmo to watering place under parbatu's Kut |

| No.     | Name of hamlets & having rights                 | Rights          | Remarks                                                                                                                 |
|---------|-------------------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------|
| 1       | Sarmo, Jagair Sarar                             | Full Rights     | But sheep and goats graze in Magsir, Posh and Magh                                                                      |
| 2       | Shain, Shah                                     | Rights 3,5,6,7  |                                                                                                                         |
| 3       | Gaura                                           | Rights 3,5,6,7  |                                                                                                                         |
| 4       | Gwa;l                                           | Right 3,5,7     |                                                                                                                         |
| 5       | Panuin Bashla                                   | Building Timber |                                                                                                                         |
| 6       | Shilla Phati                                    | Slates          |                                                                                                                         |
| Thaches |                                                 |                 |                                                                                                                         |
| 7       | Jager, Sarmo Pali, Kutal, Kalog, Begash, Bashla | Marah Kod gahr  | The sheep graze in Jai tuner pari, Rasu of Bashla. The Sheep of Devi Ram, Wazir rasu also remain in a few days in Jait. |

### **Proprietary Rights**

The following fields are included in the forest and may be cultivated as heretofore.

| Khasra No.   | Proprietor                           | Area     |          |
|--------------|--------------------------------------|----------|----------|
|              |                                      | Area     | Pa       |
| 2930         | Todu son of Ram Dass Kanet           | 2        | 0        |
| 2931         | Parbatu son of Dani, Kanet           | 2        | 4        |
| 2832         | Sita Ram And Co. Khatas 34,35, 36,37 | 2        | 15       |
| <b>Total</b> |                                      | <b>7</b> | <b>3</b> |

**1/15 Lot Kayaon Area:148 Acres(59.90 Hect.)**

|                       |              |                                     |
|-----------------------|--------------|-------------------------------------|
| Name of Kothi:- Himri | Boundaries:- |                                     |
|                       | North        | Cultivated of Gaura                 |
|                       | East         | Cultivated of Shah and Shai         |
|                       | South        | Cultivated of Durah                 |
|                       | West         | Demarcated land towards waste land. |

| Sr.No. | Name of rights | Description of rights with limitation (viz. general rights and general and special conditions.                                                                                                            |
|--------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | Grazing        | Cattle may graze.                                                                                                                                                                                         |
| 2      | Grazing        | Sheep and cattle may graze.                                                                                                                                                                               |
| 3      | Fuel and fence | Kashmal, Bkhal, Shegal, Muret may be cut without permission                                                                                                                                               |
| 4      | Right of way   | The following paths run through the forest:-<br>1. Durah to Gaura, Shain, Shah, Used for cattle, sheep<br>2. Bakhan, Sharti, Phadour and Latanda and goats. A waste channel also runs through the forest. |

| No. | Name of hamlets & having rights | Rights                                           | Remarks                                                    |
|-----|---------------------------------|--------------------------------------------------|------------------------------------------------------------|
| 1   | Gaura                           | Full Rights                                      | But sheep and goats graze in Kartik, Magsir, Posh and Magh |
| 2   | Durah                           | Full Rights                                      |                                                            |
| 3   | Gaura, Durah, Gwal              | Sheepgrazing in end of Jait and beginning of Har |                                                            |
| 4   | Bhakun, Shah                    |                                                  |                                                            |
| 5   | Shain, Labola                   |                                                  |                                                            |

**Proprietary Rights**

The following fields are included in the forest and may be cultivated as heretofore.

| Khasra No. | Proprietor                  | Area |    |
|------------|-----------------------------|------|----|
|            |                             | Area | Pa |
| 457        | Narotru & Co. Sons of Purga | 0    | 8  |
| 250        | -----do-----Baraman         | 0    | 6  |
| 275        | Mafi of Dwara Devi          | 0    | 8  |
| 273        | Sobu Nand & co. Sons of Dea | 0    | 5  |

|      |                                   |            |           |
|------|-----------------------------------|------------|-----------|
| 251  | -----do-----                      | 0          | 8         |
| 272  | Thori Son of Nara Brahman         | 0          | 4         |
| 269  | Juru Son of Mara & C. Kohli       | 0          | 4         |
| 248  | Narmu son of Shangru Kohli        | 0          | 10        |
| 249  | -----do-----                      | 0          | 5         |
| 252  | Jogu son of Nesru Kohli           | 0          | 2         |
| 253  | Katu son of Rup Kohli             | 0          | 6         |
| 247  | Dalphu son of Lasnu & c. Kohli    | 1          | 6         |
| 2446 | Sham Chand & Daul Khata O. 56 57, | 1          | 12        |
| 2459 | Piaru S/o of Magu & C. Thawi      | 0.6        | 0         |
| 2460 | Sesu and C. Son of Bine Ram Kanet | 0          | 1         |
| 2463 | -----do-----                      | Grass land |           |
| 2464 | Moti Ram 7C. Son of Ludar & c.    | Grass land |           |
| 2415 | Nandu Khata No. 78                | Grass land |           |
| 2414 | Phenu Khata No. 79                | 2          | 0         |
| 2462 | Pianu Son of Shiv Dass Kanet      | Grass land |           |
| 2411 | Dhanu & Phenue Sons of Gyani & C. | 0          | 2         |
| 2354 | Angu & bC/ Sons of Moti & C.      | 1          | 0         |
|      | <b>Total</b>                      | <b>9</b>   | <b>13</b> |
|      |                                   |            |           |
|      |                                   |            |           |
|      |                                   |            |           |

**1/16 Shilla Area: 129 Acres(52.20 Hect.)**

|                       |              |                                                    |
|-----------------------|--------------|----------------------------------------------------|
| Name of Kothi:- Himri | Boundaries:- |                                                    |
|                       | North        | Cultivation of Karam Dass and saoli Nal            |
|                       | East         | Phaun Nal and ridge upto chebini Path              |
|                       | South        | Majinwa Dank and demarcated line                   |
|                       | West         | Path from Damah and demarcated line by cultivation |

| Sr.No. | Name of rights            | Description of rights with limitation (viz. general rights and general and special conditions.                                                                                                     |
|--------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | Grazing                   | Cattle may graze.                                                                                                                                                                                  |
| 2      | Grazing                   | Sheep and cattle may graze.                                                                                                                                                                        |
| 3      | Manure leaves             | Kail may be lopped in Sawan, Bhadron upto one half their height subject to the general provision as to notice.                                                                                     |
| 4      | Feul, Fences              | Ban, Kashmal, Bekhal, Shegal, Brass may be cut without permission                                                                                                                                  |
| 5      | Wood for burning the dead | A Kail or chil tree may be cut for burying the dead subject the general provision to notice.                                                                                                       |
| 6      | Agricultural implements   | A Kail not exceeding one hath in girth at the ground may be cut for sanj of plough, but subject to the general provision.                                                                          |
| 7      | Building timber           | Kail & Chil will be given on application.                                                                                                                                                          |
| 4      | Right of way              | The following paths run through the forest:-<br>1. Jali to Lot                      Open to cattle, sheep and goats<br>2. Chebini to Lot<br>3. Damah to Lot<br>4. Chebini to Lot<br>(Via Chalaunt) |

| No.     | Name of hamlets & having rights | Rights                  | Remarks                                                                         |
|---------|---------------------------------|-------------------------|---------------------------------------------------------------------------------|
| 1       | Jali                            | Full Rights             | But sheep and goats grazing only Kartik, Magsir, Posh and Posh                  |
| 2       | Chebni                          | Full Rights             |                                                                                 |
| 3       | Damah                           | Full Rights             |                                                                                 |
| 4       | Chalaunt cultivation            | Do                      |                                                                                 |
| 5       | Nither Dehra                    | Fuel, Building timber   |                                                                                 |
| Thaches |                                 |                         |                                                                                 |
| 6       | Nither Pathi                    | Chalaun gahr song Basla | These gahrs are grazed for some 20 days in end of Baisak and beginning of Jait. |

### **Proprietary Rights**

The field No. 2058 area 0.3 pa. the proprietary right of Dila, son of Kheiru and Co. is included in theis forest and may be cultivated heretofore.

### ***1/17 Gwan Area: 1774 Acres(70.41Hect.)***

|                          |              |                                                           |
|--------------------------|--------------|-----------------------------------------------------------|
| Name of Kothi:- Sirigarh | Boundaries:- |                                                           |
|                          | North        | Pres Nal and Sarli Nal                                    |
|                          | East         | Sarli Nal                                                 |
|                          | South        | Kalai Nala and demarcated line by cultivation of Suidhar. |
|                          | West         | Demarcated line by cultivation of Suidhar                 |

| Sr.No. | Name of rights            | Description of rights with limitation (viz. general rights and general and special conditions.                                                                                  |
|--------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | Grazing                   | Cattle may graze.                                                                                                                                                               |
| 2      | Grazing                   | Sheep and cattle may graze.                                                                                                                                                     |
| 3      | Manure leaves             | Ban may be cut any height without permission                                                                                                                                    |
| 4      | Fodder leaves             | Kail may be lopped to one half of their height in Sawan & Bhadon subject to the general provision as to the size of tree.                                                       |
| 5      | Fuel                      | Dry fallen wood for fuel may be removed.                                                                                                                                        |
| 5      | Wood for burning the dead | A Kail tree may be cut for burning the dead subject the general provision to notice.                                                                                            |
| 6      | Agricultural implements   | Ban may be cut cut without permission. One Kail not exceeding one hath in girth at the ground may be cut for sanj of plough, but subject to the general provision as to notice. |
| 7      | Builddding timber         | Kail will be given on application.                                                                                                                                              |
| 4      | Right of way              | The following paths run through the forest:-<br>1. Suidhar to Himri      Open to cattle, sheep and goats<br>2. Soidhar to Sarli<br>3. Soidhar to Dalash<br>4. Sarli to Gwan     |

|  |  |                                                            |
|--|--|------------------------------------------------------------|
|  |  | 5. Suidhar to water in Pres Nal<br>6. Suidhar to Chedapani |
|--|--|------------------------------------------------------------|

| No. | Name of hamlets & having rights | Rights                                                        | Remarks                                                                                      |
|-----|---------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| 1   | Suidhar                         | Full Rights                                                   | But cattle graze only in Baisak, Jait Har, Sawan Bhadon and Assaug and sheep and goats only. |
| 2   | Gwan                            | Full Rights                                                   | do                                                                                           |
| 3   | Chpohal, Shawi                  | Full Rights except sheep & goats grazing                      | But cattle graz only in Sawan and Badon.                                                     |
| 4   | Sarli                           | Full Right except                                             | But sheep and goats graze only in Kartik, Mangsir, Chaitr, Baisak.                           |
| 5   | Rawali                          | Full Right except grazing                                     |                                                                                              |
| 6   | Chauki, Hoa, Chamarla           | Right 3,5,7,8                                                 |                                                                                              |
| 7   | Gancho, Phanar, Shagog          | Right 5,7                                                     |                                                                                              |
| 8   | Dalash                          | Dry fallen wood for fuel and Oak for agricultural implements. |                                                                                              |

### **Proprietary Rights**

No cultivation is included in this forests.

**1/18 Bhon Area: 100 Acres(40.47hect.)**

|                          |              |                                                           |
|--------------------------|--------------|-----------------------------------------------------------|
| Name of Kothi:- Sirigarh | Boundaries:- |                                                           |
|                          | North        | Pres Nal and Sarli Nal                                    |
|                          | East         | Sarli Nal                                                 |
|                          | South        | Kalai Nala and demarcated line by cultivation of Suidhar. |
|                          | West         | Demarcated line by cultivation of Suidhar                 |

| Sr.No. | Name of rights            | Description of rights with limitation (viz. general rights and general and special conditions.                                                                                  |
|--------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | Grazing                   | Cattle may graze.                                                                                                                                                               |
| 2      | Grazing                   | Sheep and cattle may graze.                                                                                                                                                     |
| 3      | Manure leaves             | Ban may be cut any height without permission                                                                                                                                    |
| 4      | Fodder leaves             | Kail may be lopped to one half of their height in Sawan & Bhadon subject to the general provision as to the size of tree.                                                       |
| 5      | Fuel                      | Dry fallen wood for fuel may be removed.                                                                                                                                        |
| 5      | Wood for burning the dead | A Kail tree may be cut for burning the dead subject the general provision to notice.                                                                                            |
| 6      | Agricultural implements   | Ban may be cut cut without permission. One Kail not exceeding one hath in girth at the ground may be cut for sanj of plough, but subject to the general provision as to notice. |
| 7      | Builddding timber         | Kail will be given on application.                                                                                                                                              |

|   |              |                                                                                                                                                                                                                                                                                                                                 |
|---|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4 | Right of way | <p>The following paths run through the forest:-</p> <ol style="list-style-type: none"> <li>1. Suidhar to Himri</li> <li>2. Soidhar to Sarli</li> <li>3. Soidhar to Dalash</li> <li>4. Sarli to Gwan</li> <li>5. Suidhar to water in Pres Nal</li> <li>6. Suidhar to Chedapani</li> </ol> <p>Open to cattle, sheep and goats</p> |
|---|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| No. | Name of hamlets & having rights | Rights                                                        | Remarks                                                                                      |
|-----|---------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| 1   | Suidhar                         | Full Rights                                                   | But cattle graze only in Baisak, Jait Har, Sawan Bhadon and Assaug and sheep and goats only. |
| 2   | Gwan                            | Full Rights                                                   | do                                                                                           |
| 3   | Chpohal, Shawi                  | Full Rights except sheep & goats grazing                      | But cattle graz only in Sawan and Badon.                                                     |
| 4   | Sarli                           | Full Right except                                             | But sheep and goats graze only in Kartik, Mangsir, Chaitr, Baisak.                           |
| 5   | Rawali                          | Full Right except grazing                                     |                                                                                              |
| 6   | Chauki, Hoa, Chamarla           | Right 3,5,7,8                                                 |                                                                                              |
| 7   | Gancho, Phanar, Shagog          | Right 5,7                                                     |                                                                                              |
| 8   | Dalash                          | Dry fallen wood for fuel and Oak for agricultural implements. |                                                                                              |

### **Proprietary Rights**

No cultivation is included in this forests.

**1/19 Lamidhar Area: 84 Acres(33.99hect.)**

|                          |              |                                                       |
|--------------------------|--------------|-------------------------------------------------------|
| Name of Kothi:- Sirigarh | Boundaries:- |                                                       |
|                          | North        | Arni-gar                                              |
|                          | East         | Bara Nal.                                             |
|                          | South        | Line from Sai-Shalaun below cultivation of Bargaidhar |
|                          | West         | Line by cultivation of Lamidhar Dogri                 |

| Sr.No. | Name of rights            | Description of rights with limitation (viz. general rights and general and special conditions. |
|--------|---------------------------|------------------------------------------------------------------------------------------------|
| 1      | Grazing                   | Cattle may graze.                                                                              |
| 2      | Grazing                   | Sheep may graze.                                                                               |
| 3      | Fuel                      | Dry fallen would may be remove.                                                                |
| 4      | Manure leaves             | Fallen leaves may be removed in Baisak, Jait, Har.                                             |
| 5      | Wood for burning the dead | One Chill tree may be cut for the burning for dead subject.                                    |
| 6      | Builddding timber         | Chil will be given on application                                                              |

|   |              |                                                                                                               |
|---|--------------|---------------------------------------------------------------------------------------------------------------|
| 7 | Right of way | A path from Ani to Nagan runs through this forest. It is used by sheep and goats, especially from Malana & C. |
|---|--------------|---------------------------------------------------------------------------------------------------------------|

| No. | Name of hamlets & having rights | Rights                               | Remarks                                               |
|-----|---------------------------------|--------------------------------------|-------------------------------------------------------|
| 1   | Bargai dhar                     | fuel Rights                          | But Sheep grazing only in Baisak.                     |
| 2   | Lamidhar Dogri                  | Grass                                | But Sheep and goat grazing only in Kartik, to Baisak. |
| 3   | Nevi (Ani Dogri)                | Manure Leaves fuel & building timber |                                                       |
| 4   | Artha                           | Fuel for burning the dead            |                                                       |
| 5   | Dogri                           | Fuel for burning the dead.           |                                                       |
| 6   | Damog Dogri                     | Fuel for burning the dead.           |                                                       |
| 7   | Mathila                         | Fuel                                 |                                                       |

### **Proprietary Rights**

No cultivation is included in this forests, but there is grass land, not held in proprietary right from which the grass may be cut as heretofore.

\*\*\*\*\*

**1/20 Dagrut Area: 89 Acres(36.02hect.)**

|                          |              |                     |
|--------------------------|--------------|---------------------|
| Name of Kothi:- Sirigarh | Boundaries:- |                     |
|                          | North        | Arnigar             |
|                          | East         | Sharan Dhar         |
|                          | South        | Cultivation of Shai |
|                          | West         | Dagrut Nal          |

| Sr.No. | Name of rights  | Description of rights with limitation (viz. general rights and general and special conditions.                                                                                                              |
|--------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | Grazing         | Cattle may graze.                                                                                                                                                                                           |
| 2      | Grazing         | Sheep may graze.                                                                                                                                                                                            |
| 3      | Fuel            | Dry fallen wood may be removed                                                                                                                                                                              |
| 4      | Manure leaves   | Dry fallen leaves may be removed in Jai Har.                                                                                                                                                                |
| 5      | Fodder          | Grass may be cut                                                                                                                                                                                            |
| 6      | Building timber | Chil will be given on application                                                                                                                                                                           |
| 7      | Right of way    | The following paths run through the forest:-<br>1. Ani to Nagan , a throughfare for sheep & goats<br>2. Ani to Runa , Use for cattle.<br>3. Path along sharan dhar Sheep and goats.<br>4. Dalash to Pathaun |
|        |                 |                                                                                                                                                                                                             |



| No. | Name of hamlets & having rights | Rights                        | Remarks |
|-----|---------------------------------|-------------------------------|---------|
| 1   | Shai                            | fuel Rights excepts building  |         |
| 2   | Runa                            | Timber                        |         |
| 3   | Ani                             | Full Rights                   |         |
| 4   | Dhar of Pharanali Phati         | Cattle grazing, Sheep Grazing |         |
| 5   | Sharandhar Dogri                | Grazz                         |         |
| 6   | Thabol                          |                               |         |
| 7   | Kasta                           |                               |         |
| 8   | Ladog                           |                               |         |
| 9   | Kawi                            | Grass                         |         |
| 10  | Jabro                           |                               |         |
| 11  | Tikri                           |                               |         |
| 12  | Sharan                          |                               |         |
| 13  | Thanali                         |                               |         |

### **Proprietary Rights**

No cultivation is included in this forests, but there is grass land, not held in proprietary right from which the grass may be cut as heretofore.

\*\*\*\*\*

**1/21 Kui Jakar Area: 31 Acres(12.54 hect.)**

|                          |              |                                                                       |
|--------------------------|--------------|-----------------------------------------------------------------------|
| Name of Kothi:- Sirigarh | Boundaries:- |                                                                       |
|                          | North        | Demarcated line by Cultivaton of Kasta                                |
|                          | East         | Demarcated line by Cultivaton of Kasta and path from Thanog to Thabol |
|                          | South        | Demarcated line by Cultivaton of Kasta and path from Ladog to Thabol  |
|                          | West         | Demarcated line by Cultivaton of Kasta and path thabol to Kasta       |

| Sr.No. | Name of rights            | Description of rights with limitation (viz. general rights and general and special conditions.     |
|--------|---------------------------|----------------------------------------------------------------------------------------------------|
| 1      | Grazing                   | Cattle may graze.                                                                                  |
| 2      | Wood for burning the dead | One chill tree may be cut for the burning the dead, subject to the general provision as to notice. |

|   |                        |                                                                                                                                    |
|---|------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| 3 | Agricultural implement | Chill for jol (clod breaker) will be given on application.                                                                         |
| 4 | Right of way           | The following paths run through the forest:-<br>1. Thanog to Kasta , Open to cattle<br>2. Kasta to Panakhul phat, Sheep and goats. |

| No. | Name of hamlets & having rights | Rights     | Remarks |
|-----|---------------------------------|------------|---------|
| 1   | Thanog                          | Full Right |         |

### **Proprietary Rights**

No cultivation is included in this forests, but there is grass land, not held in proprietary right from which the grass may be cut as heretofore.

\*\*\*\*\*

### ***1/22 Baro Bahrd Area: 157 Acres(63.54hect.)***

|                          |              |                                                                                         |
|--------------------------|--------------|-----------------------------------------------------------------------------------------|
| Name of Kothi:- Sirigarh | Boundaries:- |                                                                                         |
|                          | North        | Bahrd Nal, Nabes nal and demarcated line by cultivation of Kawi, Ladog, Barog and Kasta |
|                          | East         | Barad Nal and demarcated line by cultivation of Barog.                                  |
|                          | South        | Demarcated line by cultivation of Tharog and Basta Dhar                                 |
|                          | West         | Demarcated line by cultivation of baro Dogri and Dhar.                                  |

| Sr.No. | Name of rights            | Description of rights with limitation (viz. general rights and general and special conditions.                                                                                                                                                                                                                                                          |
|--------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | Grazing                   | Cattle may graze.                                                                                                                                                                                                                                                                                                                                       |
| 2      | Grazing                   | Sheep and goat may graze.                                                                                                                                                                                                                                                                                                                               |
| 3      | Fuel                      | Ban, Mohru Kathi Murat may be lopped to any hight                                                                                                                                                                                                                                                                                                       |
| 4      | Manure leaves             | Kail and rai may be lopped to one half their height in Sawan Bhadron subject to the General provision as to the size of the trees.                                                                                                                                                                                                                      |
| 5      | Fuel, fences              | Dry fallen wood may be removed and green                                                                                                                                                                                                                                                                                                                |
| 6      | Charcoal                  | Kail and rai may be lopped for charcoal to one half their height subject to the general provision as to the sized of the tress but the charcoal must be burned outside the limits of the forest.                                                                                                                                                        |
| 7      | Wood for burning the dead | One kail or rai tree may be cut for burning the dead subject to the general provision as to notice.                                                                                                                                                                                                                                                     |
| 8      | Agricultural implements   | Ban may be cut without permission for the hal. One akil or rai tree not exceeding a hath in girth at the ground may be cut for the sanj of the plough, and one kail tree not exceeding two haths in girth at the ground may be cut for the shamai of the plough , subject in both case to the general provision as to notice. For the Jol, Kail will be |

|    |                 |                                                                                                                                                                                                                                      |
|----|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |                 | given on application.                                                                                                                                                                                                                |
| 9  | Building timber | Kail rai will be given on application.                                                                                                                                                                                               |
| 10 | Right of way    | <ol style="list-style-type: none"> <li>1. Barog to Ladog</li> <li>2. Thanog to Ladog</li> <li>3. Baro to Ladog</li> <li>4. Barog to Kawi</li> <li>5. Tikri to Dhar</li> <li>6. Tikri to Kawi</li> <li>7. Larhali to Kasta</li> </ol> |

| No. | Name of hamlets & having rights         | Rights                                | Remarks                                              |
|-----|-----------------------------------------|---------------------------------------|------------------------------------------------------|
| 1   | Ladog Kawi, Kasta                       | Full rights                           | But sheep grazing only in Kartik Mangsir and Baisakh |
| 2   | Barog                                   | Full rights except Oak for the plough | But Sheep grazing only in Kartik Mangsir and Daisakh |
| 3   | Tikri , Jabro                           | Full rights except 7 & 8              |                                                      |
| 4   | Dhar of Phara Nali                      | Rights 3, 4, 8, 9                     |                                                      |
| 5   | Thabol Kaula                            | Rights 5, 8 & 9                       |                                                      |
| 6   | Shai, Runa                              | Rights 8 & 9                          |                                                      |
| 7   | Ani, Mathila                            | Rights 8 & 9                          |                                                      |
| 8   | Thanog                                  | Rights 2, 5, 8 , 9                    | But Sheep grazing only in Kartik Mangsir and Baisakh |
| 9   | Dasholg, Chauki, Arha, Bargaidhar Dogri | Rights 8 & 9                          |                                                      |
| 10  | Olwa                                    | Rights 5, 7, 8 & 9                    |                                                      |

### **Proprietary Rights**

The following fields are included in the forest, and may be cultivated as heretofore:-

| Khasra No. | Proprietor                    | Area | Bh. Ph. |
|------------|-------------------------------|------|---------|
| 1.         | Daulu & C. Sons of Jati Kanet | 0    | 12      |
| 2.         | Arga Son of Keshab Kanet      | 0    | 6       |
| 3.         | Nangan & C. Khata 59          | 0    | 4       |
| 4.         | Nangan & C. Khata 54          | 0    | 12      |

\*\*\*\*\*

**1/22 Baro Bahrd Area: 157 Acres(63.54hect.)**

|                          |              |                                                            |
|--------------------------|--------------|------------------------------------------------------------|
| Name of Kothi:- Sirigarh | Boundaries:- |                                                            |
|                          | North        | Bahrd Nal, Nabes nal and demarcated line by cultivation of |

|  |       |                                                         |
|--|-------|---------------------------------------------------------|
|  |       | Kawi, Ladog, Barog and Kasta                            |
|  | East  | Barad Nal and demarcated line by cultivation of Barog.  |
|  | South | Demarcated line by cultivation of Tharog and Basta Dhar |
|  | West  | Demarcated line by cultivation of baro Dogri and Dhar.  |

| Sr.No. | Name of rights            | Description of rights with limitation (viz. general rights and general and special conditions.                                                                                                                                                                                                                                                                                |
|--------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | Grazing                   | Cattle may graze.                                                                                                                                                                                                                                                                                                                                                             |
| 2      | Grazing                   | Sheep and goat may graze.                                                                                                                                                                                                                                                                                                                                                     |
| 3      | Fuel                      | Ban, Mohru Kathi Murat may be lopped to any high                                                                                                                                                                                                                                                                                                                              |
| 4      | Manure leaves             | Kail and rai may be lopped to one half their height in Sawan Bhadron subject to the General provision as to the size of the trees.                                                                                                                                                                                                                                            |
| 5      | Fuel, fences              | Dry fallen wood may be removed and green                                                                                                                                                                                                                                                                                                                                      |
| 6      | Charcoal                  | Kail and rai may be lopped for charcoal to one half their height subject to the general provision as to the sized of the tress but the charcoal must be burned outside the limits of the forest.                                                                                                                                                                              |
| 7      | Wood for burning the dead | One kail or rai tree may be cut for burning the dead subject to the general provision as to notice.                                                                                                                                                                                                                                                                           |
| 8      | Agricultural implements   | Ban may be cut without permission for the hal. One akil or rai tree not exceeding a hath in girth at the ground may be cut for the sanj of the plough, and one kail tree not exceeding two haths in girth at the ground may be cut for the shamai of the plough , subject in both case to the general provision as to notice. For the Jol, Kail will be given on application. |
| 9      | Building timber           | Kail rai will be given on application.                                                                                                                                                                                                                                                                                                                                        |
| 10     | Right of way              | 8. Barog to Ladog<br>9. Thanog to Ladog<br>10. Baro to Ladog<br>11. Barog to Kawi<br>12. Tikri to Dhar<br>13. Tikri to Kawi<br>14. Larhali to Kasta                                                                                                                                                                                                                           |

| No. | Name of hamlets & having rights | Rights                                | Remarks                                              |
|-----|---------------------------------|---------------------------------------|------------------------------------------------------|
| 1   | Ladog Kawi, Kasta               | Full rights                           | But sheep grazing only in Kartik Mangsir and Baisakh |
| 2   | Barog                           | Full rights except Oak for the plough | But Sheep grazing only in Kartik Mangsir and Daisakh |
| 3   | Tikri , Jabro                   | Full rights except 7 & 8              |                                                      |
| 4   | Dhar of Phara Nali              | Rights 3, 4, 8, 9                     |                                                      |
| 5   | Thabol Kaula                    | Rights 5, 8 & 9                       |                                                      |
| 6   | Shai, Runa                      | Rights 8 & 9                          |                                                      |

|    |                                         |                    |                                                      |
|----|-----------------------------------------|--------------------|------------------------------------------------------|
| 7  | Ani, Mathila                            | Rights 8 & 9       |                                                      |
| 8  | Thanog                                  | Rights 2, 5, 8 , 9 | But Sheep grazing only in Kartik Mangsir and Baisakh |
| 9  | Dasholg, Chauki, Arha, Bargaidhar Dogri | Rights 8 & 9       |                                                      |
| 10 | Olwa                                    | Rights 5, 7, 8 & 9 |                                                      |

### **Proprietary Rights**

The following fields are included in the forest, and may be cultivated as heretofore:-

| Khasra No. | Proprietor                    | Area |     |
|------------|-------------------------------|------|-----|
|            |                               | Bh.  | Ph. |
| 5.         | Daulu & C. Sons of Jati Kanet | 0    | 12  |
| 6.         | Arga Son of Keshab Kanet      | 0    | 6   |
| 7.         | Nangan & C. Khata 59          | 0    | 4   |
| 8.         | Nangan & C. Khata 54          | 0    | 12  |

\*\*\*\*\*

### ***1/23 Olinal Area: 128 Acres(51.80hect.)***

|                          |                     |                                                                                    |
|--------------------------|---------------------|------------------------------------------------------------------------------------|
| Name of Kothi:- Sirigarh | <b>Boundaries:-</b> |                                                                                    |
|                          | North               | Path from Thanog to Buhan and demarcated line by cultivation of Tharog and Buhan.  |
|                          | East                | Path from Tharog to Buhan, and demarcation line by cultivation of Kanda and Buhan. |
|                          | South               | Basta Dhar of Sirigarh Dhar                                                        |
|                          | West                | Srigarh Dhar and path                                                              |

| Sr.No. | Name of rights            | Description of rights with limitation (viz. general rights and general and special conditions.                                                                                        |
|--------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | Grazing                   | Cattle may graze                                                                                                                                                                      |
| 2      | Grazing                   | Sheep and goats may graze.                                                                                                                                                            |
| 3      | Fudder leaves             | Mohru, Kathi, Murat may be lopped to any hight without permission                                                                                                                     |
| 4      | Manure leaves             | Kail and Rai may be lopped to one half of their height in Sawan, Bhadon subject the general provision as to size of the tree.                                                         |
| 5      | Fuel, fences              | Dry fallen wood may be removed and Mohru Kathi, Shegal, Rikhal, Bras \, kashmal may be cut without permission.                                                                        |
| 6      | Wood for burning the dead | One kail or rai tree may be cut for burning the dead subject to the general provision as to notice.                                                                                   |
| 7      | Agricultural implements   | Jamu may be cut without permission. One Kail or Rai tree not exceeding a hath in girth at the ground may be cut for the sanj of plough subject to the general provision as to notice. |
| 8      | Building timber           | Kail rai will be given on application.                                                                                                                                                |

|   |              |                                                                                                                                                                                                                                      |
|---|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9 | Right of way | The following paths run through on application<br>1) Madhel-thana to Tharog- Used for cattle, sheep & goats.<br>2) Madhel-thana to Buhan- Used for cattle, sheep & goats<br>3) Madhel-thana to Kanda- Used for cattle, sheep & goats |
|---|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| No. | Name of hamlets & having rights          | Rights                             | Remarks                                                       |
|-----|------------------------------------------|------------------------------------|---------------------------------------------------------------|
| 1   | Tharog, Buhan Dhar of Jabo Phati Larhali | Full rights                        | But sheep and goat grazing only in Kartik Mangsir and Baisakh |
| 2   | Meog, Tipri, Kotnu, Bangu Jakar          | Rights 4, 5, 6, 7, 8               |                                                               |
| 3   | Kanda                                    | Full Rights except cattle grazing. | But sheep and goat grazing only in Kartik Mangsir and Baisakh |

### **Proprietary Rights**

No cultivation is included in this forests.

\*\*\*\*\*

**1/24 Shilla Area: 228 Acres(92.26hect.)**

|                          |                     |                                                                                                             |
|--------------------------|---------------------|-------------------------------------------------------------------------------------------------------------|
| Name of Kothi:- Sirigarh | <b>Boundaries:-</b> |                                                                                                             |
|                          | North               | Demarcated line by cultivation of maroldal, lutui-bil, phabel and patharage, kathilnal and jammu-age thach. |
|                          | East                | Demarcated line by thada-age.                                                                               |
|                          | South               | Jagatpur Dhar and cultivation of Shekta.                                                                    |
|                          | West                | Jamuro Nal.                                                                                                 |

| Sr.No. | Name of rights          | Description of rights with limitation (viz. general rights and general and special conditions.                                                                                |
|--------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | Grazing                 | Cattle may graze                                                                                                                                                              |
| 2      | Grazing                 | Sheep and goats may graze.                                                                                                                                                    |
| 3      | Fodder leaves           | Kathi, Murat, may be lopped to any height without permission.                                                                                                                 |
| 4      | Manure leaves           | Kail and Rai may be lopped to one half of their height in Sawan, Bhadon subject the general provision as to notice.                                                           |
| 5      | Fuel, fences            | Kathi, Shegal, Bras may be cut without permission.                                                                                                                            |
| 6      | Agricultural implements | Jamu may be cut without permission. One Rai tree not exceeding a hath in girth at the ground may be cut for the sanj of plough subject to the general provision as to notice. |
| 7      | Building timber         | Kail rai will be given on application.                                                                                                                                        |
| 8      | Wood for burning the    | One Kail or Rai tree may be cut for burning of dead, subject to the                                                                                                           |

|   |              |                                                                                                                                                                                                                                  |
|---|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   | dead.        | general provisionas to notice.                                                                                                                                                                                                   |
| 9 | Right of way | The following paths run through the forest:-<br>1) Road to Shimla.<br>2) Road to Nither. Open to cattle, sheep & goats<br>3) Lutu-bil to Hudka pani<br>4) Kanda to Hudka-pani<br>5) Kanda to Hudka-pani<br>6) Kanda to Kanda-bai |

| No. | Hamlets & having rights | Rights                                        | Remarks                                                        |
|-----|-------------------------|-----------------------------------------------|----------------------------------------------------------------|
| 1   | Lutui-bil Maroldal      | Full rights                                   | But sheep and goat grazing only in Kartik, Mangsir and Baisakh |
| 2   | Phabel                  | Full rights except wood for burning the dead. |                                                                |
| 3   | Jammu-ro                |                                               | But sheep and goat grazing only in Kartik Mangsir and Baisakh  |
| 4   | Kathila                 |                                               |                                                                |
| 5   | Tagel                   |                                               |                                                                |
| 6   | Namhong                 | Cattle, sheep & goat grazing                  | -do-                                                           |
| 7   | Chanoti                 |                                               |                                                                |
| 8   | Kelu-dal                | Full rights except grazing                    |                                                                |
| 9   | Gung,Katar              |                                               |                                                                |
| 10  | Mashog                  |                                               |                                                                |
| 11  | Madhel                  |                                               |                                                                |
| 12  | Ramoi                   | Rights 5,6,7,8                                |                                                                |
| 13  | Matroli                 |                                               |                                                                |
| 14  | Chalol                  |                                               |                                                                |

### **Proprietary Rights**

No cultivation is included in this forests.

\*\*\*\*\*

### ***1/25Phon Area 82 Acer (33.18 Hactare)***

|                        |                     |                                         |
|------------------------|---------------------|-----------------------------------------|
| Name of Kothi:- Jalori | <b>Boundaries:-</b> |                                         |
|                        | North               | Demarcated line by cultivation of Darli |
|                        | East                | Baghala Nal                             |

|  |       |                                       |
|--|-------|---------------------------------------|
|  | South | Demaaracated line above Kanshal Dogri |
|  | West  | Kanashal Nal                          |

| Sr.No. | Name of rights | Description of rights with limitation (viz. general rights and general and special conditions.                                                                   |
|--------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | Grazing        | Cattle may graze                                                                                                                                                 |
| 2      | Grazing        | Sheep and goats may graze.                                                                                                                                       |
| 3      | Right of way   | The following paths run<br>Through the forest:-<br>1) Palli to Jatu-cho Open for cattle, sheep & goats<br>2) Kutua to ghrats in Gatar gad<br>3) Kuta to Jatu-cho |

| No. | Hamlets & having rights | Rights      | Remarks                                    |
|-----|-------------------------|-------------|--------------------------------------------|
| 1   | Chaklel                 | Full rights | But sheep and goat grazing only in Kartik, |
| 2   | Pali                    | Full rights |                                            |

### **Proprietary Rights**

No cultivation is included in this forests.

### ***1/26 Parkotshil Jukani Area 340Acre (137.59 Hactare)***

|                        |                     |                                                                                   |
|------------------------|---------------------|-----------------------------------------------------------------------------------|
| Name of Kothi:- Jalori | <b>Boundaries:-</b> |                                                                                   |
|                        | North               | Thali Dhar                                                                        |
|                        | East                | Kushugar                                                                          |
|                        | South               | Ridge below Kanda and demarcated line above cultivation of Kanda & Kashan Dogri   |
|                        | West                | Jaglot Dhar demarcated line under cultivation of Khemi Ram, Parkot and Thalidhar. |

| Sr.No. | Name of rights | Description of rights with limitation (viz. general rights and general and special conditions.                                       |
|--------|----------------|--------------------------------------------------------------------------------------------------------------------------------------|
| 1      | Grazing        | Cattle may graze                                                                                                                     |
| 2      | Grazing        | Sheep and goats may graze.                                                                                                           |
| 3      | Manure leaves  | Kai,, Tosh may be lopped in Parkotshil to one half their heigh<br>Sawan, Bhaddon, Subjct to the general provisions as to the size of |



|   |                           |                                                                                                                                                                                                                                                                                           |
|---|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   |                           | the trees. Fallen leaves may be taken from Jaukani in Har.                                                                                                                                                                                                                                |
| 4 | Wood for burning the dead | One Kail or chill tree may be cut for burning the dead subject to the general provision as to notice.                                                                                                                                                                                     |
| 5 | Agricultural implements   | A Kail tree not exceeding a hath in girth at the ground may be cut for the sanj of the plough subject to the general.                                                                                                                                                                     |
| 6 | Building Timber           | Kail will be given on application.                                                                                                                                                                                                                                                        |
| 7 | Right of way              | The following paths run through the forest:-<br>1) Kanda to Katui<br>2) Kanda to Parkot<br>3) Kanda to Kumand<br>4) Parkot to Ragel Open to cattle, sheep & goats.<br>5) Parkot to Nagot<br>6) Dagsari to Ragel<br>7) Path alongw Thali Dhar<br>8) Shimla Road<br>9) Jaglot to Jakni Pani |

| No. | Hamlets & having rights | Rights                                                                                                     | Remarks                                                                 |
|-----|-------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| 1   | Parkot, Alocha          | Full rights in Parkotshill                                                                                 | But sheep and goats grazing only in Kartik, Mangsir, Posh Magh & Phagon |
| 2   | Dagsar, keloidhar       | Manure leaves and agricultural implements in Parkotshill and ghayan in Jakani.                             | Magh & Phagon                                                           |
|     | Pali                    | Manure leaves & wood for burning the dead in Parkotshil                                                    |                                                                         |
|     | Ragel, Chakal, Tipar    | Full rights in Parkotshil<br>But Tiper has no sheep and those of ragel and Chakel graze only in Posh Magah |                                                                         |
|     | Kmand                   | Agricultural implements in Parkotshill                                                                     |                                                                         |
|     | Kanda, Saral            | Full Rithts in Jakani                                                                                      | But sheep grazing only in from Kartik to Jait (Both inclusive.)         |
|     | Dalot                   |                                                                                                            |                                                                         |
|     | Bali-ol                 | Ghayan in Jakani                                                                                           |                                                                         |

### **Proprietary Rights**

No cultivation is included in this forests, grass may be cut as heretofore from ghayans included.

**1/27 Boong Bindra Ban Area 383Acre (151.35 Hactare)**

|                        |                     |
|------------------------|---------------------|
| Name of Kothi:- Jalori | <b>Boundaries:-</b> |
|------------------------|---------------------|

|  |       |                                                                                                      |
|--|-------|------------------------------------------------------------------------------------------------------|
|  | North | Jadar Nal and demarcation line by cultivation of Kathol & Pawi                                       |
|  | East  | Bung dhar or Thali dhar cultivation of Sisu Koli                                                     |
|  | South | Boundary of Khani & Koela phaties, demarcated line under cultivation of Dilari and Suri, Gadari Nal. |
|  | West  | Khaner gar.                                                                                          |

| Sr.No. | Name of rights            | Description of rights with limitation (viz. general rights and general and special conditions.                                                                                                                                                                                              |
|--------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | Grazing                   | Cattle may graze                                                                                                                                                                                                                                                                            |
| 2      | Grazing                   | Sheep and goats may graze.                                                                                                                                                                                                                                                                  |
| 3      | Manure leaves             | Kilt trees may be lopped in Bung to one half their height in Sawan, Bhadon, but subject to the general condition as to the size of the tree. Fallen leaves may be taken from Bindraban in Har.                                                                                              |
|        | Fuel                      | Dry fallen wood may be taken.                                                                                                                                                                                                                                                               |
| 4      | Wood for burning the dead | One Kail or chill tree may be cut for burning the dead subject to the general provision as to notice.                                                                                                                                                                                       |
| 5      | Agricultural implements   | A Kail tree not exceeding a hath in girth at the ground may be cut for the sanj of the plough subject to the general.                                                                                                                                                                       |
| 6      | Building Timber           | Kail and chill will be given on application.                                                                                                                                                                                                                                                |
| 7      | Right of way              | The following paths run through the forest:-<br>1. Shimla road<br>2. Sathol to Janja Kothi<br>3. Pawi to Janja Kothi<br>4. Kot Dogra to Alocha<br>5. Chamatan to Pali<br>6. Charmatan to Nagidhar<br>7. Kaloti Dogra to Jadar<br>8. Kamand to Grathin Jadar Nal<br>9. Path along Thali dhar |

| No. | Hamlets & having rights | Rights                             | Remarks                                                                                                                |
|-----|-------------------------|------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| 1   | Jadar, Bali             | Full rights in Bung                | But sheep and goats grazing only in Posh & Magh                                                                        |
| 2   | Chauki, Doel            |                                    |                                                                                                                        |
| 3   | Charmatan               |                                    |                                                                                                                        |
| 4   | Thach Nal               |                                    |                                                                                                                        |
| 5   | Jauja dim Dogra         | Full rights in Bung                | But catle are present only in Kartik, Mangsir, Chitra and Baisakh and sheep in Kartik. The Dogri is inside the forest. |
| 6   | Kathel                  | Full rithts in Bung except grazing |                                                                                                                        |

|    |                                              |                                                |                                                                      |
|----|----------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|
| 7  | Sakim Dogra                                  | Cattle grazing                                 |                                                                      |
| 8  | Shaigar Dogra                                | Sheep Grazing                                  |                                                                      |
| 9  | Kaloti Dogra                                 | Fuel, building & grass in Sakiran              |                                                                      |
| 10 | Gadari Uperla<br>Gadari Jila<br>Gadari Dogra | Full rights in Sakiran except grazing of Sheep |                                                                      |
| 11 | Rahel Doel                                   | Grass ghayans in Sakiran                       |                                                                      |
| 12 | Shiliban Pawi                                | Full rights in Bindraban                       | But sheep and goat graze only from Kartik to Baisak (both inclusive) |
| 13 | Kathol Bandil                                | Full rights in Bindraban                       |                                                                      |
| 14 | Kanagri Jan Dogra<br>Kathol Dogra            | Full rights in Bindraban                       | But riths are exercised only from Kartik to Baisak (both inclusive)  |
| 15 | Saujani Dabar                                | Full rights in Bindraban                       |                                                                      |
| 16 | Dhanal Pandog                                | Full rights in Bindraban except grazing        |                                                                      |

### **Proprietary Rights**

The Janja dim Dogra with an area of 1 bh. Cultivated is in Bung, and the Shakiran Dogra with in area of cultivation is in Shikaran. The land may be cultivated as heretofore.

One number 2268 grass has also been included and beside it other ghayans not held in proprietary right. Grass may be cut as heretofore. There are several water mills in the jadar Nal, the boundary of the forest.

### ***1/28 Kotadhar Raichathach Area 349Acre (141.15 Hactare)***

|                        |                     |                                                                    |
|------------------------|---------------------|--------------------------------------------------------------------|
| Name of Kothi:- Jalori | <b>Boundaries:-</b> |                                                                    |
|                        | North               | Demarcated line by Shimla road and Rikhaigar                       |
|                        | East                | Demarcated line tp Bhata Dhartu on Kanda Dhar.                     |
|                        | South               | Demarcated line Shimla road and ridge behind Gagina into Rakhaigar |
|                        | West                | Choad Nal demarcated line by Kota-dhatu.                           |

| Sr.No. | Name of rights | Description of rights with limitation (viz. general rights and general and special conditions. |
|--------|----------------|------------------------------------------------------------------------------------------------|
| 1      | Grazing        | Cattle may graze                                                                               |
| 2      | Grazing        | Sheep and goats may graze.                                                                     |
| 3      | Fodder leaves  | Ban, Kathi, Pothi, Dalenthi may be lopped to any height without                                |

|   |                           |                                                                                                                                                                                                                                                |
|---|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   |                           | permission.                                                                                                                                                                                                                                    |
| 4 | Manure leaves             | Kail and Rai may be lopped to one half their height in Sawan & Bhadon subject to the genral provision as to size of the trees.                                                                                                                 |
| 5 | Fuel, fence               | Kashmal, Kathmuin, Kathi, Pothi, Iron Bras may be cut without permission.                                                                                                                                                                      |
| 6 | Wood for burning the dead | One Kail or Rai tree may be cut for burning the dead subject to the general provision as to notice.                                                                                                                                            |
| 7 | Agricultral implements    | Ban and Palan may be cut without permission.                                                                                                                                                                                                   |
| 8 | Building Timber           | Kail and chill will be given on application.                                                                                                                                                                                                   |
| 9 | Right of way              | The following paths run through the forest:-<br>1. Shimla road<br>2. Patarna to Kot<br>3. Chamunagar to Kot-Open to cattle, Sheep & goats<br>4. Chaini to Kindar-Ba<br>5. Chaini to Mut Dogri Shagag to Kuda-ol<br>Slate quarry) for men only. |

| No. | Hamlets & having rights | Rights                                                          | Remarks                                                                                                                   |
|-----|-------------------------|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| 1   | Gagani, Chaini, Mahwi   | Full rights in Raicha Thach.                                    | But Raibagh does not graze Raibagh sheep and the other villagers graze sheep only in kartik, Mangsir, Posh, Magh, Phagon. |
| 2   | Batala                  | Right 1, 4, 7, 8 in Raichthach.,                                |                                                                                                                           |
| 3   | Dadni                   | Full rights in Raichathach except grazing.                      |                                                                                                                           |
| 4   | Gagani, Bagthori        | Ghayans inKothadhar                                             |                                                                                                                           |
| 5   | Chamungar               | Full rights on Kotadhar                                         | But SheepGrazzing only in Magh & Phagon.                                                                                  |
| 6   | Shai                    | Fodder leaves in Kothadhar                                      |                                                                                                                           |
| 7   | Kot                     | Fodder leaves in Kotadhar. Cattle grazing & ghayans in Kotadhar |                                                                                                                           |

### **Proprietary Rights**

Grass land No.s 1502, 1501, 1466, 1464, 1462, 1456, 1459, 1452, 1458, 1461, 1467, 1465 recorded at revenue settlement are included in the forest grass may be cut as heretofore.

\*\*\*\*\*

### ***1/29 Chajala Area 482 Acres (195.06 Hactare)***

|                        |                     |            |
|------------------------|---------------------|------------|
| Name of Kothi:- Jalori | <b>Boundaries:-</b> |            |
|                        | North               | Reunsi Nal |
|                        | East                | Khaner Gar |
|                        | South               | Odigai Nal |

|  |      |                            |
|--|------|----------------------------|
|  | West | Chatar Dhar (Kalandi Dhar) |
|--|------|----------------------------|

| Sr.No. | Name of rights          | Description of rights with limitation (viz. general rights and general and special conditions.                                                                                          |
|--------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | Fodder leaves           | Ban may lopped to any height without permission                                                                                                                                         |
| 2      | Fuel                    | Dry fallen wood may be removed.                                                                                                                                                         |
| 3      | Agricultural implements | Ban, Jamu & Palan may be cut without permission. A Rai tree not exceeding one hah in girth at the ground, may be cut for sanj of plough, subject to the general provision as to notice. |
| 4      | Right of way            | The following paths run through the forest:-<br>1. Sara thach to Kanda<br>2. Janja gai to Lohal- For man only                                                                           |

| No. | Hamlets & having rights          | Rights                               | Remarks |
|-----|----------------------------------|--------------------------------------|---------|
| 1   | Shoda, Kothi Nali Bahl, Karad    | Full rights in also Ghayans & Nirgal |         |
| 2   | Phruti                           | Agricultural implements              |         |
| 3   | Banala                           | Full rights also ghayans             |         |
| 4   | Kanda                            | Nirgal                               |         |
| 5   | Chirmol, Koli, Lohal             | Ghayans                              | .       |
| 6   | Didi, Kadoran, Thanadhar, Pakrer | Aggricultral implements              |         |
| 7   | Bargol                           | Ban for plough                       |         |

### **Proprietary Rights**

No cultivation is included in this forest, grass land is not held in proprietary rights, but grass may be cut heretofore.

\*\*\*\*\*

### ***1/30 Chotar Area 740 Acres (299.46 Hactare)***

|                        |                     |                                                                       |
|------------------------|---------------------|-----------------------------------------------------------------------|
| Name of Kothi:- Jalori | <b>Boundaries:-</b> |                                                                       |
|                        | North               | Odigai Nal                                                            |
|                        | East                | Khaner gar and demcated line excluding cultivation on its right bank  |
|                        | South               | Chari Nal & demarcated line by cultivation of Upper and lower Patarna |
|                        | West                | Chotar Dhar or Kalandi Dhar                                           |

| Sr.No. | Name of rights            | Description of rights with limitation (viz. general rights and general and special conditions.                                                                                                       |
|--------|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | Grazing                   | Cattle may graze                                                                                                                                                                                     |
| 2      | Grazing                   | Sheep and goats may graze.                                                                                                                                                                           |
| 3      | Fodder leaves             | Ban, Mohru, Kharshu, Kathi, Pothi, Reuns may may be lopped to any height without permission                                                                                                          |
| 4      | Manure leaves             | Kail and Rai may be lopped to one half their height in Sawan & Bhadon subject to the genral provision as to notice.                                                                                  |
| 5      | Fuel, fence               | Ban, Mohru, Kathi, Iron Bras Kathmulu, Reuns may be cut without permission.                                                                                                                          |
| 6      | Wood for burning the dead | One Kail or Rai tree may be cut for burning the dead subject to the general provision as to notice.                                                                                                  |
| 7      | Agricultral implements    | Ban, Palan jamu Mandru may be cut without permission. A Rai tree not exceeding one hath in girth at the ground may be cut for the sanj of the plough, subject to the general provision as to notice. |
| 8      | Building Timber           | Kail and chill will be given on application.                                                                                                                                                         |
| 9      | Right of way              | Kail and Rai will be given on application.<br>1. Kalandigai to Kot Open to cattle, sheep & goats.<br>2. Oligai to Kanda                                                                              |

| No. | Hamlets & having rights                                  | Rights                          | Remarks                                                                                                                      |
|-----|----------------------------------------------------------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| 1   | Patarna                                                  | Full rights                     | But Sheep and goats graze only in Kartik, Mangsir, Posh, Magh Phagon and jait. Narot , Mishni-ol are inside the demarcation. |
| 2   | Jhili Patarna                                            |                                 |                                                                                                                              |
| 3   | Barti                                                    |                                 |                                                                                                                              |
| 4   | Narot, Mishni-ol                                         |                                 | Sheep Mangsir posh, Magh Phagon.                                                                                             |
| 5   | Kutu                                                     |                                 |                                                                                                                              |
| 6   | Gaba and Kurki                                           | Agricultural Implements ghayans |                                                                                                                              |
| 7   | Bakhanda                                                 |                                 |                                                                                                                              |
| 8   | Kaleda                                                   |                                 |                                                                                                                              |
| 9   | Malchani                                                 |                                 |                                                                                                                              |
| 10  | Bahl, Pharuti                                            | Ghayan                          |                                                                                                                              |
| 11  | Khanwi Ragich, Damar Gangi, Chaini Mahwi of Jalori Kothi |                                 |                                                                                                                              |

### **Proprietary Rights**

Narot Dogri of Jaon, Mishani –Ol Dogri and Kutu Dogri included in the forest. The land may be cultivated as heretofore. Two Pieces of grass land, No. 11 and 12 are also inside the forest grass may be cut as heretofore.

\*\*\*\*\*

**1/31 Jakro Area 300 Acres (121.41 Hactare)**

|                                 |                     |                                                                       |
|---------------------------------|---------------------|-----------------------------------------------------------------------|
| Name of Kothi:- Ragupur & Janja | <b>Boundaries:-</b> |                                                                       |
|                                 | North               | Chari Nal                                                             |
|                                 | East                | Demarcated line above line cultivation of lamidhar, Bagi nad Banshira |
|                                 | South               | Marogidhar behind Sataihan                                            |
|                                 | West                | Jakru Or Kalandidhar                                                  |

| Sr.No. | Name of rights          | Description of rights with limitation (viz. general rights and general and special conditions.                                                                                 |
|--------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | Fodder leaves           | Kathi and Ban may be lopped to any height without permission.                                                                                                                  |
| 2      | Fuel                    | Dry fallen wood may be removed.                                                                                                                                                |
| 3      | Agricultural implements | Ban, Jamu, Mandru, Palan may be cut without permission.                                                                                                                        |
| 4      | Right of way            | The following paths run through the forest:-<br>1. Tipar to Bansira- Open to Cattle sheep & goats<br>2 Kalandi Gai to LamiDhar<br>3 Bansira to Satain<br>4 Banshira to Patarna |
|        |                         |                                                                                                                                                                                |

| No. | Hamlets & having rights                                           | Rights                                                         | Remarks |
|-----|-------------------------------------------------------------------|----------------------------------------------------------------|---------|
| 1   | Lamidhar                                                          | Full rights                                                    |         |
| 2   | Bagi                                                              |                                                                |         |
| 3   | Banshira                                                          |                                                                |         |
| 4   | Krot, Kalal, Chanas, Pokhar, Tipar, Khaneri, Uperli Khaneri Jhili | Agricultural implements Nirga, Shakair, Chilocha and satpacho. |         |
| 5   | Ladar                                                             | Shakair, Chilocha and Satpacho                                 |         |
| 6   | Karana Phati                                                      | Agricultural implements in Bansira Nal                         |         |

### **Proprietary Rights**

One field No. 1409 and area 0-1 ph. Belonging to Kao, son to Situ Kohli of Lamidhar is included in the forest and may be cultivated as heretofore.

\*\*\*\*\*

### ***1/32 Kalandidhar Area 178Acres (72.03 Hactare)***

|                         |                     |                                                                                                                      |
|-------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|
| Name of Kothi:- Ragupur | <b>Boundaries:-</b> |                                                                                                                      |
|                         | North               | Demarcated line by Sarathach and Ajiadha                                                                             |
|                         | East                | Kalandi dhar (chotar or banshira dhar) demarcated line above line cultivation of lamidhar, Bagi nad Banshira         |
|                         | South               | Demarcated line by cultivation of tipar. arogidhar behind Sataihan                                                   |
|                         | West                | Demarcated line by cultivation of Shoda, Bahl, Kalaun dogri, Goba, Maliala, Khaneri, kani-kutla. akru Or Kalandidhar |

| Sr.No. | Name of rights             | Description of rights with limitation (viz. general rights and general and special conditions.                                                                                                                                                                                                                                                                                                                                                                   |
|--------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | Grazing                    | Cattle may graze.                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 2      | Grazing.                   | Sheep and goats may graze.                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 3      | Fodder leaves              | Reuns kathi, pothi may be lopped or cut without permission..                                                                                                                                                                                                                                                                                                                                                                                                     |
| 4      | Manure leaves              | Rai trees may be lopped to one half of their height without permission in Sawar Badawan Badhon to one half of their height subject to the general provision as to the sized of the trees.                                                                                                                                                                                                                                                                        |
| 5      | Fuel and fences            | Kathi, Reuns, Kashmal, Pothi may be cut without permissi                                                                                                                                                                                                                                                                                                                                                                                                         |
| 5      | Wood for burning the dead. | <p>The following paths run through the forest:-<br/>           One Rai tree may cut for burning the dead, subject to the general provision as to the size of the trees.1. Tipar to Bansira- Open to Cattle sheep &amp; goats<br/>           6 Kalandi Gai to LamiDhar<br/>           7 Bansira to Satain</p> <p>A Rai tree not exceeding a hath of girth at the ground may be cut for the sanj of she plough, subject to the general provision as on notice.</p> |
| 6      | Agricultural implements.   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 5      | Wood for burning the dead. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 6      | Agricultural implements    | <p>8 Ba<br/>           One Rai tree may cut for burning the dead, subject to the general provision as to the size of the trees.shira to Patarna</p> <p>A Rai tree not exceedind a hath of girth at the ground may be cut for the sanj of she plough, subject to the general provision as on notice.</p>                                                                                                                                                          |
| 7      | Building timber.           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 8      | Right of way.              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|        |                            | <p>Rai tree will be given on application.</p> <p>The following paths run through the forest:-<br/>           1) Tipar to Bansira For men only.<br/>           2) Sara Thach to janja Open for cattle<br/>           3) Patarna to Kaneri Sheep &amp; goats.<br/>           4) Malchani to patarna<br/>           5) Kalandi gai to Odigai</p>                                                                                                                    |
|        |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

| No. | Hamlets & having rights | Rights      | Remarks |
|-----|-------------------------|-------------|---------|
| 1   | Shoda,Bahl amidhar      | Full rights |         |
| 2   | Malchani(both)Bagi      |             |         |
| 3   | PharutiBanshira         |             |         |



|    |                                                                                        |                                                                                                                               |                                                                                     |
|----|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 4  | Kalaun Dogri Krot, Kalal, Chanas, Pokhar, Tipar, Khaneri, Uperli Khaneri Khaneri Jhili | Agricultural implements Nirga, Shakair, Chilocha and satpacho.                                                                |                                                                                     |
| 5  | Goba Ladar                                                                             | Shakair, Chilocha and Satpacho                                                                                                |                                                                                     |
| 6  | Kothi Karana Phati                                                                     | Manure leaves, for burning the dead<br>Agricultural implements in Bansira Nal<br>Full rights except<br>Grazing<br>Full rights | But sheep and goats<br>Grazing only in Karyik, Mangsir, posh, Magh, Phagon and jait |
| 7  | Rakag                                                                                  |                                                                                                                               |                                                                                     |
| 8  | Bakanda                                                                                |                                                                                                                               |                                                                                     |
| 9  | Uperli Khaneri                                                                         |                                                                                                                               |                                                                                     |
| 10 | Kalela                                                                                 |                                                                                                                               |                                                                                     |
| 11 | Pokhar                                                                                 | Grass, satpacho, chilocha and dry wood                                                                                        |                                                                                     |
|    |                                                                                        |                                                                                                                               |                                                                                     |

#### **Proprietary Rights**

One field No. 1409 and area 0-1 ph. Belonging to Kao, son to Situ Kohli of Lamidhar is included in the forest and may be cultivated as heretofore.

\*\*\*\*\*

#### **1/33 Marog shil, Gada Jakar area 102 Acres (42.27Hect.)**

|                         |                     |                                                                         |
|-------------------------|---------------------|-------------------------------------------------------------------------|
| Name of Kothi:- Ragupur | <b>Boundaries:-</b> |                                                                         |
|                         | North               | Saw in dhar, Takrasi Dhar and demarcated line by cultivation of Tharwa. |
|                         | East                | Begar Nal and demarcation of Tharwa.                                    |
|                         | South               | Kandi Shada Dhar                                                        |
|                         | West                | Demarcated line by cultivation of mashiad and Marog and maishada Nal    |

| Sr.No. | Name of rights | Description of rights with limitation (viz. general rights and general and special conditions.                                        |
|--------|----------------|---------------------------------------------------------------------------------------------------------------------------------------|
| 1      | Grazing        | Cattle may graze.                                                                                                                     |
| 2      | Grazing.       | Sheep and goats may graze.                                                                                                            |
| 3      | Fodder leaves  | Reuns kathi, pothi Nohru may be lopped to any height without permission..                                                             |
| 4      | Manure leaves  | Kail and Rai may be lopped in sawan badhan to one half of their height subject to the general provision as to the sized of the trees. |

|   |                          |                                                                                                                                                                                                                                       |
|---|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5 | Fuel and fences          | Kathi, Reuns, Kashmal, Pothi may be cut without permission                                                                                                                                                                            |
| 6 | Agricultural implements. | Mohru, jamun, Palan, Shegal may be cut without permission A Rai tree not exceeding a hath of girth at the ground may be cut for the sanj of the plough, subject to the general provision as to notice.                                |
| 7 | Building timber          | Kail and Rai trees will be given on application                                                                                                                                                                                       |
| 8 | Right of way             | The following paths run through the forest<br>1) Marog to the cultivation in the forest<br>2) Marog to the Kutumba- Bai<br>3) Marog to Kalut.<br>4) Samater to Tharwa<br>5) Samater to Chandi Dogri<br>6) Path along Shoda Kandi Dhar |

| No. | Hamlets & having rights | Rights                     | Remarks                                                   |
|-----|-------------------------|----------------------------|-----------------------------------------------------------|
| 1   | Marog                   | Full rights in Marog Shil  | But sheep and goats grazing                               |
| 2   | Khaut                   | Full rights-except grazing |                                                           |
| 3   | Samater, Dagel          | Full rights in Gada Jakar  | But sheep grazing only in Kartik to Jait (both inclusive) |

### Proprietary Rights

No land is included in gada Jakar but there is one field area I bh, No. 2897, belonging to Baraino of Marog, in Marog Shil, which may be cultivated as heretofore,

\*\*\*\*\*

### 1/34 Thach Shil Area 169 Acres (68.39Hect.)

|                       |                     |                                                   |
|-----------------------|---------------------|---------------------------------------------------|
| Name of Kothi:- Janja | <b>Boundaries:-</b> |                                                   |
|                       | North               | Kui Nal, Kandiri Nal                              |
|                       | East                | Samphal Dhar                                      |
|                       | South               | Demarcated line by cultivation of Glach and Thach |
|                       | West                | Thach Nal                                         |

| Sr.No. | Name of rights | Description of rights with limitation (viz. general rights and general and special conditions. |
|--------|----------------|------------------------------------------------------------------------------------------------|
| 1      | Grazing        | Cattle may graze.                                                                              |
| 2      | Grazing.       | Sheep and goats may graze.                                                                     |
| 3      | Fodder leaves  | Ban, Mohru, Kathi, Pothi, Murat may be lopped to any height                                    |

|   |                          |                                                                                                                                                                                                                                                            |
|---|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   |                          | without permission..                                                                                                                                                                                                                                       |
| 4 | Manure leaves            | Kail and Rai may be lopped one half in Sawan Badhon subject to the general provision as to the sized of the trees.                                                                                                                                         |
| 5 | Fuel                     | Dry wood (Fallen) may be removed and Brass, Kathi. Iran may be cut without permission                                                                                                                                                                      |
| 6 | Agricultural implements. | Ban, Kwal, Palan, may be cut without permission. A Rai tree not exceeding one hath right at the ground may be cut for the sanj of the plough, subject to the general provision as to notice.                                                               |
| 7 | Right of way             | The following paths run through the forest<br>1) Kui to Thach                      Open to<br>2) Kui to Galach                    cattle.<br>3) Tipar to thach                    sheep and<br>4) Samphal to Gklach              goats<br>5) Tipar to Bagi |

| No. | Hamlets & having rights              | Rights                                              | Remarks                                                         |
|-----|--------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------|
| 1   | Glach                                | Full rights                                         | But sheep grazing only in Kartik, Mangsir, Magh, Phagon an Jait |
| 2   | Thach                                |                                                     |                                                                 |
| 3   | Bres                                 | Full, agricultural implements, grass, barn chilocha |                                                                 |
| 4   | Roti (Warli and Kutal, Kuli, Tidocha | Full rights-except grazing                          |                                                                 |
| 5   | Bagi, Bai, Kutal, Kuli, Tidocha      | Agricultural implements.                            |                                                                 |
| 6   | Kandi, Chimni, Gumoi, Sheol          |                                                     |                                                                 |
| 7   | Jaira, Uprela and Jaira Bunla        |                                                     |                                                                 |
| 8   | Binan, Chail, Kutha                  |                                                     |                                                                 |
| 9   | Madar                                | Rights 3,6,7 & grass chilocha                       |                                                                 |
| 10  | Ninu, Pharbog                        |                                                     |                                                                 |
| 11  | Mautu, Shalal                        | Agricultural implements. Building timber            |                                                                 |
| 12  | Bala (Uperla Jhila)                  | Agricultural implements and leaves                  |                                                                 |
| 13  | Kui, Kandaram,                       | Oak for plough                                      |                                                                 |
| 14  | Lamadhar                             |                                                     |                                                                 |

## Proprietary Rights

No cultivation is included in the forest, but three pieces of grass land, Nos. 1593, 1591, 1592 recorded at settlement are in site and also other grass lands not so recorded grass may be cut as heretofore.

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### 1/35 Bagi Galat Paneo Area 318 Acres (128.69Hect.)

|                       |                     |                                                                                                    |
|-----------------------|---------------------|----------------------------------------------------------------------------------------------------|
| Name of Kothi:- Janja | <b>Boundaries:-</b> |                                                                                                    |
|                       | North               | Bres Nal, cultivation of Asham and Samphal Dharl                                                   |
|                       | East                | Demarcated land of Bagi, excluding The Rundi-So line by cultivation of Kutal upper and lower Jaira |
|                       | South               | Demarcated line by cultivation of Kutal upper and lower Jaira                                      |
|                       | West                | Bala Nal and demarcated line cultivation of Bala and Roti                                          |

| Sr.No. | Name of rights            | Description of rights with limitation (viz. general rights and general and special conditions.                                                                                                                                                                                                                                                     |
|--------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | Grazing                   | Cattle may graze.                                                                                                                                                                                                                                                                                                                                  |
| 2      | Grazing.                  | Sheep and goats may graze.                                                                                                                                                                                                                                                                                                                         |
| 3      | Fodder leaves             | Ban, Mohru, Kathi, Pothi, Murat may be lopped to any height without permission.                                                                                                                                                                                                                                                                    |
| 4      | Manure leaves             | Kail and Rai may be lopped one half in Sawan Badhon subject to the general provision as to the sized of the trees.                                                                                                                                                                                                                                 |
| 5      | Fuel                      | Dry wood (Fallen) may be removed and green Mohru, Brass, Ban may be cut without permission                                                                                                                                                                                                                                                         |
| 6      | Wood for burning the dead | One Kail and Rai tree may be cut for the burning of dead, subject to the provision as to notice.                                                                                                                                                                                                                                                   |
| 7      | Building timber           | Kail and Rai will be given on application                                                                                                                                                                                                                                                                                                          |
| 8      | Right of way              | The following paths run through the forest<br>1) Bagi to Bala                      Open for<br>2) Samphal to Bagi                cattle.<br>3) Kutal to Bala                    sheep and<br>4) Bala to Kuli                      goats<br>5) Bagi to Kuli<br>6) Samphal to Bala<br>7) Bala to Bres<br>8) Bala to Uperla Jaira<br>9) Bala to Glach |

There are three water places for the cattle in the forest\_

1. Bala Nal 2. Kuli Bai, 3. Paneo Sar, which is near the Paneo Nag Temple, which is also inside the forest.
- 2.

| No. | Hamlets & having rights | Rights                                          | Remarks                                                 |
|-----|-------------------------|-------------------------------------------------|---------------------------------------------------------|
| 1   | Bagi Bai                | Full rights                                     | But sheep grazing only in Kartik, Mangsir, Posh, Phagon |
| 2   | Kutal, Kuli             |                                                 |                                                         |
| 3   | Bala Uperla             |                                                 |                                                         |
| 4   | Bala Jhila              |                                                 |                                                         |
| 5   | Bres                    |                                                 |                                                         |
| 6   | Shalal                  |                                                 |                                                         |
| 7   | Jaira Uperla            | Grazing, fuel grass and chilocho cattle grazing |                                                         |

### Proprietary Rights

The following fields have been included in the forest and may be cultivated as heretofore:-

| Khasra No | Proprietor               | Area |
|-----------|--------------------------|------|
| 990       | Maafi of Paneo Nag       | 1-0  |
| 998       | Lalu son of Gataka Kohli | 3-8  |
| 1023      | -----                    | 0.6  |
|           | Total bh                 | 4.14 |

\*\*\*\*\*

### 1/36 Paleini Chalaun Area 305 Acres (123.43Hect.)

|                       |                     |                                                       |
|-----------------------|---------------------|-------------------------------------------------------|
| Name of Kothi:- Janja | <b>Boundaries:-</b> |                                                       |
|                       | North               | Demarcated line by grass land cultivation of Palaini. |
|                       | East                | Jamda-gar                                             |
|                       | South               | Arni-gar and demarcated line above Tishan Dogri       |
|                       | West                | Thani Dhar.                                           |

| Sr.No. | Name of rights            | Description of rights with limitation (viz. general rights and general and special conditions. |
|--------|---------------------------|------------------------------------------------------------------------------------------------|
| 1      | Grazing                   | Cattle may graze.                                                                              |
| 2      | Grazing.                  | Sheep and goats may graze.                                                                     |
| 3      | Manure leaves             | Fallen leavel may be taken during Har                                                          |
| 4      | Fuel                      | Dry wood (Fallen) may be removed                                                               |
| 5      | Wood for burning the dead | One chil may be cut for the burning of dead, subject to the provision as to notice.            |
| 6      | Building timber           | Chil will be given on application                                                              |
| 7      | Right of way              | The following paths run through the forest<br>1) Poeg to Teshan Open for                       |

|  |  |                                                                                         |
|--|--|-----------------------------------------------------------------------------------------|
|  |  | 2) Plaini to Teshan cattle.<br>3) Poeg to Shamshar sheep and<br>4) Palaini to Ani goats |
|--|--|-----------------------------------------------------------------------------------------|

| No. | Hamlets & having rights                | Rights           | Remarks                                                 |
|-----|----------------------------------------|------------------|---------------------------------------------------------|
| 1   | Poeg, Pujerli, Deol, Palaini & Bishleo | Full rights      | But sheep grazing only in Kartik, Mangsir, Baisakh Jait |
| 2   | Bagash, Batala, Dandala & Kungash      | Grass & dry wood |                                                         |

No cultivation has been included in this forest; grass may be cut from grass land that has been included.

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Rights and Conditions for 2<sup>nd</sup> Class protected Forests.

### **OUTER SERAJ.**

**1. Right holders may exercise such of the following rights as have been admitted to them, subject to them, subject to the condition herein laid down and to the ruled which the Local Government may from time to time issue for the regulation of these rights:-**

1. To graze cattle (except buffaloes), sheep and goats at the times given in the record, which anytime limit has been imposed.
2. To take trees-  
For agriculture implements and domestic utensils; for the constructions and repair of dwelling houses cattle sheds and other agricultural buildings;  
for the contractions of the temples and dwellings attached to temples;  
for the ark of the deotes and other such purpose;  
for the bier and cremicoal for smithy purpose;  
for fuel and for charcoal for smithy purpose;  
for tanning and such purpose;
3. To take the following articles of forest produce-
  - (a) Grass of all kinds for fodder, thatching, rope making and other domestic and agricultural purpose.
  - (b) Flowers, fens, plants for medicinal, domestic and agricultural purpose.
  - (c) Brushwood for fencing and other purpose.
  - (d) Branches of trees for fodder, manure, hedges, charcoal and rope.
  - (e) Fallen leaves for manure.
  - (f) Leaves and bark of certain trees and shrubs for training, incense, rope making, medicinal and other purposes.
  - (g) Dry wood for fuel, torches and other purpose.
  - (h) Fruits and roots for food, washing, dying, medicinal and other such purposes.
  - (i) Stumps of trees for torches and manufacture of oil.
  - (j) Bamboos for basket making and other purpose.
  - (k) Stones, slates, earth, clay and limestone for buildings,pladterring,for the manufacture of earthen vessels, mill stones and other purposes.
  - (l) Wild honey.

**2. Special Conditions:-**

1. The following trees may not be cut without permission:-
  1. Deodar
  2. Box

3. Ash
4. Walnut
5. Elm
6. Alder
7. Blue pine
8. Chil
9. Spruce
10. Fir
11. Yew
12. Cypress
13. Shisham
14. Olive
15. Horse Chestnut
16. Celtis
17. Mulberry
18. Hill Tun.
19. Kakaran
20. Poplar

Provided that:-

- (a) Chil, Spruce and fir or failing these blue pine, may be cut without previous permission for the bier and cremation of the dead, but notice must at once be given to the rakha;
  - (b) Where other suitable trees cannot be found, Blue pine and Spruce not more than a hath in girth at the ground may be cut without permission (previous) for the sanj of the plough, provided that notice is at once given to the rakha;
  - (c) One branch of a yew suitable for the Baster Doe ( household god) may be cut without permission on the construction of a new house;
  - (d) The stumps of these trees may be cut without permission.
  - (e) Dry standing and fallen trees of these kinds may be cut and removed without permission, except Deodar, Box, Walnut and Ash.
2. The following trees may not be lopped nor injured in any way:-
  1. Deodar
  2. Box
  3. Walnut
  4. Ash.
  5. Alder
  6. Yew.
  7. Spruce
  8. Shisham.
3. The following trees may be lopped for fodder:-
  1. Elm.
  2. Olive.
  3. House Chestnut.
  4. Celtis.
  5. Mulberry.
  6. Hill Tun.
  7. Kakaran.

8. Poplar.
4. The following trees viz. Blue Pine, Chil, Spure and fit may be lopped to one third of tree height, both for charcoal and for manure, provided the trees lopped are not less than one hath in girth at three haths from the ground.
5. With exception of the 20 trees mentioned above, all trees, shrubs and brushwood may be cut and lopped without permission, provided that Government may at any time remove any pieces of trees, shrubs or brushwood from the operation of this clause and include it in clause (1) and impose such conditions on the provision that the right holders are entitled to have their bonafide wants supplied from the forests.
6. Stones, slates, earth and clay may be removed without permission from established quarries provided damage is not done to the trees mentioned in clause (1) but new quarries may not be opened without permission.

EXPECT AS HEREIN PROVIDED, RIGHTS DETAILED IN PARAGRAPH I MAY BE EXERCISED WITHOUT PERMISSION.

### 3. General Conditions:-

1. The soil and all the produce of these forests belong to Government, subject to the recorded rights of users.
2. The rights of users are appendant to cultivated land paying revenue or of which the revenue has been assigned, and may be acquired and alienated only with such land. They may be exercised only in proportions to the area, cultivated and the revenue paid/assigned, and the Govt. whenever it considered it in the interest of the forest or of other right holders, may define by numbers the extent of any of the rights that a right holder may exercise. They may be exercised only for the bonafide agricultural and domestic purpose of the right holders, and only in behalf of their own cattle, sheep and goats, and not for the supply of the wants of tea or other industries, nor for purely pastoral as distinguished from agricultural purposes.
3. No forest produce acquired in the exercise of these rights of users, except bamboos, fruits, flowers, medicinal roots and leaves, may be sold or bartered or applied to any but the purpose for which it was acquired, provided that right holder may during the pleasure of Government sell firewood, torches charcoal, grass lime, slates and plastering earth.
4. During the currency of the present settlement deodar, walnut, box and ash will be given to right holders at the rate not exceeding the zamindari price fixed in this behalf, and other rights will be exercised without payment. At the next revenue Settlement Govt. may assess all or any of these rights to revenue in such a way as it may consider proper and may charge a price for trees and other forest produce.
5. Trees for buildings purposes will not be given if the right holders' applying for them has already got a suitable building in a reasonably convenient locality and of size sufficient for his requirement. For instance, A sells half his holding to B, who applies for trees to build a house on the land purchased. A has on his land a house conveniently situated for the cultivation of land sold. B is not entitled to tree as he bought only the right of A, who too is not entitled to another house.

When a tree has been given for building purpose, the building shall be constructed within the local limits of the hamlet (grain) where the cultivated land on account of which the trees are given is situated.

6. The proprietors of land of their agriculture tenants may exercise all the rights appendant to their land, but tenants –at-WL get trees for building purpose only through the proprietors of their lands.
7. Green trees may not be cut within 40 yards of any temple or of any building connected with any temple. Dry deodar trees standing within this area shall be applied to the repair of the temple building, and on application to the Forest Officer will be given for that purpose.

No trees standing within 10 yards of any public road may be cut except with the permission of the Assistant Commissioner.

8. Nets, Traps or snares may not be set without the permission of the Assistant Commissioner and subject to the conditions he may impose, but such permissions will be given in cases where a right to set nets and



- snares for the capture of hawks and musk deer was recorded at the first Revenue Settlement, subject to the condition that the nets and snares are of the form most suitable for the capture of hawks and musk deer and are not intended for the capture of pheasants or other winged game.
9. Whenever a limit in time not been imposed on the exercise of any right, it does not of necessity follow that the right is in reality exercised every day and always all the year round, but it implies that the periods during which the right is exercised depend on circumstances so various and changing that it is impossible to fix them.
  10. Portions not exceeding one third of the area of each forest may be closed against the exercise of all any rights, regard being had to the due and convenient exercise of recorded rights.
  11. The rights of user are subject to the conditions:-
    - (a) Those all right holders shall render every assistance in extinguishing any fire occurring in any forest within which they have rights whether they have been called upon to do or not, and in cases of willful neglect Government may order that all of any rights within specified limits be suspended for any time it considers proper.
    - (b) That the rights holders shall maintain in proper repair the boundary pillars of the forests in which they have rights.
    - (c) That right holders shall be responsible for the pay and uniform of the rakha in charge of the forest in which they have rights.
  12. The practice of cultivating Samson and bhang in teahouses may continue as here to fore, but this is not a right and may be prohibited in case of abuse or for other cause.
  13. One-fourth share of the gross income from the local sale of trees from these forests will be paid to the officials of the kothis from which the trees were sold in consideration of their assistance in the management of the forests and in enforcing the proper exercise of the rights and the rules issued by Government. This share may be divided in such a manner as the local Government may direct. It confers no right whatsoever in the forests, and if the assistance in consideration of which it is given is not rendered the local Government may withdraw the grant.

**2/1 Brati Area 305 Acres (1149.31 Hect)**

Name of Kothi:- Pandarabis

Boundaries:- North:- Shankar Dhar.

East: - Jawadi-gar & Mohali-gar Jamda-gar

South: - Demarcated line by Nag jata to Timbi-gai

West: - Timbi Dhar

| No. | Name of Hamlets | Rights                   | Remarks                                                                                                                                                                         |
|-----|-----------------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Daman Dhar      | Full rights              | There is a dispute as to the Boundaries between Kullu & 2 Bushahr at this point, vide forest Settlement Officer, No.14 dated 13 <sup>th</sup> May, 1882 to Deputy Commissioner. |
|     | Nal Kyundhar    |                          |                                                                                                                                                                                 |
|     | Dhar            |                          |                                                                                                                                                                                 |
| 2   | Humku           | Building timber & nirgal | In the area between the Dhunku Dhar and the jawadi-gar. The Kullu People                                                                                                        |
|     | Ban             |                          |                                                                                                                                                                                 |
| 3   | Sarga           | Building timber & nirgal |                                                                                                                                                                                 |

|    |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4  | Kail          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <p>Claim the following thaches:- Maler, Dadla, which lie comparatively low down; also Manjo Gai-thach and Khori, which</p> <p>Are nigarhrs. There is a dispiute among the Kullu people as to who have rights in these Nigahrhs Kesu Rasu of Mohal claimed a right in Gai and Khori taches to exclusion of all others. Daya Ram Rasu of Dhaul Kothi,claimed a right in Khori,which is more valuable than Gin thach, in which Pandrabis people were inclined to let Dhaul sheep graze Laju Negi of Kot Rasu grazes in Manjko Grass is also cut by Sarga village beyond the Mohaligar,which is considered by the Bushahr people to be the boundry.For grazing arrangements in this Kothi see Bagori. The great sheep path to Dhunku runs along the main ridge through followingthaches:- Mathed, Ganagai, Pauluchaner, Magain,Baihla,Matlolo,Mauta, Ucha, Moharna,Nokua-pani, Karana Dunku. In this kothi generally there are sufficient deciduous trees and Oaks for agricultural implements Pines needs scarelly cut.</p> |
| 5  | Mohal         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 6  | Barguri Maloa |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|    |               | <b>Thaches</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 7  | Brati         | <p>These are all the gahr grazed by the sheep of Kushua &amp; Sarga phatis, and also occasionally some from Tunan Phati, under Kesu, Rasu Mohal. The flocks unite in the end of Baisakh, and graze first in Jiya forest and lower gahrhs ( Nag-jata) Timbi, Keloah-dhar) then go to the Dunku nigahrhs in end of Har;and after grazing there they go to the upper gahrhs,where they remain during Assauj and part of Kartik, in end of which month of beginning of Mangsir they separate.</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 8  | Shila         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 9  | Mira-Gai      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 10 | Keloah-dhar   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 11 | Shalu-marach  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|    | Aleo          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|    | Mandru        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 12 | Chul          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|    | Tikar         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 13 | Nag-jata      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|    | Chalao        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|    | Khanea-dehar  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|    | Timbi         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 14 | Moharna       | <p>This nighar is grazed for eight days in Sawan by Sheep of Bali Phati of Dhaul kothi,under Daya Ram Rasu and after them. The seep of Pandrabis Kothi under Kesu, Rasu. If the Dhaul sheep do Not come in Sawan they may not graze at all. This was the arrangement Agreed to after considerable discussion.</p>                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

**2/2 Jiya Area 387 Acres (156.62 Hect)**

Name of Kothi:- Pandarabis

Boundaries:- North:- Demarcated line for Nag-Jata to Timbigar.

East:- Cultivation of Humku and Bagan.

South: - Dadai Dhar.

West: - Timbi Dhar

| No.            | Name of Hamlets | Rights                                                                                                                                                                                                                                                                    | Remarks                                                                                                                                                                                                                                                                              |
|----------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1              | Bagan           | Full rights except building timber. Fodder leaves, fuel agricultural implements sheep & goats grazing in Posh & Magh. Fodder leaves, fuel agricultural implements. Fodder leaves, fuel agricultural implements & sheep and goats grazing in Posh and Magh. Fodder leaves. | This forest contains mostly Oak and other miscellaneous trees with very few pines. A small patch just above the cultivation of Hukmu and Bagan has been closed as a nursery for Box wood which seems to grow fairly well here. There is at present no building timber in the forest. |
|                | Bahan           |                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                      |
|                | Humku           |                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                      |
| 2              | Sarga           |                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                      |
|                | Dhar            |                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                      |
| 3              | Kail            |                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                      |
|                | Shah            |                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                      |
| 4              | Mohal           |                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                      |
| 5              | Barguri         |                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                      |
| <b>Thaches</b> |                 |                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                      |
| 1              | Shila           | These gahrs are grazed in end of Baisakh, Jait & Har and in Assauj & Kartik by the sheep of Pandrabis under Kesu Rasu as for Brati No.1                                                                                                                                   |                                                                                                                                                                                                                                                                                      |
| 2              | Dharo           |                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                      |
| 3              | Chiwat          |                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                      |
| 4              | Dadai           |                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                      |
| 5              | Badijan Piche   |                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                      |

### **2/3 Siarunal Area 271 Acres (109.66 Hect)**

Name of Kothi:- Pandarabis

Boundaries:- North:- Siarunal.

East: - Kanrard Stream.

South: - Bagruri-age Dhar

West: - Cultivation of Kindla & Kater  
Remarks.

| No. | Name of Hamlets | Rights                                     | Remarks                                                                                          |
|-----|-----------------|--------------------------------------------|--------------------------------------------------------------------------------------------------|
| 1   | Kindla,Kater    | Full rights Chil for building purposes and | This Chil forest near the Satluj , at present of little value, but it may at some time be useful |
| 2   | Kushua          |                                            |                                                                                                  |

|  |  |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |  | <p>fallen dry Chil and stumps for torches. Humchain of Kanawar, Bushahr, graze on the Bagruri-age dhar and on to Dunju. He or someone on his behalf brings sheep in the end of Mangsir and they remain up to the beginnings of Baisakh. This winter ban is known as Bhandari, and who ever graze it pays Rs. 6/- to the Pandrabis Kothi.</p> | <p>from its proximity to the river. There are 7 runs in theis Kothi on the bank of the Satluj in which foreign sheep graze.</p> <ol style="list-style-type: none"> <li>1) Kunrard, above Siarunal below Bushahr who pays no timi, as he alleges he holds it free from a former Raja of kullu but he gives a large goat to Jakhu Nag in Humku.</li> <li>2) Bhandari from Bagruri-age Dhar to Dunju included in demarcated area.</li> <li>3) Sharu from Dunju to Bandar-Thana grazed by Manohar Dass Wazir of Bushahr. No timi is paid; same as one</li> <li>4) Gada-mawa from Odidhar included in demarcated area( II class Forests No.6)</li> <li>5) Hocha-mawa from Odidhar to Chakchaki dhar grazed Kala Patwari of Plach Kothi, who pays Rs. 4.80 to Pandrabis Kothi.</li> <li>6) Baukhan from Chakchaki dhar to Lundru Nal grazed by Manohar Negi of Plach, who pays Rs. 4/- to Pandrabis Kothi.</li> <li>7) Ahazar and Trawi, Lying above Baukhan grazed by Charkhu and jaid of Rasahir, who pay Rs. 2.80 to Pandrabis Kothi. A sum of Rs.23 is now paid by pandrabis kothi alongwith the revenue on account of these runs.</li> </ol> |
|--|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## **2/4 Dabda Area 1170 Acres(473.49 Hect)**

Name of Kothi:- Pandarabis

Boundaries:- North:- Maghain Dhar.

East: - Timbi Dhar.

South: - Line from Timbi Gai by Sach cultivation and Sach Nal.

West: - Kajau Gad.

| No.     | Name of Hamlets            | Rights                                                                                                      | Remarks                                                      |
|---------|----------------------------|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| 1       | Narku, Shah                | Rai and Tosh for building and Nirgal                                                                        | This is high lying forest, very steep, with not much forest. |
|         | Kimcha, Shudwar            |                                                                                                             |                                                              |
| 2       | Rirku son of Raja of Narku | Has a ghayan in the forests.                                                                                |                                                              |
| Thaches |                            |                                                                                                             |                                                              |
| 1       | Chanua                     | These ghars are grazed in the end of Basaikh, Jait and Har and in Assauj and Kartik by the sheep under Kesu |                                                              |
| 2       | Majanua                    |                                                                                                             |                                                              |
| 3       | Balaphru                   |                                                                                                             |                                                              |

|                  |              |                                 |             |          |
|------------------|--------------|---------------------------------|-------------|----------|
| 4                | Sadera-Rewar | Rasu as per Brati No.1          |             |          |
| 5                | Wasan        |                                 |             |          |
| 6                | Saich        |                                 |             |          |
| 7                | Jantru       |                                 |             |          |
| 8                | Dibku        |                                 |             |          |
| <b>Khasra No</b> |              | <b>Proprietor</b>               | <b>Area</b> |          |
| 301              |              | Rirku & Co. Son of Ramku Kanet. | 0           | 1        |
| 302              |              | Daurath son of Sitalu Kanet     | 0           | 2        |
|                  |              | <b>Total:-</b>                  | <b>0</b>    | <b>3</b> |

The grass land is not held in proprietary right but grass may be cut as here to for.

### 2/5 Bagori Area 1660 Acres ( 671.79 Hect)

Name of Kothi:- Pandarabis

Boundaries:- North:- Maghain Dhar.

East: - Kaju Gad.

South: - Raita Dhar.

West: - Maghain Dhar

Remarks.

| No. | Name of Hamlets | Rights                                                                                                                                                                        | Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Damach          | These gahrs are grazed in the end of Baisakh, Jait, Har and in Assauj and Kartik by Parsu, Rasu of Dwari with him the sheep of the villagers between Khuni-gar and Kajau-gar. | These forests, lying above the Tikar Protected Forest, are of no use except as a grazing ground for sheep & goat. Ther are three flocks in the Pandrabis Kothi, (1) Under Kesu of Mohal (2) under Parsu of Dwari and (3) under Damodhar of Gundi. With Kesu go the sheep of all Three Phatis-Sarga, Kushnua and Tunan, but only a few from Tunan. With parsu go Khurga, Tandi, Mawa, Kummhar, Babar Tikri, Ropri, Dwari, Nal, all of Tunan Phati. With Damodhar go Daman, Tunan, Shershao Thachwa, Chati, Gaonbil, Dumge, Gad, Bishlai, Gundi Kandlu- that is, the hemlets on the right side of the Khunigar go with Damodhar and these on the left with Parsu. |
|     | Raita           |                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

|   |           |                                                                                                                                                                                                                                  |
|---|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2 | Shamattan | These gahrs, which are grazed at the same time as Damach and Raita, were claimed both by parsu Rasu and by Daya Ram and Murli Das Dhaul Kothi. Perhaps both parties have grazed in these thaches , and the question of rights is |
|   | Aleo      |                                                                                                                                                                                                                                  |
|   | Chotri    |                                                                                                                                                                                                                                  |

|   |               |                                                                                                                                                                                                                                                                                                            |
|---|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   | Lamba-thach   | left to the Civil Courts.                                                                                                                                                                                                                                                                                  |
|   | Dobda         |                                                                                                                                                                                                                                                                                                            |
| 3 | Bagdori-gahr  | Grazed by Murli Das, Rasu of Dhaul Kiothi, and with him the sheep of Soich Phati.                                                                                                                                                                                                                          |
|   | Matloi nigahr |                                                                                                                                                                                                                                                                                                            |
| 4 | Dabru-gahr    | Grazed by Daya Ram, Rasu of Dhaul Kothi and with him the sheep of Bali Phati. These was a dispute as to the rights of Murli Das and Daya Ram, but the above record is in keeping with existing facts. Moreover, Mauta was recorded (as in Kot Kothi) at the Revenue Settlement in the name of Dhaul Kothi. |
|   | Mauta nigahr  |                                                                                                                                                                                                                                                                                                            |
|   | Ucha nigahr   |                                                                                                                                                                                                                                                                                                            |

### **2/6 Gada Mawa Area 88 Acres ( 35.61 Hect)**

Name of Kothi:- Pandarabis

Boundaries:-

North:- Kaju Gad.

East: - Odidhar.

South:- Cultivation of Mawa & Ropri.

West: - Nal below Taintu Kohli's Maghain cultivation.

| No. | Name of Hamlets | Rights                                                                                                                                                                                                                                                                          | Remarks                                                                                                                                                                                                              |
|-----|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Nal             | Chil for building purpose, dry Fallen Chil and stumps for torches. Hirsukh of Kanawar , Bushahr, grazes sheep and goats in this forests in winter from the end of Mangsir to the beginning of Baisakh , from Bandar Thana to Odidhar, and pays Rs. 6/- to the Pandarabis Kothi. | This is a Chil forest similar to Siaru Nal No. 3. Only part of the Run held by Hirsukh is within the forest. The run is on both sides of the Kajau gad. No firing of grass should be allowed in any part of the run. |
|     | Sar-age         |                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                      |
|     | Kader           |                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                      |
| 2   | Mawa            |                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                      |

### **2/7 Tandi-ther Area 259 Acres ( 104.81 Hect)**

Name of Kothi: - Pandarabis

Boundaries: - North: - Cultivation of Kharga and Kumber.

East: - Cultivation of Tandi . Odidhar

South: - Tandi-ther Dhar..

West: - Line from Dabru Kater to old Tarapur Fort.

| No. | Name of Hamlets | Rights                                                                           | Remarks                                                                                                        |
|-----|-----------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| 1   | Tandi           | Full rights                                                                      | This forest contains mostly oak with few trees suitable for building purposes. It lies comparatively low down, |
|     | Dabar           |                                                                                  |                                                                                                                |
|     | Kumhar          |                                                                                  |                                                                                                                |
| 2   | Kharga          | Sheep and goat grazing in winter, oak for agricultural implements, fodder leaves |                                                                                                                |

|   |           |                                         |                                                                                                        |
|---|-----------|-----------------------------------------|--------------------------------------------------------------------------------------------------------|
|   |           | (ban, Kathi, Murat) Dry wood for fuel.  | just behind the Tandi village, and ran some risk of being brought under cultivation if not demarcated. |
| 3 | Ropri     | Oak for agricultural implements, fodder |                                                                                                        |
|   | Tikri     | Leaves, dry wood for fuel.              |                                                                                                        |
| 4 | Dwari Nal | Agricultural implements.                |                                                                                                        |
|   | Mawa      |                                         |                                                                                                        |
|   | Sar-age   |                                         |                                                                                                        |
|   | Kader     |                                         |                                                                                                        |

## **2/8 Sanpatu Area 259 Acres ( 216.11 Hect)**

Name of Kothi:- Pandarabis

Boundaries:- North:- Tikar Dhar.

East: - Drauna Dhar

South: - Brati Precipice.

West: - Odidhar.

| No.    | Name of Hamlets | Rights                                                                                                                   | Remarks                                                                                                                                                                                                   |
|--------|-----------------|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | Gundi           | Rai & Tosh for building purposes agricultural implements (Kharshu, mandru), nirgal, and fodder leaves dry wood for fuel. | This is a high forest of little value; cattle cannot be in to it on account of its precipitous nature. It is useful, however, in supplying timber to many Hamlets on the grassy slopes. Above the Satluj. |
|        | Bishlai         |                                                                                                                          |                                                                                                                                                                                                           |
|        | Geonbeel        |                                                                                                                          |                                                                                                                                                                                                           |
|        | Dumga           |                                                                                                                          |                                                                                                                                                                                                           |
|        | Gad             |                                                                                                                          |                                                                                                                                                                                                           |
|        | Daman           |                                                                                                                          |                                                                                                                                                                                                           |
|        | Tunan           |                                                                                                                          |                                                                                                                                                                                                           |
|        | Kandlu          |                                                                                                                          |                                                                                                                                                                                                           |
| Kashel |                 |                                                                                                                          |                                                                                                                                                                                                           |
| 2      | Shirsha         | Agricultural implements,buildings timber, Nirgal and agriculral implements and nirgal.                                   |                                                                                                                                                                                                           |
|        | Chati           |                                                                                                                          |                                                                                                                                                                                                           |
|        | Thachua         |                                                                                                                          |                                                                                                                                                                                                           |
|        | Pankua          |                                                                                                                          |                                                                                                                                                                                                           |
|        | Parantala       | Rai Tosh Rakhal for building purposes.                                                                                   |                                                                                                                                                                                                           |
|        | Dakech          |                                                                                                                          |                                                                                                                                                                                                           |
|        | Jalauti Dhar    |                                                                                                                          |                                                                                                                                                                                                           |
|        | Dagel           |                                                                                                                          |                                                                                                                                                                                                           |
|        | Bung            |                                                                                                                          |                                                                                                                                                                                                           |
|        | Bana            |                                                                                                                          |                                                                                                                                                                                                           |
|        | Chuko           |                                                                                                                          |                                                                                                                                                                                                           |
|        | Karel           |                                                                                                                          |                                                                                                                                                                                                           |

### **Thach.**

Snaped Grazed as Tandi –ther, No.7.

## **2/9 Gulol Area 917 Acres (371.10 Hect)**

Name of Kothi:- Pandarabis

Boundaries:-

North:- Kari Dhar.

East: - Tikar Dhar

South:- Odi Dhar.

West: - Cultivation of Pankua.

| No. | Name of Hamlets | Rights                                                               | Remarks                                                                                                                                                                                                                                                            |
|-----|-----------------|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Ddamaili        | All rights                                                           | This forest contains besides pines a great many oak trees, which are lopped for fodder and cut for plough by many of the hamlets lying low down. Pines for ploughs needs not be given in this forest, as maple and oak and other miscellaneous trees can be found. |
|     | Pankua          |                                                                      |                                                                                                                                                                                                                                                                    |
|     | Dagel           |                                                                      |                                                                                                                                                                                                                                                                    |
| 2   | Paranthala      | Fodder leaves, agricultural implements,sheep grazing , nirgal & fuel |                                                                                                                                                                                                                                                                    |
|     | Bali            |                                                                      |                                                                                                                                                                                                                                                                    |
| 3   | Juni            | Fodder Leaves.                                                       |                                                                                                                                                                                                                                                                    |
|     | Soich           |                                                                      |                                                                                                                                                                                                                                                                    |
| 4   | Bung            | Fodder Leaves.                                                       |                                                                                                                                                                                                                                                                    |
|     | Dakech          |                                                                      |                                                                                                                                                                                                                                                                    |
|     | Chumko          |                                                                      |                                                                                                                                                                                                                                                                    |
|     | Jalautidhar of  |                                                                      |                                                                                                                                                                                                                                                                    |
|     | Kasholi Phatti  |                                                                      |                                                                                                                                                                                                                                                                    |
| 5   | Kasholi Phatti  | Agricultural implements.                                             |                                                                                                                                                                                                                                                                    |
| 6   | Karel           | Agricultural implements and fodder leaves and Karel also take fuel.  |                                                                                                                                                                                                                                                                    |
|     | Bana            |                                                                      |                                                                                                                                                                                                                                                                    |
| 7   | Nishani         | Fodder leaves.                                                       |                                                                                                                                                                                                                                                                    |
|     | Mathala         |                                                                      |                                                                                                                                                                                                                                                                    |
|     | Soner           |                                                                      |                                                                                                                                                                                                                                                                    |
|     | Pujarli         |                                                                      |                                                                                                                                                                                                                                                                    |
| 8   | Kothi           | Nirgal                                                               |                                                                                                                                                                                                                                                                    |
|     | Kandi           |                                                                      |                                                                                                                                                                                                                                                                    |
| 9   | Poshna Phati of | Agricultural implements.                                             |                                                                                                                                                                                                                                                                    |
|     | Kothi Kandi     |                                                                      |                                                                                                                                                                                                                                                                    |
|     |                 |                                                                      |                                                                                                                                                                                                                                                                    |

### Thaches

|   |              |                                                                                            |
|---|--------------|--------------------------------------------------------------------------------------------|
| 1 | Loharna      | Grazed by sheep of Bali Phati under Daya Ram in Jait and Kartik.                           |
|   | Ganagai      |                                                                                            |
| 2 | Banali       | Grazed in Jait and Kartik by sheep of Soich Phati under Murli Das, Rasu.                   |
|   | Bushi        |                                                                                            |
| 3 | Lohij-age    | Grazed in Jait and Kartik by the sheep of Bali or of Soich Phati, whichever arrives first. |
| 4 | Chanua       | Grazed in Kartik by Damodhar, Rasu, as in Tandi-ther, No.7.                                |
| 5 | Paulu-chaner | Is passed through by various flocks, and Laju Rasu of Kot Kosthi Grazes in it in Sawan.    |



**2/10 Mul Area 542 Acres (219.34 Hect)**

Name of Kothi: - Kot

Boundaries: - North: - Bijuri Dhar.

East: - Maghain Dhar

South: - Karai or Teli Dhar.

West: - Cultivation of Amtu, Pakora and Mul  
Mandar.

| No. | Name of Hamlets     | Rights                                                                        | Remarks                                                                                                                                                                                                                                                           |
|-----|---------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Amtu                | Full rights except building timber                                            | This for contains besides pines a great many oak trees, which are lopped for Fodder and cut for ploughs by many of the hamlets lying low down. Pines for ploughs needs not be given in this forest, as maple and oaks and other miscellaneous trees can be found. |
|     | Sharan              |                                                                               |                                                                                                                                                                                                                                                                   |
|     | Pakora              |                                                                               |                                                                                                                                                                                                                                                                   |
|     | Debkudhar           |                                                                               |                                                                                                                                                                                                                                                                   |
|     | Janwa               |                                                                               |                                                                                                                                                                                                                                                                   |
|     | Deothan             |                                                                               |                                                                                                                                                                                                                                                                   |
|     | Reoshal             |                                                                               |                                                                                                                                                                                                                                                                   |
|     | Dagot               |                                                                               |                                                                                                                                                                                                                                                                   |
|     | Thachru             |                                                                               |                                                                                                                                                                                                                                                                   |
| 2   | Dithwa              | Sheep grazing in winter, fuel fodder leaves, nirgal, agricultural implements. |                                                                                                                                                                                                                                                                   |
|     | Duga                |                                                                               |                                                                                                                                                                                                                                                                   |
|     | Laut                |                                                                               |                                                                                                                                                                                                                                                                   |
|     | Bekhwa              |                                                                               |                                                                                                                                                                                                                                                                   |
|     | Bishlea             |                                                                               |                                                                                                                                                                                                                                                                   |
|     | Tawali-ser          |                                                                               |                                                                                                                                                                                                                                                                   |
| 3   | Kajera              | Fodder leaves fuel.                                                           |                                                                                                                                                                                                                                                                   |
|     | Kothi               |                                                                               |                                                                                                                                                                                                                                                                   |
| 4   | Soma                | Fodder leaves fuel.                                                           |                                                                                                                                                                                                                                                                   |
|     | Tagur               |                                                                               |                                                                                                                                                                                                                                                                   |
|     | Arsu                |                                                                               |                                                                                                                                                                                                                                                                   |
|     | Tikri of Arsu Phati |                                                                               |                                                                                                                                                                                                                                                                   |
|     | Dhaul Kothi         |                                                                               |                                                                                                                                                                                                                                                                   |
| 5   | Kathanda            | Kharsu and Mandru for agricultural implements.                                |                                                                                                                                                                                                                                                                   |
|     | Khanota             |                                                                               |                                                                                                                                                                                                                                                                   |
|     | Nirmand             |                                                                               |                                                                                                                                                                                                                                                                   |
|     | Bail                |                                                                               |                                                                                                                                                                                                                                                                   |

**Thaches**

|   |           |                                                                                                                                                                                                           |
|---|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Jalari    | These gahrs are grazed by Laju , Rasu of Kothi Kot , and with him the sheep of Kothi Phati, except Buen and Tholo, and of Tagur , Arsu Phati of Dhaul Kothi, and of Dithwa Phati, Except Kri and Kalaras. |
| 2 | Mohru     |                                                                                                                                                                                                           |
| 3 | Tranda    |                                                                                                                                                                                                           |
| 4 | Mandrao   |                                                                                                                                                                                                           |
| 5 | Kapur-Kod |                                                                                                                                                                                                           |

**2/11 Kleo : 3422 Acres (1382.27 Hect)**

Name of Kothi:- Kot

Boundaries:- North:- Nagar Gad.

East: - Maghain Dhar

South:- Bikuri Dhar.

West: - Cultivation of Nagar and Mul Therwa.

| No.                    | Name of Hamlets           | Rights                                                                                                                                                                                              | Remarks                                                                                                                                                                                                                                                                                                                                             |
|------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1                      | Nagar                     | Full rights                                                                                                                                                                                         | This forest is similar to the last. There are sufficient trees for agricultural implements without cutting pines. There was a dispute between the two Roads Dia and Laju as to the path road by the letter in going to Dundku; but it seemed probable that he goes by Birni, Chul Marheen, Karpa and Karteez and returns by Noknapani, Moharna etc. |
|                        | Therwa                    |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                     |
|                        | Kleo cultivation          |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                     |
| 2                      | Dim                       | Fuel, fodder leaves, Agriuctural impl. Building Timber.                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                     |
|                        | Badahal                   |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                     |
| 3                      | Shill                     | Building timber                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                     |
| 4                      | Umtu                      | Building timber                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                     |
|                        | Dagot                     |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                     |
|                        | Debku                     |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                     |
|                        | Dhar                      |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                     |
|                        | Janwa                     |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                     |
|                        | Sharan                    |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                     |
|                        | Reoshal                   |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                     |
|                        | Dagot                     |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                     |
|                        | Dithwa                    |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                     |
|                        | Duga                      |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                     |
|                        | Bekhwa                    |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                     |
|                        | Thachru                   |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                     |
|                        | Deothan                   |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                     |
| 5                      | Twari Phati               | Agricultural impl. (Kharshu, mandru, reuns) and nirgal.                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                     |
|                        | Soich Phati of Kand Kothi |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                     |
| 6                      | Tholu                     | Agricultural implements.                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                     |
|                        | Buen                      |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                     |
|                        | Kre                       |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                     |
|                        | Kilaras                   |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                     |
|                        | Bagna                     |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                     |
|                        | Shalog                    |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                     |
| <b><u>Thaches.</u></b> |                           |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                     |
| 1                      | Sajara                    | These gahrs are grazed in Assauj and Kartik by Narain Das,Rasu of Buen and with him, Tharwa,Nagehr,Badalhal of Shili Phati of Beun and Tholu of Kothi Phati and of Kre and Kilaras of Dithwa Phati. |                                                                                                                                                                                                                                                                                                                                                     |
|                        | Gudropu                   |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                     |
|                        | Janji                     |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                     |
|                        | Kathin                    |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                     |
| 2                      | Nigehr Kod                | These nigahrs are grazed in Jait,Assauj and Kartik by Laju Negi,Rasu as for taches in Mul No.1                                                                                                      |                                                                                                                                                                                                                                                                                                                                                     |
|                        | Pwalri                    |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                     |
|                        | Chiki                     |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                     |
|                        | Mandrao                   |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                     |
|                        | Dekhun                    |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                     |
|                        | Raleo                     |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                     |
|                        | Muhan                     |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                     |
|                        | Kleo                      |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                     |
|                        | Odo                       |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                     |

|   |             |                                                                                                                                                                                 |
|---|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3 | Maghain     | These nigahrs are grazed in Sawan, Bhandron by Laju Negi, Rasu as for teaches in Mul No. 10                                                                                     |
|   | Koi Kandi   |                                                                                                                                                                                 |
|   | Ainder      |                                                                                                                                                                                 |
| 4 | Padari Gahr | Is claimed by both Narain Das, Laju Negi, Rasus.                                                                                                                                |
| 5 | Lasanu      | Are claimed by Narain Das, Laju and also by Pandrabis Kothi. Perhaps Narain Das has the best right to all three As Buda-Lasanu is entered in the Sattlement record in his name. |
|   | Buda-Lasunu |                                                                                                                                                                                 |
|   | Nokwa Pani  |                                                                                                                                                                                 |

The following fields have been included in this first and may be cultivated as heretofore.

| Khasra No. | Proprietor                     | Area<br>Bh. Pa. |
|------------|--------------------------------|-----------------|
| 1019       | Parm son of Kinthu             | 0.2             |
| 1020       | Tundu son of Jalu              | 0.5             |
| 1021       | Jamat & C. son of Jamir Thakur | 0.4             |
| 1022       | Uttmu & C.sons of Theblo       | 0.4             |
|            |                                | Total:- 0.15    |

**2/12 Balacha Area:- 877 Acres (354.01 Hect)**

Name of Kothi:- Kot

Boundaries:- North:- Bishladhar.

East: - Birmi Dhar

South:- Birthana.

West: - Cultivation of Jawagi & Tinder.

| No. | Name of Hamlets | Rights                                                                                                        | Remarks                                                                                                                                                                                                                                                    |
|-----|-----------------|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Jawagi          | Full rights ,except cattle grazing                                                                            | A very inaccessible forest with cold aspect. FallenLeaves are here used for Mannure also baran. Pines are lopped. For agricultural implements, Mandal, Jamu, Kharshu, Moharu and Reuns are cut. These is no necessity for allowing pines for this purpose. |
|     | Tinder          |                                                                                                               |                                                                                                                                                                                                                                                            |
|     | Chamarla        |                                                                                                               |                                                                                                                                                                                                                                                            |
| 2   | Balacha         | These gahrs are grazed in Jait, Assauj and Kartik by sheep of Jawagi, Tinder and Chamarla under Jai Das Rasu. |                                                                                                                                                                                                                                                            |
|     | Shalu           |                                                                                                               |                                                                                                                                                                                                                                                            |
|     | Marhach         |                                                                                                               |                                                                                                                                                                                                                                                            |
|     | Bai             |                                                                                                               |                                                                                                                                                                                                                                                            |
|     | Pian            |                                                                                                               |                                                                                                                                                                                                                                                            |
|     | Galagchi        |                                                                                                               |                                                                                                                                                                                                                                                            |

The following are included in the forest and may be cultivated as hereto fore:-

| Khasra No. | Proprietor                  | Area<br>Bh. Pa. |
|------------|-----------------------------|-----------------|
| 267,268    | Namu 7 C. Son of Budu Kanet | 0 2+2           |

|     |                         |                |            |
|-----|-------------------------|----------------|------------|
| 269 | Ratin son of Shaj Kanet | 0              | 2          |
|     |                         | <b>Total:-</b> | <b>0 6</b> |

Grass land is also included but not in proprietary right.

**2/13 Shakwa Area:- 3800 Acres (1537.84 Hect)**

Name of Kothi:- Kot

Boundaries:- North:- Bhimdwari Nal, Kurpan Stream and boundary of Shilligirchi

East: - Boundary of Bushahr

South:- Marhaun Dhar.

West: - Dacher dhar or Bishladhar.

| No.                   | Name of Hamlets | Rights                                                                                    | Remarks                                                                                                                            |
|-----------------------|-----------------|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| 1                     | Kothi Kot       | Karu, Dhoop, etc.                                                                         | This block lies above the girchi reserve and contains veru little forest being for the most part bare and of use only for grazing. |
| <b><u>Thaches</u></b> |                 |                                                                                           |                                                                                                                                    |
| 1                     | Chil            | These nigahrs are grazed in Sawan, Bhadron by Narain Das Rasu as for taches in Kleo No.11 |                                                                                                                                    |
|                       | Marhaun         |                                                                                           |                                                                                                                                    |
|                       | Kadwar          |                                                                                           |                                                                                                                                    |
|                       | Karna           |                                                                                           |                                                                                                                                    |
|                       | Garlandi        |                                                                                           |                                                                                                                                    |
| 2                     | Ducher          | Are merely passed through                                                                 |                                                                                                                                    |
|                       | Kasrutu         |                                                                                           |                                                                                                                                    |

There is no cultivation in this forest.

**2/14 Danda : Area:- 4000 Acres (1618.78 Hect)**

Name of Kothi:- Bahramgarh

Boundaries:- North:- Natural limit of the forest boundary of Outer and Inner Seraj.

East: - Bhimdwari Nal.

South:- Kurpan stream.

West: - Demarcated line along Thachru Dhar , to Sagao Nal and Bratigahr.

| No. | Name of Hamlets | Rights                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Danda           | These nigahrs are grazed in Sawan,Bhadron by Jai Ram son of Parm Das of Nor, & with him the sheep of Damar,Bagir and Nor. Kungsha nigahr in Sawan,Bhadron by Kalaunt , Kaloti and Jau villages.<br><br>Bhimdwari nighar:- Claims for the grazing in this nigahr were put by Jai Dass, Rasu, of Tinder and Parm Das, Rasu of Kashaini in Kandi Kothi. It was arranged that Jai Dass should merely pass through this nigahr to Kot Kothi and should not remain in the thach for razing and that Param Dass should graze only in Baharamgarh kothi, not in Kot Kothi: that is his sheep should remain on right side of Bhimdwari Nal. With Parm Das come sheep of Dawa, Jaon & Kashaini. Thachru is only past through by sheep of Tinder and Jawagi. | This forest lies above the Girchi Reserve, and is of no use except for grazing. There is a large area of bare waste above this forest. There are three Rasus in the Chil Phati- Parm Das of Nohr, Parm Das of Kashair Manohar of Tharla, and any hemlet may go with them, but not saperately. The record gives the ordinary arrangement. If there is an early harvest they meet in in Jait, otherwise in Har. They manure fields during Har and go direct to the nigahrs, where they remain during Sawan and Bhandron, and then come to the gahrs for Assauj. They return to their seprate homes in Kartik. The sheep of Bharamgarh Kothi do not go to Mandi in winter, but remain in the lower parts of the Kothi. |
|     | Dungothua       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|     | Badlar          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|     |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

There is no cultivation in this forest.

**2/15 Dwari Danda : Area:- 1680 Acres (679.89 Hect)**

Name of Kothi:- Bahramgarh

Boundaries:- North:- Natural limit of the forest between Inner and Outer Seraj.

East: - Bratigahr.

South:- Line from Bung Peak to Junction of Sagao and Bratigahr.

West: - Bung Dhar.

| No.                   | Name of Hamlets | Rights                                                                                                  | Remarks                               |
|-----------------------|-----------------|---------------------------------------------------------------------------------------------------------|---------------------------------------|
| 1                     | Chail Phati     | Karu , nihani, taangul and mino forest Produce                                                          | This forest is similar to 2/14 Danda. |
| <b><u>Thaches</u></b> |                 |                                                                                                         |                                       |
| 1                     | Shirlao         | These gahrs are grazed in Assuaj and Kartik by Jai Ram son of Parm Dass of Nor, as for Danda in No. 14. |                                       |
|                       | Sumbra          |                                                                                                         |                                       |
|                       | Nago            |                                                                                                         |                                       |
|                       | Halo            |                                                                                                         |                                       |
| 2                     | Dwari           | These nigahrs are grazed in Sawan, Bhandron, by Tharla Sagopha, Jarot, under Manohar Rasu of Tharla.    |                                       |
|                       | Danda           |                                                                                                         |                                       |
|                       | Nainu Nal       |                                                                                                         |                                       |
|                       | Dublu-Kut       |                                                                                                         |                                       |

|  |         |  |
|--|---------|--|
|  | Menance |  |
|--|---------|--|

**2/16 Bernagi : Area:- 1260 Acres (509.91 Hect)**

Name of Kothi:- Bahramgarh

Boundaries:- North:-

Natural limit of the forest boundary of Inner and Outer Seraj.

East: - Bung Dhar and Samattan Nal.

South:- Cultivation of Kader Dogra, Junda Dogra and Duga lama.

West: - Kyendi-gad Cho nal & Bansha Rock.

| No.            | Name of Hamlets      | Rights                                                                                                                                                                        | Remarks                                                                                                                                                                                                                                                               |  |
|----------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 1              | Duga lama            | Full rights.                                                                                                                                                                  | This forest lies on the left bank of the Kyendi gad, on the right of which there are several villages with considerable areas of cultivation. No pines need to be cut for agricultural implements, there are oak, maple, jamu etc. in sufficient no. for the purpose. |  |
|                | Judua Dogra          |                                                                                                                                                                               |                                                                                                                                                                                                                                                                       |  |
|                | Kader Dogra          |                                                                                                                                                                               |                                                                                                                                                                                                                                                                       |  |
| 2              | Bernagi cultivation, | Full rights except building timber.                                                                                                                                           |                                                                                                                                                                                                                                                                       |  |
| 3              | Damar Jau.           |                                                                                                                                                                               |                                                                                                                                                                                                                                                                       |  |
| 4              | Kaloti               | Full rights except building timber and agricultural implements.                                                                                                               |                                                                                                                                                                                                                                                                       |  |
| 5              | Bagir                | Grass, Nirgal, fodder leaves (ban) and sheep grazing in Baisakh,jait. Fodder leaves ( ban Mohru ) grass, nirgal,Agricultural implements, sheep grazing in Baisakh and Jait.   |                                                                                                                                                                                                                                                                       |  |
|                | Kalaunt              |                                                                                                                                                                               |                                                                                                                                                                                                                                                                       |  |
| 6              | Jaon                 |                                                                                                                                                                               |                                                                                                                                                                                                                                                                       |  |
| 7              | Tharla               | Grass only.                                                                                                                                                                   |                                                                                                                                                                                                                                                                       |  |
| 8              | Kurpangahr dogra     | Full rights except grazing.                                                                                                                                                   |                                                                                                                                                                                                                                                                       |  |
|                | Singh's Dogra        |                                                                                                                                                                               |                                                                                                                                                                                                                                                                       |  |
|                | Alcot Dogra.         |                                                                                                                                                                               |                                                                                                                                                                                                                                                                       |  |
| <u>Thaches</u> |                      |                                                                                                                                                                               |                                                                                                                                                                                                                                                                       |  |
| 1              | Gada bojan           | These gahrs are grazed in Har ( but only low down ) and in Assauj and Kartik by Parm Das, Rasu of Kashaini in Kandi Kothi, and with him the sheep of Dawa, jaon and Kashaini. |                                                                                                                                                                                                                                                                       |  |
|                | Pata bojan           |                                                                                                                                                                               |                                                                                                                                                                                                                                                                       |  |
|                | Hans-dei             |                                                                                                                                                                               |                                                                                                                                                                                                                                                                       |  |
|                | Chlach               |                                                                                                                                                                               |                                                                                                                                                                                                                                                                       |  |

**2/17 Dadai : Area:- 1240 Acres (501.79 Hect)**

Name of Kothi:- Bahramgarh

Boundaries:- North:- Natural limit of the forest boundary of Inner and Outer Seraj.

East: - Keyendi gad and demarcated line above Badime , Bad, Bashleo grass lands and cultivation of Kalunt to Sungra Dhar.

South:- Surga dhar to Tandu & Tandu Dhar to Rackokari Dhar.

West: - Rachokari Dhar.

| No. | Name of Hamlets | Rights                                                                                                                                       | Remarks                                                                                                                                                                                                         |
|-----|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Kalaunt         | Full rights                                                                                                                                  | The part of the forest towards Kandu, I Class protected forests, is well stocked, containing Rai & Tosh, and a great many broad leaved trees. But the part towards the main range between Outer Seraj and Inner |
| 2   | Bagir           | Fodder leaves (kharshu), agricultural implements, building timber (Rai, Tosh) and wood for fuel, sheep grazing in winter.                    |                                                                                                                                                                                                                 |
| 3   | Damar Jau       | Building timber ( Rai, Tosh) and fodder leaves ( Kharshu) Building timber (Rai, Tosh) , fodder Leaves (Kharshu) and agricultural implements. |                                                                                                                                                                                                                 |
| 4   | Kaloti          | Building timber ( Rai , Tosh ), fodder leaves ( Kharshu) and agricultural implements.                                                        |                                                                                                                                                                                                                 |
| 5   | Tharla          | Cattle grazing in Chitr , Baisakh, Sheep grazing, building timber (Rai , Tosh) fodder leaves ( Kharshu) agricultural implements.             |                                                                                                                                                                                                                 |

| <u>Thaches</u> |             |                                                                                                         |                                                                                                                            |
|----------------|-------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| 1              | Jula        | These gahrs are grazed by Tharla, Sagopha, Jarot , in Assauj and Kartik , under Manohar, Rasu of Tharla | There are Kharshu, mandar, jamu in this forest for agricultural implements; and there is no reason by pines should be cut. |
|                | Pleia       |                                                                                                         |                                                                                                                            |
|                | Labru       |                                                                                                         |                                                                                                                            |
|                | Rachokri    |                                                                                                         |                                                                                                                            |
|                | Gai         |                                                                                                         |                                                                                                                            |
| 2              | Mereil gahr | Grased as Hansa-dei in Bernagi No. 16                                                                   |                                                                                                                            |
| 3              | Reona       | These gahrs are grazed in Assauj and Kartik by Kaloti, Kalaunt and Jau.                                 |                                                                                                                            |
|                | Kalatra     |                                                                                                         |                                                                                                                            |
| 4              | Muno nighar | Is grazed in Sawan and a few days in Bhadron by Manohar Rasu, as for Jula Gahr.                         |                                                                                                                            |

**2/18**  
**Rachokri :**  
**Area:- 840**  
**Acres**  
**(339.94**

### **Hect)**

Name of Kothi:- Bahramgarh

Boundaries:- North:- Ridge between Inner and Outer Seraj.

East: - Rachokri dhar.

South:- Demarcated line above cultivation of Ganga Ram.

West: - Basleo Pass Road.

| No. | Name of Hamlets | Rights                                                                                                           | Remarks                                                                                                                                                                                                                                                                                                                                   |
|-----|-----------------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Sarahan         | Full rights except Cattle grazing                                                                                | The Rachokri and Mandrao forests occupy the basin of the Basleo Pass. The uppler parts consI of Rai, Tosh,but there are many broad leaved trees and Kail. Mandar, Jamu and Kharshuare found in these forests and pines need not be cut for agricultural implements. There is only one flock ( Shai) in this Phati, which meets the end of |
| 2   | Rachokri        | These gahrs are grazed Har, end of Bhadron.Assauj and part of Kartik by Sarahan village, Rangu, Rasu of Sarahan. |                                                                                                                                                                                                                                                                                                                                           |
|     | Maraol          |                                                                                                                  |                                                                                                                                                                                                                                                                                                                                           |
|     | Bal             |                                                                                                                  |                                                                                                                                                                                                                                                                                                                                           |
|     | Khunan          |                                                                                                                  |                                                                                                                                                                                                                                                                                                                                           |
|     | Mandra          |                                                                                                                  |                                                                                                                                                                                                                                                                                                                                           |
|     | Niara           |                                                                                                                  |                                                                                                                                                                                                                                                                                                                                           |

|  |  |  |                                                                                                                                               |
|--|--|--|-----------------------------------------------------------------------------------------------------------------------------------------------|
|  |  |  | Jait;it grazes near cultivation for ten or fifteen days in Har,there goes to the gahrs and nigahrs, and separates in the beginning of Kartik. |
|--|--|--|-----------------------------------------------------------------------------------------------------------------------------------------------|

**2/19 Mandrao : Area:- 1886 Acres (763.25 Hect)**

Name of Kothi:- Bahramgarh

Boundaries:- North:- Ridge between Inner and Outer Seraj.

East: - Basleo Pass Road and cultivation of Deaug Jaler, Daler.

South:- Juguth Nal, Bisleo Nal to Gargicha Gai.

West: - Mandrao Dhar.

| No.                   | Name of Hamlets      | Rights                                                                                                                                                                                                 | Remarks                                                                                                                                                  |
|-----------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1                     | Deaug                | Full rights                                                                                                                                                                                            | See No. 18<br>The Basleo thach lies between the two forests Rachokri and Mandrao , and seems to be grazed by both flocks of sarahanand of Jaler Phaties. |
|                       | Daler                |                                                                                                                                                                                                        |                                                                                                                                                          |
|                       | Jaler                |                                                                                                                                                                                                        |                                                                                                                                                          |
| 2                     | Sarahan              | Full rights except grazing.                                                                                                                                                                            |                                                                                                                                                          |
| <b><u>Thaches</u></b> |                      |                                                                                                                                                                                                        |                                                                                                                                                          |
| 1                     | Bi- gahr             | The gahrs are grazed in Assauj , and the nigahre in Sawan and Bhadron by Sarahan under Rangu, Rasu.                                                                                                    |                                                                                                                                                          |
|                       | Bada-rewar gahr or   |                                                                                                                                                                                                        |                                                                                                                                                          |
|                       | Mandrao to Nigahr.   |                                                                                                                                                                                                        |                                                                                                                                                          |
|                       | Thua-age Nigahr      |                                                                                                                                                                                                        |                                                                                                                                                          |
|                       | Bani nigahr          |                                                                                                                                                                                                        |                                                                                                                                                          |
|                       | Bajgao nigahr        |                                                                                                                                                                                                        |                                                                                                                                                          |
| 2                     | Deota gahr           | The gajrs are grazed in the end of Bhadron and Assauj , and the nigahrs in Sawan and beginning of Bhadron by Jaler Phati and Iswa , Sikhan , Barna , Shalat of Nohr Phati , under Jeo , Rasu of Jaler. |                                                                                                                                                          |
|                       | Kalphala gahr        |                                                                                                                                                                                                        |                                                                                                                                                          |
|                       | Mandraoi gahr        |                                                                                                                                                                                                        |                                                                                                                                                          |
|                       | Bogli gahr           |                                                                                                                                                                                                        |                                                                                                                                                          |
|                       | Balindi gahr         |                                                                                                                                                                                                        |                                                                                                                                                          |
|                       | Mandrach gahr(1)     |                                                                                                                                                                                                        |                                                                                                                                                          |
|                       | Mandrach gahr(2)     |                                                                                                                                                                                                        |                                                                                                                                                          |
|                       | Gai nigahr           |                                                                                                                                                                                                        |                                                                                                                                                          |
|                       | Sawan-ka-thach nigah |                                                                                                                                                                                                        |                                                                                                                                                          |

**2/20 Daman : Area:- 552 Acres (223.38 Hect)**

Name of Kothi:- Naraingarh

Boundaries:- North:- Nachlach Dhar.

East: - Cultivation of Chtta Sharsha, By Galeri Precipice , above Rupala grass land , and by Kardad Nal into Nagala Nal.

South:- Nagala Nal.

West: - Nonukanda.

| No. | Name of Hamlets | Rights      | Remarks                       |
|-----|-----------------|-------------|-------------------------------|
| 1   | Chota Sharsha   | Full rights | Forest No. 20,21,22,23,24 are |



|                       |              |                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       | Bada Sharsha |                                                                                                                                                                                           | on the ridge separating the Kurpan from the Anni stream , and deviding the outer Seraj in to two parts. The forest are similar in character, containing mostly Rai, Tosh and Kharshu. The sheep going to Shakti and Kanawar pass along this ridge , as far as Bajanda , above from which some go by Dimaged and some by Kwandagai . These five forests cluster round three peaks on the ridge Jagatpur farthest south, Nonu- Kanda in the middle, and Saracho on the North. Kotha Nal No. 25 and Khneo No.26 are also on the Naraigarh ridge, but lie away from three peaks further north, but they are similar in character. |
|                       | Kuri         |                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b><u>Thaches</u></b> |              |                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 1                     | Garao        | These gahrs are grazed in the end of Jait and in the beginning of Har and in Assauj by Parsu, Rasu and with him the sheep of Chhota Sharsha , Bara Sharsha, Dhara Margi Trala Nala Margi. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                       | Niara        |                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                       | Galili       |                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

**2/21 Patel : Area:- 582 Acres (235.53 Hect)**

Name of Kothi:- Naraingarh.

Boundaries:- North:- Demarcated line above Brahola.

East: - Kaili Dhar.

South:- Lantanda Dhar to Jagatpur.

West: - Nonukanda.

| No.                    | Name of Hamlets | Rights                                                                                                              | Remarks |
|------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------|---------|
| 1                      | Barhola         | Full rights but sheep grazing only in Baisakh Grass and sheep grazing in ChIr, Baisakh. Full rights except grazing. |         |
|                        | Bara Sharsha:   |                                                                                                                     |         |
|                        | Daplad:         |                                                                                                                     |         |
| <b><u>Thaches.</u></b> |                 |                                                                                                                     |         |
| 1                      | Solo            | These gahrs are grazed in Jait, Har by Parsu, Rasu as for Daman No. 20.                                             |         |
|                        | Bagalu          |                                                                                                                     |         |

In Daman and Patal rai poles are cut for the Sanj.

No cultivation is included in this forest. But Bara Sharsha has a ghayan (grass land) not recorded in proprietary right. Grass may be cut as hereto fore.

**2/22 Bmaur Jadaril ;Area:- 1110 Acres (449.21 Hect)**

Name of Kothi:- Naraingarh.

Boundaries:- North:- Khanora Dhar.

East: - Nonu Kanda and Jagatpur.

South:- Nonu Kanda.

West: - Nonukanda

| No. | Name of Hamlets               | Rights                                                                                                                                                                               | Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
|-----|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 1   | Kashila                       | Full rights                                                                                                                                                                          | See No. 20. This forest supplies the want of not only Naraingarh, but part of Srigarh Kothi, both in sheep and in timber. In Srigarh Kothi there are only Kelo, Kaila and some Rai and most of the trees are small and do not cut well in to planks so the Srigarh Kothi comes to this forest for the large trees. The sheep grazing is not wel defined in actual practice but the record has been made to accord s far as possible with exling facts. There are many flocks to be provided for, and the grazing is limited the suitable only for the rains, so that the owners of large flocks send their sheep to Inner Seraj to Rupi and even to Lahual. The grazing in end to be only passes through the thaches, spending a few days here and there, where ever grazing can be found.<br>In Srigarh Kothi, there are six Rasus:-<br>1. Dodu of Kater and with him Kanda and Dalash Gulog, Kharog, Tikri , JabraDhar, Thanog.<br>2. Parsu of Galog and with him the sheep of the same villages. Some go with Dodu and some with Parsu.<br>3. Jogi of Ramoi and with him Ramoi, Chouki, Gung Bangu jakhar and |  |
|     |                               |                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|     | Dim                           |                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| 2   | Gard                          | Full rights except cattle grazing                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| 3   | Khaneri Dogri                 | Full rights from Mangsir to Baisakh                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|     | Gwainti Dogri                 |                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| 4   | Shikari                       | FFull rights except grazing                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|     | Panokar                       |                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| 5   | Bingal                        | Nirgal and gari                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|     | Jaban Phati of                |                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|     | Srigarh Kothi                 |                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| 6   | Srigharh Kothi                | Tosh trees for planks                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| 7   | Maroldal                      | Kharshu leaves for fodder.                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|     | Lutui bil                     |                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|     | Kater                         |                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|     | Kanda                         |                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|     | Chanoti of Srigarh Kothi      |                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| 8   | Bingul Phati of Srigarh Kothi | Kharshu for agricultural implements.                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| 9   | Maroldal                      | Kharshu for Hal, Rai for sanj and Jamu for samain.                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|     | Lutuibil                      |                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|     | Phadel                        |                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|     | Brandi                        |                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| 10  | Thanali                       | Kharshu for Hal                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|     | Namhong                       |                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|     | Larhali                       |                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|     | Barog                         |                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|     | Buhan                         |                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|     | Dhar                          |                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|     | Tagel                         |                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| 1   | Bagali gahr                   | Grazed by Rasus Narpat Tula, Tulsu, Sant Dass, Mani Ram and with them the villages noted hereafter.                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| 2   | Kathila gahr                  | Grazed by Rasus Sant Dass, Mani Ram also by Dodu , Parsu , Jogi, Chingu, Kalu, Kiru of Srigarh ,as under grazed by Rasu Kanshi with right of way to Dodu and Parsu Rasus of Srigarh. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| 3   | Bandi-ratini gahr             | Grazed by Rasus Narpat and Tulsu                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| 4   | Kiun-jot gahr                 | Grazed by Rasus Narpat and Sant Dass.                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| 5   | Nonu gahr                     | Grazed by Rasu Narpat                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| 6   | Khaneri gahr                  | Grazed by Rasu Narpat                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| 7   | Chalaoli gahr                 | Grazed by Rasu Kanshi & Tulsu                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |

|    |                     |                                                                                                      |                                                                                                                                                                                                                                |
|----|---------------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8  | Raitu gahr          | These gahr are grazed in Jait, Har and Assauj and with the Rasus go the following villages:-         | Hoa.<br>4. Chingu of Artha and with him Namhong, Dhar, Dashog, Birgaidhar, Dogri.<br>5. Kalu of Dadol and with him Dadol, Taasha, Dhair, Mungri and Thalona.<br>6. Kiru of Namhong and with him Namhong and with Kanda Phader. |
| 9  | Narpat Rasu of Gard | Gard, Shamesha, Thanog and Lutui bil                                                                 |                                                                                                                                                                                                                                |
| 10 | Ranji of Dim        | Dim Kalo.                                                                                            |                                                                                                                                                                                                                                |
| 11 | Kanshi of Dogi      | Nathral, Dau, Jau, Chabol, Dogi, Bakhnau                                                             |                                                                                                                                                                                                                                |
| 12 | Tula of Dogi        | Gard, Dogi, Kanda, Shirsha-pano.                                                                     |                                                                                                                                                                                                                                |
| 13 | Tulsu of Dogi       | Dogi, Satrao, Balaol, Shamshar, Kado                                                                 |                                                                                                                                                                                                                                |
| 14 | Sant Dass of Dogi   | Guloi, Kanda, Shamshar, Bhutidhar, Kutua, Dhogi, Thog and Jaon.                                      |                                                                                                                                                                                                                                |
| 15 | Mani Ram of Duga    | Shagan, Duga, Chabol, Tapranda,                                                                      |                                                                                                                                                                                                                                |
| 16 | Sham Rasu of Kutua  | Jau, Nathral, Kado, Kutua                                                                            |                                                                                                                                                                                                                                |
| 17 | Ablu Rasu of Kutua  | --do--                                                                                               |                                                                                                                                                                                                                                |
|    |                     | In winter sheep and goats remained in the following taches in which chan or seeda have been put up:- |                                                                                                                                                                                                                                |
| 18 | Bagali              | Sheep of Dogi, Gard, Kater and Dhabol                                                                |                                                                                                                                                                                                                                |
| 19 | Raitu               | Sheep of Dogi and Satrao                                                                             |                                                                                                                                                                                                                                |
| 20 | Kuinjot             | Sheep of Duga and Tapranda                                                                           |                                                                                                                                                                                                                                |

### **2/23 Khanora ;Area:- 311 Acres (125.86 Hect)**

Name of Kothi:- Naraingarh.

Boundaries:- North:- Tehli Dhar.

East: - Nonu Kanda.

South:- Khanoradhar to Guskidhar.

West: - Cultivation of Shagan & Duga.

| No.                   | Name of Hamlets | Rights                                                                                                                       | Remarks                                                                                                                                          |  |
|-----------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 1                     | Sahgan          | Full rights                                                                                                                  | See No. 22 There are no mandru in this forest and Rai poles are cut for sanj. Kharshu , Mohru , Jamu are used for the other parts of the plough. |  |
|                       | Marger          |                                                                                                                              |                                                                                                                                                  |  |
|                       | Duga            |                                                                                                                              |                                                                                                                                                  |  |
| 2                     | Dhogi           | Full rights except Grazing, Khasrhu for ploughs                                                                              |                                                                                                                                                  |  |
|                       | Dhar            |                                                                                                                              |                                                                                                                                                  |  |
|                       | Jai             |                                                                                                                              |                                                                                                                                                  |  |
|                       | Chabol          |                                                                                                                              |                                                                                                                                                  |  |
|                       | Kot             |                                                                                                                              |                                                                                                                                                  |  |
| 3                     | Daman           | Kharshu leaves for fodder and Kharshu for plough                                                                             |                                                                                                                                                  |  |
|                       | Kelo            |                                                                                                                              |                                                                                                                                                  |  |
|                       | Chowai          |                                                                                                                              |                                                                                                                                                  |  |
| <b><u>Thaches</u></b> |                 |                                                                                                                              |                                                                                                                                                  |  |
| 1                     | Khanora gahr    | Gahr is grazed by Rasu Narpat, Ranji,Tulsu,Sant Das and Mani Ram. See No. 22                                                 |                                                                                                                                                  |  |
| 2                     | Arnao gahr      | Grazed by Rasu Sant Das and Mani Ram.                                                                                        |                                                                                                                                                  |  |
| 3                     | Mohcha gahr     | ----do----                                                                                                                   |                                                                                                                                                  |  |
| 4                     | Tehli gahr      | Grazed by Rasu Tulsu and Mani Ram.                                                                                           |                                                                                                                                                  |  |
| 5                     | Arnao           | In these taches Shagan village keeps sheep in Kartik,Mangshir, Poash and Magh in chans,Kharshu leaves being given as fodder. |                                                                                                                                                  |  |
|                       | Khanora         |                                                                                                                              |                                                                                                                                                  |  |

**2/24 Malreo or Bung ;Area:- 165 Acres (66.77 Hect.)**

Name of Kothi:- Naraingarh.

Boundaries: - North:- Cultivation of Dau.

East: - Naraingarh Dhar.

South: - Nono Kanda.

West: - Phalan Gad.

| No.                   | Name of Hamlets   | Rights                                                                                                                         | Remarks                                                                                                                                                                                                   |  |
|-----------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 1                     | Jau               | Full rights                                                                                                                    | See No. There are Rai, Tosh, Kharshu, Jamu in this forest but few or no mandru; and so Rai poles are cut for sanj. Saracho thach is passed through by sheep going to summer runs in Rupi and Inner Seraj. |  |
|                       | Dau               |                                                                                                                                |                                                                                                                                                                                                           |  |
| 2                     | Ding              | Kharshu leaves in Mangsir and Posh.                                                                                            |                                                                                                                                                                                                           |  |
| 3                     | Nathral           | Rai & Tosh for planks.                                                                                                         |                                                                                                                                                                                                           |  |
| <b><u>Thaches</u></b> |                   |                                                                                                                                |                                                                                                                                                                                                           |  |
| 1                     | Saracho           | These gahrs are grazed in Jait, Har, Assauj,by Kanshi Rasu of Dogi and eith him the sheep of the villagers mentioned No. 22.   |                                                                                                                                                                                                           |  |
|                       | Bung              |                                                                                                                                |                                                                                                                                                                                                           |  |
| 2                     | Piaru of Dau      | Have chans in the forest where sheep and goats are kept in Katik Mangsir, Posh, Magh and Kharshu leaves being given as fodder. |                                                                                                                                                                                                           |  |
|                       | Har Das of Dau    |                                                                                                                                |                                                                                                                                                                                                           |  |
|                       | Sham Das of Kutua |                                                                                                                                |                                                                                                                                                                                                           |  |

**2/25 Kota Nal Area :- 442 acres (178.47 Hect.)**

Name of Kothi:- Naraingarh.

Boundaries: - North:- Kot Nal and cultivation of Mohlu Kohli.

East: - Rampur Dhar.

South: - Shohan Dhar.

West: - Prepipice..

| No.            | Name of Hamlets | Rights                                                   | Remarks                                                                                                                                                                           |
|----------------|-----------------|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1              | Nichla Tarala   | Full rights                                              | See No. 20.                                                                                                                                                                       |
|                | Upper Tarala    | Full rights but they graze sheep only in Katik and Jait. | This forest contains many deciduous tree compared with the Outer Seraj forests generally. There are Kharshu Palan, Mandru , Jamu , Bomphali, Hawansh for agricultural implements. |
| 2              | Nanal           | Dry and fallen wood for fuel.                            |                                                                                                                                                                                   |
|                |                 |                                                          |                                                                                                                                                                                   |
| <u>Thaches</u> |                 |                                                          |                                                                                                                                                                                   |
| 1              | Marar           | Gahrs are grazed by Tarala sheep in Jait.                |                                                                                                                                                                                   |
|                | Bajai           |                                                          |                                                                                                                                                                                   |
| 2              | Sarna           | On top of ridge and on high way for sheep to Kinnau & c. |                                                                                                                                                                                   |

**2/26 Khaneo Area:- 1005 acres (406.72 Hect.)**

Name of Kothi:- Naraingarh.

Boundaries: - North:- Thach gad being boundary of Naraingarh and Raghupur Kothies.  
 East: - Kamlahi Dhar.  
 South: - Nai Nal.  
 West: - Demarcation line by Mohru and Bagoli taches and cultivation of Sila-aran..

| No.                   | Name of Hamlets | Rights                                                                                                                                                            | Remarks                                                                                                                                                   |
|-----------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1                     | Bachair         | Full rights                                                                                                                                                       | See No.20. There are mandru in this forest but not many and Rai Poles are cut for the sanj, and palan, hawansh and Kharshu for other parts of the plough. |
| 2                     | Laphal          | Full rights except                                                                                                                                                |                                                                                                                                                           |
|                       | Ramal           | Cattle grazing.                                                                                                                                                   |                                                                                                                                                           |
| 3                     | Ludag           | Building timber (Tosh)<br>Kharshu leaves.                                                                                                                         |                                                                                                                                                           |
| <b><u>Thaches</u></b> |                 |                                                                                                                                                                   |                                                                                                                                                           |
| 1                     | Khaneo gahr     | The gahrs are grazed in Har and Assauj , and nigarhs in Sawan and Bhadron by Laphal, Buchair, Ladag , Rumal, Nanal, Jaon and Banas villages under Piari Ram Rasu. |                                                                                                                                                           |
|                       | Dagach gahr     |                                                                                                                                                                   |                                                                                                                                                           |
|                       | Muhra gahr      |                                                                                                                                                                   |                                                                                                                                                           |
|                       | Kud gahr        |                                                                                                                                                                   |                                                                                                                                                           |
|                       | Dadapar nigahr  |                                                                                                                                                                   |                                                                                                                                                           |

**2/27 Gohan Area:- 888 acres (359.37 Hect.)**

Name of Kothi:- Jalori.

Boundaries: - North:- Chalan Nal..  
 East: - Dima gad and cultivation of Jaun-aran.  
 South: - Gugedhar to Gadum Nag..  
 West: - Kwanda Dhar.

| No.                                                                                                   | Name of Hamlets           | Rights                                                    | Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------------------------------------------------------------------------|---------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1                                                                                                     | Kutua                     | Full rights except grazing, Nagot and Chater have ghayans | There are only Rai and Tosh in this forest and deciduous trees is on the cold sode of the ridge kot and is at some dIance from any villages in Jalori Kothi, but some small hamlets in Buchair Phati lie near the forest and graze in it. Otherwise the demands on it are mostly for timber grass and agricultural implements. Mandru Jamu, Palan, Rai and Tosh are cut for agricultural implements and Rai and Tosh are lopped for charcoal, as well as manure. |
|                                                                                                       | Nagot                     |                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                       | Jamel                     |                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                       | Chater                    |                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                       | Darli                     |                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 2                                                                                                     | Shagag                    | Grass ghayans.                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                       | Rahel of Jalori Koth of   |                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                       | Nanal                     | Grass ghayans.                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                       | Ladag of Naraingarh Kothi |                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 3                                                                                                     | Parkot                    | Tosh of planks.                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 4                                                                                                     | Ragel                     | Agricultural implements.                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 5                                                                                                     | Tiper                     | Charcoal                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 6                                                                                                     | Jaon of Buchair Phati     | Full rights including ghayans and charcoal.               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                       | Jaon-aoun                 |                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                       | Sana Dogri                |                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b><u>Thaches</u></b>                                                                                 |                           |                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Gahan gahr is grazed in Jait by Sham, Rasu of Nagot , and with him the sheep of Nagot, Ragel Cdsdhat. |                           |                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

The following fields are included in the forest and may be cultivated as heretofore.

| Khasras | Proprietors                  | Area       |           |
|---------|------------------------------|------------|-----------|
|         |                              | <u>Bh.</u> | <u>Pa</u> |
| 8       | Daya Ram & Co. Sons of Gopal | 0          | 1         |
| 2       | Murkhi son of Jatu           | 0          | 1         |
| 6       | Ananat Ram son of Abla       | 0          | 1         |
| 10      | Jamal son of Narpat          | 0          | 1         |
| 9       | Roop Dass son of Bakhsha     | 0          | 1         |
| 7       | Jagrath son of Keshu         | 0          | 1         |
| 5       | Ude Ram son of Narainu       | 0          | 1         |
| 4       | Maafi Shamsri Deo            | 0          | 1         |
|         | Total:-                      | <b>0</b>   | <b>8</b>  |

Grass lands included in are not held in proprietary rights. Grass may be cut as heretofore.

**2/28 Jalori Area:- 2779 acres (922.30 Hect.)**

Name of Kothi:- Jalori.

Boundaries: - North:- Ridge between Outer and Inner Seraj.

East: - Kwanadadhar.

South: - Nagai dhar and Gadum Dhar.

West: - Demarcated line by cultivation of Jogi,  
Bansira Rai, Bata Dhartu, Kuda-  
aol, Poktu above Batala Dogri,  
cultivation of Bagthori, Kanala,  
Dagser, Dewal- banda to Nagu-rakas.

| No. | Name of Hamlets | Rights                                                                      | Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----|-----------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Nagnidhar       | Full rights                                                                 | This foreslies well up on the ridge ridge above Kot. In the lower part there are Rai & Tosh , but the main part of the forest contains only Kharshu. There are few fodder trees below and the demand s on the forest for Kharshu leaves is great. Rai poles for the sanj of the plough are found outside this forest, in which the Rai are full grown,and are unfit for this purpose. Many hamlets in this Jalori Kothi have rights ( aok and aok leaves) in Raghupur Kothi on the right bank of the Khaner gad, which separates the two |
|     | Shagag          |                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|     | Rahel           |                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|     | Natherla        |                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|     | Bagthori        |                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|     | Keioa dhar      |                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|     | Kanala          |                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|     | Dagsar          |                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|     | Rashandi        |                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 2   | Jet             | Full rights except cattle grazing.                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 3   | Chaini          | Kharshu leaves for fodder nirgal, Kharshu and Jamu agricultural implements. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|     | Gagina          |                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|     | Chamungad       |                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|     | Mahwi           |                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|     | Damar           |                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|     | Kather          |                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|     | Bandil          |                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|     | Bagicha         |                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

|                       |              |                                                                                                                                                                                                                                                   |                                                                                              |
|-----------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
|                       | Chauki       |                                                                                                                                                                                                                                                   | Kothis. As far as possible, the rights have been provided for outside the demarcated forest. |
|                       | Karmer       |                                                                                                                                                                                                                                                   |                                                                                              |
|                       | Khun         |                                                                                                                                                                                                                                                   |                                                                                              |
|                       | Charmattan   |                                                                                                                                                                                                                                                   |                                                                                              |
|                       | Mathaina     |                                                                                                                                                                                                                                                   |                                                                                              |
|                       | Dabar        |                                                                                                                                                                                                                                                   |                                                                                              |
|                       | Batala       |                                                                                                                                                                                                                                                   |                                                                                              |
|                       | Khanag       |                                                                                                                                                                                                                                                   |                                                                                              |
|                       | Bargohi      |                                                                                                                                                                                                                                                   |                                                                                              |
|                       | Jaon         |                                                                                                                                                                                                                                                   |                                                                                              |
|                       | Parkot       |                                                                                                                                                                                                                                                   |                                                                                              |
|                       | Nagral       |                                                                                                                                                                                                                                                   |                                                                                              |
|                       | Shai         |                                                                                                                                                                                                                                                   |                                                                                              |
|                       | Ropa         |                                                                                                                                                                                                                                                   |                                                                                              |
| 4                     | Bali         | Kharsu leaves for fodder.                                                                                                                                                                                                                         |                                                                                              |
|                       | Jadar        |                                                                                                                                                                                                                                                   |                                                                                              |
|                       | Banala       |                                                                                                                                                                                                                                                   |                                                                                              |
|                       | Kost         |                                                                                                                                                                                                                                                   |                                                                                              |
|                       | Ragel        |                                                                                                                                                                                                                                                   |                                                                                              |
|                       | Chakal       |                                                                                                                                                                                                                                                   |                                                                                              |
| <b><u>Thaches</u></b> |              |                                                                                                                                                                                                                                                   |                                                                                              |
| 1                     | Tilauti gahr | These gahrs are grazed in Jait, Har and Assauj by the sheep of Bagthori , Jer, Shai, Ropa, Kanala, Rashandi, Dagsar , Khanag, Bargohl, Banala, Jaon, Jater, Kot under Hukmi Negi, Rasu.                                                           |                                                                                              |
|                       | Lama thach   |                                                                                                                                                                                                                                                   |                                                                                              |
|                       | Chalad       |                                                                                                                                                                                                                                                   |                                                                                              |
|                       | Sareol       |                                                                                                                                                                                                                                                   |                                                                                              |
|                       | Goi thach    |                                                                                                                                                                                                                                                   |                                                                                              |
|                       | Nawi thach   |                                                                                                                                                                                                                                                   |                                                                                              |
|                       | Bata-dwari   |                                                                                                                                                                                                                                                   |                                                                                              |
|                       | Kana-kandi   |                                                                                                                                                                                                                                                   |                                                                                              |
|                       | Charuni      |                                                                                                                                                                                                                                                   |                                                                                              |
|                       | Naracharu    |                                                                                                                                                                                                                                                   |                                                                                              |
|                       | Bashnau      |                                                                                                                                                                                                                                                   |                                                                                              |
|                       | Kali         |                                                                                                                                                                                                                                                   |                                                                                              |
|                       | Boai         |                                                                                                                                                                                                                                                   |                                                                                              |
|                       | Lautu        |                                                                                                                                                                                                                                                   |                                                                                              |
| 2                     | Nochi nigahr | These two nigars are grazed in Sawan, Bhadron by the sheep recorded above under Hukmi Negi, Rasu.                                                                                                                                                 |                                                                                              |
|                       | Hocha Nashir |                                                                                                                                                                                                                                                   |                                                                                              |
| 3                     | Seasn gahr   | These gahrs are grazed in Jait & Har by the sheep of Jadar, Bali, Rahel, Shagag, Mahvi, Chaini, Gagina, Chamungar , Khun, Damar , Batala that is by Khani Phati. They do not Graze in autumn and the grazing in spring is more of a right of way. |                                                                                              |
|                       | Bisho        |                                                                                                                                                                                                                                                   |                                                                                              |
|                       | Poktu        |                                                                                                                                                                                                                                                   |                                                                                              |
|                       | Kwanda       |                                                                                                                                                                                                                                                   |                                                                                              |
|                       | Dlopandi     |                                                                                                                                                                                                                                                   |                                                                                              |
|                       | Khuni        |                                                                                                                                                                                                                                                   |                                                                                              |

In winter sheep remain near the sheds or chans belonging to the following individuals:-

Jag Das of Shagag , at Jogi Bangahl.

Madan of Shagag , at Jogi Bangahl.

Karam Das of Shagag , at Jogi Bانشira Rai.

Bhagat Ram of Shagag , at Jogi Bangahl.

Khemi Ram of Rachel, at Kutwa.

Aleo of Rachel, at Kutwa.

No cultivation has been included, but the grass lands No. 322,321,315,317,314,312,320,319,318 within forest limits is held in proprietary rights. Grass may be cut as heretofore. There is also a water mill.

**2/29 Alatu Area:- 797 acres (322.45 Hect.)**

Name of Kothi:- Jalori.

Boundaries: - North:- Ridge between Outer and Inner Seraj.

East: - Bargoli gad.

South: - Line from Nagu Rakeas above Jarono Kalaun, and cultivation of Jarono, Jau & Lohal

West: - Kher gad, boundary of Jalori Kothi.

| No.                   | Name of Hamlets    | Rights                                                                                                                                                       | Remarks                                                                                                                                |
|-----------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 1                     | Lohal              | Full rights.                                                                                                                                                 | This forest is similar to the last. A sheep path runs through the upper part of the forest, used Largely by Suket sheep going to Rupi. |
|                       | Jarono             |                                                                                                                                                              |                                                                                                                                        |
|                       | Dhar               |                                                                                                                                                              |                                                                                                                                        |
|                       | Jau                |                                                                                                                                                              |                                                                                                                                        |
|                       | Chirmol            |                                                                                                                                                              |                                                                                                                                        |
| 2                     | Kanda              | Kharshu leaves for fodder.                                                                                                                                   |                                                                                                                                        |
|                       | Koli               |                                                                                                                                                              |                                                                                                                                        |
| 3                     | Humki of Jater     | Have ghayans in the forest.                                                                                                                                  |                                                                                                                                        |
|                       | Arjan of Dagsar    |                                                                                                                                                              |                                                                                                                                        |
|                       | Sisu of Dagsar     |                                                                                                                                                              |                                                                                                                                        |
|                       | Khem Das of Dagsar |                                                                                                                                                              |                                                                                                                                        |
|                       | Jagrath of Jater   |                                                                                                                                                              |                                                                                                                                        |
| <b><u>Thaches</u></b> |                    |                                                                                                                                                              |                                                                                                                                        |
| 1                     | Tilauti gahr       | These gahrs are grazed in Jait, Har and Assauj by the sheep of Dhar , Kanda , Jarono Lohal, Chirmol, under Sukh Ram, Rasu and the nighar in Sawan , Bhadron. |                                                                                                                                        |
|                       | Lama thach gahr    |                                                                                                                                                              |                                                                                                                                        |
|                       | Niga gahr          |                                                                                                                                                              |                                                                                                                                        |
|                       | Lingi gahr         |                                                                                                                                                              |                                                                                                                                        |
|                       | Chana gahr         |                                                                                                                                                              |                                                                                                                                        |
|                       | Lautu gahr         |                                                                                                                                                              |                                                                                                                                        |
|                       | Khara kharshu gahr |                                                                                                                                                              |                                                                                                                                        |
|                       | Pthre chan nigahr  |                                                                                                                                                              |                                                                                                                                        |

No cultivation is included in this forest. Grass may be cut from grass lands included.

**2/30 Skiran Area:- 420 acres (170.97 Hect.)**

Name of Kothi:- Jalori.

Boundaries: - North: - Ridge between Outer and Inner Seraj.



East: - Khaner gad.

South: - Cultivation of Khaner & Reunsi Nal.

West: - Kalandi Dhar.

| No.                   | Name of Hamlets | Rights                                                                                                                                                                                           | Remarks                                                                                                                 |
|-----------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| 1                     | Khaner          | Full rights                                                                                                                                                                                      | This is lies just behind Khaner village and contains Rai, Tosh & Kharshu. It lies on the road for sheep to Waziri Rupi. |
| 2                     | Kothi           | Kharshu leaves for fodder.                                                                                                                                                                       |                                                                                                                         |
|                       | Shodda          |                                                                                                                                                                                                  |                                                                                                                         |
|                       | Phruti Nali     |                                                                                                                                                                                                  |                                                                                                                         |
|                       | Bahl            |                                                                                                                                                                                                  |                                                                                                                         |
| <b><u>Thaches</u></b> |                 |                                                                                                                                                                                                  |                                                                                                                         |
| 1                     | Thathlol gahr   | This forest is on the road for sheep to and from Rupi & co. and these gahrs and the nigahrs seem to be grazed mostly by the sheep passing, also by the sheep of Bishladhar and Karsaigad Phatis. |                                                                                                                         |
|                       | Pujaili gahr    |                                                                                                                                                                                                  |                                                                                                                         |
|                       | Kaleinu gahr    |                                                                                                                                                                                                  |                                                                                                                         |
|                       | Reunsi gahr     |                                                                                                                                                                                                  |                                                                                                                         |
|                       | Malora gahr     |                                                                                                                                                                                                  |                                                                                                                         |
|                       | Sakirn Nigahr   |                                                                                                                                                                                                  |                                                                                                                         |

No cultivation is included in this forest.

**2/31 Duga shil Area:- 168 acres (67.99 Hect.)**

Name of Kothi:- Raghopur.

Boundaries: - North: - Jau Nal.

East: - Danchokar Dhar.

South: - Darun Dhar.

West: - Cultivation of Darun Kanshel and Duga.

| No. | Name of Hamlets | Rights                                | Remarks                                                                                                                                  |
|-----|-----------------|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Kanshel         | Full rights                           | This forest contains Kail and Rai. But mostly Rai though the Kail are well grown. Rai, Tosh and Jamu are cut or agricultural implements. |
|     | Sul             |                                       |                                                                                                                                          |
|     | Darun           |                                       |                                                                                                                                          |
|     | Duga            |                                       |                                                                                                                                          |
| 2   | Durku           | Dry wood for agricultural implements. |                                                                                                                                          |

No cultivation is included in this forest.

**2/32 Sharag Shil Area:- 540 acres (218.54 Hect.)**

Name of Kothi:- Raghobpur.

Boundaries: - North: - Ridge between Outer and Inner Seraj.

East: - Sakirn Dhar and Jawa Bagh Dhar.

South: - Kua Nal, Path from Karshala to  
Phanaut and demarcated land to  
include all forests.

West: - Sharagai-Bar.

| No.                             | Name of Hamlets | Rights                                                                                                                                                                                                      | Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
|---------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 1                               | Juhr            | Full rights in Sharag                                                                                                                                                                                       | Sharag contains Kharshu and Jamu and Plei-shill mostly Rai and Tosh. In Sharag Kharshu and Jamu are cut for agricultural implements, Rai in Plei-shil for the same purpose. The sheep of Bishladhar and Karshaigad Phatis meet in Har and graze promiscuously in this forest until Kartik. They do not leave the Kothi ,but the sheep of Karad Phati go to Inner and do not graze in this forest unless there is disease among sheep, in which case they remain in the Kothi. There are no division of thaches , and any village goes with any Rasu.<br><br>There is an undermarked piece of forest called Barinu on the Mandi boundary , in which the following villages have rights:-<br>Balo, Juhr , Lot , Gohatana , Dohad , Kot Deori, Dogra, Kumand , Kwatan, Kandi, Bagh. |  |
|                                 | Phanauti Uperli |                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|                                 | Phanauti Jili   |                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| 2                               | Balo            | Kharshu leaves, Agricultural implements<br>Fuel in Sharag                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|                                 | Lot             |                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|                                 | Karshala        |                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| 3                               | Karshala        | Full rights in Plei-shil                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| 4                               | Banelu          | Full rights in Plei-shil expect cattle grazing                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| 5                               | Phanauti Uperli | Full rights in Plei-shil expect cattle grazing                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|                                 | Phanauti Jili   |                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b><u>Thaches in Sharag</u></b> |                 |                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| 1                               | Kanala          | These taches are grazed in Har, Sawan, Badhron , Assauj by the sheep of Bishladhar and Karshaigad Phatis under four Rasus. Udi Ram of Karshala , Damohdar of Samater, Dila Ram of Tharwi, Jalu of Karshala. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|                                 | Dalu ka Bal     |                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|                                 | Nawa deao       |                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|                                 | Dhara thach     |                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|                                 | Lamba-sar       |                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|                                 | Jogan           |                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|                                 | Mandrel         |                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|                                 | Sukha-sar       |                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |

|  |               |  |
|--|---------------|--|
|  | Bomphali      |  |
|  | Sakiran       |  |
|  | Rang-shala-pa |  |

**2/33 Madri beel Drad Area:- 2919 acres (1181.30 Hect.)**

Name of Kothi:- Raghampur.

Boundaries: - North: - Ridge between Outer and Inner Seraj.

East: - Dima gad and cultivation of grass land of Dima and Chalal.

South: - Chalal Nal.

West: - Kwanda Dhar.

| No.                                                                                                                                             | Name of Hamlets  | Rights                                                                                                                                                                                       | Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 1                                                                                                                                               | Diam             | Full rights.                                                                                                                                                                                 | Forest No. 33 and 34, which come within the revenue division of Raghampur, are in reality quite sprate from that Kothi , and would naturally fall first to Jalori and second to Naraingarh Kothi. They both lie up and contain Rai, Tosh and are valued by the people mostly for their grazing. Dim is the principal village, Chalal and Thanach being only dogris. Kharshu and Mandru can here be found for agricultural implements, but Rai poles are cut for the sanj, they are not so necessary hese as elsewhere. There are two sheep paths through Chul and Mandri-bil, one along Dimanged to Tung, Nohanda in Inner Seraj,and to Sakti in Rupī and the other over Kawanda –gai to Kanawar and Lahaul. They are both largely used. |  |
|                                                                                                                                                 | Chalal           |                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| 2                                                                                                                                               | Bagthori         | Of Jalori Kothi cut grass in this forest.                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
|                                                                                                                                                 | Shagag           |                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
|                                                                                                                                                 | Rahel            |                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| 3                                                                                                                                               | Naraingarh Kothi | Get slates from the quarry in this forest.                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
|                                                                                                                                                 | Jalori Kothi     |                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
|                                                                                                                                                 | Dim              |                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| <u>Thaches</u>                                                                                                                                  |                  |                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| 1                                                                                                                                               | Mandri bil gahr  | These taches are grazed by the sheep Of Dim, and sometimes with them the sheep of Chater and Jamer of Koela Phati of Jalori Kothi—the gahrs in Har and Assauj and nigahrs in Sawan, Bhadron. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
|                                                                                                                                                 | Dwari gahr       |                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
|                                                                                                                                                 | Sawao gahr       |                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
|                                                                                                                                                 | Khani gahr       |                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
|                                                                                                                                                 | Drodi gahr       |                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
|                                                                                                                                                 | Bugso gahr       |                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
|                                                                                                                                                 | Bishlai gahr     |                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| Dwara Nali nigarh is grazed in Sawan, Bhadron by the sheep of Dim and also by the sheep of Galuli, Pharari , Shil and Shirun gad of Tung Kothi. |                  |                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| 2                                                                                                                                               | Pardeo gahr      | These gahrs are grazed by the Jalori sheep under Hukmi Negi, Rasu as for Jalori No. 28                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
|                                                                                                                                                 | Raitu gahr       |                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
|                                                                                                                                                 | Karshaun Gahr    |                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
|                                                                                                                                                 | Tagreo gahr.     |                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |

No cultivation is included in this forest. Grass land is not held in proprietary right, but grass may be cut as heretofore.

**2/34 Chul Area:- 1226 acres (496.15 Hect.)**

Name of Kothi:- Raghampur.

Boundaries: - North: - Ridge between Outer and Inner Seraj.

East: - Kamblai Dhar.

South: - Thanach gad, boundary of Kothi. Nal.

West: - Cultivation of Thanach and Dima gad.

| No.                                                                        | Name of Hamlets  | Rights                                                                                                                                                                                    | Remarks                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1                                                                          | Thanach          | Full rights                                                                                                                                                                               | See No. 33.                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 2                                                                          | Ladag            | Of Naraingarh Kothi get grass in Assauj and Kharshu leaves in Posh, Magh, Phagon                                                                                                          | There was a dispute between the people of Dim and of Bachair Phati of Naraingarh as to the Right of grazing in the gahrs and nigahrs. The record as prepared is in accordance with the exling custom and general circumstances point to its correctness. Dim has sample grazing in Mandri-bil and Drad, which lie immediately behind the village, while naturally have a right of grazing in Chul, which lies on the border. |
|                                                                            | Bachair          |                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                                            | Laphal           |                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b><u>Thaches</u></b>                                                      |                  |                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                              |
| KKario-nal gahr Grazed by Dim in Jait, Har, Assauj , it lies near Thanach. |                  |                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 1                                                                          | Bagacharu gahr   | Grazed by the sheep of Laphal, Buchair, Ladag, Romal, Nanal, Jaon, Banas villages of Bachair Phati under Piari Ram, Rasu the gahrs in Har and Assauj , and the nigahrs in Sawan, Bhadron. |                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                                            | Choad gahr       |                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                                            | Kamblai nigahr   |                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                                            | Kamba-bil bigahr |                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                                            | Karani nigahr    |                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                              |

No cultivation has been included in this forest.

### **RIGHT AND CONDITIONS FOR THE UNDEMARCATED PROTECTED FORESTS OF KULLU PROPER, INNER SERAJ, OUTER SERAJ AND RUPI.**

Note:- These rights and conditions apply to the whole undemarcated waste of Kullu unless the contrary is stated, but they do not apply to the Rai of Rupri.

1. Right holders, as defines in paragraph 2, may continue to exercise such as of the following rights as they have hitherto exercised, subject to the conditions herein laid down, and to the rules which the local Government may from time to time issue for the regulation of these rights:-
  1. To graze cattle (except buffaloes), sheep and goat.
  2. To take trees
    - For agriculture implements and domestic utensil for the construction and repair of Dwelling houses cattle and grass sheds and other agricultural buildings.
    - For the constructions and repair of temples and attached to temple.
    - For the ark of the deotas and other such purposes.
    - For the bier and the cremations of the dead
    - For tanning and such like purposes.
  3. To take the following articles of forest produce.

- a) Grass of all kinds for fodder, thatching, rope making and other domestic and agricultural purposes.
- b) Flowers, ferns, plants for medicinal, domestic and agricultural purposes.
- c) Brushwood for fencing and other purposes.
- d) Branches of trees for fodder, Manure, hedges, charcoal and ropes.
- e) Fallen leaves for manure.
- f) Leaves and bark of certain trees and shrubs for tanning, incense, rope making, medicinal and other such purposes.
- g) Dry wood for fuel, torches, and other purposes.
- h) Fruits and roots for food , washing , dying ,medicinal and other such purposes.
- i) Stumps of trees for torches and manufacture of oil.
- j) Bamboos for basket making and other purposes.
- k) Stones , slates , earth ,clay and lime stone for building , plastering for the manufacture of earthen vessels , mill-stones and other purposes.
- l) Wild honey.

2. Proprietors of land their agricultural tenants have hitherto continuously exercised all of any of the rights detailed in paragraph. I over any part of the undemarcated waste may continue to exercise in such parts such rights as they and their predecessors in title have exercised, provided that tenants –at –will may take trees for building purposes only through the proprietors of their lands.

Non agricultural residents may graze their own cattle, sheep and goats, collect dry wood for fuel, and cut grass in the undemarcated forests of the village in which they reside; but these privileges ( Licensed ) may be exercised only for their own actual domestic requirements , and in case of abuse may be withdrawn by the government.

3. Special conditions:-

- (1) The following trees may not be cut without permission.

- 1. Deodar
- 2. Box
- 3. Walnut
- 4. Ash
- 5. Alder
- 6. Blue pine
- 7. Chil
- 8. Spruce
- 9. Fir
- 10. Yew
- 11. Cypress
- 12. Shisham
- 13. Olive
- 14. Harse chest nut.
- 15. Celtis
- 16. Mulbery
- 17. Hill tun
- 18. Kakaran
- 19. Poplar

Provided that:-

- (a) Chil, Spure and fir or failing these, blue pine may be cut without previous permission for the bier and the cremation of the dead, but notice must atonce be given to the rakhas.

- (b) In Outer Seraj, wherever suitable trees cannot be found blue pine and spure not more than a hath in girth at the ground , may be cut without previous permission for the sanj of the plough , provided that notice is at once given to the Rakha. In the Srigarh Kothi of Outer Seraj, wherever other suitable trees cannot be found, blue pine not more than two haths in girth at the ground may be cut without previous permission for shamai of the plough, provided that notice is at once given to the Rakha.
- (c) One branch of a Yew suitable for the Baster-deo ( house hold god) may be cut without permission , on the construction of a new house;
- (d) The stumps of these trees may be cut without permission.
- (e) Dry standing and fallen trees of these kinds may be cut without permission. Except deodar, box, walnut ans ash.
- (2) The following trees may not be lopped nor injiured in any way:-
  - 1. Deodar
  - 2. Box.
  - 3. Walnut
  - 4. Ash.
  - 5. Mulberry
  - 6. Yew
  - 7. Cypress
  - 8. Shisham
- (3) The following trees may be lopped for fodder:-
  - 1. Elm.
  - 2. Olive.
  - 3. Horse chestnut
  - 4. Celtis
  - 5. Mulberry
  - 6. Hill-tun
  - 7. Kakaran
  - 8. Poplar
- (4) The following trees may be lopped for manure and charcoal viz, blue pine , chil , spure and fir , subject to the following conditions:-
  - (a) In Kullu proper blue pine, chil , spruce and fir may be lopped to one third of their height for making charcoal and spruce and fir ( not blue pine and chil ) may be lopped to one third of their height for manure provided that in all cases the trees lopped are not less than two haths in girth at three haths from ground.
  - (b) In Waziri Rupi , blue pine , CChil, spure and fir may be lopped to one third of their height both for charcoal and for manure, provided the trees lopped are not less than two haths in girth at three haths from the ground.
  - (c) In Inner and Outer Seraj , blue pine , chil, spure and fir may be lopped to be half of their height both for charcoal and for manure, provided that the trees lopped are not less than one hath in girth at the three haths from the ground.
- (5) With the exception of the 20 trees mentioned above all trees, shrubs and brushwood may be cut and lopped without permission, provided that Government mat at any time remove any species of trees , shrubs and brushwood from the operation of this clause and include it in clause(1); and impose such conditions of cutting and lopping of such trees , shrubs or brushwood as it may consider necessary subject always to the provision that the right holders are entitled to have their bonafide wants supplied from the forests.
- (6) Stones , slates, earth and clay may be removed without permission from established Quarries, provided damage is not done to the trees mentioned in clause.
  - (1) But new quarries may not be opened without permission.

Except as herein provided, the rights detailed in paragraph I may be exercised without permission.

4. General Conditions:-

- (1) In Kullu proper , Inner Seraj and Outer Seraj the soil and the produce of the undermarked rights of user.  
In Waziri Rupi , the soil of the undemarcated waste belongs to the Rai , but all the forest produce belongs to Govt; subject to the recorded rights of user.
- (2) The rights of user are appendant to cultivated land paying revenue, or of which the revenue has been assigned, and may be acquired and alienated only with such lands. They may be exercised only in portions to the area cultivated and revenue paid or assigned; and the Government , whenever it considers it necessary in the interest of the forests or of the right holders , may define by numbers the extent of any of the rights bonafide agricultural and domestic purposes of the right holders, and only in behalf of their own cattle , sheep and goats , and not for the supply of the wants of tea or other industries , nor for purely pastoral as distinguished from agricultural purposes.
- (3) No forest produce acquired in the exercise of these rights of user , except bamboos , fruits , flowers , medicinal roots and leaves may be sold or bartered , or applied to any but the purposes for which it was acquired , provided that right holders may during the pleasure of Government , sell fire wood , torches , charcoal , grass , lime slates and plastering earth.
- (4) During the currency of the present Revenue Settlement deodar, walnut, box and ash will be given to right holders at a rate not exceeding zamindari price fixed in this behalf, and other rights will be exercised without payment. At the next Revenue Settlement, Government may assess all or any of these rights to revenue in such a way as it may consider proper, and may charge a price for trees and other forest produce.
- (5) Trees for building purpose will not be given if the right holder applying for them has got a suitable building in a reasonably convenient locality and of size sufficient for his requirements. For instance, A sells half his holding to B , who applies for trees to build a house on the cultivation of the land purchased . A has on his land a house conveniently situated for the cultivation of the land sold. B is not entitled to trees as bought only the right of A, who is not entitled to another house.  
When trees have been given for building purposes, the building shall be constructed within the local limits of the hamlet (groan) where the cultivation, on account of which the trees are given, is situated.
- (6) Green trees may not be cut within 40 yards of any temple or of any building connected with any temple. Dry deodar trees standing within this area shall be applied to the repair of the temple buildings, and on application to the Forest Officer will be given for that purpose.  
No trees standing within 10 yards of any public road may be cut except with the permission of the Assistant Commissioner.
- (7) In Kullu proper , Inner Seraj and Outer Seraj , Nets , traps and snares may not be set without the permission of Assistant Commissioner , and subject to the conditions he may impose , but such permissions will be given in cases where a right to set nets and snares for the capture of hawks and musk deer was recorded at the I . Revenue Settlement, subject always to the condition that the nets and snares are of the form most suitable for the capture of hawks and musk deer , and are not intended for the capture of pheasants or other winged game. In Waziri Rupi , nets and snares for the capture of Hawks and musk deer may not be set without the permission of the Rai of Rupi , and subject to the conditions and charges he may impose.

- (8) The rights of user are subject to the conditions:-
- (a) That all right holders shall render every assistance in extinguishing any fire occurring in any forest within which they have been called upon to do so or not, and in case of neglect, Government may order that all or any rights within specified limits be suspended for any time it considers proper.
  - (b) That right holder shall be responsible for the pay and uniform of the Rakha incharge of the forest in which they have rights.
- (9) In Kullu proper, Inner Seraj and Outer Seraj, the practice of cultivating Sirson and bhang in sthaches may continue as heretofore, but this is not the right, may be prohibited in case of abuse, or for other cause.
- (10) One fourth share of the gross income from the local sale of trees from these forests will be paid to the officials of the kothis from which the trees were sold, in consideration of their assistance in the management of the forests and in enforcing the proper exercise of the rights and the rules issued by the Government. This share may be divided in such a way as the Local Government may direct. It confers no rights whatsoever in the forests, and if the assistance in consideration of which it is given is not rendered, the local Government may withdraw the grant.
- (11) No grass land in the demarcated area may be burned without the permission of the Assistant Commissioner, and such permission will be ordinarily be given only if all the parties interested in the burning become responsible that the fire shall not extend beyond the limits fixed when the permission is granted.
- (12) In the undemarcated area of Kullu proper, Inner Seraj and Outer Seraj, no land may be broken up or cleared for cultivation or for any other purpose without the permission of the Assistant Commissioner. Such permission will ordinarily not be given if there are trees of the 20 kinds mentioned in para 3 standing on the land. In the undemarcated area of Waziri Rupi, no land may be broken up or cleared for cultivation or for any other purpose, without the permission of the Rai of Puri, who in granting permission is subject to the conditions specially recorded in this behalf.
- (13) Gaddi shepherds may not bring their flocks in to Kullu before 15<sup>th</sup> Jait nor remain in it after 20<sup>th</sup> Assauj, and have in Kullu only a right of way.



| LI of Chak included cultivation in RFs DPFs & UPFs |                             |                              |  |
|----------------------------------------------------|-----------------------------|------------------------------|--|
| Name of Range                                      | Name of Forest              | Area cultivation of (in Ha.) |  |
| ARSU                                               | RESERVED FOREST             | 0                            |  |
|                                                    | DEMARCATED PROTECTED FOREST |                              |  |
|                                                    | 1/2 Shikarwa C.III          | 1.21                         |  |
|                                                    | 2/11 Kaleo                  | 2.02                         |  |
|                                                    | Total                       | 3.23                         |  |
| CHOWAI                                             | RESERVED FOREST             |                              |  |
|                                                    | R/7 Takrasi C.II            | 4.05                         |  |
|                                                    | R/8 Kaikaloan               | 1.21                         |  |
|                                                    | Total                       | 5.66                         |  |
|                                                    | DEMARCATED PROTECTED FOREST |                              |  |
|                                                    | 1/27 Bungbindraban C.I      | 1.21                         |  |
|                                                    | 1/27 Bungbindraban C.III    | 2.43                         |  |
|                                                    | 2/22 Bamaur-JadariC.II      | 0.4                          |  |
|                                                    | 2/25 Kotanal                | 0.4                          |  |
|                                                    | Total                       | 4.44                         |  |
| NITHER                                             | RESERVED FOREST             | 0                            |  |
|                                                    |                             |                              |  |
|                                                    | DEMARCATED PROTECTED FOREST |                              |  |
|                                                    | 1/9 Bijuri C.I ( a)         | 0.4                          |  |
|                                                    | Grand Total RFs & DPFs      | 13.33                        |  |

  

| Name of Range                         | Name of Forest | Comptt. No. | Area Located (in Ha.) |
|---------------------------------------|----------------|-------------|-----------------------|
| LI OF Un-Demarcated Protected Forests |                |             |                       |
| ARSU                                  | Jiman Dogri    | 1           | 18.21                 |
|                                       | Basawar        | 2           | 84.98                 |
|                                       | Brahamgarh     | 5           | 4.04                  |
|                                       | Shalat         | 6           | 16.18                 |
|                                       | Barna          | 7           | 8.09                  |
|                                       | Kanraon        | 11          | 6.07                  |
|                                       | Brow           | 15          | 3.23                  |
|                                       | Mareli         | 17          | 5.66                  |
|                                       | Kasholi        | 18          | 4.04                  |
|                                       | Pankua         | 19          | 64.75                 |
|                                       | Damauli        | 21          | 60.7                  |
|                                       | Pakora         | 26          | 8.09                  |

|               |           |                |               |
|---------------|-----------|----------------|---------------|
|               | Koti      | 28             | 4.85          |
|               | Shil      | 29             | 18.21         |
|               | Nagar     | 30             | 4.04          |
|               | Sarga     | 34             | 8.09          |
|               | Neokundar | 35             | 40.46         |
|               | Kushua    | 36             | 5.26          |
|               | Kater     | 37             | 4.04          |
|               | Kimpcho   | 39             | 52.6          |
|               | Bakhan    | 42             | 4.85          |
|               | Gindi     | 44             | 4.04          |
|               | Tunan     | 46             | 4.04          |
|               | Sharshah  | 47             | 2.02          |
|               | Jahalu    | 48             | 12.14         |
|               |           | <b>Total:-</b> | <b>448.68</b> |
| <b>NITHER</b> | Tadasha   | 49             | 5.26          |
|               | Shusha    | 51             | 28.32         |
|               | Ganchoa   | 52             | 8.09          |
|               | Katoha    | 53             | 12.14         |
|               | Sheog     | 59             | 6.07          |
|               | Khani     | 62             | 4.04          |
|               | Nor       | 63             | 20.23         |
|               | Jaral     | 64             | 8.09          |
|               | Katmore   | 65             | 2.02          |
|               | Kanda     | 66             | 4.04          |
|               | Ishawa    | 67             | 8.09          |
|               | Khaler    | 68             | 5.26          |
|               | Tandi     | 69             | 22.25         |
|               | Margi     | 70             | 97.12         |
|               | Kalog     | 77             | 14.16         |
|               | Sharti    | 82             | 2.42          |
|               | Kopardhar | 85             | 6.87          |
|               |           | <b>Total:-</b> | <b>254.47</b> |
| <b>CHOWAI</b> | Phanoti   | 89             | 4.04          |
|               | Salot     | 91             | 2.02          |
|               | Lot       | 92             | 2.42          |
|               | Karshala  | 94             | 10.11         |
|               | Kashel    | 95             | 4.04          |
|               | Kultha    | 96             | 1.61          |
|               | Chapal    | 98             | 20.23         |
|               | Marog     | 99             | 3.23          |
|               | Chalahuga | 101            | 12.14         |
|               | Shomar    | 102            | 2.42          |

|  |           |                     |               |
|--|-----------|---------------------|---------------|
|  | Chajut    | 107                 | 6.07          |
|  | Khadoran  | 108                 | 0.4           |
|  | Ghatadhan | 112                 | 2.83          |
|  | Pokher    | 113                 | 4.04          |
|  | Pharuti   | 115                 | 6.07          |
|  | Bansira   | 117                 | 6.07          |
|  | Paltaun   | 119                 | 3.23          |
|  | Kachimati | 120                 | 2.02          |
|  | Karanu    | 123                 | 6.07          |
|  | Jer       | 124                 | 2.02          |
|  | Sampal    | 128                 | 2.02          |
|  | Binan     | 134                 | 4.04          |
|  | Mahui     | 135                 | 2.83          |
|  | Poeg      | 138                 | 6.07          |
|  | Mathala   | 141                 | 16.18         |
|  | Olua      | 143                 | 4.45          |
|  | Thog      | 148                 | 12.14         |
|  | Phanokhad | 149                 | 2.02          |
|  | Bakhanau  | 150                 | 8.09          |
|  | Kalowa    | 153                 | 4.04          |
|  | Kuthua    | 157                 | 2.02          |
|  | Kot       | 165                 | 4.04          |
|  | Khanag    | 167                 | 30.35         |
|  | Ghadari   | 173                 | 4.09          |
|  | Pali      | 175                 | 4.09          |
|  |           | <b>G.Total UPFs</b> | <b>207.55</b> |

**Note:** - The Un-dermarcated Protected Forests which are required to be delimited. The approximate area of cultivation has been located from the survey sheets. The area shown in the concerned C.H.files has been considered as net after excluding the cultivation. The located cultivation is shown in the table above.

**Appendix-XXXIX**

| <b>Statement regarding grant of Nautor in Anni Forest Division</b> |                                   |                                              |                                             |                                                                                                 |
|--------------------------------------------------------------------|-----------------------------------|----------------------------------------------|---------------------------------------------|-------------------------------------------------------------------------------------------------|
| <b>Name of Scheme</b>                                              | <b>Total No. of Benificiaries</b> | <b>Total area granted in Nautor (in Ha.)</b> | <b>Year of grants of Nautor with period</b> | <b>Name of Kothis where granted</b>                                                             |
| H.P.Nautor Rules , 1968                                            | 436                               | 180.49                                       | 1971-80                                     | Raghupur , Jalore , Serigarh , Naraingarh , Janja,Himbri , Bramgarh ,Kot , Dhoul ,Kandi & 15/20 |
| Land to landless 1975-80                                           | 197.95                            | 197.95                                       | 1975-80                                     | Raghupur , Jalore , Serigarh , Naraingarh & Janja                                               |
| Allotment of land under Antyodya                                   | 45                                | 12.19                                        | 1978-79                                     | Raghupur , Jalore , Serigarh , Naraingarh & Janja                                               |
| Allotment of land to Landless under Special Nautor Scheme 1975     | 83                                | 31.23                                        | 1975-78                                     | Raghupur , Jalore , Serigarh , Naraingarh & Janja                                               |

THE HIMACHAL PRADESH LAND PRESERVATION ACT, 1978 ARRANGEMENT OF SECTIONS

**CHAPTER I PRELIMINARY**

1. Short title, extent and commencement.
2. Definitions.

**CHAPTER II**

**NOTIFICATION AND REGULATION OF AREAS**

3. Notification of areas.
4. Power to regulate, restrict or prohibit, by general or special order, within notified areas, certain matters.
5. Power in certain cases to regulate, restrict or prohibit, by special order, within notified areas, certain further matters.
6. Power to require execution of works and taking of measures.
7. Necessity for regulation, restriction or prohibition to be recited in the order under sections 4, 5 or 6 and publication of order.
8. Proclamation of regulations, restrictions and prohibitions and admission of claims for compensation for rights which are restricted or prohibited.
9. Power to fix time within which work to be executed, etc.

**CHAPTER III**

**POWER TO ENTER UPON AND DELIMIT NOTIFIED**

**AREAS AND BEDS**

10. Power to enter upon, survey and demarcate local areas notified under section 3.

**CHAPTER IV**

**INQUIRY INTO CLAIMS AND AWARDS OF**

**COMPENSATION**

11. Inquiry into claims and awards thereupon.
12. Method of awarding compensation and effect of such award.

**CHAPTER V PROCEDURE, RECORDS AND APPEAL**

13. Record-of-rights in respect of notified areas.
14. Mode of proclaiming notifications and of serving notices, orders and processes, issued under the Act.
15. Appeal, review and revision.

**CHAPTER VI PUNISHMENT, BAR OF SUITS AND RULES**

16. Punishments for offences.
17. Applications of provisions of the Indian Forest Act, 1927.
18. Power to try offences summarily.

19. Power to compound offences.
20. Bar to suits.
21. Power to make rules.
22. Repeal and savings.

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**THE HIMACHAL PRADESH LAND PRESERVATION ACT, 1978 (ACT NO. 28 OF 1978)<sup>1</sup>**

(Received the assent of the President of India on the 4<sup>th</sup> August, 1978 and was published in the Rajpatra, Himachal Pradesh (Extra-ordinary), dated the 26<sup>th</sup> August, 1978, pp. 1119-1129.)

**An Act to provide for the better preservation and protection of certain portions of the territories of Himachal Pradesh.**

It hereby enacted by the Legislative Assembly of Himachal Pradesh in the Twenty-ninth Year of the Republic of India as follows:-

**CHAPTER I  
PRELIMINARY**

**1. Short title, extent and commencement.-** (1) This Act may be called the Himachal Pradesh Land Preservation Act, 1978.

(2) It shall extend to the whole of the State of Himachal Pradesh.

(3) It shall come into force at once.

**2. Definitions.-** In this Act, unless a different intention appears from subject or context,-

- (a) “land” means land within any area preserved and protected or otherwise dealt with in the manner provided in this Act and includes benefits to arise out of land and things attached to the earth or permanently fastened to anything attached to the earth;
- (b) “cho” means a stream or torrent flowing through or from the mountainous ranges within Himachal Pradesh;

1. For Statement of Objects and Reasons see the Rajpatra, Himachal Pradesh (Extra- ordinary), dated 8<sup>th</sup> April, 1978, p. 326.

- (c) “tree”, “timber”, “forest produce” and “cattle”, respectively, shall have the meanings severally assigned thereto in section 2 of the Indian Forest Act, 1927 (16 of 1927);
- (d) “person interested” includes all persons claiming any interest in compensation to be made on account of any measures taken under this Act;
- (e) “Deputy Commissioner” includes any officer or officers at any time specially appointed by the State Government to perform the functions of the Deputy Commissioner under this Act;
- (f) “right-holder” includes-
  - (i) persons not being tenants or mortgagees having rights to, or in land; and
  - (ii) persons having rights of collection of forest produce or of grazing of pasture; and
- (g) “erosion” includes the removal or displacement of earth, soil, stones or other materials by the action of wind or water.

## CHAPTER II

### NOTIFICATION AND REGULATION OF AREAS

**3. Notification of areas.**- Whenever it appears to the State Government that it is desirable to provide for the conservation of sub-soil water or the prevention of erosion in any area subject to erosion or likely to become subjected to erosion, the State Government may, by notification published in the Official Gazette, make a direction accordingly.

**4. Power to regulate, restrict or prohibit, by general or special order, within notified areas, certain matters.**- In respect of areas notified under section 3 generally or the whole or any part of any such area, the State Government may, by general or special order, temporarily regulate, restrict or prohibit-

- (a) the clearing or breaking up or cultivating of land not ordinarily under cultivation prior to the publication of the notification under section 3;
- (b) the quarrying of stone or the burning of lime at places where such stone or lime had not ordinarily been so quarried or burnt prior to the publication of the notification under section 3;
- (c) the cutting of trees or timber, or the collection or removal or subjection to any manufacturing process, otherwise than as described in clause(b) of this section, of any forest produce other than grass save for *bona-fide domestic* or agricultural purposes of a right holder in such area;
- (d) the setting on fire of trees, timber or forest produce;
- (e) the admission, herding, pasturing or retention of sheep, goats or camels;
- (f) the examination of forest produce passing out of any such area; and
- (g) the granting of permits to the inhabitants of towns and villages situated within the limits or in the vicinity of any such area to take any tree, timber or forest produce for their own use therefrom or to pasture sheep, goats or camels or to cultivate or erect buildings therein and the production and return of such permits by such persons.

**5. Power in certain cases to regulate, restrict or prohibit by special order, within notified areas, certain further matters.**- In respect of any specified village or villages or part or parts thereof comprised within the limits of any area notified under section 3, the State Government may, by special order, temporarily regulate, restrict or prohibit-

- (a) the cultivation of any land ordinarily under cultivation prior to the publication of the notification under section 3;
- (b) the quarrying of any stone or the burning of any lime at places where such stone or lime had ordinarily been so quarried or burnt prior to the publication of the notification under section 3;
- (c) the cutting of trees or timber or the collection or removal or subjection to any manufacturing process, otherwise than as described in clause (b) of this section, of any forest produce for any purposes; and
- (d) the admission, herding, pasturing or retention of cattle generally other than sheep, goats and camels or of any class or description of such cattle.

**6. Power to require execution of works and taking of measures.**- In respect of areas notified under section 3 generally or the whole or any part of any such area, the State Government may, by general or special order, direct-

- (a) the levelling, terracing, drainage and embanking of fields;
- (b) the construction of earth works in fields and ravines;

- (c) the provision of drains for stream water;
- (d) the protection of land against the action of wind or water;
- (e) the training of streams; and
- (f) the execution of such other works and the carrying out of such other measures, as may, in the opinion of the State Government be necessary for carrying out the purposes of this Act.

**7. Necessity for regulation, restriction or prohibition to be recited in the order under sections 4, 5 or 6 and publication of order.-** Every order made under sections 4, 5 or 6 shall be published in the Official Gazette and shall set forth that the State Government is satisfied, after due inquiry, that regulations, restrictions, prohibitions or directions contained in the order are necessary for the purpose of giving effect to the provisions of this Act.

**8. Proclamation of regulations, restrictions and prohibitions and admission of claims for compensation for rights which are restricted or prohibited.-** (1) When in respect of any area a notification has been published under section 3, and -

- (a) upon such publication any general order made under section 4 or section 6 becomes applicable to such area, or
- (b) any special order under section 4, 5 or 6 is made in respect of such area,

the Deputy Commissioner shall cause public notice of the provisions of such general or special order to be given, and if the provisions of any such order restrict or prohibit the exercise of any existing rights, shall also publish in the language of the country and in every town and village the boundaries of which include any portion of the area within or over which the exercise of any such rights is so restricted or prohibited, a proclamation stating the regulations, restrictions and prohibitions, which have been imposed by any such order, within the limits of such area or in any part or parts thereof, fixing a period of not less than three months from the date of such proclamation and requiring every person claiming any compensation in respect of any right so restricted or prohibited, within such period either to present to such officer a written notice specifying, or to appear before him and state the nature and extent of such right and the amount and particulars of the compensation, if any, claimed in respect thereof.

(2) Any claim not preferred within the time fixed in the proclamation made under sub-section (1), shall be rejected:

Provided that with the previous sanction of the Commissioner, the Deputy Commissioner may admit any such claim as if it had been made within such period.

**9. Power to fix time within which work to be executed, etc.-** (1) When an order has been issued under section 6, the Deputy Commissioner may by notice require the owner or occupier of the land to execute such works or take such measures as may be specified in the notice.

(2) Every such notice shall state the time within which the works are to be executed or measures are to be taken.

(3) A person aggrieved by an order contained in such a notice as aforesaid may, within thirty days from the service of such notice or within such longer period as the Deputy Commissioner may allow in this behalf, serve a notice of his objections on the Deputy Commissioner in such manner as may be provided by the rules made under this Act.

(4) If and in so far as an objection under this section is based on the ground of some informality, defect or error in or in connection with the notice, the Deputy Commissioner shall dismiss the objection, if he is satisfied that the informality, defect or error was not a material one.

(5) If the objection is brought on all or any of the following grounds that is to say-

- (a) that the notice might lawfully have been served on the occupier of the land in question instead of on the owner, or on the owner instead of on the occupier, and that it would have been equitable for it to have been so served;



- (b) that some other person, being the owner, occupancy-tenant, mortgagee with possession, or lessee, or farm-holder, or possessing some other right in or over the land to be benefited, ought to contribute towards the expenses of executing any works or taking any measures required;
- (c) where the work or measure is work or measure for the common benefit of the land in question and other land, that some other person being the owner or occupier of land to be benefited, ought to contribute towards the expenses of executing any works or taking any measures required;

the objector shall serve a copy of his notice of objection on each other person referred to, in clauses (a) to (c) and on the hearing of the objection of Deputy Commissioner may make such order as he thinks fit with respect to the person by whom any work is to be executed or measure is to be taken and the contribution to be made by any other person towards the cost of the work or measure, or as to the proportions in which any expenses which may become recoverable by the Deputy Commissioner under sub-section (6) are to be borne by the objector and such other persons:

Provided that no such order shall be made unless the person who is likely to be affected thereby has been given a reasonable opportunity of being heard.

In exercising his power under this sub-section the Deputy Commissioner shall have regard-

- (a) as between an owner and an occupier, to the terms and conditions, whether contractual or statutory, of the tenancy and to the nature of the works and measures required, and
- (b) in any case, to the degree of benefit to be derived by the different persons concerned.

(6) Notwithstanding anything to the contrary contained in any law for the time being in force, no person required by a notice or an order under this section to execute any work or to take any measure shall be required to obtain the consent of any other person before complying with such notice or order.

(7) Subject to such right of objection as aforesaid and the right of appeal under section 15, if the person required by the notice to execute the works or to take measures fails to execute the works and take measures indicated within the time thereby limited, the Deputy Commissioner may himself or by an agent execute the works or take the measures and recover from that person the expenses reasonably incurred by him in so doing:

Provided that it shall not be necessary for the Deputy Commissioner to wait for the decision of an objection other than an objection under clause

(a) of sub-section (5), or an appeal against any decision on such objection, before taking action under this sub-section.

(8) If the cost of any work executed or any measure taken by any person remains unpaid by the person from whom it is due after the date specified in a notice issued in this behalf by the Deputy Commissioner or such other date as is fixed by him, such cost shall be recoverable as an arrear of land revenue and a certificate issued by the Deputy Commissioner in this behalf shall be final and conclusive evidence of the sum so recoverable and the person liable for the same.

(9) Every order issued under this section shall be published in such manner, as may be prescribed in the rules made under this Act, and upon such publication every person affected thereby shall, unless the contrary be proved, be deemed to have had due notice thereof.

(10).The Deputy Commissioner, may, by general or special order, authorise any revenue officer subordinate to him to enquire into any objection that may be brought under this section:

Provided that no final order on any such objection shall be passed except by the Deputy Commissioner himself.

(11) In making an order on objections brought under this section, Deputy Commissioner shall be guided by such rules, if any, as the State Government may make in this behalf.

(12) For the purposes of this section, the expression “estate” shall have the meaning assigned thereto in the Himachal Pradesh Land Revenue Act, 1953 (6 of 1954).

### **CHAPTER III**

#### **POWER TO ENTER UPON AND DELIMIT NOTIFIED AREAS**

##### **AND BEDS.**

**10. Power to enter upon, survey and demarcate local areas notified under section 3.-** It shall be lawful for the Deputy Commissioner and any other person, as may be authorised by him, from time to time, as occasion may require,-

- (a) to enter upon and survey any land comprised within any area in regard to which any notification has been issued under section 3 or in regard to which a notification is proposed to be issued under section 6;
- (b) to erect bench-marks on and to delimit and demarcate the boundaries of any such area; and
- (c) to do all other acts and things which may be necessary in order adequately to preserve or protect any land or to give effect to all or any of the provisions of this Act:

Provided that reasonable compensation, to be assessed and determined in the manner in this Act provided, shall be made in respect of any damage or injury caused to the property or rights of any person in carrying out any operations under the provisions of this section.

### **CHAPTER IV**

#### **INQUIRY INTO CLAIMS AND AWARDS OF COMPENSATION**

**11. Inquiries into claims and awards thereupon.-** (1) The Deputy Commissioner shall-

- (a) fix a date for inquiring into all claims made under section 8 and may in his discretion, from time to time, adjourn the inquiry to a date to be fixed by him;
- (b) record in writing all statements made under section 8;
- (c) inquire into all claims duly preferred under section 8; and
- (d) make and award upon such claim, setting out therein the nature and extent of the right claimed, the person or persons making such claim, the extent, if any, to which, and the person or persons in whose favour, the right established, the extent to which it is to be restricted or prohibited and the nature and amount of the compensation, if any, awarded.

(2) For the purposes of every such inquiry the Deputy Commissioner may exercise all or any of the powers of a civil court in the trial of suits under the Code of Civil Procedure (5 of 1908).

(3) The Deputy Commissioner shall announce his award to such persons interested, or their representatives, as are present and shall record the acceptance of those who accept it. To such as are not present, the Deputy Commissioner shall cause immediate notice of his award to be given.

##### **12. Method of awarding compensation and effect of such award.-**

(1) In determining the amount of compensation the Deputy Commissioner shall be guided, so far as may be, by the provisions of sections 23 and 24 of the Land Acquisition Act, 1894 (1 of 1894),

and as to matters which cannot be dealt with under those provisions, by what is just and reasonable in the circumstances of each case.

(2) The Deputy Commissioner may, with the sanction of the State Government and the consent of the person entitled, instead of money, award compensation in land or by reduction in revenue or in any other form.

(3) If in any case, the exercise of any right is prohibited for a time only, compensation shall be awarded only in respect of the period during which the exercise of such rights is so prohibited.

## CHAPTER V PROCEDURE, RECORDS

### AND APPEAL

**13. Record-of-rights in respect of notified areas.-** (1) For every area, notified under section 3, the Deputy Commissioner shall prepare a record setting forth the nature, description, local situation and extent of all rights mentioned in section 4 and section 5 -

- (a) existing within such area at the time of the publication of the notification relating thereto under section 3;
- (b) regulated, restricted, or prohibited by any order under section 4 or section 5.

(2) When any award is made under section 11 its effect upon any right shall also be recorded therein.

(3) The record prepared under this section shall be presumed to be correct until contrary is proved or a new entry lawfully substituted therefor.

**14. Mode of proclaiming notifications and of serving notices, orders and processes, issued under the Act.-** (1) Upon the publication of a notification issued under any of the provisions of this Act, the Deputy Commissioner shall cause public notice of the substance thereof to be given at convenient places in the locality to which such notification relates.

(2) The procedure prescribed in sections 21, 22 and 23 of the Himachal Pradesh Land Revenue Act, 1953 (6 of 1954), shall be followed, as far as may be, in proceeding under this Act.

**15. Appeal, review and revision.-** Every order passed and every award made by the Deputy Commissioner under this Act shall for the purposes of appeal, review and revision, respectively, be deemed to be the order of a Collector within the meaning of sections 14, 15, 16 and 17 of the Himachal Pradesh Land Revenue Act, 1953 (6 of 1954):

Provided that nothing in this Act contained shall be deemed to exclude the jurisdiction of any civil court to decide any dispute arising between the persons interested in any compensation awarded as to the apportionment or distribution thereof amongst such persons or any of them.

## CHAPTER VI PUNISHMENTS, BAR OF

### SUITS AND RULES

**16. Punishment for offences.-** Any person who, within the limits of any area notified under section 3, commits any breach of any regulation made, restrictions or prohibitions imposed, order passed or requisition made under sections 4, 5, 6 or 9 or obstructs or resists in any way whatever the execution of acts or things done under section 10, shall be punished with imprisonment

for a term which may extend to 6 months, or with a fine which may extend to five hundred rupees, or with both.

**17. Applications of provisions of the Indian Forest Act, 1927.-** The provisions of sections 52, 54, 55, 56, 57, 58, 59, 60, 61, 62, 64 (excluding last sentence), 66 and 73 of the Indian Forest Act, 1927 (16 of 1927) shall, so far as applicable, be read as part of this Act and for the purposes of those provisions, every offence punishable under section 16 shall be deemed to be a "forest offence" and every officer employed in the management of any area notified under

section 3 as caretaker or otherwise, shall be deemed to be a forest officer.

**18. Power to try offences summarily.-** The Chief Judicial Magistrate or any Judicial Magistrate of the first class specially empowered in this behalf by the State Government shall try summarily, under the Code of Criminal Procedure, 1973 (2 of 1974), any forest offence punishable with imprisonment for a term not exceeding six months, or with a fine not exceeding five hundred rupees, or with both.

**19. Power to compound offences.-** (1) The State Government may, by notification in the Official Gazette, empower a Gazetted Forest Officer-

- (a) to accept from any person, against whom a reasonable suspicion exists that he has committed any forest offence, other than an offence specified in section 62 of the Indian Forest Act, 1927 (16 of 1927), a sum of money by way of compensation for the offence which such person is suspected to have committed; and
- (b) when any property has been seized as liable to confiscation, to release the same on payment of the value thereof as estimated by such officer.

(2) On the payment of such sum of money, or such value, or both, as the case may be, to such officer, the suspected person, if in custody, shall be discharged, the property, if any, seized shall be released, and no further proceeding shall be taken against such person or property.

(3) The sum of money accepted as compensation under clause (a) sub-section (1) shall in no case exceed the sum of five hundred rupees in each case.

**20. Bar to suits.-** No suit shall lie against the State Government for anything done under this Act, and no suit shall lie against any public servant, for anything done, or purporting to have been done, by him, in good faith, under this Act.

**21. Power to make rules.-** (1) The State Government may make rules, consistent with this Act,-

- (a) regulating the procedure to be observed in any inquiry or proceeding under this Act; and
- (b) generally for the purpose of carrying into effect all or any of the provisions of this Act.

(2) All rules made under this section shall be published in the Official Gazette.

(3) Every rule made under this Act shall be laid, as soon as may be after it is made, before the Legislative Assembly while it is in session for a total period of not less than fourteen days, which may be comprised in one session or in two or more successive sessions, and if before the expiry of the session in which it is so laid or the sessions aforesaid, the Assembly makes any modification in the rule or decides that the rule should not be made, the rule shall thereafter have effect only in such modified form or be of no effect, as the case may be, so, however, that any such modification or annulment shall be without prejudice to the validity of anything previously done under that rule.

**22. Repeal and Savings.-** The Punjab Preservation Act, 1900 (2 of 1900), as in force in the areas added to Himachal Pradesh under section 5 of the Punjab Re-organization Act, 1966 (31 of 1966) and the Mandi State Anti- Erosion Act, 2004 B.K.(4 of 2004 B.K.), as in force in the areas comprised in the erstwhile princely State of Mandi, are hereby repealed:

Provided that anything done or any action taken, including rules made, notifications issued or proceedings commenced or continued under the provisions of the Acts hereby repealed shall, unless it is inconsistent with the provision of this Act, be deemed to have been done, taken, made, issued, commenced or continued under the corresponding provisions of this Act.

**Contents of guidelines in respect of prevention and control of Forest Fires as laid down by Govt. of India vide No. 9-6/99-FFD dated 22-6-2001.**

**(A) General Measures**

- (2) All the fire prone forest areas should be prepared. This may be done by 31 July, 2000 and intimated to this minIry. It may please be noted, that grants to the State will be released based on the fire prone maps submitted by the states.
- (3) Data base on forest fires should be compiled and analysis of statistics on fire damage should be done every year and reported to this minIry.
- (4) Fire Danger Rating System and Forest Fire Forecasting System should be prepared with the help of 'National Center for Medium Range Weather Forecasting' of Department of science and Technology, Lodi Road, New Delhi.
- (5) The services of ex-servicemen could be utilized and they can be appointed as Fire Warden in Divisions/Ranges on payment of honorarium.
- (6) The Item of forest protection should be treated as a plan item so that it gets more attention and more allocation of budget.
- (7) Forest Department field staff must make a realistic assessment of damage from forest fires and a professional approach should determine the assessment of damage. It is generally observed that field staff do not report the actual fire damage due to fear of action and this practice needs to be curbed.

**(B) Specific measure**

Following specific measures may be undertaken for prevention and control of forest fires.

- (1) All the preventive measure should be taken in advance before the fire season starts. Fire lines should be cleared in time. Fire watcher should be employed and other precautionary measures as per Working Plan should be taken.
- (2) A senior officer in PCCF office may be appointed as nodal officer. During fire season he will keep upto date information on forest fires of the state and will liaise with various agencies including Government of India regarding various issues on the subject.
- (3) During the fire season, a crises group of about five officers may also be constituted in the office of PCCF and territorial CCF/CFs to closely monitor the situation and coordinate various preventive measures and also arrange adequate enforcement in case of any eventually. The crisis group should also be constituted at the circle level. At Division level a group under the Collector's chairmanship with DFO as Secretary with prominent local, Social and political leaders and other officers of different departments be constituted for effective coordination and control. This crisis group would mobilize all the Government and non-Government officials and other material resources for prevention and control of forest fires.
- (4) Communication network should also be set up for quick flow of information and movement of the men and material to fire site.

- (5) The forest staff available in other wings should be specifically placed under the disposal of territorial division during fire season.
- (6) The concerned authorities of other departments may be apprised in advance and their cooperation may be sought in dealing with any eventuality.
- (7) Special steps should be taken to prevent fires in timber depots. Fire extinguishers and water should be kept ready for use in case of any eventuality.
- (8) JFM committees and Forest Protection Committees should be actively involved in Prevention and control of forest fires. Others people living in and around the forest areas and getting benefits from the forests should also be actively involved.
- (9) The communities and government staff should be regularly trained for prevention and control of forest fires.
- (10) Efforts should be made to create public awareness against the ill effects of forest fires. A fire week could be celebrated to create mass awareness.

**(C) Legal Measures**

Provision of Indian Forest Act, 1927 regarding Forest fires i.e. Section 33 and 79 of IFA, 1927 should be strictly implemented. A specific circular may be issued by the State Governments regarding mobilization of human and material resources like man power, vehicles etc. in case of forest fires. Other rules and regulations of the state governments in this regard should also be strictly implemented. In order to make an impact at field level, the guidelines may be translated in local languages and circulated to the field staff.

Sd/-  
(M. K. Sharma)  
Addl. Inspector General of Forests

## A. LI of Exling and Proposed Buildings: -

| Name of Range | Name of building                | Station   | Year of construction | Cost (in Rs.) |
|---------------|---------------------------------|-----------|----------------------|---------------|
| 2             | 3                               | 4         | 5                    | 6             |
| Arsu          | Range Residence at Arsu         | Arsu      | 1921-22              | 2400          |
|               | BO Quarter Arsu                 | Arsu      | 1947-48              | 2400          |
|               | BO Quarter at Nirmand           | Nirmand   | 1962-63              | Not Known     |
|               | BO Qurater at Kharga            | Kharga    | 1939-40              | 1000          |
|               | Range Residence at Nirmand      | Nirmand   | 1961-62              | Not Known     |
|               | F.G.Hut at Nirmand              | Nirmand   | 1962-63              | Not Known     |
|               | F.G.Hut, Averi at Nirmand       | Nirmand   | 1986-87              | Not Known     |
|               | F.G.Hut, Brow                   | Brow      | 1958-59              | 1240          |
|               | F.G.Hut, Arsu                   | Arsu      | 1945-46              | Not Known     |
|               | F.G.Hut, Buini                  | Buini     | 1986-87              | Not Known     |
|               | F.G.Hut, Tharvi                 | Tharvi    | 1927-28              | 3000          |
|               | F.G.Hut, Tharla                 | Tharla    | 1921-22              | 1000          |
|               | F.G.Hut, Shamani                | Shamani   | 1984-85              | Not Known     |
|               | F.G.Hut, Sargha                 | Sargha    | 1986-87              | 50000         |
|               | F.G.Hut, Kharga                 | Kharga    | 1939-40              | 1000          |
|               | F.G.Hut, Sarahan                | Sarahan   | 1999-00              | 197405        |
|               | F.G.Hut, Tunan                  | Tunan     | 1988-89              | 65000         |
|               | Class-IV Quarter                | Arsu      | 1952-53              | 850           |
|               | B-II Hut, Samatan               | Singh Gad | 1956-57              | 26            |
|               | B-II Hut, Kharga                | Kharga    | 1956-57              | 26            |
|               | B-II Hut, Kasumba               | Kasumba   | 1956-57              | 64            |
|               | I-Hut Nirmand                   | Nirmand   | 1956-57              | 573           |
|               | F.G.Hut, Chunagai               | Chunagai  | 1996-97              | 145000        |
|               | Range Office/Residence, Nirmand | Nirmand   | Not Known            | Not Known     |
|               | Seed Store at Brow              | Brow      | Not Known            | Not Known     |
|               | Range Rest House at Brow        | Brow      | 1952-53              | 1000          |
|               | I-Hut, Sargha                   | Sargha    | 2009-10              | 828000        |
|               | I-Hut, Chunagai                 | Chunagai  | 2018-19              | 2500000       |
|               | BO, Quarter, Sarahan            | Sarahan   | 2019-20              | 1994000       |
| Chowai        | FRH, Chowai                     | Chowai    | 1915                 | Not Known     |
|               | FRH, Paneo                      | Paneo     | 1912                 | Not Known     |
|               | FRH, Takrasi                    | Takrasi   | 1913                 | Not Known     |
|               | FRH, Tarala                     | Tarala    | 1936                 | Not Known     |
|               | Range Office, Chowai            | Chowai    | 1959-60              | Not Known     |
|               | Range Residence at Chowai       | Chowai    | 1962-63              | Not Known     |
|               | Range Office/Residence, Soil    | Chowai    | 1962-63              | Not Known     |
|               | BO Quarter Chowai               | Chowai    | Not Known            | Not Known     |

|        |                            |          |           |           |
|--------|----------------------------|----------|-----------|-----------|
|        | BO Quarter, Khanag         | Khanag   | Not Known | Not Known |
|        | BO Quarter, Soil, Chowai   | Chowai   | 1963-64   | Not Known |
|        | BO Quarter, Takrasi        | Takrasi  | 1999-00   | 249995    |
|        | Range Rest Room, Takrasi   | Takrasi  | Not Known | Not Known |
|        | Range Rest Room, Paneo     | Paneo    | Not Known | Not Known |
|        | Range Rest Room, Tarala    | Tarala   | Not Known | Not Known |
|        | Range Rest Room, Namhong   | Namhong  | Not Known | Not Known |
|        | B-II, Chowai               | Chowai   | Not Known | Not Known |
|        | F.G.Hut, Takrasi at Tharvi | Tharvi   | Not Known | Not Known |
|        | F.G.Hut, Bai               | Bai      | Not Known | Not Known |
|        | BO Quarter, Paneo          | Paneo    | Not Known | Not Known |
|        | F.G.Hut Patarna            | Patarna  | Not Known | Not Known |
|        | F.G.Hut, Khanag            | Khanag   | Not Known | Not Known |
|        | F.G.Hut, Deem              | Deem     | Not Known | Not Known |
|        | F.G.Hut, Tarla             | Tarala   | Not Known | Not Known |
|        | F.G.Hut, Gad at Chowai     | Chowai   | Not Known | Not Known |
|        | F.G.Hut, Namhong           | Namhong  | Not Known | Not Known |
|        | F.G.Hut, Haripur           | Haripur  | Not Known | Not Known |
|        | F.G.Hut, Ropri (2 No.s)    | Ropri    | Not Known | Not Known |
|        | Peon Quarter, Chowai       | Chowai   | Not Known | Not Known |
|        | Seed Store, Chowai         | Chowai   | Not Known | Not Known |
|        | Chowkidar Quarter, Chowai  | Chowai   | Not Known | Not Known |
|        | Mali Hut, Bahu             | Bahu     | Not Known | Not Known |
|        | Mali Hut, Shamshar         | Shamshar | Not Known | Not Known |
|        | F.G.Hut (Saw-Mill) Ropri   | Ropri    | Not Known | Not Known |
|        | Out House, Chowai          | Chowai   | 1965-66   | Not Known |
|        | Out House, Paneo           | Paneo    | 1912      | Not Known |
|        | Out House, Tarala          | Tarala   | Not Known | Not Known |
|        | Out House, Takrasi         | Takrasi  | 1913      | Not Known |
|        | Gang-Hut, Anni             | Anni     | 2011      | 500000    |
|        | Mali-Hut, Bahu             | Bahu     | 2011      | 250000    |
|        | BO,Quarter, Paneo          | Paneo    | 2019-20   | 2141000   |
| Nither | I-Hut, Margi               | Margi    | Not Known | Not Known |
|        | Out House, Margi           | Margi    | Not Known | Not Known |
|        | F.G.Hut, Margi             | Margi    | Not Known | Not Known |
|        | F.G.Hut, Katomore          | Katomore | Not Known | Not Known |
|        | F.G.Hut, Ghatu             | Ghatu    | Not Known | Not Known |
|        | F.G.Hut, Dalash            | Dalash   | Not Known | Not Known |
|        | BO Quarter, Dalash         | Dalash   | 1965-66   | Not Known |
|        | F.G.Hut, Luhri             | Luhri    | Not Known | Not Known |
|        | F.G.Hut, Katahar           | Katahar  | Not Known | Not Known |
|        | Seed Store, Luhri          | Luhri    | Not Known | Not Known |



|                                   |         |                    |           |
|-----------------------------------|---------|--------------------|-----------|
| F.G.Hut, Sarahar                  | Sarahar | Not Known          | Not Known |
| F.G.Hut, Koil                     | Koil    | Not Known          | Not Known |
| F.G.Hut, Nither                   | Nither  | Not Known          | Not Known |
| Type II Quarter, Luhri            | Luhri   | 1988-89            | Not Known |
| F.G.Hut, Ghorla                   | Ghorla  | 1986-87            | Not Known |
| BO, Qurater, Nither               | Nither  | 1986-87            | Not Known |
| Seed Store, Nither                | Nither  | 1984-85            | Not Known |
| FRH, Shila                        | Nither  | 1988-89            | Not Known |
| Out House, Nither                 | Nither  | Not Known          | Not Known |
| Range Office/Residence, Nither    | Nither  | 1985-86            | Not Known |
| Range Office-cum-Residence, Luhri | Luhri   | 1990-91            | Not Known |
| Store at Nither                   | Nither  | 1984-85            | Not Known |
| FRH, Kitchen, Nither              | Nither  | 1990-91            | Not Known |
| Gang-Hut, Luhri                   | Luhri   | 2000-01            | 198600    |
| Fire Control Room, Luhri          | Luhri   | 2001-02            | 200000    |
| Type-I Quarter (2 No.s), Luhri    | Luhri   | 2004-05            | 647000    |
| Divisional Office, Luhri          | Luhri   | 2006-07 to 2015-16 | 3099800   |
| F.G.Hut, Moin                     | Moin    | 2014-15            | 400000    |
| Gang-Hut, Moin                    | Moin    | 2014-15            | 600000    |
| I-Hut, Moin                       | Moin    | 2017-18            | 1423000   |
| BO, Quarter, Moin                 | Moin    | 2017-18            | 1504000   |

**B. LI of Proposed Buildings: -**

| <b>Name of the Range</b> | <b>Block</b> | <b>Beat</b> | <b>Name of Building</b>                   | <b>Location</b> | <b>Type of Building</b> |
|--------------------------|--------------|-------------|-------------------------------------------|-----------------|-------------------------|
| Arsu                     | Nirmand      | Nirmand     | Store                                     | Nirmand         | Type - I                |
|                          | Nirmand      | Nirmand     | Special Duty Quarter/Gang Hut             | Nirmand         |                         |
|                          | Nirmand      | Nirmand     | Range Office Complex<br>Chowkidar Quarter | Nirmand         | Type-I                  |
|                          | Nirmand      | Nirmand     | Rest House Chowkidar Quarter              | Nirmand         | Type-1                  |
|                          | Arsu         | Palli       | Trekker Hut                               | Pankwa          |                         |
|                          | Arsu         | Tharvi      | Trekker Hut                               | Tharvi          |                         |
|                          | Khargha      | Khargha     | Forest Guard Quarter                      | Khargha         | Type-II                 |
|                          | Nirmand      | Averi       | Forest Guard Quarter                      | Averi           | Type-II                 |
| Chowai                   | Takrasi      | Karshala    | Fgd Hut Karshala                          | Deem            | Type-II                 |
|                          |              |             | Fgd Hut at Lohal                          | Lohal           | Type-II                 |
|                          |              | Kuinr       | Fgd. Hut at Kuinr                         | Kuinr           | Type-II                 |
|                          | Chowai       | Kutwa       | Fgd Hut at Kutwa                          | Kutwa           | Type-II                 |
|                          |              | Gad         | Fgd Hut at Gad                            | Gad             | Type-II                 |
|                          |              | Chowai      | I-Hut at Ropri                            | Ropri, Ani      | Type-II                 |
|                          | Khanag       | Khoila      | Fgd Hut at Kohila                         | Kohila          | Type-II                 |
|                          |              |             | Fgd Hut at Deem                           | Deem            | Type-II                 |
| Nither                   | Dalash       | Luhri       | Residential Quarter                       | Luhri           | Type-II (4 No.s)        |
|                          |              |             | Residential Quarter                       | Luhri           | Type-I (4 No.s)         |
|                          |              | Kandagai/   | Fgd Hut Kandagai                          | Kandagai        | Type-II                 |
|                          | Nither       | Tandi       | Fgd Hut at Tand                           | Tandi           | Type-II                 |

## LI of exling and proposed Roads, Paths and Bridges: -

## A. LI of exling Roads, Paths and Bridges: -

| Name of Range | Name of Road/Path            | Length in KM | Year of construction | Cost in Rs. |
|---------------|------------------------------|--------------|----------------------|-------------|
| Arsu          | <b>A. BRIDLE PATH</b>        |              |                      |             |
|               | Chunagai-Nardi D.B.Road      | 15.29        | Not Known            | Not Known   |
|               | Nirmand Brow D.B.Road        | 12.07        | Not Known            | Not Known   |
|               | Sarahan Tarala Bridle Path   |              | Not Known            | Not Known   |
|               | Sarahan Tarala Bridle Path   | 11.26        | Not Known            | Not Known   |
|               | Sarahan Tarala Bridle Path   | 11.26        | Not Known            | Not Known   |
|               | Sarahan Tarala Bridle Path   | 9.65         | Not Known            | Not Known   |
|               | Sarahan Tarala Bridle Path   | 12.67        | Not Known            | Not Known   |
|               | Sarahan Tarala Bridle Path   | 4.00         | Not Known            | Not Known   |
|               | <b>Total</b>                 | <b>76.20</b> |                      |             |
|               | <b>B. INSPECTION PATH</b>    |              |                      |             |
|               | R/3 Jujuth C.I,II            | 6.03         | Not Known            | Not Known   |
|               | R/3 Jujuth C.III(a)          | 1.57         | Not Known            | Not Known   |
|               | 1/5 Kandushilla IV           | 0.76         | Not Known            | Not Known   |
|               | 1/6 Kula Pani C.II           | 0.78         | Not Known            | Not Known   |
|               | 1/7 Drad C.II                | 2.25         | Not Known            | Not Known   |
|               | 1/1 Tikkar C.I,II            | 9.27         | Not Known            | Not Known   |
|               | 1/1 Tikkar C.I,II            | 7.02         | Not Known            | Not Known   |
|               | 1/1 Tikkar C.I (b) & II(b)   | 0.28         | Not Known            | Not Known   |
|               | 1/3 Ramgarh Kandi C.I & II   | 5.11         | Not Known            | Not Known   |
|               | 1/5 Kandushilla C.I (b) & IV | 1.87         | Not Known            | Not Known   |
|               | 1/7 Drad C.I ( c) & II       | 4.02         | Not Known            | Not Known   |
|               | 2/1 Brati CII & III          | 3.72         | Not Known            | Not Known   |
|               | Brati Bridge - Dogra         | 2.05         | Not Known            | Not Known   |
|               | Kasumba -2/1 Brati           | 14.08        | Not Known            | Not Known   |
|               | Sarahan- Jujuth              | 3.24         | Not Known            | Not Known   |
|               | 2/3 Siarunal C.II            | 1.45         | Not Known            | Not Known   |
|               | Samattan-Dimajan             | 2.82         | Not Known            | Not Known   |

|        |                                       |               |               |           |
|--------|---------------------------------------|---------------|---------------|-----------|
|        | Dimajan -Dogra                        | 2.51          | Not Known     | Not Known |
|        | 2/6 Gada Mawa                         | 1.41          | Not Known     | Not Known |
|        | 2/3 Siarunal                          | 4.81          | Not Known     | Not Known |
|        | 1/3 Ramgarh Kandi                     | 6.01          | Not Known     | Not Known |
|        | 2/19 Mandrow-C.IV-R/3 Jujuth          | 7.92          | Not Known     | Not Known |
|        | R/3 Jujuth C.IV                       | 1.67          | Not Known     | Not Known |
|        | 2/16 Barnagi & R/2 Prali Girchi C.III | 8.65          | Not Known     | Not Known |
|        | <b>Total</b>                          | <b>99.29</b>  |               |           |
|        | <b>BRIDLE PATH</b>                    |               |               |           |
| CHOWAI | Shamshar-Fatapur                      |               |               |           |
|        | i) Shamshar-Paneo                     | 11.263        | 1951-52       | 900       |
|        | ii) Paneo-Takrasi                     | 14.883        | Not Known     | Not Known |
|        | iii) Sush-Fatapur                     | 5.631         | Not Known     | Not Known |
|        | Khanag-Sush                           | 5.631         | Not Known     | Not Known |
|        | Jaloripass-Sush                       | 5.631         | 1951-52       | 600       |
|        | Shamshar-Bahu-Tarala                  |               | Not Known     | Not Known |
|        | i) Shamshar-Bahu                      | 3.036         | 1965-66 (PWD) | 267527.5  |
|        | ii) Bahu-Tarala                       | 11.464        | 1968-69       | 35000     |
|        | Shilla- Margi-Tarala                  |               |               |           |
|        | i) Charanda-Tarala                    | 1.000         | Not Known     | Not Known |
|        | Sarahan-Tarala                        |               |               |           |
|        | i) Charanda-Tarala                    | 1.000         | Not Known     | Not Known |
|        | Chowai-Khanag (D.B.Road)              | 16.894        | Not Known     | Not Known |
|        | Kandagai-Anni -do-                    | 7.039         | Not Known     | Not Known |
|        | Anni-Paneo-do-                        | 7.782         | Not Known     | Not Known |
|        | <b>Total</b>                          | <b>57.539</b> |               |           |
|        | <b>INSPECTION PATH</b>                |               |               |           |
|        | Barti-Patarna                         | 3.941         | Not Known     | Not Known |
|        | 1/30 Chotar C.I,III,IV &V             | 4.082         | Not Known     | Not Known |
|        | 1/35 Paneo C.II,III,IV                | 5.912         | Not Known     | Not Known |
|        | R/7 Takrasi C.I.II                    | 8.869         | Not Known     | Not Known |
|        | 1/13 Sathabindra Trijhakar            |               |               |           |
|        | i) Bashir -Gugara Gad                 | 2.654         | Not Known     | Not Known |

|        |                                          |               |           |           |
|--------|------------------------------------------|---------------|-----------|-----------|
|        | ii) Old settlement path Butidhar to B.P. | 2.252         | Not Known | Not Known |
|        | 1/12 Drad Reuns C.I                      | 8.577         | Not Known | Not Known |
|        | <b>Total</b>                             | <b>36.287</b> |           |           |
|        | <b>SUBSIDIARY PATH</b>                   |               |           |           |
|        | R/6 Jharonu                              | 1.105         | Not Known | Not Known |
|        |                                          |               |           |           |
|        | Jharonu-Jalori                           | 0.804         | Not Known | Not Known |
|        | 1/28 Kotadhar C.I,II                     | 4.022         | Not Known | Not Known |
|        | 1/32 Kalandidhar                         | 2.413         | Not Known | Not Known |
|        | 1/13 Sathabindra Trijhakar               |               |           |           |
|        | i) 1/13 C.II & IV                        | 6.838         | Not Known | Not Known |
|        | ii) 1/13 C.IV,V                          | 2.011         | Not Known | Not Known |
|        | 1/36 Plaini Chaloon                      | 1.659         | Not Known | Not Known |
|        | 1/34 Tahchshill                          | 0.703         | Not Known | Not Known |
|        | 1/18 Bhon                                | 1.206         | Not Known | Not Known |
|        | 1/27 Bungbindraban C.II,III & IV         | 0.201         | Not Known | Not Known |
|        | 1/36 Plaini Chaloon                      | 4.574         | Not Known | Not Known |
|        | 1/19 Lambidhar & 1/20 Dagrut             | 4.464         | Not Known | Not Known |
|        | 1/35 Paneo C.IV                          | 1.005         | Not Known | Not Known |
|        | 1/31 Jhakroo                             | 4.524         | Not Known | Not Known |
|        | 1/27 Bungbindraban C.III & IV            | 2.674         | Not Known | Not Known |
|        | 1/29 Chajala                             | 2.473         | Not Known | Not Known |
|        | <b>Total</b>                             | <b>40.676</b> |           |           |
| Nither | <b>DB Road</b>                           |               |           |           |
|        | Kanagai-Luhri                            | 14.481        | Not Known | Not Known |
|        | Ratoh-Sarli (K.F.Path                    | 3.378         | Not Known | Not Known |
|        | <b>Total</b>                             | <b>17.859</b> |           |           |
|        | <b>BRIDLE PATH</b>                       |               |           |           |
|        | Shilla-Margi                             | 17.296        | Not Known | Not Known |
|        | Margi Charanda                           | 9.5           | Not Known | Not Known |
|        | Drad-Charanda                            | 3.5           | Not Known | Not Known |
|        | Knadagai-Nither                          | 15            | Not Known | Not Known |
|        | Nither-Nardi                             | 5             | Not Known | Not Known |

|                                                 |               |           |           |
|-------------------------------------------------|---------------|-----------|-----------|
| <b>Total</b>                                    | <b>50.296</b> |           |           |
| <b>INSPECTION PATH</b>                          |               |           |           |
| 1/18 Lohar                                      | 8.868         | Not Known | Not Known |
| 1/15 Lotkayaon                                  | 2.865         | Not Known | Not Known |
| 1/24 Shilla (C-I)                               | 2.413         | Not Known | Not Known |
| 1/17 Gohan                                      | 1.206         | Not Known | Not Known |
| 1/24 Shilla C-I(b), II                          | 3.298         | Not Known | Not Known |
| <b>Total</b>                                    | <b>18.65</b>  |           |           |
| <b>C.FOOTPATH</b>                               |               |           |           |
| C/o Footpath from Moin to Nither                |               | 2019-20   | 120000    |
| <b>D. JEEPABLE ROAD</b>                         |               |           |           |
| C/o Jeepable road from Moin Nursery to Bagilang | 1.5           | 2019-20   | 200000    |

**B. LI of proposed Roads, Paths and Bridges: -**

| <b>Sr.No.</b> | <b>Name of Range</b> | <b>Name of Proposed Road</b>                |
|---------------|----------------------|---------------------------------------------|
| 1.            | Arsu Range           | C/o Jeepable road to I-Hut, Sarga (Kasumba) |

## LI of Exling Boundry Pillar:

| Name of Range | Name of Forest   | No of Boundary Pillars |            | Total       |
|---------------|------------------|------------------------|------------|-------------|
|               |                  | Large                  | Small      |             |
| Arsu          | R/2 PralliGirchi | 7                      | 29         | 36          |
|               | R/3 Jajuth       | 8                      | 55         | 63          |
|               | 1/2 Shikarwa     | 9                      | 29         | 38          |
|               | 1/5 KanduShilla  | 9                      | 103        | 112         |
|               | 1/6 KullaPani    | 4                      | 36         | 40          |
|               | 1/7 Darad        | 8                      | 24         | 32          |
|               | 2/16 Barnagi     | 12                     | 72         | 84          |
|               | 2/17 Dadai       | 8                      | 52         | 60          |
|               | 2/18 Rachokari   | 6                      | 28         | 34          |
|               | 2/19 Mandrow     | 9                      | 45         | 54          |
|               | R/1 ShilliGirchi | 9                      | 49         | 58          |
|               | 2/11 Kaleo       | 11                     | 86         | 97          |
|               | 1/2 Shikarwa     | 9                      | 42         | 51          |
|               | 1/1 Tikker       | 11                     | 54         | 65          |
|               | 2/10 Mool        | 9                      | 82         | 91          |
|               | 1/4 Reunsh       | 6                      | 8          | 14          |
|               | 2/13 Shakra      | 7                      | 0          | 7           |
|               | 2/12 Balacha     | 9                      | 18         | 27          |
|               | 2/4 Dobda        | 10                     | 23         | 33          |
|               | 2/5 Baghari      | 5                      | 7          | 12          |
|               | 2/6 GadaMawa     | 5                      | 23         | 28          |
|               | 2/14 Danda       | 7                      | 0          | 7           |
|               | 2/15 Dawari      | 6                      | 0          | 6           |
|               | 2/7 TandiThera   | 5                      | 8          | 13          |
|               | 2/1 Barati       | 6                      | 4          | 10          |
|               | 2/2 Zia          | 8                      | 20         | 28          |
|               | 2/3 SiaruNal     | 8                      | 14         | 22          |
|               | 1/16 Shilla      | 12                     | 30         | 42          |
|               | 2/9 Galol        | 10                     | 10         | 20          |
|               |                  | <b>233</b>             | <b>951</b> | <b>1184</b> |
| Chowai        | 1/19 Lambidhar   | 4                      | 6          | 10          |
|               | 1/20 Dagrut      | 6                      | 13         | 19          |

|        |                                   |            |            |             |
|--------|-----------------------------------|------------|------------|-------------|
|        | 1/13 Satha Bindri<br>Tarai jhakar | 14         | 37         | 51          |
|        | 1/21 Kui Jhakar                   | 4          | 21         | 25          |
|        | 1/22 Barubherd                    | 16         | 31         | 47          |
|        | 1/23 OliNal                       | 4          | 18         | 22          |
|        | 2/22 Jadari<br>Bhamour            | 16         | 23         | 39          |
|        | 1/12 Drad Runs                    | 9          | 27         | 36          |
|        | 2/24 Bungmalaro                   | 4          | 19         | 23          |
|        | R/5 Ghaner Kalon                  | 4          | 12         | 16          |
|        | R/6Jharoonu                       | 5          | 5          | 10          |
|        | R/7 Takarasi                      | 19         | 32         | 51          |
|        | R/8 Kai kalon                     | 36         | 91         | 127         |
|        | 1/11 Kut                          | 15         | 14         | 29          |
|        | 1/25 Phon                         | 6          | 11         | 17          |
|        | 1/26 Parkotshil                   | 10         | 31         | 41          |
|        | 1/27<br>Bungbindraban             | 13         | 22         | 35          |
|        | 1/28 Kotadhar                     | 14         | 37         | 51          |
|        | 1/29 Chajala                      | 7          | 3          | 10          |
|        | 1/31 Jakru                        | 11         | 20         | 31          |
|        | 1/32 Kalandidhar                  | 23         | 20         | 43          |
|        | 1/33 Marogshill                   | 12         | 14         | 26          |
|        | 1/34 Thach Shil                   | 9          | 20         | 29          |
|        | 1/35 Paneo                        | 30         | 39         | 69          |
|        | 1/36 Peleni<br>Challoun           | 8          | 13         | 21          |
|        | 2/23 Khanoran                     | 5          | 14         | 19          |
|        | 2/25 Kotanal                      | 8          | 3          | 11          |
|        | 2/26 Khaneo                       | 5          | 21         | 26          |
|        | 2/27 Gohan                        | 6          | 13         | 19          |
|        | 2/28 jalori                       | 20         | 69         | 89          |
|        | 2/29 Alatoo                       | 8          | 16         | 24          |
|        | 2/30 sakiran                      | 10         | 5          | 15          |
|        | 2/31 Duga shil                    | 8          | 20         | 28          |
|        | 2/32Sharag Shill                  | 19         | 51         | 70          |
|        | 2/33 Mandri Bill                  | 12         | 10         | 22          |
|        | 2/34 Chul                         | 5          | 7          | 12          |
|        | <b>Total</b>                      | <b>405</b> | <b>808</b> | <b>1213</b> |
| Nither | R/4 Margi kaloan                  | 12         | 20         | 32          |
|        | 1/16 Shilla                       | 12         | 22         | 34          |
|        | 1/17 Gohan                        | 12         | 16         | 28          |



|  |                 |            |             |             |
|--|-----------------|------------|-------------|-------------|
|  | 1/18 Buhan      | 5          | 13          | 18          |
|  | 1/15 Lot kayaon | 18         | 38          | 56          |
|  | 1/14 Marah Kod  | 17         | 30          | 47          |
|  | 1/10 Bashad     | 9          | 20          | 29          |
|  | 1/8 Lohar       | 19         | 62          | 81          |
|  | 1/9 Bijuri      | 20         | 69          | 89          |
|  | 2/20 Daman      | 8          | 6           | 14          |
|  | 1/24 Shilla     | 10         | 29          | 39          |
|  | <b>Total</b>    | <b>142</b> | <b>325</b>  | <b>467</b>  |
|  | <b>G.Total</b>  | <b>780</b> | <b>2084</b> | <b>2864</b> |

| Sr. No. | Name of Range | Sr. No.  | Name of Block | Sr. No.   | Name of beat      |
|---------|---------------|----------|---------------|-----------|-------------------|
| 1       | Arsu          | 1        | Arsu          | 1         | Arsu              |
|         |               |          |               | 2         | Buini             |
|         |               |          |               | 3         | Pali              |
|         |               |          |               | 4         | Tharvi            |
|         |               | 2        | Sarahan       | 1         | Sarahan           |
|         |               |          |               | 2         | Shamani           |
|         |               |          |               | 3         | Juagi             |
|         |               |          |               | 4         | Tharla            |
|         |               | 3        | Nirmand       | 1         | Averi             |
|         |               |          |               | 2         | Brow              |
|         |               |          |               | 3         | Pujarli           |
|         |               |          |               | 4         | Nirmand           |
|         |               | 4        | Kharga        | 1         | Kharga            |
|         |               |          |               | 2         | Sarga             |
|         |               |          |               | 3         | Kindla            |
|         |               |          |               | 4         | Tunan             |
|         | <b>Total</b>  | <b>4</b> |               | <b>16</b> |                   |
| 2       | Chowai        | 1        | Chowai        | 1         | Chowai            |
|         |               |          |               | 2         | Gad               |
|         |               |          |               | 3         | Namhong           |
|         |               |          |               | 4         | Haripur           |
|         |               |          |               | 5         | Kutwa             |
|         |               | 2        | Khanag        | 1         | Kot at Khanag     |
|         |               |          |               | 2         | Kohila            |
|         |               |          |               | 3         | Deem              |
|         |               |          |               | 4         | Tarala            |
|         |               | 3        | Paneo         | 1         | Patarna           |
|         |               |          |               | 2         | Poeg              |
|         |               |          |               | 3         | Bai               |
|         |               |          |               | 4         | Karana            |
|         |               | 4        | Takrasi       | 1         | Kuinr             |
|         |               |          |               | 2         | Tharvi at Takrasi |
|         |               |          |               | 3         | Karshala          |
|         |               |          |               | 4         | Lohal             |
|         | <b>Total</b>  | <b>4</b> |               | <b>17</b> |                   |

|  |              |          |        |           |          |
|--|--------------|----------|--------|-----------|----------|
|  | Nither       | 1        | Nither | 1         | Nither   |
|  |              |          |        | 2         | Tandi    |
|  |              |          |        | 3         | Sarahar  |
|  |              | 2        | Margi  | 1         | Margi    |
|  |              |          |        | 2         | Nore     |
|  |              |          |        | 3         | Ghatu    |
|  |              |          |        | 4         | Katmore  |
|  |              | 3        | Moin   | 1         | Moin     |
|  |              |          |        | 2         | Koil     |
|  |              |          |        | 3         | Ghorla   |
|  |              | 4        | Dalash | 1         | Dalash   |
|  |              |          |        | 2         | Kandagai |
|  |              |          |        | 3         | Luhri    |
|  | <b>Total</b> | <b>4</b> |        | <b>12</b> |          |

| General Absract |               |              |
|-----------------|---------------|--------------|
| Name of Range   | No. of Blocks | No. of Beats |
| Arsu            | 4             | 16           |
| Chowai          | 4             | 17           |
| Nither          | 4             | 13           |
| <b>Total</b>    | <b>12</b>     | <b>46</b>    |

## List of Imported Timber Sale Depot regiered under Ani Forest Division at Luhri

| Sr. No. | Reglrlation No.  | Industry Type              | Industries Name                            | RangeName | Block   | Beat          | Owner Name         | Locati on    | Established Date | Valid Upto |
|---------|------------------|----------------------------|--------------------------------------------|-----------|---------|---------------|--------------------|--------------|------------------|------------|
| 1       | <u>7/2015-16</u> | IMPORTED TIMBER SALE DEPOT | Rajni thakur imported timber sale depot    | Nither    | Nither  | Nither        | Rajni Thakur       | Jhalli       | 28-01-2016       | 31-12-2020 |
| 2       | <u>6/2015-16</u> | IMPORTED TIMBER SALE DEPOT | Asha Devi Imported Timber Sale Depot       | Chowai    | Chowai  | Gad at Chowai | Asha Devi Varma    | Ani          | 18-12-2015       | 31-12-2020 |
| 3       | <u>3/2015-16</u> | IMPORTED TIMBER SALE DEPOT | Sanjay Kumar Imported Timber Sale Depot    | Chowai    | Chowai  | Gad at Chowai | Sanjay Kumar       | Ropari       | 17-06-2015       | 31-12-2019 |
| 4       | <u>4/2016-17</u> | IMPORTED TIMBER SALE DEPOT | Daleep Singh Importrd Timber sale depo     | Nither    | Nither  | Nither        | Daleep Singh       | Gharoli      | 04-01-2017       | 31-12-2021 |
| 5       | <u>3/2016-17</u> | IMPORTED TIMBER SALE DEPOT | Dhyan Singh Imported Timber Sale depot     | Nither    | Nither  | Nither        | Dhyan Singh        | Gharoli      | 04-01-2017       | 31-12-2021 |
| 6       | <u>9/2015-16</u> | IMPORTED TIMBER SALE DEPOT | Kimat Ram imported timber sale depo        | Arsoo     | Nirmond | Pujarli       | Kimat Ram          | Kutwa        | 11-03-2016       | 31-12-2020 |
| 7       | <u>3/2013-14</u> | IMPORTED TIMBER SALE DEPOT | Katoch Timber Sale Depot                   | Arsoo     | Nirmond | Brow          | Smt. Shashi Katoch | Rallu        | 18-03-2014       | 31-12-2022 |
| 8       | <u>8/2015-16</u> | IMPORTED TIMBER SALE DEPOT | Shri Dev Dutt Imported Timber sale depot   | Arsoo     | Nirmond | Nirmond       | Shri Dev Dutt      | Jagatkha ana | 24-02-2016       | 31-12-2020 |
| 9       | <u>5/2016-17</u> | IMPORTED TIMBER SALE DEPOT | Narayan Parkash Imported Timber Sale Depot | Arsoo     | Nirmond | Nirmond       | Narayan Parkash    | Nirman d     | 28-02-2017       | 31-12-2021 |
| 10      | <u>2/2013-14</u> | IMPORTED TIMBER SALE DEPOT | RVS Imported Timber Sale Depot.            | Arsoo     | Nirmond | Nirmond       | Rachna Sharma      | Sirkoti      | 13-03-2014       | 31-12-2018 |
| 11      | <u>4/2015-16</u> | IMPORTED TIMBER SALE DEPOT | Champa Devi Imported Timber Sale Depot     | Arsoo     | Nirmond | Brow          | Champa Devi        | Thach wai    | 07-08-2015       | 31-12-2019 |

|    |                          |                                  |                                                     |        |         |                     |                        |               |            |            |
|----|--------------------------|----------------------------------|-----------------------------------------------------|--------|---------|---------------------|------------------------|---------------|------------|------------|
| 12 | <u>1/A/2018-19</u>       | IMPORTED<br>TIMBER SALE<br>DEPOT | M/S Anjali Imported<br>Timber Sale Depot            | Arsoo  | Nirmond | Brow                | Ramesh<br>Chand        | Chaklot       | 22-06-2018 | 22-06-2023 |
| 13 | <u>1/2016-17</u>         | IMPORTED<br>TIMBER SALE<br>DEPOT | Deepak Sharma<br>Imported Timber sale<br>depot      | Arsoo  | Nirmond | Brow                | Deepak<br>Sharma       | Bhaada<br>il  | 27-10-2016 | 31-12-2020 |
| 14 | <u>1/2013-14</u>         | IMPORTED<br>TIMBER SALE<br>DEPOT | Laxmi Chand Imported<br>Timber sale depot           | Arsoo  | Nirmond | Brow                | Laxmi Chand            | Brow          | 11-04-2013 | 31-12-2022 |
| 15 | <u>1/A/2017-18</u>       | IMPORTED<br>TIMBER SALE<br>DEPOT | M/S Hukam Imported<br>Timber Sale Depot             | Arsoo  | Nirmond | Nirmond             | Hukam Lal              | Nirman<br>d   | 09-02-2018 | 31-12-2022 |
| 16 | <u>04/A/2018-<br/>19</u> | IMPORTED<br>TIMBER SALE<br>DEPOT | M/S Har Dyal Timber<br>Sale Depot                   | Arsoo  | Nirmond | Nirmond             | Har Dyal               | Jhiyara       | 14-11-2018 | 14-11-2023 |
| 17 | <u>4/2014-15</u>         | IMPORTED<br>TIMBER SALE<br>DEPOT | Hemant Thakur<br>Imported Timber sale<br>depot      | Arsoo  | Nirmond | Averi at<br>Nirmond | Hemant<br>thakue       | Averi         | 17-09-2014 | 31-12-2023 |
| 18 | <u>3/2014-15</u>         | IMPORTED<br>TIMBER SALE<br>DEPOT | Ranjana Timber Sale<br>Depott                       | Arsoo  | Kharga  | Tunan               | Smt. Ranjana<br>Kumari | Catti         | 21-08-2014 | 31-12-2018 |
| 19 | <u>1/2015-16</u>         | IMPORTED<br>TIMBER SALE<br>DEPOT | Govind Timber Sale<br>Dipit                         | Arsoo  | Kharga  | Tunan               | Govind Ram             | Catti         | 12-05-2015 | 31-12-2019 |
| 20 | <u>2/2015-16</u>         | IMPORTED<br>TIMBER SALE<br>DEPOT | Devinder Singh<br>Imported Timber sale<br>depot     | Arsoo  | Kharga  | Tunan               | Devinder<br>Singh      | Vishali<br>ai | 18-05-2015 | 31-12-2019 |
| 21 | <u>3/A/2018-19</u>       | IMPORTED<br>TIMBER SALE<br>DEPOT | Thakur Timber Sale<br>Depot                         | Arsoo  | Kharga  | Tunan               | Sh. Rakesh<br>Thakur   | Chatti        | 28-09-2018 | 28-09-2023 |
| 22 | <u>2/Ch/2018-<br/>19</u> | IMPORTED<br>TIMBER SALE<br>DEPOT | M/S Vishwakarma<br>Imported Timber Sale<br>Depot    | Chowai | Khanag  | Kot at<br>Khanag    | Sh. Pushap<br>Raj      | Gunam<br>ar   | 03-08-2018 | 03-08-2023 |
| 23 | <u>6/2014-15</u>         | IMPORTED<br>TIMBER SALE<br>DEPOT | Virender Mohan Sood<br>Imported Timber sale<br>depo | Nither | Dalash  | Dalash              | Virender<br>Mohan Sood | Dalash        | 18-11-2014 | 31-12-2018 |

|    |                   |                                  |                                                                       |        |        |                     |                       |                 |            |            |
|----|-------------------|----------------------------------|-----------------------------------------------------------------------|--------|--------|---------------------|-----------------------|-----------------|------------|------------|
| 24 | <u>2/2014-15</u>  | IMPORTED<br>TIMBER SALE<br>DEPOT | Ravi Parmar Imported<br>Timber sale depot                             | Nither | Dalash | Dalash              | Ravi Parmar           | Dhair           | 04-06-2014 | 31-12-2018 |
| 25 | <u>1/2014-15</u>  | IMPORTED<br>TIMBER SALE<br>DEPOT | Satyender Kumar<br>Timber Sale Depot                                  | Nither | Dalash | Dalash              | Satyender<br>Kumar    | Riwari          | 22-04-2014 | 31-12-2018 |
| 26 | <u>8/2014-15</u>  | IMPORTED<br>TIMBER SALE<br>DEPOT | Raj pal Sharma<br>imported timber sale<br>depo                        | Nither | Dalash | Dalash              | Raj pal<br>Sharma     | Bouri           | 26-12-2014 | 31-12-2018 |
| 27 | <u>2/ 2016-17</u> | IMPORTED<br>TIMBER SALE<br>DEPOT | Rajinder singh<br>Imported Timber sale<br>depot                       | Nither | Dalash | Luhri               | Rajinder singh        | khegsu          | 18-11-2016 | 31-12-2020 |
| 28 | <u>5/2014-15</u>  | IMPORTED<br>TIMBER SALE<br>DEPOT | "M/S Bhushan<br>Imported Timber Sale<br>Depot"                        | Chowai | Chowai | Chowai              | Gain Chand            | Chowai          | 30-09-2014 | 31-12-2018 |
| 29 | <u>2/2012-13</u>  | IMPORTED<br>TIMBER SALE<br>DEPOT | Sunil Mohan Imported<br>Timber sale Depot                             | Chowai | Chowai | Haripur<br>at Nigan | Sunil Mohan           | Nigan           | 14-12-2012 | 31-12-2017 |
| 30 | <u>7/2014-15</u>  | IMPORTED<br>TIMBER SALE<br>DEPOT | Chanderkesh Sharma<br>imported timber sale<br>depot                   | Chowai | Chowai | Haripur<br>at Nigan | Chanderkesh<br>Sharma | Ani             | 18-11-2014 | 31-12-2018 |
| 31 | <u>1/2012-13</u>  | IMPORTED<br>TIMBER SALE<br>DEPOT | SHRINGA Imported<br>Timber Sale Depot                                 | Chowai | Chowai | Haripur<br>at Nigan | Sachin<br>Malhotra    | Ani             | 07-11-2012 | 31-12-2017 |
| 32 | <u>5/205-16</u>   | IMPORTED<br>TIMBER SALE<br>DEPOT | Ganga Ram Timbar<br>Sale Depott                                       | Arsoo  | Arsoo  | Biuni               | Ganga Ram             | Buini           | 13-10-2015 | 28-02-2021 |
| 33 | <u>5/A/201819</u> | IMPORTED<br>TIMBER SALE<br>DEPOT | Rajiv Vill. Dhadhara<br>PO Chakti Tehsil<br>Nankhari DI. Shimla<br>HP | Arsoo  | Kharga | Tunan               | Rajiv                 | Jagatkha<br>ana | 29.11.2018 | 31.12.2022 |

**LI of Furniture House regIered under Ani Forest Dvision at Luhri**

| Sr.No. | RegIration No       | Industry Type  | Industries Name                    | RangeName | Block   | Beat          | Owner Name     | Location | Established Date | Valid Upto |
|--------|---------------------|----------------|------------------------------------|-----------|---------|---------------|----------------|----------|------------------|------------|
| 1      | <u>5/RK/2004-05</u> | FURNITURE SHOP | Mahalaxami Furniture shop          | Chowai    | Chowai  | Gad at Chowai | Chuni Lal      | Ani      | 21-08-2004       | 31-12-2007 |
| 2      | <u>8/RK/2005-06</u> | FURNITURE SHOP | Shivani Furniture Shop             | Chowai    | Chowai  | Chowai        | Tara Chand     | Chowai   | 08-08-2005       | 31-12-2020 |
| 3      | <u>1/RK/2004-05</u> | FURNITURE SHOP | Sunder Lal Furniture Shop          | Arsoo     | Nirmond | Brow          | Sunder Lal     | Chatti   | 02-09-2005       | 31-12-2020 |
| 4      | <u>40/2005-06</u>   | FURNITURE SHOP | "AS" Furniture Shop                | Nither    | Nither  | Nither        | Amar Singh     | Gharoli  | 02-09-2005       | 31-12-2007 |
| 5      | <u>4/2004-05</u>    | FURNITURE SHOP | Gulab Furniture Shop               | Nither    | Nither  | Nither        | Gulab Chand    | Nintha   | 03-07-2004       | 31-12-2022 |
| 6      | <u>3/2004-05</u>    | FURNITURE SHOP | "MK" Mohinder Kumar Furtiture Shop | Nither    | Nither  | Nither        | Mohinder Kumar | Nintha   | 03-07-2004       | 31-12-2021 |
| 7      | <u>4/RK</u>         | FURNITURE SHOP | Tain Singh Furniture Shop          | Nither    | Nither  | Sarahar       | Tain Singh     | Durah    | 27-09-2005       | 31-12-2018 |
| 8      | <u>6/RK/204-05</u>  | FURNITURE SHOP | Sanjeev Kumar Furniture shop       | Nither    | Nither  | Nither        | Sanjeev Kumar  | Charmala | 17-11-2004       | 31-12-2022 |
| 9      | <u>1/RK/2004-05</u> | FURNITURE SHOP | Gokal Ram Furniture Shop           | Chowai    | Takrasi | Kunir         | Gokal Ram      | Shwad    | 22-05-2005       | 31-12-2020 |
| 10     | <u>2508</u>         | FURNITURE SHOP | Bihari Lal Furniture Shop          | Chowai    | Takrasi | Kunir         | Bihari Lal     | Karana   | 27-11-2003       | 31-12-2015 |

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**LI of Saw Mill regIered under Ani Forest Division at Luhri**

| <b>Sr.No.</b> | <b>Regisration No.</b> | <b>Industry Type</b> | <b>Industries Name</b>      | <b>RangeName</b> | <b>Block</b> | <b>Beat</b>      | <b>Owner Name</b>      | <b>Location</b> | <b>Established Date</b> | <b>Valid Upto</b> |
|---------------|------------------------|----------------------|-----------------------------|------------------|--------------|------------------|------------------------|-----------------|-------------------------|-------------------|
| 1             | 355-56/G               | SAW MILL             | Amer Singh Saw Mill         | Arsoo            | Arsoo        | Arsoo            | Amar Singh             | Thachwa         | 21-05-1981              | 31-12-2008        |
| 2             | 1603/R                 | SAW MILL             | Pritam Singh Saw Mill       | Arsoo            | Arsoo        | Biuni            | Pritam Singh           | Buini           | 30-07-1969              | 31-12-2003        |
| 3             | 10715-17               | SAW MILL             | Budhi Singh Saw Mill        | Arsoo            | Arsoo        | Biuni            | Budhi Singh            | Buini           | 19-12-1987              | 31-12-2005        |
| 4             | 1/1994-95              | SAW MILL             | Indra Devi Sam Mill         | Chowai           | Chowai       | Chowai           | Indra Devi             | Bahu            | 13-04-1994              | 31-12-2020        |
| 5             | 4/86-87                | SAW MILL             | Man Dass Saw Mill           | Chowai           | Chowai       | Chowai           | Man Dass               | UPF Bakhnaw     | 15-06-1986              | 31-12-2020        |
| 6             | 1364-65                | SAW MILL             | Kisan Saw Mill              | Chowai           | Chowai       | Chowai           | Ganga Ram              | Ladhog          | 17-12-1978              | 31-12-2012        |
| 7             | 938-39/G               | SAW MILL             | Sat Paul Prem Paul Saw Mill | Chowai           | Chowai       | Kutwa            | Sh. Sat Paul Prep Paul | UPF Kutwa       | 04-05-1998              | 31-12-2020        |
| 8             | 2545-46/G              | SAW MILL             | Amer Chan & Khyale Ram      | Chowai           | Chowai       | Haripur at Nigan | Amer Chand Khyale Ram  | Kiran Bazar     | 21-01-1976              | 31-12-2015        |
| 9             | 2245-46                | SAW MILL             | Khyale Ram Saw Mill         | Chowai           | Chowai       | Haripur at Nigan | Khyale Ram             | Ani             | 21-01-1976              | 31-12-2015        |
| 10            | 3/85-86                | SAW MILL             | Nand Lal Saw Mill           | Chowai           | Chowai       | Chowai           | Nand Lal               | Chowai          | 21-03-1983              | 31-12-2020        |
| 11            | 957-58/G               | SAW MILL             | Shiv Ram Brother Saw Mill   | Chowai           | Chowai       | Chowai           | Sh. Shiv Ram Brother   | Ropri           | 06-07-1977              | 31-12-2020        |
| 12            | 2320-21                | SAW MILL             | Nitya Ram Saw Mill          | Chowai           | Chowai       | Chowai           | Nitya Ram              | Kamad           | 11-05-1976              | 01-05-2004        |
| 13            | 181/G                  | SAW MILL             | Jhura Ram/Parkash Saw Mill  | Nither           | Dalash       | Dalash           | Jhura Ram / Parkash    | Dalash          | 24-04-1971              | 31-12-2014        |
| 14            | 5609/9                 | SAW MILL             | Jagdish Parkash Saw Mill    | Nither           | Dalash       | Dalash           | Jagdish Prakash        | Dalash          | 11-01-1971              | 31-12-2005        |
| 15            | 1/1990-91              | SAW MILL             | Ludher Saw Mill             | Nither           | Dalash       | Tandi at Katahar | Ludher Chand           | Tandi           | 20-05-1991              | 31-12-2015        |
| 16            | 1/1993-94              | SAW MILL             | Chet Ram Saw Mill           | Nither           | Dalash       | Tandi at Katahar | Chet Ram               | Kandagai        | 30-12-1993              | 31-12-2002        |



|    |                          |          |                              |        |         |                  |                       |           |            |            |
|----|--------------------------|----------|------------------------------|--------|---------|------------------|-----------------------|-----------|------------|------------|
| 17 | 560-62                   | SAW MILL | Pratap Saw Mill Mahoot       | Chowai | Khanag  | Kot at Khanag    | Pratap Singh Thakur   | Galai     | 19-08-1978 | 31-12-2015 |
| 18 | 313-14/G                 | SAW MILL | Mohar Singh Saw Mill Rehar   | Chowai | Khanag  | Kot at Khanag    | Sh. Mohar Sing        | Khun      | 03-05-1975 | 31-12-2020 |
| 19 | 1/95-96                  | SAW MILL | Hari Saw Mill Batala         | Chowai | Khanag  | Kot at Khanag    | Sh. Hari NandSaw Mill | Batala    | 06-03-1969 | 31-12-2020 |
| 20 | 3186-87                  | SAW MILL | Sita Ram saw Mill            | Chowai | Khanag  | Kot at Khanag    | Sita Ram              | Chauhani  | 21-10-1974 | 01-03-2021 |
| 21 | 2213-14/R                | SAW MILL | Chuni Lal Saw Mill           | Chowai | Khanag  | Kohila at Kamand | Chuni Lal             | Jadarugad | 04-07-1975 | 31-12-2004 |
| 22 | 1994/95                  | SAW MILL | Leela Chan Saw Mill          | Chowai | Khanag  | Tarala           | Leela Chand           | Sawasar   | 27-07-1975 | 31-12-2020 |
| 23 | 1/93-94                  | SAW MILL | Jagat Saw Mill               | Arsoo  | Kharga  | Tunan            | Jagat Ram             | Sharshaya | 28-07-1993 | 31-12-2013 |
| 24 | 193-94/(S)               | SAW MILL | Rakesh Vedi Saw Mill Nirmamd | Arsoo  | Nirmond | Nirmond          | Sh. Rakesh Vedi       | Nirmand   | 20-06-1976 | 31-12-2018 |
| 25 | 8045-46/R                | SAW MILL | Ajeet Saw Mill               | Arsoo  | Nirmond | Nirmond          | Ajeet Singh           | Averi     | 06-03-1969 | 31-12-2020 |
| 26 | 310-11/G                 | SAW MILL | Gopal Saw Mill               | Arsoo  | Nirmond | Pujarli          | Gopal Dass            | Shalidwar | 16-12-2015 | 31-12-2016 |
| 27 | 2209-12                  | SAW MILL | Shukla Saw Mill              | Arsoo  | Nirmond | Pujarli          | Chandra Devi          |           | 09-06-1992 | 31-12-2000 |
| 28 | 13/R                     | SAW MILL | Ramin Saw Mill               | Nither | Nither  | Nither           | Ramin Singh           | Chebri    | 04-04-1970 | 31-12-2018 |
| 29 | 3018-19                  | SAW MILL | Santosh Saw Mill             | Nither | Nither  | Sarahar          | Santosh Kumar         | Gaura     | 26-09-2001 | 31-12-2007 |
| 30 | 4.5/G                    | SAW MILL | Indry Saw Mill               | Nither | Nither  | Ghorla           | Gain Chand            | Shani     | 01-04-1977 | 31-12-2013 |
| 31 | 3221/74                  | SAW MILL | Shiv Kumar Saw Mill          | Nither | Nither  | Nither           | Shiv Kumar            | Nither    | 18-02-1974 | 31-12-2022 |
| 32 | 1/88-89 dated 23.04.1988 | SAW MILL | Bhikham Ram Saw Mill         | Nither | Nither  | Sarahar          | Bhikham Ram           | Bashla    | 23-04-1988 | 31-12-2013 |
| 33 | 4232-33/R                | SAW MILL | Kalu Ram Saw Mill            | Nither | Nither  | Sarahar          | Kalu Ram              | Panvi     | 31-10-1974 | 31-12-2013 |
| 34 | 1/99-2000                | SAW MILL | Kuiran Saw Mill Shakelar     | Chowai | Paneo   | Peog at Binan    | Tek Chand             | Khakelar  | 05-06-1999 | 31-12-2020 |
| 35 | 2215-16                  | SAW MILL | Krishna Saw Mill             | Chowai | Paneo   | Peog at Binan    | Krishna               | Peog      | 04-07-1975 | 31-12-2020 |
| 36 | 5/86-87                  | SAW MILL | Hanu Saw Mill Binan          | Chowai | Paneo   | Peog at Binan    | Sh. Hansu Saw Mill    | Binan     | 03-05-1978 | 31-12-2015 |

|    |             |          |                                |        |         |               |                   |              |            |            |
|----|-------------|----------|--------------------------------|--------|---------|---------------|-------------------|--------------|------------|------------|
| 37 | 504-6/R     | SAW MILL | Jai Durga Saww Mill            | Chowai | Paneo   | Peog at Binan | Jiwat Ram         | Peog         | 07-08-1975 | 31-12-2015 |
| 38 | 14-1/69SF   | SAW MILL | Bhim Chand Saw Mill            | Chowai | Paneo   | Peog at Binan | Bhim Chand        | Shwad        | 21-10-1974 | 31-12-2020 |
| 39 | 253-54/G    | SAW MILL | Tabe Ram Saw Mill              | Chowai | Paneo   | Karana        | Tabe Ram Saw Mill | Karana       | 05-03-1978 | 31-12-2015 |
| 40 | 1/94-95     | SAW MILL | Bhoju Ram Saw Mill<br>Chamarla | Arsoo  | Sarahan | Jawagi        | Bhoju Ram         | Chamarla     | 12-01-1995 | 31-12-2015 |
| 41 | 1/86-87/KFD | SAW MILL | Bhadur Singh Saw Mill          | Chowai | Takrasi | Kunir         | Bhadur Singh      | Khaneul Nala | 05-08-1987 | 31-12-2006 |
| 42 | 849-50/R    | SAW MILL | Sangat Ram Saw Mill            | Chowai | Takrasi | Kunir         | Sangat Ram        | Shwad        | 02-06-1978 | 31-12-2020 |

**BIODIVERSITY ASSESSMENT, ANNI FOREST DIVISION, HIMACHAL PRADESH**



**Compiled by**

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## **Table of Contents**

### **Title**

#### **Background**

#### **Biodiversity assessment in sparsely wooded and thickly wooded forest compartments in Anni Forest Division**

### **I. FLORA (PLANT DIVERSITY)**

#### **1. Pteridophytes**

##### **A) Bajeer Baori, Forest Range Arsoo**

Table 1: Pteridophytes reported in Bajeer Baori compartment

##### **B) Chowai, Forest range Chowai**

Table 2: Pteridophytes reported in Chowai compartment

#### **2. Phytodiversity (Herbs, Shrubs, Climbers and Trees)**

##### **A) Bajeer Baori, Forest Range Arsoo**

Table 3: Herbs, Shrubs, Climbers and Trees reported in Bajeer Baori compartment

##### **B) Chowai, Forest range Chowai**

Table 4: Herbs, Shrubs, Climbers and tress reported in Chowai compartment

#### **3. Medicinal Plants**

Table 5: Medicinal Plants reported from Anni Forest Division

### **II. FAUNA (ANIMAL DIVERSITY)**

#### **1. Damsel and Dragonflies (INsecta: Odonata)**

##### **A) Bajeer Baori, Forest Range Arsoo**

Table 6: Damsel and Dragonflies reported in Bajeer Baori compartment

#### **2. Butterflies (Insecta: Lapidoptera: Rhopalocera)**

##### **A) Bajeer Baori, Forest Range Arsoo**

Table 7: Butterflies reported in Bajeer Baori compartment

##### **B) Chowai, Forest range Chowai**

Table 8: Butterflies reported in Chowai compartment

#### **3. Fish (Pisces)**

##### **A) Bajeer Baori, Forest Range Arsoo**

Table 9: Fish species reported in Bajeer Baori compartment

#### **4. Frogs and Toads (Amphibia)**

##### **A) Bajeer Baori, Forest Range Arsoo**

Table 10: Frogs and Toads reported in Bajeer Baori compartment

B) Chowai, Forest range Chowai

Table 11: Frogs reported in Chowai compartment

#### **5. Lizards and Snakes (Reptiles)**

A) Bajeer Baori, Forest Range Arsoo

Table 12: Lizards and snakes reported in Bajeer Baori compartment

B) Chowai, Forest range Chowai

Table 13: Lizards and snakes reported in Chowai compartment

#### **6. Birds (Aves)**

A) Bajeer Baori, Forest Range Arsoo

Table 14: Birds reported in Bajeer Baori compartment

B) Chowai, Forest range Chowai

Table 15: Birds reported in Chowai compartment

#### **7. Mammals (Mammalia)**

A) Bajeer Baori, Forest Range Arsoo

Table 16: Mammals reported in Bajeer Baori compartment

B) Chowai, Forest range Chowai

Table 17: Mammals reported in Chowai compartment

#### **Sources of Information**

## **Background**

Himalayas are the most magnificent complex folded and youngest mountain systems in the world and forms a physical barrier between the high plateaus of Tibet and Central Asia, and the Indian plains. They are about 2500 km long, extending from river Indus in the west to the river Brahmaputra in the east. Its locations and great expansion in latitude and altitude offers a wide variety of habitats each supporting its own distinctive type of fauna (Mehta & Julka, 2002).

Himachal Pradesh is mainly a hilly state lying between 30° 22' to 33°12' North latitude and 75° 47' to 79° 04' East longitude in the lap of the northwest Himalayas. The physiography of Himachal Pradesh is almost mountainous with elevations ranging from 350 to 6500 metres above mean sea level and total area of the state is 55,673 sq km. Its northern border is bounded by Tibet, whereas, in the northwest, it has a common border with Kashmir and the eastern border of the state is common with the hills of Uttarakhand. Average rainfall in the state stands at 1523 mm, although it varies from the minimum of 300 mm at Lahaul and Spiti to a maximum of 4400 mm at Dharamsala. The temperature in the state varies according to elevation. From the end of February, mercury rises gradually till June, which is generally the hottest month in this region. With the onset of monsoons, there is a gradual fall in temperature. When the monsoon ends by middle of September, temperature falls gradually at first and fairly rapidly after November (Mani, 1981; Chauhan, 1998).

Himachal Pradesh is divided by general increase in elevation from west to east and from south to north into following four biogeographical regions viz., Shiwalik or Outer Himalayas, Lower or Lesser Himalayas, Higher or Greater Himalayas, and Trans Himalayas. The Shiwalik ranges are the southern most zone of about 40 to 60 km width, comprising several highly eroded low ridges. A zone of medium to high ranges (about 80 km wide) the Lesser Himalaya runs north of the Shiwalik and parallel to the main range. The Great Himalayan ranges lie just north of the Chandrabhaga river in Lahaul-Spiti and Pangi region of Himachal Pradesh. This range is nearly 24 km wide and comprises the

Great peaks rising up to an elevation of over 6000 m amsl. Varied physiographic and climatic factors have given rise to diverse natural ecosystems/habitats, namely, forests, grasslands and pastures, river, lake and wetlands, glaciers etc. in this region (Mehta & Julka, 2002).

## BIODIVERSITY ASSESSMENT IN SPARSELY WOODED AND THICKLY WOODED FOREST COMPARTMENTS IN ANNI FOREST DIVISION

### I. FLORA (PLANT DIVERSITY)

The vegetation of the area mainly comprises of temperate, sub-alpine and alpine types. Temperate and sub-alpine forests are mainly dominated by broad leaved deciduous, evergreen and evergreen coniferous species, and alpine meadows are dominated by alpine scrubs and herbaceous species.

The temperate forests are characterized by two physiognomic types; (a) broad leaved deciduous forests characterized by *Aesculus indica*, *Persea duthiei* and *Juglans regia*; and (b) evergreen forests dominated by coniferous forests i.e., *Abies pindrow*, *Picea smithiana*, *Cedrus deodara* and *Pinus wallichiana*. Sub-alpine forests are characterized by deciduous i.e., *Acer acuminatum*, *Betula utilis* and *Prunus cornuta* and evergreen broad leaved and coniferous (*Quercus semecarpifolia*, *Abies pindrow* and *Taxus baccata* subsp. *wallichiana*) forests. Above sub-alpine forests, alpine vegetation is found, which is mainly dominated by alpine scrubs, herbs, sedges and grasses. In the valleys, the alpine vegetation starts from 3,200m amsl. The alpine vegetation is characterized by the alpine scrubs namely *Rhododendron campanulatum*, *R. anthopogon*, *R. lepidotum*, *Salix denticulata*, *Berberis jaeschkeana*, *Rosa sericea*, *R. webbiana*, etc. The alpine meadows are dominated by the herbaceous species of *Carex*, *Allium*, *Anaphalis*, *Aconitum*, *Pleurospermum*, *Primula*, *Anemone*, *Potentilla*, *Polygonum*, *Poa*, *Delphinium*, *Impatiens*, *Saxifraga*, *Saussurea*, *Selinum*, *Osmunda*, *Athyrium*, *Dryopteris*, *Polystichum*, *Geranium*, *Caltha*, *Geum*, etc.

#### 1. Pteridophytes

### A) Bajeer Baori, Forest Range Arsoo

27 species of different pteridophytes belonging to 10 different families were reported in the Bajeer Baori, Forest Range Arsoo of Anni Forest Division presented at Table. 1.

**Table 1: Pteridophytes (Ferns and fern allies) reported in Bajeer Baori compartment**

| S.N.                   | Taxa                                                       | Distribution                          |
|------------------------|------------------------------------------------------------|---------------------------------------|
| <b>Adiantaceae</b>     |                                                            |                                       |
| 1.                     | <i>Adiantum edgeworthii</i> Hk.                            | China Ind                             |
| 2.                     | <i>A. lunulatum</i> Burm,                                  | Afr As Austr Polyn Trop Amer Centr    |
| 3.                     | <i>A. venustum</i> D. Don                                  | Afghan Ind Bor                        |
| <b>Aspleniaceae</b>    |                                                            |                                       |
| 4.                     | <i>Asplenium dalhousiae</i> Hk.                            | Afghan Ind Kash Nepal Pakistan Afr    |
| 5.                     | <i>A. varians</i> Wall. ex Hk.                             | Japon China Ceyl Afr Austr Ins Hawaii |
| <b>Athyriaceae</b>     |                                                            |                                       |
| 6.                     | <i>Athyrium anisopterum</i> Christ.                        | As Merid                              |
| 7.                     | <i>Diplazium esculentum</i> (Retz.) Sw.                    | As Temp As Trop                       |
| 8.                     | <i>Lunathyrium allantodioides</i><br>(Bedd.) Ching         | As                                    |
| <b>Dryopteridaceae</b> |                                                            |                                       |
| 9.                     | <i>Cyrtomium caryotideum</i> (Wall. ex Hk. & Grev.) Presl. | Ind As                                |
| 10.                    | <i>Dryopteris cochleata</i> (D.Don) C.Chr.                 | Ind Bor et Austr                      |
| 11.                    | <i>Polystichum nepalense</i> (Spreng.) C.Chr.              | Ind Bor As                            |
| 12.                    | <i>P. piceopaleaceum</i> Tag.                              | Yun Afghan Ind Japon Kash             |
| 13.                    | <i>P. squarrosum</i> (D. Don) Fee                          | Ind As                                |
| <b>Equisetaceae</b>    |                                                            |                                       |
| 14.                    | <i>Equisetum arvense</i> L.                                | Arct Temp Europ North Amer As         |
| 15.                    | <i>E. diffusum</i> L.                                      | Yunn Ind Japon Kash As                |
| <b>Hemionitidaceae</b> |                                                            |                                       |
| 16.                    | <i>Coniogramme fraxinea</i> (Don) Diels                    | Ind Bor Malaysia Ins Philipp          |



|                         |                                                        |                                  |
|-------------------------|--------------------------------------------------------|----------------------------------|
| 17.                     | <i>Gymnopteris vestita</i> (Wall. ex Moore)<br>Underw. | China Ind Bor                    |
| <b>Polypodiaceae</b>    |                                                        |                                  |
| 18.                     | <i>Polypodium polypodioides</i> L. Watt.               | Mex                              |
| 19.                     | <i>Polypodiastrium argutum</i> (Wall. ex Hk.)          | Yun As                           |
| <b>Pteridaceae</b>      |                                                        |                                  |
| 20.                     | <i>Pteris cretica</i> L.                               | Trop Subtrop                     |
| 21.                     | <i>P. biaurita</i> L.                                  | As Ind Subcont As Trop           |
| 22.                     | <i>P. wallichiana</i> Ag.                              | Ind Bor Java Celebes Ins Philipp |
| 23.                     | <i>Pteridium aquilinum</i> (L.) Kuhn.                  | Afr As Trop As Temp Europ N Amer |
| <b>Selaginaceae</b>     |                                                        |                                  |
| 24.                     | <i>Selaginella chrysoleuca</i> Spring                  | Peru                             |
| <b>Thelypteridaceae</b> |                                                        |                                  |
| 25.                     | <i>Phegopteris punctata</i> (Thunb.) Bedd.             | Hawaii                           |
| 26.                     | <i>Pseudophegopteris distans</i> (D. Don) Mett.        | As Ind China                     |
| 27.                     | <i>Stegnogramma mollissima</i> (Kunze) Fras.-<br>Jenk. | Ind Ceyl Japon Kor               |

**Abbreviations Used:** **Europ**=Europe; **Occ**= Occidentalis; **Austr**=Australia; **As**=Asia; **Afr**=Africa; **et**=And; **Temp**=Temperate; **Abys**=Abyssinia; **Arct**=Arctica; **Amer**=America; **Afghan**=Afganistan; **Atlant**= Atlantica; **Bor**=Boreal; **Centr**=Central; **Ceyl**=Ceylon; **Himal**=Himalayan; **Ins**=Insular; **Ind**=Indian; **Japon**=Japan; **Kash**=Kashmir; **Kor**=Korea; **Mex**=Mexico; **Merid**=Meridian; **Philipp**= Philippines; **Polyn**=Polynesia; **Subcont**=Subcontinental; **Subtrop**=Subtropical; **Trop**=Tropical; **Yun**=Yunnan.

## B) Chowai, Forest range Chowai

47 species of different pteridophytes belonging to 14 different families were reported in the Chowai, Forest range Chowai of Anni Forest Divison presented at Table. 2.

**Table 2: Pteridophytes reported in Chowai compartment**

| S.N. | Taxa | Distribution |
|------|------|--------------|
|------|------|--------------|

|     |                                                            |                                       |
|-----|------------------------------------------------------------|---------------------------------------|
|     | <b>Adiantaceae</b>                                         |                                       |
| 1.  | <i>Adiantum capillus-veneris</i> L.                        | Europ Occ et Austr Afr As Temp Himal  |
| 2.  | <i>Adiantum. edgeworthii</i> Hk.                           | China Ind                             |
| 3.  | <i>A. venustum</i> D. Don                                  | Afghan Ind Bor                        |
|     | <b>Aspleniaceae</b>                                        |                                       |
| 4.  | <i>Asplenium dalhousiae</i> Hk.                            | Afghan Ind Kash Nepal Pakistan Afr    |
| 5.  | <i>A. varians</i> Wall. ex Hk.                             | Japon China Ceyl Afr Austr Ins Hawaii |
|     | <b>Athyriaceae</b>                                         |                                       |
| 6.  | <i>Athyrium anisopterum</i> Christ.                        | As Merid                              |
| 7.  | <i>A. atkinsonii</i> Bedd.                                 | Himal                                 |
| 8.  | <i>A. attenuatum</i> (Wall. ex Cl.) Tagawa                 | Kash China                            |
| 9.  | <i>Diplazium esculentum</i> (Retz.) Sw.                    | As Temp As Trop                       |
| 10. | <i>D. spectabile</i> (Wall. ex Mett.) Ching                | Yunn Ind Nepal                        |
| 11. | <i>Lunathyrium allantodioides</i><br>(Bedd.) Ching         | As                                    |
|     | <b>Cryptogrammaceae</b>                                    |                                       |
| 12. | <i>Onychium contiguum</i> Wall. ex Hope                    | As                                    |
| 13. | <i>O. fragile</i> Verma et Khullar                         | Himal                                 |
|     | <b>Dryopteridaceae</b>                                     |                                       |
| 14. | <i>Cyrtomium caryotideum</i> (Wall. ex Hk. & Grev.) Presl. | Ind As                                |
| 15. | <i>Dryopteris cochleata</i> (D.Don) C.Chr.                 | Ind Bor et Austr                      |
| 16. | <i>D. juxtaopposita</i> Christ.                            | Yunn                                  |
| 17. | <i>D. panda</i> (Cl.) Christ.                              | Ind Bor As Austr et Occ               |
| 18. | <i>Polystichum nepalense</i> (Spreng.) C.Chr.              | Ind Bor As                            |
| 19. | <i>P. piceopaleaceum</i> Tag.                              | Yun Afghan Ind Japon Kash             |
|     | <b>Equisetaceae</b>                                        |                                       |
| 20. | <i>Equisetum arvense</i> L.                                | Arct Temp Europ North Amer As         |
| 21. | <i>E. diffusum</i> L.                                      | Yunn Ind Japon Kash As                |
|     | <b>Hemionitidaceae</b>                                     |                                       |
| 22. | <i>Coniogramme fraxinea</i> (Don) Diels                    | Ind Bor Malaysia Ins Philipp          |

|     |                                                       |                                                 |
|-----|-------------------------------------------------------|-------------------------------------------------|
| 23. | <i>C. intermedia</i> Hieron. var. <i>glabra</i> Ching | Ind Bor As Japon                                |
| 24. | <i>Gymnopteris vestita</i> (Wall. ex Moore) Underw.   | China Ind Bor                                   |
|     | <b>Ophioglossaceae</b>                                |                                                 |
| 25. | <i>Ophioglossum petiolatum</i> Hk.                    | As Amer                                         |
|     | <b>Osmundaceae</b>                                    |                                                 |
| 26. | <i>Osmunda claytoniana</i> L.                         | Amer Bor Atlant Himal As                        |
|     | <b>Polypodiaceae</b>                                  |                                                 |
| 27. | <i>Drynaria mollis</i> Beddome                        | Himal As Merid                                  |
| 28. | <i>Lepisorus nudus</i> (Hk.) Ching                    | As Yun                                          |
| 29. | <i>Phymatopteris malacodon</i> (Hk.) P. Serm.         | Himal As Merid                                  |
| 30. | <i>Polypodium polypodioides</i> L. Watt.              | Mex                                             |
| 31. | <i>Polypodiastrum argutum</i> (Wall. ex Hk.)          | Yun As                                          |
| 32. | <i>Polypodiodes amoena</i> (Wall. ex Mett.)           | Ind Bor As                                      |
| 33. | <i>P. microrrhizoma</i> (Cl. ex Baker) Ching          | Himal Yun                                       |
| 34. | <i>P. subamoena</i> (Cl.) Ching                       | As Merid Himal                                  |
|     | <b>Pteridaceae</b>                                    |                                                 |
| 35. | <i>Pteris cretica</i> L.                              | Trop Subtrop                                    |
| 36. | <i>P. biaurita</i> L.                                 | As Ind Subcont As Trop                          |
| 37. | <i>P. vittata</i> L.                                  | Afr As Europ Trop et Subtrop Austr Polynes Trop |
| 38. | <i>P. wallichiana</i> Ag.                             | Ind Bor Java Celebes Ins Philipp                |
| 39. | <i>Pteridium aquilinum</i> (L.) Kuhn.                 | Afr As Trop As Temp Europ N Amer                |
|     | <b>Selaginaceae</b>                                   |                                                 |
| 40. | <i>Selaginella chrysoleuca</i> Spring                 | Peru                                            |
|     | <b>Sinopteridaceae</b>                                |                                                 |
| 41. | <i>Cheilanthes albomarginata</i> Cl.                  | Himal Ind Austr                                 |
| 42. | <i>C. dalhousiae</i> Hk.                              | As Ind                                          |
| 43. | <i>C. subvillosa</i> Hk.                              | Himal                                           |
|     | <b>Thelypteridaceae</b>                               |                                                 |

|     |                                                    |                     |
|-----|----------------------------------------------------|---------------------|
| 44. | <i>Phegopteris punctata</i> (Thunb.) Bedd.         | Hawaii              |
| 45. | <i>Pseudophegopteris distans</i> (D. Don) Mett.    | As Ind China        |
| 46. | <i>Stegnogramma mollissima</i> (Kunze) Fras.-Jenk. | Ind Ceyl Jappon Kor |
| 47. | <i>Thelypteris palustris</i> (Salisb.) Schott.     | Canada              |

**Abbreviations Used:** **Europ**=Europe; **Occ**= Occidentalis; **Austr**=Australia; **As**=Asia; **Afr**=Africa; **et**=And; **Temp**=Temperate; **Abys**=Abyssinia; **Arct**=Arctica; **Amer**=America; **Afghan**=Afganistan; **Atlant**= Atlantica; **Bor**=Boreal; **Centr**=Central; **Ceyl**=Ceylon; **Himal**=Himalayan; **Ins**=Insular; **Ind**=Indian; **Japon**=Japan; **Kash**=Kashmir; **Kor**=Korea; **Mex**=Mexico; **Merid**=Meridian; **Philipp**= Philippines; **Polyn**=Polynesia; **Subcont**=Subcontinental; **Subtrop**=Subtropical; **Trop**=Tropical; **Yun**=Yunnan.

Phytodiversity (Herbs, Shrubs, Climbers and Trees)

Vegetation is a general term for the plant life of a region, locality, state, country, globe or ground cover provided by plants. It is the most abundant and critical element of the biosphere. The vegetation has direct relationships with the soil and water conservation. The areas rich in vegetation have nutrient rich soil and perennial streams, whereas the areas with poor vegetation have usually nutrient poor soil and dry streams. Therefore, vegetation plays an important role in maintaining the environmental balance (Sing & Singh, 1992; Samant *et al.*, 2002a). Majority of species are utilized by the inhabitants in one way or the other for their sustenance (Samant *et al.*, 1998b). The gradual increase in human population and decrease in natural resources particularly biodiversity elements have caused imbalance in the ecosystems. The overexploitation of the economically important elements of the floristic diversity has caused habitat degradation leading to loss of a large number of species (Samant *et al.*, 1998a). The anthropogenic activities such as overexploitation of biological resources, industrialization, construction of roads and hydropower projects, etc. are not only responsible for the rapid loss of floristic diversity, but also for the changing pattern of floristic diversity and global climate change. Due to high anthropogenic pressures, the population of many species have decreased to a great extent. From the IHR, 121 species of the vascular plants have been listed in the Red Data

Book of India plants (Nayar & Sastry, 1987, 88, 90) and about 120 species of medicinal plants have been categorised under different threat categories of IUCN (Samant & Pal, 2003; Ved *et al.*, 2003). This rapid loss in floristic diversity and changing pattern of vegetation due to various biotic and abiotic factors have necessitated the qualitative and quantitative assessment of vegetation in the Indian Himalayan Region (IHR). Rapid climate change is also affecting wide variety of the organisms (Edwards & Richardson, 2004; Thuiller *et al.*, 2005).

#### A) Bajeer Baori, Forest Range Arsoo

Total 118 species of vascular plants belonging to 56 families were reported from Bajeer Baori, Forest Range Arsoo area. Of the total species, 18 species were trees, 22 shrubs and 78 herbs (Table 3). Twenty eight (04) species were identified as Critically Endangered, 02 species as Endangered; 09 species as Vulnerable and 10 species as Near Threatened and the remaining species were under the Least Concern category.

**Table 3: Herbs, shrubs, climbers and trees reported in Bajeer Baori compartment**

| S.N. | Taxa                          | Local Name    | LF | Nativity                    | Status |
|------|-------------------------------|---------------|----|-----------------------------|--------|
|      | <b>Achyranthaceae</b>         |               |    |                             |        |
| 1.   | <i>Achyranthes aspera</i> L.  | Puthkanda     | H  | Geront Trop                 | Co     |
| 2.   | <i>A. bidentata</i> Bl.       | Puthkanda     | H  | As Trop                     | Co     |
|      | <b>Amaranthaceae</b>          |               |    |                             |        |
| 3.   | <i>Amaranthus hybridus</i> L. | Sariyara      | H  | Am Bor                      | NT     |
| 4.   | <i>A. viridis</i> L.          | Sariyara      | H  | Reg Trop                    | NT     |
| 5.   | <i>Cyathula capitata</i> Moq. | Litra         | H  | Reg Himal                   | Co     |
| 6.   | <i>C. tomentosa</i> Roth.     | Litra         | H  | Reg Himal                   | Co     |
|      | <b>Anacardiaceae</b>          |               |    |                             |        |
| 7.   | <i>Rhus javanica</i> L.       | Halash, Titri | T  | Reg Himal China Ins Sandvic | NT     |

|     |                                            |             |    |                            |    |
|-----|--------------------------------------------|-------------|----|----------------------------|----|
| 8.  | <i>Pistacia integerrima</i> Stew.          | Kakarsingi  | T  | Reg Himal Egypt<br>Persia  | VU |
|     | <b>Apiaceae</b>                            |             |    |                            |    |
| 9.  | <i>Cortia depressa</i> (Don)<br>Norm.      | -           | H  | Reg Himal                  | Co |
| 10. | <i>Heracleum candicans</i> Wall.<br>ex DC. | Padiyala    | H  | Reg Himal                  | CR |
| 11. | <i>Selinum tenuifolium</i> Wall.           | Matoshal    | H  | Reg Himal                  | NT |
|     | <b>Araceae</b>                             |             |    |                            |    |
| 12. | <i>Arisaema flavum</i> (Forsk.)<br>Schott  | Kira aloo   | H  | Arabia                     | Co |
| 13. | <i>A. intermedium</i> Bl.                  | Kira aloo   | H  | Reg Himal                  | Co |
|     | <b>Araliaceae</b>                          |             |    |                            |    |
| 14. | <i>Aralia cachemirica</i> Decne            | Bail chaura | H  | Reg Himal                  | Oc |
| 15. | <i>Hedera nepalensis</i> Koch.             | Katari      | H  | Europ Afr Bor As<br>Temp   | Co |
|     | <b>Asclepiadaceae</b>                      |             |    |                            |    |
| 16. | <i>Vincitoxicum hirudinaria</i><br>Medik.  | -           | H  | Europ Reg Cauc             | NT |
| 17. | <i>Marsdenia roylei</i> Wt.                | -           | H  | Reg Himal                  | VU |
|     | <b>Asparagaceae</b>                        |             |    |                            |    |
| 18. | <i>Asparagus filicinus</i> Buch.-<br>Ham.  | Shatavari   | Sh | Reg Himal Burma            | Co |
|     | <b>Asteraceae</b>                          |             |    |                            |    |
| 19. | <i>Achillea millefolium</i> L.             | Gandan      | H  | Europe Oriens              | Co |
| 20. | <i>Ainsliaea aptera</i> DC.                | Sath jalari | H  | Reg Himal                  | Co |
| 21. | <i>Artemisia maritima</i> L.               | -           | H  | Europ Reg. Caucas<br>Sibir | Oc |
| 22. | <i>Bidens pilosa</i> L.                    | -           | H  | Reg Trop                   | Co |

|     |                                                  |          |    |                        |    |
|-----|--------------------------------------------------|----------|----|------------------------|----|
| 23. | <i>Solidago virga-aurea</i> L.                   | -        | H  | Reg Bor Temp           | Co |
| 24. | <i>Sonchus oleraceus</i> L.                      | -        | H  | Cosmop                 | Co |
| 25. | <i>Tagetes minuta</i> L.                         | -        | H  | Am Trop                | Co |
| 26. | <i>T. patula</i> L.                              | -        | H  | Mexico                 | Oc |
| 27. | <i>Tanacetum dolichophyllum</i> Kitam.           | Guggulu  | H  | Reg Himal              | Co |
| 28. | <i>Taraxacum officinale</i> Weber                | Kanphul  | H  | Reg Temp Bor et Austr  | Co |
|     | <b>Balsaminaceae</b>                             |          |    |                        |    |
| 29. | <i>Impatiens racemosa</i> DC.                    | Gadama   | H  | Reg Himal              | Co |
|     | <b>Berberidaceae</b>                             |          |    |                        |    |
| 30. | <i>Berberis lycium</i> Royle                     | Kshambal | Sh | Reg Himal              | EN |
| 31. | <i>B. aristata</i> DC.                           | Kshambal | Sh | Ind or                 | Co |
|     | <b>Boraginaceae</b>                              |          |    |                        |    |
| 32. | <i>Cynoglossum glochidiatum</i> Wall. ex Benth.  | -        | H  | Ind Or Burma           | Co |
|     | <b>Brassicaceae</b>                              |          |    |                        |    |
| 33. | <i>Arabidopsis mollissima</i> (C. A. Mey.) Busch | -        | H  | Reg Himal Sibir        | Oc |
| 34. | <i>Thlaspi arvense</i> L.                        | -        | H  | Europ As Bor           | Co |
|     | <b>Cannabaceae</b>                               |          |    |                        |    |
| 35. | <i>Cannabis sativa</i> L.                        | Bhang    | H  | As Centr Himal Bor Occ | Co |
|     | <b>Caryophyllaceae</b>                           |          |    |                        |    |
| 36. | <i>Cerastium cerastioides</i> (L.) Britt.        | -        | H  | Reg Himal              | Co |
| 37. | <i>Gypsophila cerastioides</i> D. Don            | -        | H  | Reg Himal              | Co |

|     |                                                  |           |    |                       |    |
|-----|--------------------------------------------------|-----------|----|-----------------------|----|
| 38. | <i>Silene conoidea</i> L.                        | -         | H  | Europe Oriens         | Co |
|     | <b>Celasteraceae</b>                             |           |    |                       |    |
| 39. | <i>Euonymus echinatus</i> Wall.                  | -         | Sh | Reg Himal             | R  |
| 40. | <i>E. tingens</i> Wall.                          | -         | T  | Reg Himal             | R  |
|     | <b>Chenopodiaceae</b>                            |           |    |                       |    |
| 41. | <i>Chenopodium album</i> L.                      | Bithu     | H  | Reg Temp et Trop      | Co |
| 42. | <i>C. botrys</i> L.                              | Sokana    | H  | Reg Bor               | Co |
|     | <b>Commelinaceae</b>                             |           |    |                       |    |
| 43. | <i>Cyanotis vaga</i> (Lour.) J.A. & J.H. Schult. | Khura     | H  | Java                  | Co |
|     | <b>Convolvulaceae</b>                            |           |    |                       |    |
| 44. | <i>Convolvulus arvensis</i> L.                   | -         | H  | Geront temp           | Co |
| 45. | <i>Ipomoea purpurea</i> (L.) Roth.               | -         | H  | Am Calid              | Co |
|     | <b>Coriariaceae</b>                              |           |    |                       |    |
| 46. | <i>Coriaria nepalensis</i> Wall.                 | Chharouda | Sh | Reg Himal             | VU |
|     | <b>Cucurbitaceae</b>                             |           |    |                       |    |
| 47. | <i>Herpetospermum pedunculatum</i> (Serin.) Cl.  | -         | H  | Reg Himal             | VU |
| 48. | <i>Melothria heterophylla</i> (Lour.) Cogn.      | Balakakri | H  | As Trop               | Oc |
|     | <b>Cuscutaceae</b>                               |           |    |                       |    |
| 49. | <i>Cuscuta reflexa</i> Roxb.                     | Amar bel  | H  | Ind. Or               | Oc |
|     | <b>Cyperaceae</b>                                |           |    |                       |    |
| 50. | <i>Carex breviculmis</i> R. Br.                  | Krash     | H  | Reg Himal Japan Austr | NT |
| 51. | <i>Cyperus alulatus</i> Kern                     | -         | H  | Ind Or                | Co |
|     | <b>Dioscoreaceae</b>                             |           |    |                       |    |



|     |                                                  |                |    |                  |    |
|-----|--------------------------------------------------|----------------|----|------------------|----|
| 52. | <i>Dioscorea deltoidea</i> Wall.<br>ex Kunth     | Shingli-mingli | H  | Ind Or           | EN |
|     | <b>Ericaceae</b>                                 |                |    |                  |    |
| 53. | <i>Cassiope fastigiata</i> Wall.                 | -              | Sh | Reg Himal        | VU |
| 54. | <i>Gaultheria trichophylla</i><br>Royle          | -              | H  | Reg Himal        | Co |
| 55. | <i>Lyonia ovalifolia</i> (Wall.)<br>Drude        | Bheral         | T  | China            | Oc |
|     | <b>Euphorbiaceae</b>                             |                |    |                  |    |
| 56. | <i>Euphorbia hirta</i> L.                        | Dhudhi         | H  | Amphig Trop      | Co |
|     | <b>Fabaceae</b>                                  |                |    |                  |    |
| 57. | <i>Desmodium elegans</i> DC.                     | Kathi          | Sh | Reg Himal China  | Co |
| 58. | <i>Indigofera heterantha</i> Wall.<br>ex Brandis | Kali Kathi     | Sh | Reg Himal        | Co |
| 59. | <i>Oxytropis cachemiriana</i><br>Camb.           | -              | H  | Reg Himal        | NT |
| 60. | <i>Piptanthus nepalensis</i> (Hk.)<br>D.Don      | -              | Sh | Reg Himal        | Oc |
| 61. | <i>Robinia pseudo-acacia</i> L.                  | Kinkar         | T  | Am Bor           | Oc |
| 62. | <i>Trifolium pratense</i> L.                     | Malori         | H  | Europ As Temp    | Co |
| 63. | <i>T. repens</i> L.                              | Malori         | H  | Geront Bor Temp  | Co |
| 64. | <i>Trigonella emodi</i> Benth.                   | Mithugha       | H  | Reg Himal        | Oc |
|     | <b>Geraniaceae</b>                               |                |    |                  |    |
| 65. | <i>Geranium nepalense</i> Sw..                   | -              | H  | Europ As Bor     | Co |
|     | <b>Hypericaceae</b>                              |                |    |                  |    |
| 66. | <i>Hypericum perforatum</i> L.                   | Basanti        | H  | Reg Himal Burma  | Oc |
|     | <b>Juglandaceae</b>                              |                |    |                  |    |
| 67. | <i>Juglans regia</i> L.                          | Akhrot         | T  | As Occ Reg Himal | NT |

|     |                                        |              |    |                      |    |
|-----|----------------------------------------|--------------|----|----------------------|----|
|     |                                        |              |    |                      |    |
|     | <b>Juncaceae</b>                       |              |    |                      |    |
| 68. | <i>Juncus articulatus</i> L.           | -            | H  | Europ Austr          | Oc |
| 69. | <i>Ajuga bracteosa</i> Benth.          | Neelkanthi   | H  | Afr Trop Ind Or As C | Co |
| 70. | <i>Mentha longifolia</i> L.            | Pudina       | H  | Reg Bor Temp         | Co |
|     | <b>Linaceae</b>                        |              |    |                      |    |
| 71. | <i>Reinwardtia indica</i> Dum.         | Piyan        | H  | Ind Or               | Co |
|     | <b>Loganiaceae</b>                     |              |    |                      |    |
| 72. | <i>Buddleja crispa</i> Benth.          | Sfed saryahu | Sh | Reg. Himal Burma     | Co |
|     | <b>Loranthaceae</b>                    |              |    |                      |    |
| 73. | <i>Viscum album</i> L.                 | Rinn         | Sh | Europe As Temp       | Oc |
|     | <b>Malvaceae</b>                       |              |    |                      |    |
| 74. | <i>Malva sylvestris</i> L.             | Sonchal      | H  | Europ As Temp        | Oc |
|     | <b>Meliaceae</b>                       |              |    |                      |    |
| 75. | <i>Toona ciliata</i> M. Roem.          | Daral        | T  | Malaya Austr         | R  |
| 76. | <i>T. serrata</i> (Royle) M. Roem.     | Daral        | T  | Malaya Austr         | NT |
|     | <b>Moraceae</b>                        |              |    |                      |    |
| 77. | <i>Ficus palmata</i> Forsk.            | Fagda        | T  | Afr Trop Arab Ind O  | Oc |
| 78. | <i>Morus serrata</i> Roxb.             | Cheemu       | T  | Reg Himal            | CR |
|     | <b>Oleaceae</b>                        |              |    |                      |    |
| 79. | <i>Jasminum officinale</i> L.          | Juhi         | Sh | As Trop              | Oc |
|     | <b>Orobanchaceae</b>                   |              |    |                      |    |
| 80. | <i>Orobanche alba</i> Steph. ex Willd. | -            | H  | Europ Or As Bor      | Oc |
|     | <b>Oxalidaceae</b>                     |              |    |                      |    |
| 81. | <i>Oxalis acetosella</i> L.            | Malori       | H  | Reg Bor Temp         | Oc |

|     |                                                   |            |    |                                    |    |
|-----|---------------------------------------------------|------------|----|------------------------------------|----|
|     | <b>Poaceae</b>                                    |            |    |                                    |    |
| 82. | <i>Saccharum spontaneum</i> L.                    | Philoo     | H  | Geront Trop                        | VU |
| 83. | <i>Sinarundinaria falcata</i> (Nees) Chao & Renv. | Nargal     | Sh | Reg Himal                          | CR |
|     | <b>Polygonaceae</b>                               |            |    |                                    |    |
| 84. | <i>Bistorta affinis</i> (D. Don) Greene           | Roti muhin | H  | Reg Himal                          | Co |
| 85. | <i>B. amplexicaulis</i> (D. Don)                  | Dori gha   | H  | Nepal Afghan India<br>Bhutan China | Co |
| 86. | <i>Fagopyrum dibotrys</i> (D. Don) Hara           | Ban Paphra | H  | Reg Himal China                    | Co |
| 87. | <i>F. esculentum</i> Moench                       | Phaphra    | H  | Europ As Bor                       | Co |
| 88. | <i>Oxyria digyna</i> (L.) Hill                    | Kailashi   | H  | Reg Bor Alp et Arct                | Co |
| 89. | <i>Polygonum hydropiper</i> L.                    | -          | H  | Reg Temp Bor et<br>Austr           | Co |
| 90. | <i>Rumex hastatus</i> D. Don                      | Aambi      | H  | Reg Himal                          | Co |
|     | <b>Punicaceae</b>                                 |            |    |                                    |    |
| 91. | <i>Punica granatum</i> L.                         | Daru       | T  | Europ Austr Mauri                  | Oc |
|     | <b>Ranunculaceae</b>                              |            |    |                                    |    |
| 92. | <i>Aquilegia pubiflora</i> Wall. ex Royle         | -          | H  | Ind Or                             | Co |
| 93. | <i>Clematis acuminata</i> DC.                     | Baldkuja   | Sh | Reg Himal                          | Co |
| 94. | <i>C. barbellata</i> Edgew.                       | Baldkuja   | Sh | Reg Himal                          | Co |
|     | <b>Rosaceae</b>                                   |            |    |                                    |    |
| 95. | <i>Fragaria nubicola</i> Lindl. ex Lacaita        | Bumbra     | H  | Reg Temp                           | Co |
| 96. | <i>Prinsepia utilis</i> Royle                     | Bhekhal    | Sh | Reg Himal                          | Co |
| 97. | <i>Prunus armeniaca</i> L.                        | Shada      | T  | Reg Caucas                         | Oc |

|      |                                          |                |    |                             |    |
|------|------------------------------------------|----------------|----|-----------------------------|----|
| 98.  | <i>Pyrus pashia</i> Buch.-Ham. ex D. Don | Shegal         | T  | Reg Himal                   | Co |
| 99.  | <i>Rosa macrophylla</i> Lindl.           | Kuja           | Sh | Reg Himal China             | VU |
| 100. | <i>R. moschata</i> Lindl.                | Kuja           | Sh | Oriens                      | Co |
| 101. | <i>Rubus ellipticus</i> Sm.              | Aachhe         | Sh | Reg Himal                   | Oc |
|      | <b>Rubiaceae</b>                         |                |    |                             |    |
| 102. | <i>Rubia cordifolia</i> L.               | -              | H  | As Trop et Temp Afr<br>Trop | Co |
|      | <b>Rutaceae</b>                          |                |    |                             |    |
| 103. | <i>Zanthoxylum armatum</i> DC.           | Timber         | Sh | Reg Himal China             | CR |
|      | <b>Salicaceae</b>                        |                |    |                             |    |
| 104. | <i>Populus ciliata</i> Wall.             | Popular        | T  | Reg Himal                   | VU |
| 105. | <i>Salix acutifolia</i> Willd.           | Beli           | T  | Europ As Bor                | Oc |
|      | <b>Scrophulariaceae</b>                  |                |    |                             |    |
| 106. | <i>Verbascum thapsus</i> L.              | Jangli tambakh | H  | Europ Oriens Reg<br>Himal   | Co |
|      | <b>Smilacaceae</b>                       |                |    |                             |    |
| 107. | <i>Smilax aspera</i> L.                  | -              | Sh | Europ Oriens Ind Or         | Co |
|      | <b>Solanaceae</b>                        |                |    |                             |    |
| 108. | <i>Datura stramonium</i> L.              | Datura         | H  | Trapazia                    | Oc |
| 109. | <i>Solanum nigrum</i> L.                 | Makoi          | H  | Ampliga                     | Co |
|      | <b>Ulmaceae</b>                          |                |    |                             |    |
| 110. | <i>Celtis australis</i> L.               | Kharik         | T  | Europ As Temp Ind<br>Or     | Oc |
| 111. | <i>Ulmus villosa</i> Brand. ex Gamble    | Chor           | T  | Europ As Bor                | Oc |
|      | <b>Urticaceae</b>                        |                |    |                             |    |

|      |                                                |           |    |                     |    |
|------|------------------------------------------------|-----------|----|---------------------|----|
| 112. | <i>Debregeasia longifolia</i> (Burm. f.) Wedd. | -         | Sh | Arabia              | Co |
| 113. | <i>Girardinia diversifolia</i> (Link.) Friis   | Jarahan   | H  | Ind Or Malaya       | Co |
| 114. | <i>Urtica dioica</i> L.                        | Aan       | H  | Reg Bor Temp        | Co |
|      | <b>Violaceae</b>                               |           |    |                     |    |
| 115. | <i>Viola biflora</i> L.                        | Banafsha  | H  | Reg Bor Temp        | Co |
| 116. | <i>V. canescens</i> Wall. ex Roxb.             | Banafsha  | H  | Ind Or Malaya China | Co |
|      | <b>Zingiberaceae</b>                           |           |    |                     |    |
| 117. | <i>Hedychium spicatum</i> Sm.                  | Ban haldi | H  | Reg Himal           | VU |
|      | <b>Pinaceae</b>                                |           |    |                     |    |
| 118. | <i>Pinus roxburghii</i> Sarg.                  | Chil      | T  | Reg Himal           | NT |

**Abbreviations Used:** **CR**=Critically Endangered; **En**=Endangered; **Vu**=Vulnerable; **LC**=Least Concern; **DD**=Data Deficient; **CPI**=Conservation Priority Index; **LF**=Life Form; **Fn**=Fern; **H**=Herb; **Sh**=Shrub; **T**=Tree; **Oc**=Occasional; **Co**=Common; **R**=Rare; **=**=Endemic; **=N**=Near endemic; **Afghan**=Afghanistan; **Afr**=Africa; **Alp**=Alpine; **Am**=America; **Amphig**=Amphigaea; **Arab**=Arabia; **Arct**=Arctic; **As**=Asia; **Austr**=Australia; **Bor**=Boreal; **Caucas**=Caucasus; **Centr**=Central; **Cosmop**=Cosmopolitan; **et**=And; **Geront**=Gerontia; **Himal**=Himalayan; **Ind**=Indian; **Mongol**=Mongolia; **Occ**=Occidetalis; **Or**=Oriental; **Orient**=Oriental; **Reg**=Region; **Subtrop**=Subtropical; **Temp**=Temperate; **Trop**=Tropical; **Polynes**=Polynesia; **Ins**=Insular; **min**=Minor.

## B) Chowai, Forest range Chowai

Total 273 species of vascular plants belonging to 85 families were reported from Chowai, Forest range Chowai area. Of the total species, 29 species were trees, 46 shrubs and 198 herbs (Table 4). Categorization of these species for the State and globally as Critically Endangered, Endangered, Vulnerable, etc. Twenty eight (13) species were identified as Critically Endangered, 08 species as Endangered; 18 species as Vulnerable

and 21 species as Near Threatened and the remaining species were under the Least Concern category.

**Table 4: Herbs, shrubs, climbres and trees reported in Chowai compartment**

| S.N. | Taxa                                       | Local Name    | LF | Nativity                          | Status |
|------|--------------------------------------------|---------------|----|-----------------------------------|--------|
|      | <b>Acanthaceae</b>                         |               |    |                                   |        |
| 1.   | <i>Aechmanthera gossypina</i> (Wall.) Nees | -             | Sh | Ind Or                            | R      |
| 2.   | <i>Barleria cristata</i> L.                | -             | H  | In Or Burma                       | Co     |
| 3.   | <i>Strobilanthes atropurpureus</i> Nees    | Dhurpa        | H  | Reg Himal                         | Co     |
|      | <b>Aceraceae</b>                           |               |    |                                   |        |
| 4.   | <i>Acer acuminatum</i> Wall. ex D.Don      | Mandru        | T  | Reg Himal                         | Co     |
|      |                                            |               |    |                                   |        |
|      | <b>Achyranthaceae</b>                      |               |    |                                   |        |
| 5.   | <i>Achyranthes aspera</i> L.               | Puthkanda     | H  | Geront Trop                       | Co     |
|      | <b>Alliaceae</b>                           |               |    |                                   |        |
| 6.   | <i>Allium humile</i> Kunth.                | Farn          | H  | Ind Or                            | VU     |
|      | <b>Amaranthaceae</b>                       |               |    |                                   |        |
| 7.   | <i>Amaranthus hybridus</i> L.              | Sariyara      | H  | Am Bor                            | NT     |
| 8.   | <i>A. viridis</i> L.                       | Sariyara      | H  | Reg Trop                          | NT     |
| 9.   | <i>Cyathula capitata</i> Moq.              | Litra         | H  | Reg Himal                         | Co     |
| 10.  | <i>C. tomentosa</i> Roth.                  | Litra         | H  | Reg Himal                         | Co     |
|      | <b>Anacardiaceae</b>                       |               |    |                                   |        |
| 11.  | <i>Rhus javanica</i> L.                    | Halash, Titri | T  | Reg Himal<br>China Ins<br>Sandvic | NT     |
| 12.  | <i>Pistacia integerrima</i> Stew.          | Kakarsing     | T  | Reg Himal<br>Egypt Persia         | VU     |
|      | <b>Apiaceae</b>                            |               |    |                                   |        |
| 13.  | <i>Angelica glauca</i> Edgew.              | Chora         | H  | Reg Himal                         | CR     |
| 14.  | <i>Bupleurum aitchisonii</i> (Boiss.) Wol- |               | H  | Afghan Reg<br>Himal               | R      |

|     |                                                 |             |    |                            |    |
|-----|-------------------------------------------------|-------------|----|----------------------------|----|
| 15. | <i>Chaerophyllum reflexum</i> Lindl.            | -           | H  | Reg Himal                  | Co |
| 16. | <i>Heracleum candicans</i> Wall. ex DC          | Padiyala    | H  | Reg Himal                  | CR |
| 17. | <i>Selinum tenuifolium</i> Wall.                | Matoshal    | H  | Reg Himal                  | NT |
|     | <b>Araceae</b>                                  |             |    |                            |    |
| 18. | <i>Arisaema flavum</i> (Forsk.) Schott          | Kira aloo   | H  | Arabia                     | Co |
| 19. | <i>A. jacquemontii</i> Bl.                      | Kira aloo   | H  | Reg Himal                  | Co |
|     | <b>Araliaceae</b>                               |             |    |                            |    |
| 20. | <i>Aralia cachemirica</i> Decne                 | Bail chaura | H  | Reg Himal                  | Oc |
| 21. | <i>Hedera nepalensis</i> Koch.                  | Katari      | H  | Europ Afr Bor<br>As Temp   | Co |
|     | <b>Asclepiadaceae</b>                           |             |    |                            |    |
| 22. | <i>Vincitoxicum hirudinaria</i> Medik.          | -           | H  | Europ Reg Cauc             | NT |
|     |                                                 |             |    |                            |    |
|     | <b>Asparagaceae</b>                             |             |    |                            |    |
| 23. | <i>Asparagus filicinus</i> Buch.-Ham.           | Shatavari   | Sh | Reg Himal<br>Burma         | Co |
|     | <b>Asteraceae</b>                               |             |    |                            |    |
| 24. | <i>Achillea millefolium</i> L.                  | Gandan      | H  | Europe Oriens              | Co |
| 25. | <i>Ainsliaea aptera</i> DC.                     | Sath jalari | H  | Reg Himal                  | Co |
| 26. | <i>Anaphalis busua</i> (Buch.- Ham. ex Don) DC. | Bacha       | H  | Reg Himal                  | Co |
| 27. | <i>Artemisia absinthium</i> L.                  | -           | H  | Europ                      | Oc |
| 28. | <i>A. maritima</i> L.                           | -           | H  | Europ Reg.<br>Caucas Sibir | Oc |
| 29. | <i>Aster falconeri</i> (Cl.) Hutch.             | -           | H  | Ind Or                     | R  |
| 30. | <i>Bidens pilosa</i> L.                         | -           | H  | Reg Trop                   | Co |
| 31. | <i>Carpesium pedunculatum</i> Wall. ex DC.      | -           | H  | Europ As Temp              | Oc |
| 32. | <i>Cirsium falconeri</i> (Hk.f) Petrak          | Bhoosh      | H  | Reg Himal                  | Co |
| 33. | <i>Conyza japonica</i> (Thunb.) Less.           | -           | H  | Reg Himal<br>China Japan   | Co |

|     |                                              |          |    |                          |    |
|-----|----------------------------------------------|----------|----|--------------------------|----|
| 34. | <i>Cremanthodium arnicoides</i> DC. ex Royle | -        | H  | Reg Himal                | Oc |
| 35. | <i>Erigeron alpinus</i> L.                   | -        | H  | Reg Bor et Arct          | Oc |
| 36. | <i>Galinsoga parviflora</i> Cav.             | Banmara  | H  | Mexico<br>Northern Am    | Co |
| 37. | <i>Gerbera gossypina</i> (Royle) Beauv.      | Bach     | H  | Reg Himal                | Co |
| 38. | <i>Lactuca dissecta</i> D. Don               | -        | H  | Reg Himal                | Oc |
| 39. | <i>Ligularia amplexicaulis</i> DC.           | -        | H  | Reg Himal                | NT |
| 40. | <i>Myriactis nepalensis</i> Less.            | -        | H  | Reg Himal As<br>Centr    | Co |
| 41. | <i>Prenanthes violaeifolia</i> Decne         | -        | H  | Reg Himal                | Co |
| 42. | <i>Pterotheca falconeri</i> Hk.              | -        | H  | Ind Or                   | Oc |
| 43. | <i>Rhynchospermum verticillatum</i> Reinw.   | -        | H  | Java                     | Oc |
| 44. | <i>Saussurea albescens</i> (DC.) Sch.-Bi     | -        | H  | Reg Himal                | EN |
| 45. | <i>Senecio chenopodifolius</i> DC.           | -        | H  | Reg Himal                | Oc |
| 46. | <i>S. chrysanthemoides</i> DC.               | -        | H  | Reg Himal                | Co |
| 47. | <i>Siegesbeckia orientalis</i> L.            | -        | H  | Cosmos Trop              | Co |
| 48. | <i>Sonchus oleraceus</i> L.                  | -        | H  | Cosmop                   | Co |
| 49. | <i>Tagetes minuta</i> L.                     | -        | H  | Am Trop                  | Co |
| 50. | <i>T. patula</i> L.                          | -        | H  | Mexico                   | Oc |
| 51. | <i>Tanacetum dolichophyllum</i> Kitam.       | Guggulu  | H  | Reg Himal                | Co |
| 52. | <i>Taraxacum officinale</i> Weber            | Kanphul  | H  | Reg Temp Bor<br>et Austr | Co |
|     | <b>Balsaminaceae</b>                         |          |    |                          |    |
| 53. | <i>Impatiens amphorata</i> Edgew.            | Gadama   | H  | Reg Himal                | Co |
| 54. | <i>I. amplexicaulis</i> Edgew.               | Gadama   | H  | Reg Himal                | Co |
| 55. | <i>I. racemosa</i> DC.                       | Gadama   | H  | Reg Himal                | NT |
|     | <b>Berberidaceae</b>                         |          |    |                          |    |
| 56. | <i>Berberis lycium</i> Royle                 | Kshambal | Sh | Reg Himal                | VU |
| 57. | <i>B. aristata</i> DC.                       | Kshambal | Sh | Ind or                   | Co |
|     | <b>Betulaceae</b>                            |          |    |                          |    |
| 58. | <i>Alnus nitida</i> (Spach) Endl.            | Koish    | T  | Reg Himal                | CR |



|     |                                                 |          |    |                        |    |
|-----|-------------------------------------------------|----------|----|------------------------|----|
| 59. | <i>Betula alnoides</i> Buch.-Ham. ex D. Don     | Shod     | T  | Reg Himal              | Co |
|     | <b>Boraginaceae</b>                             |          |    |                        |    |
| 60. | <i>Cynoglossum glochidiatum</i> Wall. ex Benth. | -        | H  | Ind Or Burma           | Co |
| 61. | <i>C. lanceolatum</i> Forsk.                    | -        | H  | Arabia                 | Co |
| 62. | <i>Eritrichium canum</i> (Benth.) Kitam.        | -        | H  | Chili                  | Co |
| 63. | <i>Hackelia uncinata</i> (Benth.) Fisher        | -        | H  | Reg Himal              | Co |
| 64. | <i>Myosotis caespitosa</i> Schulz.              | -        | H  | Reg Bor Temp Oriens    | R  |
|     | <b>Brassicaceae</b>                             |          |    |                        |    |
| 65. | <i>Arabidopsis mollissima</i> (C. A. Mey-Busch  | -        | H  | Reg Himal Sibir        | Oc |
| 66. | <i>Arabis amplexicaulis</i> Edgew.              | -        | H  | Reg Himal              | Oc |
| 67. | <i>Barbarea intermedia</i> Bore                 | -        | H  | Europ As Temp          | Oc |
| 68. | <i>B. vulgaris</i> R.Br.                        | -        | H  | Europ As Temp          | Oc |
| 69. | <i>Capsella bursa-pastoris</i> (L.) Medik-      | -        | H  | Reg temp               | Co |
| 70. | <i>Cardamine impatiens</i> L.                   | -        | H  | Reg Himal              | Co |
| 71. | <i>Erysimum hieraciifolium</i> L.               | -        | H  | Europ                  | Co |
| 72. | <i>Thlaspi arvense</i> L.                       | -        | H  | Europ As Bor           | Co |
| 73. | <i>Sarcococca saligna</i> (D.Don) Muel.         | Rawal    | Sh | Reg Himal              | Co |
|     | <b>Campanulaceae</b>                            |          |    |                        |    |
| 74. | <i>Campanula argyrotrema</i> Wall.ex DC.        | -        | H  | Reg Himal              | NT |
| 75. | <i>Cyananthus lobatus</i> Wall.                 | -        | H  | Reg Himal              | Co |
|     | <b>Cannabaceae</b>                              |          |    |                        |    |
| 76. | <i>Cannabis sativa</i> L.                       | Bhang    | H  | As Centr Himal Bor Occ | Co |
|     | <b>Caprifoliaceae</b>                           |          |    |                        |    |
| 77. | <i>Lonicera angustifolia</i> Wall. ex DC.       | -        | Sh | Am Bor                 | Co |
| 78. | <i>Viburnum cotinifolium</i> D.Don              | Tallahna | Sh | Reg Himal              | Co |
| 79. | <i>V. mullaha</i> Buch.-Ham. ex D.Don           | Dabh     | Sh | Reg Himal              | Co |
|     | <b>Caryophyllaceae</b>                          |          |    |                        |    |
| 80. | <i>Gypsophila cerastioides</i> D. Don           | -        | H  | Reg Himal              | Co |

|     |                                                 |                |    |                          |    |
|-----|-------------------------------------------------|----------------|----|--------------------------|----|
| 81. | <i>Minuartia kashmirica</i> (Edgew.) Matt.      | -              | H  | Reg Himal                | R  |
| 82. | <i>Sagina saginoides</i> (L.) Karst.            | -              | H  | Reg Bor et Arct          | Oc |
| 83. | <i>Silene conoidea</i> L.                       | -              | H  | Europe Oriens            | Co |
| 84. | <i>Stellaria himalayensis</i> Majumdar          | -              | H  | Geront Trop              | R  |
|     | <b>Celasteraceae</b>                            |                |    |                          |    |
| 85. | <i>Euonymus echinatus</i> Wall.                 | -              | Sh | Reg Himal                | R  |
|     | <b>Chenopodiaceae</b>                           |                |    |                          |    |
| 86. | <i>Chenopodium album</i> L.                     | Bithu          | H  | Reg Temp et Trop         | Co |
| 87. | <i>C. botrys</i> L.                             | Sokana         | H  | Reg Bor                  | Co |
|     | <b>Convolvulaceae</b>                           |                |    |                          |    |
| 88. | <i>Convolvulus arvensis</i> L.                  | -              | H  | Geront temp              | Co |
| 89. | <i>Ipomoea purpurea</i> (L.) Roth.              | -              | H  | Am Calid                 | Co |
|     | <b>Cornaceae</b>                                |                |    |                          |    |
| 90. | <i>Cornus macrophylla</i> Wall.                 | Kirchhan       | T  | Reg Himal<br>China Japan | EN |
| 91. | <i>C. capitata</i> Wall.                        | Thrimbal       | T  | Reg Himal                | R  |
|     | <b>Cucurbitaceae</b>                            |                |    |                          |    |
| 92. | <i>Herpetospermum pedunculatum</i> (Serin.) Cl. | -              | H  | Reg Himal                | VU |
| 93. | <i>Melothria heterophylla</i> (Lour.) Cogn.     | Balakakri      | H  | As Trop                  | Oc |
|     |                                                 |                |    |                          |    |
|     | <b>Cuscutaceae</b>                              |                |    |                          |    |
| 94. | <i>Cuscuta reflexa</i> Roxb.                    | Amar bel       | H  | Ind. Or                  | Oc |
|     | <b>Cyperaceae</b>                               |                |    |                          |    |
| 95. | <i>Carex breviculmis</i> R. Br.                 | Krash          | H  | Reg Himal Japan<br>Austr | NT |
|     | <b>Dioscoreaceae</b>                            |                |    |                          |    |
| 96. | <i>Dioscorea deltoidea</i> Wall. ex Kunt        | Shingli-mingli | H  | Ind Or                   | EN |
|     | <b>Elaeagnaceae</b>                             |                |    |                          |    |

|      |                                                   |              |    |                            |    |
|------|---------------------------------------------------|--------------|----|----------------------------|----|
| 97.  | <i>Elaeagnus conferta</i> Roxb.                   | Ghaiyee<br>n | Sh | Japan                      | CR |
|      | <b>Ericaceae</b>                                  |              |    |                            |    |
| 98.  | <i>Cassiope fastigiata</i> Wall.                  | -            | Sh | Reg Himal                  | VU |
| 99.  | <i>Gaultheria trichophylla</i> Royle              | -            | H  | Reg Himal                  | Co |
| 100. | <i>Lyonia ovalifolia</i> (Wall.) Drude            | Bheral       | T  | China                      | Oc |
| 101. | <i>Rhododendron arboreum</i> Sm.                  | Brah         | T  | Ind Or Reg<br>Himal Zeylan | EN |
| 102. | <i>R. campanulatum</i> D. Don                     | Shargal      | Sh | Reg Himal                  | VU |
|      | <b>Fabaceae</b>                                   |              |    |                            |    |
| 103. | <i>Astragalus chlorostachys</i> Lindl.            | -            | H  | Reg Himal                  | Oc |
| 104. | <i>Desmodium elegans</i> DC.                      | Kathi        | Sh | Reg Himal<br>China         | Co |
| 105. | <i>Hedysarum cachemirianum</i> Benth.<br>ex Baker | -            | H  | Reg Himal                  | NT |
| 106. | <i>Indigofera gerardiana</i> Wall. ex<br>Baker    | Kali Kathi   | Sh | Reg Himal                  | Co |
| 107. | <i>I. heterantha</i> Wall. ex Brandis             | Kali Kathi   | Sh | Reg Himal                  | NT |
| 108. | <i>Robinia pseudo-acacia</i> L.                   | Kinkar       | T  | Am Bor                     | Oc |
| 109. | <i>Trifolium pratense</i> L.                      | Malori       | H  | Europ As Temp              | Co |
| 110. | <i>T. repens</i> L.                               | Malori       | H  | Geront Bor<br>Temp         | Co |
| 111. | <i>Trigonella emodi</i> Benth.                    | Mithugh<br>a | H  | Reg Himal                  | Oc |
|      | <b>Fagaceae</b>                                   | -            |    |                            |    |
| 112. | <i>Quercus floribunda</i> Lindl.                  | Mohru        | T  | Reg Himal                  | CR |
| 113. | <i>Q. leucotricophora</i> A.Camus                 | Ban          | T  | Reg Himal                  | CR |
|      | <b>Fumariaceae</b>                                |              |    |                            |    |
| 114. | <i>Corydalis cashmeriana</i> Royle                | Bhutkeshi    | H  | Reg Himal                  | Co |
|      | <b>Gentianaceae</b>                               |              |    |                            |    |
| 115. | <i>Swertia alternifolia</i> Royle                 | -            | H  | Reg Himal                  | NT |
| 116. | <i>S. angustifolia</i> Ham. ex D. Don             | Chirayata    | H  | Reg Himal                  | Co |
|      | <b>Geraniaceae</b>                                |              |    |                            |    |
| 117. | <i>Geranium lucidum</i> L.                        | -            | H  | Europ As Bor               | Co |
| 118. | <i>G. nepalense</i> Sw.                           | Tirahni      | H  | Ind Or China               | Co |

|      |                                        |            |    |                          |    |
|------|----------------------------------------|------------|----|--------------------------|----|
|      | <b>Grossulariaceae</b>                 |            |    |                          |    |
| 119. | <i>Ribes glaciale</i> Decne.           | Chalendhar | Sh | Reg Himal                | NT |
|      | <b>Hippocastanaceae</b>                |            |    |                          |    |
| 120. | <i>Aesculus indica</i> Coleb. ex Wall. | Khnor      | T  | Reg Himal                | EN |
|      | <b>Hypericaceae</b>                    |            |    |                          |    |
| 121. | <i>Hypericum oblongifolium</i> Choisy  | Basanti    | Sh | Reg Himal                | Co |
| 122. | <i>H. perforatum</i> L.                | -          | H  | Europ As Bor<br>Am Bor   | Oc |
|      | <b>Hypoxidaceae</b>                    |            |    |                          |    |
| 123. | <i>Hypoxis aurea</i> Lour.             | -          | H  | Cochinch                 | Co |
|      | <b>Iridaceae</b>                       |            |    |                          |    |
| 124. | <i>Iris milesii</i> Foster             | Zora gha   | H  | Reg Himal                | Co |
| 125. | <i>I. kumaonensis</i> Wall. ex D.Don   | Zora gha   | H  | Reg Himal                | Co |
|      | <b>Juglandaceae</b>                    |            |    |                          |    |
| 126. | <i>Juglans regia</i> L.                | Akhrot     | T  | As Occ Reg<br>Himal      | NT |
|      | <b>Juncaceae</b>                       |            |    |                          |    |
| 127. | <i>Juncus articulatus</i> L.           | -          | H  | Europ Austr              | Oc |
| 128. | <i>J. concinnus</i> D. Don             | -          | H  | Reg Himal                | Oc |
|      | <b>Lamiaceae</b>                       |            |    |                          |    |
| 129. | <i>Ajuga bracteosa</i> Benth.          | Neelkanthi | H  | Afr Trop Ind Or<br>As Or | Co |
| 130. | <i>Elsholtzia flava</i> Benth.         | -          | Sh | Reg Himal                | Oc |
| 131. | <i>Lamium album</i> L.                 | Neulhakh   | H  | Europe Oriens            | R  |
| 132. | <i>Leonurus cardiaca</i> L.            | -          | H  | Reg Bor Temp             | Oc |
| 133. | <i>Mentha longifolia</i> L.            | Pudina     | H  | Reg Bor Temp             | Co |
| 134. | <i>Nepeta campestria</i> Benth.        | Brun       | H  | Reg Himal                | Oc |
| 135. | <i>Origanum vulgare</i> L.             | Ban tulsii | H  | Europ As et Afr<br>Bor   | Co |
| 136. | <i>Phlomis bracteosa</i> Royle         | -          | H  | Reg Himal                | Co |
| 137. | <i>Plectranthus rugosus</i> Wall.      | Shainli    | H  | Reg Himal                | Co |
| 138. | <i>Prunella vulgaris</i> L.            | Pethughas  | H  | Reg Temp                 | Co |

|      |                                                          |                 |    |                                            |    |
|------|----------------------------------------------------------|-----------------|----|--------------------------------------------|----|
| 139. | <i>Salvia campanulata</i> Wall. ex Benth.                | -               | H  | Reg Himal                                  | Oc |
| 140. | <i>Thymus linearis</i> Benth.                            | Ban<br>ajwain   | H  | Europ As et Afr<br>Bor                     | Co |
|      | <b>Liliaceae</b>                                         |                 |    |                                            |    |
| 141. | <i>Paris polyphylla</i> Sm.                              | Kakoli          | H  | Reg Himal<br>China                         | VU |
| 142. | <i>Polygonatum cirrhifolium</i> (Wall.)<br>Royle         | Salam<br>mishri | H  | Reg Himal As<br>Bor                        | CR |
| 143. | <i>P. multiflorum</i> (L.) All.                          | Salam<br>mishri | H  | Europ As Bor<br>Afghan                     | VU |
| 144. | <i>P. verticillatum</i> (L.) All.                        | Salam<br>mishri | H  | Europ As Bor                               | Co |
| 145. | <i>Smilacina purpurea</i> Wadle                          | -               | H  | Reg Himal                                  | Co |
| 146. | <i>Trillidium govanianum</i> (Wall. ex D-<br>Don) Kunth. | -               | H  | Reg Himal                                  | Co |
|      | <b>Linaceae</b>                                          |                 |    |                                            |    |
| 147. | <i>Reinwardtia indica</i> Dum.                           | Piyan           | H  | Ind Or                                     | Co |
|      | <b>Loganiaceae</b>                                       |                 |    |                                            |    |
| 148. | <i>Buddleja crispa</i> Benth.                            | Sfed<br>saryahu | Sh | Reg. Himal<br>Burma                        | Co |
|      | <b>Loranthaceae</b>                                      |                 |    |                                            |    |
| 149. | <i>Viscum album</i> L.                                   | Rinn            | Sh | Europe As Temp                             | Oc |
|      | <b>Malvaceae</b>                                         |                 |    |                                            |    |
| 150. | <i>Malva sylvestris</i> L.                               | Sonchal         | H  | Europ As Temp                              | Oc |
| 151. | <i>M. verticillata</i> L.                                | Siddu<br>ghas   | H  | Europ As et Afr<br>Bor                     | Oc |
|      | <b>Moraceae</b>                                          |                 |    |                                            |    |
| 152. | <i>Morus serrata</i> Roxb.                               | Cheemu          | T  | Reg Himal                                  | CR |
|      | <b>Morinaceae</b>                                        |                 |    |                                            |    |
| 153. | <i>Morina longifolia</i> Wall. ex DC.                    | -               | H  | Reg Himal                                  | VU |
|      |                                                          |                 |    |                                            |    |
|      | <b>Myrsinaceae</b>                                       |                 |    |                                            |    |
| 154. | <i>Myrsine africana</i> L.                               | Bhojishel       | Sh | Reg Himal Afr<br>Austr et Trop Ins<br>Azor | VU |
|      | <b>Oleaceae</b>                                          |                 |    |                                            |    |

|      |                                                   |               |    |                               |    |
|------|---------------------------------------------------|---------------|----|-------------------------------|----|
| 155. | <i>Jasminum humile</i> L.                         | Juhi          | Sh | As Trop                       | Oc |
| 156. | <i>J. officinale</i> L.                           | Juhi          | Sh | Ind Bor Occ<br>China          | Oc |
|      | <b>Onagraceae</b>                                 |               |    |                               |    |
| 157. | <i>Oenothera rosea</i> L Her. ex Ait.             | -             | H  | Am Bor Occ<br>Peruv           | Oc |
|      | <b>Orchidaceae</b>                                |               |    |                               |    |
| 158. | <i>Calanthe tricarinata</i> Lindl.                | -             | H  | Reg Himal                     | Co |
| 159. | <i>Goodyera fusca</i> (Lind.) Hk. f.              | -             | H  | Reg Himal                     | Co |
| 160. | <i>Malaxis muscifera</i> (Lindl.) O. Ktze-        |               | H  | Europ                         | Oc |
|      | <b>Orobanchaceae</b>                              |               |    |                               |    |
| 161. | <i>Orobanche alba</i> Steph. ex Willd.            | -             | H  | Europ Or As Bor               | Oc |
|      | <b>Oxalidaceae</b>                                |               |    |                               |    |
| 162. | <i>Oxalis acetosella</i> L.                       | Malori        | H  | Reg Bor Temp                  | Oc |
| 163. | <i>O. latifolia</i> Kunth.                        | Malori        | H  | Mexic                         | Oc |
|      | <b>Parnassiaceae</b>                              |               |    |                               |    |
| 164. | <i>Parnassia nubicola</i> Hk. f.                  | -             | H  | Reg Himal                     | Co |
|      | <b>Philadelphaceae</b>                            |               |    |                               |    |
| 165. | <i>Deutzia corymbosa</i> (Schneid) Airy-Shaw      | Churu         | Sh | Reg Himal                     | Co |
|      | <b>Phytolaccaceae</b>                             |               |    |                               |    |
| 166. | <i>Phytolacca acinosa</i> Roxb.                   | Jharka        | H  | Reg Himal<br>China            | NT |
|      | <b>Plantaginaceae</b>                             |               |    |                               |    |
| 167. | <i>Plantago himalaica</i> Pilger                  | Ishabgol      | H  | Reg Himal                     | Oc |
|      | <b>Poaceae</b>                                    |               |    |                               |    |
| 168. | <i>Agrostis munroana</i> L.                       | -             | H  | Afghan                        | Co |
| 169. | <i>Bothriochloa pertusa</i> (L.)                  | -             | H  | Sicil As Et Afr<br>Trop Austr | Oc |
| 170. | <i>Brachypodium sylvaticum</i> (Hudson)-P. Beauv. |               | H  | Europ Oriens                  | Co |
| 171. | <i>Bromus japonicus</i> Thunb. ex Murr.           | -             | H  | Reg Himal                     | Co |
| 172. | <i>Chrysopogon gryllus</i> (L.) Trin.             | Binu<br>Bajha | H  | Reg Trop et<br>Subtrop        | Co |
| 173. | <i>Cymbopogon distans</i> (Nees) Wats.            | -             | H  | Reg Trop                      | Oc |

|      |                                                           |               |    |                                       |    |
|------|-----------------------------------------------------------|---------------|----|---------------------------------------|----|
| 174. | <i>Dactylis glomerata</i> L.                              | -             | H  | Europ As Bor                          | Co |
| 175. | <i>Danthonia cachemyriana</i> Jaub. & Planch.             | -             | H  | Reg Himal                             | Oc |
| 176. | <i>Digitaria cruciata</i> (Nees ex Steud.)-<br>A. Camus   |               | H  | Reg Bor Temp<br>et Trop               | Co |
| 177. | <i>Eragrostis minor</i> Host.                             | -             | H  | As Trop Afr<br>Trop et Austr          | Co |
| 178. | <i>Oplismenus compositus</i> (L.) Beauv-                  |               | H  | Cosmop Trop                           | Co |
| 179. | <i>Phleum alpinum</i> L.                                  | -             | H  | Reg Bor et Arct<br>Am Austr           | Co |
| 180. | <i>Poa alpina</i> L.                                      | -             | H  | Reg Bor et Arct                       | Co |
| 181. | <i>P. annua</i> L.                                        | -             | H  | Cosmop                                | Co |
| 182. | <i>Saccharum spontaneum</i> L.                            | Philoo        | H  | Geront Trop                           | VU |
| 183. | <i>Stipa roylei</i> (Nees) Mez.                           | -             | H  | Ind Or                                | Co |
| 184. | <i>Themeda anathera</i> (Nees) Hack.                      | -             | H  | Ind Or                                | Oc |
| 185. | <i>Thamnocalamus spathiflorus</i> (Trin.)<br>Munro        | Gahara        | Sh | Reg Himal                             | Co |
| 186. | <i>Trisetum spicatum</i> (L.) Richt.                      | -             | H  | Austr (New<br>South Wales)            | Co |
| 187. | <i>Sinarundinaria falcata</i> (Nees) Cha<br>& Renv.       | Nargal        | Sh | Reg Himal                             | CR |
|      | <b>Podophyllaceae</b>                                     |               |    |                                       |    |
| 188. | <i>Podophyllum hexandrum</i> Royle                        | -             | H  | Reg Himal                             | NT |
|      | <b>Polygonaceae</b>                                       |               |    |                                       |    |
| 189. | <i>Bistorta affinis</i> (D. Don) Greene                   | Roti<br>muhi  | H  | Reg Himal                             | Co |
| 190. | <i>B. amplexicaulis</i> (D. Don)                          | Dori gha      | H  | Nepal Afghan<br>India Bhutan<br>China | Co |
| 191. | <i>Fagopyrum dibotrys</i> (D. Don) Hara                   | Ban<br>Paphra | H  | Reg Himal<br>China                    | Co |
| 192. | <i>F. esculentum</i> Moench                               | Phaphra       | H  | Europ As Bor                          | Co |
| 193. | <i>Oxyria digyna</i> (L.) Hill                            | Kailashi      | H  | Reg Bor Alp et<br>Arct                | Co |
| 194. | <i>Persicaria capitata</i> (Buch.-Ham. e<br>D. Don) Gross | Kalovar       | H  | Reg Himal                             | Co |

|      |                                              |             |    |                                |    |
|------|----------------------------------------------|-------------|----|--------------------------------|----|
| 195. | <i>Polygonum hydropiper</i> L.               | -           | H  | Reg Temp Bor et Austr          | Co |
| 196. | <i>P. nepalensis</i> Meissn.                 | Trod        | H  | Reg Himal                      | Co |
| 197. | <i>Rheum webbianum</i> Royle                 | Chunkhari   | H  | Reg Himal                      | CR |
| 198. | <i>Rumex hastatus</i> D. Don                 | Aambi       | H  | Reg Himal                      | Co |
| 199. | <i>R. nepalensis</i> Spreng.                 | Albar       | H  | As Occ Ind Or Malaya Afr Austr | Co |
|      | <b>Primulaceae</b>                           |             |    |                                |    |
| 200. | <i>Androsace rotundifolia</i> Hardw.         | Jogni Ghas  | H  | Reg Himal China                | Co |
| 201. | <i>Primula denticulata</i> Sm.               | Guna        | H  | Reg Himal                      | Co |
|      | <b>Punicaceae</b>                            |             |    |                                |    |
| 202. | <i>Punica granatum</i> L.                    | Daru        | T  | Europ Austr Maurit             | Oc |
|      | <b>Ranunculaceae</b>                         |             |    |                                |    |
| 203. | <i>Aconitum heterophyllum</i> Wall. ex Royle | Patish      | H  | Reg Himal                      | CR |
| 204. | <i>Actaea spicata</i> L.                     | -           | H  | Reg Bor Temp                   | R  |
| 205. | <i>Anemone obtusiloba</i> D. Don             | Mamiri      | H  | Reg Himal                      | Co |
| 206. | <i>Aquilegia pubiflora</i> Wall. ex Royle    | -           | H  | Ind Or                         | Co |
| 207. | <i>Caltha palustris</i> L.                   | Shomalap    | H  | Reg Bor Temp et Arct           | NT |
| 208. | <i>Clematis acuminata</i> DC.                | Baldkuja    | Sh | Reg Himal                      | Co |
| 209. | <i>Delphinium brunonianum</i> Royle          | Kasturilata | H  | Reg Himal                      | Co |
| 210. | <i>Ranunculus arvensis</i> L.                | -           | H  | Europ As Bor                   | Oc |
| 211. | <i>Thalictrum alpinum</i> L.                 | Mamiri      | H  | Reg Himal                      | Oc |
| 212. | <i>T. foliolosum</i> DC.                     | Mamiri      | H  | Reg Himal                      | Co |
|      | <b>Rhamnaceae</b>                            |             |    |                                |    |
| 213. | <i>Rhamnus purpureus</i> Edgew.              | Chaunsha    | Sh | Reg Himal                      | Oc |
| 214. | <i>R. virgatus</i> Roxb.                     | -           | Sh | Ind Or Bor                     | Oc |



|      |                                               |                |    |                             |    |
|------|-----------------------------------------------|----------------|----|-----------------------------|----|
|      |                                               |                |    |                             |    |
|      | <b>Rosaceae</b>                               |                |    |                             |    |
| 215. | <i>Agrimonia pilosa</i> Ledlb.                | Kuri           | H  | Reg Bor Temp                | Co |
| 216. | <i>Cotoneaster bacillaris</i> Wall. ex Lindl. | Riunsh         | Sh | Reg Himal                   | EN |
| 217. | <i>Fragaria nubicola</i> Lindl. ex Lacait     | Bumbra         | H  | Reg Temp                    | Co |
| 218. | <i>Potentilla argrophylla</i> Wall. ex Lehm.  | Dori           | H  | Reg Himal                   | Co |
| 219. | <i>Prinsepia utilis</i> Royle                 | Bhekhal        | Sh | Reg Himal                   | Co |
| 220. | <i>Prunus armeniaca</i> L.                    | Shada          | T  | Reg Caucas                  | Oc |
| 221. | <i>P. cornuta</i> (Wall. ex Royle) Steud.     | Jammu          | T  | Europ As Bor                | Co |
| 222. | <i>Pyrus pashia</i> Buch.-Ham. ex D. Do       | Shegal         | T  | Reg Himal                   | Co |
| 223. | <i>Rosa macrophylla</i> Lindl.                | Kuja           | Sh | Reg Himal<br>China          | VU |
| 224. | <i>R. moschata</i> Lindl.                     | Kuja           | Sh | Oriens                      | Co |
| 225. | <i>Rubus biflorus</i> Buch.-Ham. ex Sm.       | Aachhe         | Sh | Reg Himal                   | Oc |
| 226. | <i>R. ellipticus</i> Sm.                      | Aachhe         | Sh | Ind. Or                     | Co |
| 227. | <i>R. niveus</i> Thunb.                       | Anchha         | Sh | Reg Himal                   | Oc |
| 228. | <i>Sibbaldia cuneata</i> Hornemm ex Ktze.     | -              | H  | Reg Bor et Austr            | Co |
| 229. | <i>Sorbaria tomentosa</i> (Lindl.) Rehde      | Chhattaye<br>e | Sh | Reg Himal As<br>Bor         | NT |
| 230. | <i>Sorbus foliolosa</i> (Wall.) Spach.        | -              | Sh | Reg Himal                   | EN |
| 231. | <i>Spiraea arcuata</i> Hk.f.                  | -              | Sh | Reg Himal                   | R  |
|      | <b>Rubiaceae</b>                              |                |    |                             |    |
| 232. | <i>Rubia cordifolia</i> L.                    | -              | H  | As Trop et Temp<br>Afr Trop | Co |
|      | <b>Rutaceae</b>                               |                |    |                             |    |
| 233. | <i>Zanthoxylum armatum</i> DC.                | Timber         | Sh | Reg Himal<br>China          | CR |
|      | <b>Salicaceae</b>                             |                |    |                             |    |
| 234. | <i>Populus ciliata</i> Wall.                  | Popular        | T  | Reg Himal                   | VU |
| 235. | <i>Salix acutifolia</i> Willd.                | Beli           | T  | Europ As Bor                | Oc |
|      | <b>Saxifragaceae</b>                          |                |    |                             |    |

|      |                                                 |                  |    |                            |    |
|------|-------------------------------------------------|------------------|----|----------------------------|----|
| 236. | <i>Astilbe rivularis</i> Buch.-Ham. ex D. Don   | Phah             | H  | Reg Himal                  | Co |
| 237. | <i>Bergenia stracheyi</i> (Hk. f. & Th.) Engl.  | Pashan Bhed      | H  | Reg Himal                  | VU |
| 238. | <i>Saxifraga brunonis</i> Wall. ex Ser.         | -                | H  | Reg Himal                  | Co |
|      | <b>Schisandraceae</b>                           |                  |    |                            |    |
| 239. | <i>Schisandra grandiflora</i> (Wall.) Hk. & Th. | -                | H  | Reg Himal                  | EN |
|      | <b>Scrophulariaceae</b>                         |                  |    |                            |    |
| 240. | <i>Hemiphragma heterophyllum</i> Wall.          | -                | H  | Reg Himal                  | Co |
| 241. | <i>Mazus surculosus</i> D. Don                  | -                | H  | Reg Himal                  | Co |
| 242. | <i>Pedicularis bicornuta</i> Klotz.             | -                | H  | Reg Himal                  | Co |
| 243. | <i>Scrophularia himalensis</i> Royle            | -                | H  | Reg Himal                  | Co |
| 244. | <i>Verbascum thapsus</i> L.                     | Jangli tambakh u | H  | Europ Oriens<br>Reg Himal  | Co |
| 245. | <i>Veronica biloba</i> L.                       | -                | H  | Reg Himal et<br>Cauc Sibir | Co |
| 246. | <i>Wulfenia amherstiana</i> Wall.               | -                | H  | Reg Himal                  | Co |
|      | <b>Smilacaceae</b>                              |                  |    |                            |    |
| 247. | <i>Smilax aspera</i> L.                         | -                | Sh | Europ Oriens<br>Ind Or     | Co |
|      | <b>Solanaceae</b>                               |                  |    |                            |    |
| 248. | <i>Datura stramonium</i> L.                     | Datura           | H  | Trapazia                   | Oc |
| 249. | <i>Solanum nigrum</i> L.                        | Makoi            | H  | Ampliga                    | Co |
|      | <b>Thymelaeaceae</b>                            |                  |    |                            |    |
| 250. | <i>Wikstroemia canescens</i> Meissn.            | Bhojishel        | Sh | Reg Himal<br>Zeylan China  | VU |
| 251. | <i>Daphne papyracea</i> Wall. ex Steud.         | Gandiri          | Sh | China                      | Co |
|      | <b>Ulmaceae</b>                                 |                  |    |                            |    |
| 252. | <i>Celtis australis</i> L.                      | Kharik           | T  | Europ As Temp<br>Ind Or    | Oc |
| 253. | <i>Ulmus villosa</i> Brand. ex Gamble           | Chor             | T  | Europ As Bor               | Oc |
| 254. | <i>U. wallichiana</i> Planch.                   | Mahun            | T  | Ind Or                     | CR |
|      | <b>Urticaceae</b>                               |                  |    |                            |    |

|      |                                                      |               |    |                               |    |
|------|------------------------------------------------------|---------------|----|-------------------------------|----|
| 255. | <i>Boehmeria platyphylla</i> Jacq.                   | -             | Sh | As et Afr Trop<br>Ins Pacific | Co |
| 256. | <i>Debregeasia longifolia</i> (Burm. f.)<br>Wedd.    | -             | Sh | Arabia                        | Co |
| 257. | <i>Girardinia diversifolia</i> (Link.) Friis         | Jarahan       | H  | Ind Or Malaya                 | Co |
| 258. | <i>Lecanthus peduncularis</i> (Royle)<br>Wedd.       | -             | H  | Ind Or                        | Co |
| 259. | <i>Parietaria micrantha</i> Ledeb.                   | -             | H  | Reg Trop et<br>Subtrop        | Co |
| 260. | <i>Urtica dioica</i> L.                              | Aan           | H  | Reg Bor Temp                  | Co |
|      | <b>Valerianaceae</b>                                 |               |    |                               |    |
| 261. | <i>Valeriana hardwickii</i> Wall.                    | Nihanu        | H  | Reg Himal<br>Malaya           | VU |
| 262. | <i>V. jatamansi</i> Jones                            | Mushkbal<br>a | H  | Reg Himal                     | Co |
|      | <b>Violaceae</b>                                     |               |    |                               |    |
| 263. | <i>Viola biflora</i> L.                              | Banafsha      | H  | Reg Bor Temp                  | Co |
| 264. | <i>V. canescens</i> Wall. ex Roxb.                   | Banafsha      | H  | Ind Or Malaya<br>China        | Co |
| 265. | <i>V. serpens</i> Wall. ex Roxb.                     | Banafsha      | H  | Ind Or Malaya<br>China        | Oc |
|      | <b>Vitaceae</b>                                      |               |    |                               |    |
| 266. | <i>Parthenocissus semicordata</i> (Wall.)<br>Planch. | Karmai        | Sh | Ind Or                        | Co |
|      | <b>Zingiberaceae</b>                                 |               |    |                               |    |
| 267. | <i>Hedychium spicatum</i> Sm.                        | Ban haldi     | H  | Reg Himal                     | VU |
| 268. | <i>Roscoea alpina</i> Royle                          | -             | H  | Reg Himal                     | Oc |
|      | <b>Gymnosperm</b>                                    |               |    |                               |    |
|      | <b>Pinaceae</b>                                      |               |    |                               |    |
| 269. | <i>Abies pindrow</i> Royle                           | Tosh          | T  | Reg Himal                     | Co |
| 270. | <i>Cedrus deodara</i> (Roxb. ex D. Don)<br>G. Don    | Devdar        | T  | Reg Himal                     | NT |
| 271. | <i>Picea smithiana</i> (Wall.) Boiss.                | Rai           | T  | Reg Himal                     | NT |
| 272. | <i>Pinus wallichiana</i> A. B. Jackson               | Kail          | T  | Reg Himal                     | NT |
|      | <b>Taxaceae</b>                                      |               |    |                               |    |

|      |                                                                  |        |   |           |    |
|------|------------------------------------------------------------------|--------|---|-----------|----|
| 273. | <i>Taxus baccata</i> L. subsp. <i>wallichiana</i> (Zucc.) Pilger | Rakhal | T | Reg Himal | VU |
|------|------------------------------------------------------------------|--------|---|-----------|----|

**Abbreviations Used:** **CR**=Critically Endangered; **En**=Endangered; **Vu**=Vulnerable; **LC**=Least Concern; **DD**=Data Deficient; **CPI**=Conservation Priority Index; **LF**=Life Form; **Fn**=Fern; **H**=Herb; **Sh**=Shrub; **T**=Tree; **Oc**=Occasional; **Co**=Common; **R**=Rare; **=E**=Endemic; **=NE**=Near endemic; **Afghan**=Afghanistan; **Afr**=Africa; **Alp**=Alpine; **Am**=America; **Amphig**=Amphigaea; **Arab**=Arabia; **Arct**=Arctic; **As**=Asia; **Austr**=Australia; **Bor**=Boreal; **Caucas**=Caucasus; **Centr**=Central; **Cosmop**=Cosmopolitan; **et**=And; **Geront**=Gerontia; **Himal**=Himalayan; **Ind**=Indian; **Mongol**=Mongolia; **Occ**=Occidental; **Or**=Oriental; **Orient**=Oriental; **Reg**=Region; **Subtrop**=Subtropical; **Temp**=Temperate; **Trop**=Tropical; **Polynes**=Polynesia; **Ins**=Insular; **min**=Minor.

## 2. Medicinal Plants

Total 165 species of vascular plants belonging to 60 families were reported from Anni Forest Division which are used as medicinal plants in different ailments by the inhabitants of the area. Of the total species, 10 species were trees, 35 shrubs and 119 herbs.

**Table 5. Medicinal plants reported from Anni Forest Division**

| S. N. | Family/Taxa                               | Local Name        | Life Form | Part/s used | Indigenous uses                                                                                                                                                                                                              |
|-------|-------------------------------------------|-------------------|-----------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | <b>Achyranthaceae</b>                     |                   |           |             |                                                                                                                                                                                                                              |
| 1.    | <i>Achyranthes aspera</i> L.              | Puthkanda         | H         | Rt, Lf, WP  | Blisters in mouth, hemicrania, scrophula, scorpion sting, whooping cough, swelling                                                                                                                                           |
|       | <b>Alliaceae</b>                          |                   |           |             |                                                                                                                                                                                                                              |
| 2.    | <i>Allium humile</i> Kunth.               | Forn, Jangli Pyaz | H         | Lf, Bb      | Indigestion                                                                                                                                                                                                                  |
| 3.    | <i>Narcissus tazetta</i> L.               | Bodi              | H         | Bb          | Anaemia, boils                                                                                                                                                                                                               |
|       | <b>Araceae</b>                            |                   |           |             |                                                                                                                                                                                                                              |
| 4.    | <i>Acorus calamus</i> L.                  | Boj               | H         | Rt, Rh      | Abdominal pain, asthma, bodyache, bronchitis, cold, cough, constipation, cuts, dysentery, epilepsy, fever, headache, hysteria, indigestion, malaria, pain in neck, skin disease, snake bite, stomachache, tonic, insecticide |
| 5.    | <i>Arisaema tortuosum</i> (Wall.) Schott. | Birbanka          | H         | Bb, Sd      | Veterinary diseases                                                                                                                                                                                                          |
|       | <b>Amaranthaceae</b>                      |                   |           |             |                                                                                                                                                                                                                              |
| 6.    | <i>Amaranthus viridis</i> L.              | Sariyara          | H         | AP          | Digestion, snake bite                                                                                                                                                                                                        |

|     |                                         |                    |    |            |                                                                                                                                                                                                                                     |
|-----|-----------------------------------------|--------------------|----|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7.  | <i>A. hybridus</i> L.                   | Sariyara           | H  | Rt, Lf, Sd | Diarrhoea, leucorrhoea, pain                                                                                                                                                                                                        |
|     | <b>Apiaceae</b>                         |                    |    |            |                                                                                                                                                                                                                                     |
| 8.  | <i>Angelica glauca</i> Edgew.           | Ganderaya (Chora)  | H  | Rt, Sd     | Dysentery, gastric complaints, menorrhoea, stomach disorder, vomiting, bronchitis                                                                                                                                                   |
| 9.  | <i>Heracleum candicans</i> Wall.        | Padiyala           | H  | AP, St, Rt | Eczema, ring worm infection, leucoderma, menstrual disorder, piles                                                                                                                                                                  |
| 10. | <i>Selinum tenuifolium</i> Wall. ex DC. | Bhutkesi           | H  | WP         | Incense, insecticidal, nervine, sedative                                                                                                                                                                                            |
| 11. | <i>S. vaginatum</i> (Edgew.) Cl.        | Matoila            | H  | Rh, AP     | Nervine sedative, hysteria, dysmenorrhoeal, liquor preparation, skin disease                                                                                                                                                        |
|     | <b>Asteraceae</b>                       |                    |    |            |                                                                                                                                                                                                                                     |
| 12. | <i>Achillea millefolium</i> L.          | Chabu, Shugumentog | H  | Fl, WP     | Carminative, tonic, stimulant, toothache, cough, cold, insect repellent, aromatic, diaphoretic                                                                                                                                      |
| 13. | <i>Arctium lappa</i> L.                 | Pichawag           | H  | Rt         | Gastric, burns                                                                                                                                                                                                                      |
| 14. | <i>Artemisia nilagarica</i> (Cl.) Pamp. | Chirmara           | Sh | AP         | Abscess, analgesic, anthelmintic, antiseptic, antispasmodic, asthma, ear complaints, epilepsy, haemostat, headache, menstrual complaints, nervous disease, peptic ulcer, skin disease, sores, stomachache, tonic, vermifuge, wounds |
| 15. | <i>Echinops cornigerus</i> DC.          | Chawag             | H  | WP         | Cold, cough, promote teeth of infants, fever, urinary trouble, tonic, septic, food poisoning                                                                                                                                        |

|     |                                              |               |   |                   |                                                                                                                                                                                        |
|-----|----------------------------------------------|---------------|---|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 16. | <i>Galinsoga parviflora</i> Ruiz & Pav.      |               | H | WP                | Antidote to snake poison and nettle stings, checks bleeding                                                                                                                            |
| 17. | <i>Tagetes minuta</i> L.                     | Jungle gainda | H | WP                | Anthelmintic, antispasmodic, aromatic, diaphoretic, diuretic, purgative, stomachic, haemorrhoids, skin infections                                                                      |
| 18. | <i>Taraxacum officinale</i> Weber.           | Hand          | H | WP                | Healing, cuts, headache, fever, liver, kidney, digestive organs, jaundice, inflammation of the liver, appetite, food poisoning, antibiotic, tonic, blood purifier, hepatitis, migraine |
| 19. | <i>Sonchus oleraceus</i> L.                  | -             | H | Fl, AP, Lf, Latex | Febrifuge, jaundice, galactagogue, liver complaints, tonic                                                                                                                             |
| 20. | <i>Senecio graciliflorus</i> (L.) DC.        | Zerjum        | H | WP                | Antidote against insect bite, ring worm disease, pussied ear, poisonous to cattle                                                                                                      |
| 21. | <i>S. chrysanthemoides</i> DC.               | -             | H | WP                | Inflammation of mouth, sore throat                                                                                                                                                     |
|     | <b>Anacardiaceae</b>                         |               |   |                   |                                                                                                                                                                                        |
| 22. | <i>Pistacia integerrima</i> Stew. ex Brandis | Kakar singhi  | T | Fr, Wd            | Cough, cold, antiscorpion, snake bite                                                                                                                                                  |
| 23. | <i>Rhus javanica</i> L.                      | -             | T | Fr, Wd            | Cholera, gastric complaints, indigestion, purgative, skin disease, stomachache                                                                                                         |
|     | <b>Asparagaceae</b>                          |               |   |                   |                                                                                                                                                                                        |

|     |                                                |                |    |                |                                                                                                                                                               |
|-----|------------------------------------------------|----------------|----|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 24. | <i>Asparagus filicinus</i> Buch.-Ham ex Roxb.  | -              | Sh | Fr, Rt         | Antihelminthic, aphrodisiac, rheumatism, bleeding from nose, blood in urine, cough, diarrhoea, dysentery, febrifuge, gonorrhoea, headache, menstrual, gastric |
|     | <b>Berberidaceae</b>                           |                |    |                |                                                                                                                                                               |
| 25. | <i>Berberis aristata</i> DC.                   | Kashmal        | Sh | Rt, Fr, Wd     | Snake bite, boils, eye complaints                                                                                                                             |
| 26. | <i>B. asiatica</i> Roxb.                       | Kashmal        | Sh | WP             | Antidote to snake bite complaints, malaria, piles                                                                                                             |
| 27. | <i>B. lycium</i> Royle                         | -              | Sh | Rt, Fr, Lf, Wd | Dysentery, eye complaints, malaria, stomach diseases                                                                                                          |
|     | <b>Brassicaceae</b>                            |                |    |                |                                                                                                                                                               |
| 28. | <i>Thlaspi arvense</i> L.                      | Treka, Bulbuli | H  | WP             | Backache, pulmonary, renal disease gonorrhea, swollen testicles, cuts, rheumatism                                                                             |
|     | <b>Caryophyllaceae</b>                         |                |    |                |                                                                                                                                                               |
| 29. | <i>Cerastium cerastoides</i> (L.) Britton Mem. |                | H  | WP             | Backache, headache, renal pain, cough                                                                                                                         |
| 30. | <i>Silene edgeworthii</i> Bocquet              | Gandoli        | H  | AP, Lf         | Eye infection                                                                                                                                                 |
| 31. | <i>Stellaria media</i> (L.) Vill.              | -              | H  | AP             | Bone fracture, burns, boils, wounds                                                                                                                           |
|     | <b>Chenopodiaceae</b>                          |                |    |                |                                                                                                                                                               |
| 32. | <i>Chenopodium botrys</i> L.                   | Sokana         | H  | Lf, Fl         | Gastric disorder, headache due to gall bladder, liver disease, anthelmintic, diuretic, laxative                                                               |
| 33. | <i>C. album</i> L.                             | Bathua         | H  | Lf, Br         | Indigestion, constipation                                                                                                                                     |



|     |                                       |                |    |            |                                                                                                                                                                                                              |
|-----|---------------------------------------|----------------|----|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | <b>Cannabaceae</b>                    |                |    |            |                                                                                                                                                                                                              |
| 34. | <i>Cannabis sativa</i> L.             | Bhang          | H  | Sd, Br, St | Anthelmintic, appetite, bowel complaints, bronchitis, cuts, dyspepsia, ear, eye complaints, gonorrhoea, narcotic, piles, skin disorder, skin eruption, cold, cough, convulsions, cramps, epilepsy, laxative, |
|     |                                       |                |    |            | nervine stimulant, paralysis of tongue, sleeping pills, tetanus                                                                                                                                              |
|     | <b>Caprifoliaceae</b>                 |                |    |            |                                                                                                                                                                                                              |
| 35. | <i>Viburnum cotinifolium</i> D.Don    | Tallahna       | Sh | Fr, Wd, St | Menorrhoea                                                                                                                                                                                                   |
| 36. | <i>V. mullaha</i> Buch.-Ham. ex D.Don | Dabh           | Sh | Fr, Wd, St | Stimulant, stomachache                                                                                                                                                                                       |
|     | <b>Cuscutaceae</b>                    |                |    |            |                                                                                                                                                                                                              |
| 37. | <i>Cuscuta reflexa</i> L.             | Akash bel      | H  | WP         | Bodyache, burns, cuts, nervine weakness, swell of legs, body parts, veterinary, kills lice swellings of testicles, headache, wart                                                                            |
|     | <b>Cyperaceae</b>                     |                |    |            |                                                                                                                                                                                                              |
| 38. | <i>Carex obscura</i> Nees             |                | H  | AP         | Insect bite                                                                                                                                                                                                  |
|     | <b>Dioscoreaceae</b>                  |                |    |            |                                                                                                                                                                                                              |
| 39. | <i>Dioscorea deltoidea</i> Wall.      | Shingli mingli | Cl | Tu         | Source of diosgenin, sapogenin, oral contraceptive pills                                                                                                                                                     |
|     | <b>Ericaceae</b>                      |                |    |            |                                                                                                                                                                                                              |
| 40. | <i>Gaultheria trichophylla</i> Royle  |                | H  | Lf, Fr     | Cough, cold                                                                                                                                                                                                  |

|     |                                           |                                  |    |                |                                                                                                                         |
|-----|-------------------------------------------|----------------------------------|----|----------------|-------------------------------------------------------------------------------------------------------------------------|
| 41. | <i>Rhododendron campanulatum</i> D.Don    | Shargal                          | Sh | Rt, Lf, Fl     | Boils, cold, cough, headache, rheumatism, sciatica, skin disease, syphilis, tonic, fever                                |
| 42. | <i>R. arboreum</i> Sm.                    | Brass                            | T  | Fl, Lf         | Dysentery, fever, headache, rheumatism, wounds                                                                          |
| 43. | <i>Lyonia ovalifolia</i> Wall.            |                                  | T  | Ap             | Boils, pimples, skin eruptions, worms, wounds                                                                           |
|     |                                           |                                  |    |                |                                                                                                                         |
|     | <b>Elaeagnaceae</b>                       |                                  |    |                |                                                                                                                         |
| 44. | <i>Elaeagnus conferta</i> Roxb.           | -                                | Sh | Fr, AP, Lf, Sd | Cough, bronchitis, febrifuge, expectorant                                                                               |
|     | <b>Euphorbiaceae</b>                      |                                  |    |                |                                                                                                                         |
| 45. | <i>Ricinus communis</i> L.                | Arandi                           | H  | Sd             | Asthma, blood purifier, cough, chronic bronchitis, headache, hepatic disease, pneumonia fever, rheumatism, snuff        |
|     | <b>Fabaceae</b>                           |                                  |    |                |                                                                                                                         |
| 46. | <i>Trifolium repens</i> L.                | -                                | H  | AP             | Cough, bronchitis, venereal disease                                                                                     |
| 47. | <i>Trigonella emodi</i> Benth.            | Tuljima, Kuchona, Buksup, Ampang | H  | AP, Inf        | Aromatic, insect and pest repellants especially wood borer from bean plants, acts as poison when green shoots are eaten |
|     | <b>Gentianaceae</b>                       |                                  |    |                |                                                                                                                         |
| 48. | <i>Gentiana carinata</i> (D. Don) Griseb. | -                                | H  | WP             | Fever, headache                                                                                                         |
| 49. | <i>G. kurroo</i> Royle                    |                                  | H  | Rt             | Appetite, gastric, secretion, stomachic, fever, urinary complaints, cough, appetizer                                    |

|     |                                                                  |          |    |        |                                                                                                                        |
|-----|------------------------------------------------------------------|----------|----|--------|------------------------------------------------------------------------------------------------------------------------|
| 50. | <i>Gentianella moorcroftiana</i><br>(Wall.ex G.Don)<br>Airy Shaw |          | H  | AP     | Febrifuge, blood purifier,<br>fever, cough, rheumatism,<br>gastric                                                     |
| 51. | <i>Jaeschkea oligosperma</i><br>(Griseb.)Knobl.                  |          | H  | WP, AP | Febrifuge, blood purifier                                                                                              |
| 52. | <i>Swertia alternifolia</i><br>Royle                             |          | H  | Wp     | Laxative, stomchic, blood<br>disease                                                                                   |
| 53. | <i>S. angustifolia</i><br>Buch.-Ham.ex<br>D.Don                  | Chiraita | H  | WP     | Malarial fever                                                                                                         |
|     | <b>Geraniaceae</b>                                               |          |    |        |                                                                                                                        |
| 54. | <i>Geranium wallichianum</i> D.Don                               | Role     | H  | Rt     | Astringent, ear and eye<br>diseases, toothache                                                                         |
|     | <b>Hippocastanaceae</b>                                          |          |    |        |                                                                                                                        |
| 55. | <i>Aesculus indica</i><br>Coleb ex Wall.                         | Khanor   | T  | Lf, St | Anthelmintic, dislocated<br>joints, diuretic, leucorrhoea,<br>skin fissures, cracks,<br>veterinary medicine,<br>wounds |
|     | <b>Haemodoraceae</b>                                             |          |    |        |                                                                                                                        |
| 56. | <i>Ophiopogon intermedius</i> D. Don                             | -        | H  | Fr     | Boils, cuts, injuries,<br>rheumatism                                                                                   |
|     | <b>Hypericaceae</b>                                              |          |    |        |                                                                                                                        |
| 57. | <i>Hypericum uralum</i><br>Buch.                                 | Tumbhul  | Sh | Rt, Lf | Pimples, ringworm, fever,<br>urine complaints, sores                                                                   |
| 58. | <i>H. perforatum</i> L.                                          | Basant   | H  | WP     | Cuts, imunity, malarial<br>fever, anti-depressant, anti-<br>tumourous, anti-cancerous,<br>anti-viral                   |
| 59. | <i>H. oblongifolium</i><br>Choisy                                | Peol     | Sh | Rt, Ft | Boils, wounds                                                                                                          |

|     |                                             |               |    |            |                                                                                                     |
|-----|---------------------------------------------|---------------|----|------------|-----------------------------------------------------------------------------------------------------|
|     | <b>Juglandaceae</b>                         |               |    |            |                                                                                                     |
| 60. | <i>Juglans regia</i> L.                     | Akhrot        | T  | Br, Lf, Fr | Frost bite, rheumatism, sores of toes, toothache                                                    |
|     | <b>Lamiaceae</b>                            |               |    |            |                                                                                                     |
| 61. | <i>Ajuga bracteosa</i> Wall. ex Benth.      | Neelkanthi    | H  | Lf, WP     | Malarial fever, tonic, astringent, febrifuge                                                        |
| 62. | <i>Clinopodium vulgare</i> L.               |               | H  | AP         | Astringent, carminative, heart tonic                                                                |
| 63. | <i>Elsholtzia flava</i> Benth.              | -             | Sh | Fl         | Skin disease, diarrhoea, stomachache                                                                |
| 64. | <i>E. fruticosa</i> D. Don                  | -             | Sh | Lf, Fr, Sd | Relieve sciatica                                                                                    |
| 65. | <i>Nepeta eriostachya</i> Benth.            |               | H  | WP         | Eyes, diuretic                                                                                      |
| 66. | <i>Salvia moorcroftiana</i> Wall.           | -             | H  | Rt         | Astringent, emetic, poultice                                                                        |
| 67. | <i>Roylea cinerea</i> D. Don                | Kadu          | Sh | Lf         | Blood purifier, fever, pimples, snuff in tonsils                                                    |
| 68. | <i>Prunella vulgaris</i> L.                 | Syangave      | H  | WP         | Breathing problem, cerebral complaints, cold, fever, gastric complaints, headache, liver complaints |
| 69. | <i>Phlomis bracteosa</i> Royle              | Jamtikle      | H  | Fl, AP     | Eye tonic, common in household remedies                                                             |
| 70. | <i>Origanum vulgare</i> L.                  | Ban tulsi     | H  | Lf, AP     | Antiseptic, bronchitis, colic, diarrhoea, bath to ladies after child birth                          |
| 71. | <i>Plectranthus rugosus</i> Wall. ex Benth. | Shain         | H  | Lf         | Abdominal pain, fever, worms, gastric                                                               |
| 72. | <i>Mentha longifolia</i> L.                 | Jangli Pudina | H  | WP         | Antiseptic, carminative, digestive, on wound to kill maggots                                        |

|     |                                                  |               |    |            |                                                                                                                                                                                                                                                                                                          |
|-----|--------------------------------------------------|---------------|----|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 73. | <i>Thymus linearis</i> Benth.                    | Ban jawain    | Sh | WP         | Antifungal, antibacterial, pain reliever during childbirth to mother, whooping cough, epilepsy, skin eruption, reduce excessive bile secretion, juice, alopecia or hair loss, spices phlegm counter spasmodic pains, stomach complaint, cold, toothache, kill hookworms, liver compliant, heating effect |
|     | <b>Liliaceae</b>                                 |               |    |            |                                                                                                                                                                                                                                                                                                          |
| 74. | <i>Cardiocrinum giganteum</i> (Wall.) Makino     | Bhuj Pokhri   | H  | Bb, Lf, St | Antiseptic, wounds, bruises                                                                                                                                                                                                                                                                              |
| 75. | <i>Lilium polyphyllum</i> D.Don ex Royle         | Kakoli        | H  | Bb         | Refrigerant, galactagogue, expectorant, diuretic, aphrodisiac, antipyretic, tonic                                                                                                                                                                                                                        |
| 76. | <i>Nomocharis oxypetalum</i> (Royle) E. H. Wils. | Sheerkakoli   | H  | Bb         | Asthma, antirheumatic, febrifuge, galactagogue, tuberculosis, haemostatic, ophthalmic, oxytocic                                                                                                                                                                                                          |
| 77. | <i>Polygonatum verticillatum</i> L.              | Salam misari  | H  | Rh, Tu     | Appetite, nervine tonic, kidney trouble, wounds                                                                                                                                                                                                                                                          |
| 78. | <i>P. multiflorum</i> L.                         |               | H  | Tu, AP     | Tonic, urino-genital disorders                                                                                                                                                                                                                                                                           |
| 79. | <i>P. cirrhifolium</i> Wall.                     | Salaam misari | H  | Tu, Rt, Lf | Aphrodisiac, appetite, blood purifier, nervine tonic, fever, tonic                                                                                                                                                                                                                                       |
| 80. | <i>Paris polyphylla</i> Sm.                      | Satwa, Kakoli | H  | Tu         | Diarrhoea, fever, Febrifuge, analgesic, antiphlogistic, antispasmodic, antitussive, depurative, narcotic, snake bite, ulcer, antibacterial                                                                                                                                                               |
|     | <b>Loranthaceae</b>                              |               |    |            |                                                                                                                                                                                                                                                                                                          |

|     |                                |              |    |        |                                                                        |
|-----|--------------------------------|--------------|----|--------|------------------------------------------------------------------------|
| 81. | <i>Viscum album</i> L.         | Rinni        | Sh | Lf, WP | Abortifacient, antifertility, bodyache, piles, ulcer, urine complaints |
|     | <b>Malvaceae</b>               |              |    |        |                                                                        |
| 82. | <i>Malva verticillata</i> L.   | Chiroti      | H  | WP     | Cough, emollient pectoral complaints, piles, ulcer, urine complaints   |
| 83. | <i>M. sylvestris</i> L.        | Sotsal       | H  | WP     | Stomach cramp, whooping cough, Piles, ulcer, urine complaints          |
|     | <b>Morinaceae</b>              |              |    |        |                                                                        |
| 84. | <i>Morina longifolia</i> Wall. | Biskandare   | H  | Rt     | Boils, wounds, burnt, unconsciousness                                  |
|     |                                |              |    |        |                                                                        |
|     | <b>Moraceae</b>                |              |    |        |                                                                        |
| 85. | <i>Ficus palmata</i> Forssk.   | Fegra        | T  | Fr, Lf | Dysentery, indigestion, laxative                                       |
|     | <b>Myrsinaceae</b>             |              |    |        |                                                                        |
| 86. | <i>Myrsine africana</i> L.     | -            | Sh | AP     | Cathartic, colic pain, vermifuge                                       |
|     | <b>Nyctaginaceae</b>           |              |    |        |                                                                        |
| 87. | <i>Mirabilis jalapa</i> L.     | Chandrakanti | H  | Rt, Lf | Blisters, boils, cold at child birth, piles                            |
| 88. | <i>Boerhaavia diffusa</i> L.   | -            | H  | WP     | Diuretic, laxative, expectorant, asthma, jaundice, oedema              |
|     | <b>Onagraceae</b>              |              |    |        |                                                                        |
| 89. | <i>Epilobium hirsutum</i> L.   |              | H  | AP     | Poisonous to cattle                                                    |
|     | <b>Orchidaceae</b>             |              |    |        |                                                                        |

|      |                                               |        |    |            |                                                                                                              |
|------|-----------------------------------------------|--------|----|------------|--------------------------------------------------------------------------------------------------------------|
| 90.  | <i>Calanthe tricarinata</i> Lindl.            | -      | H  | Lf, Bb     | Sores, eczema, aphrodisiac                                                                                   |
| 91.  | <i>Malaxis muscifera</i> (Lindl.) Ktze.       |        | H  | Rt         | General tonic                                                                                                |
| 92.  | <i>Epipactis heleborine</i> (L.) Crantz       | -      | H  | Lf, Rh     | Fever, blood purification, aphrodisiac                                                                       |
| 93.  | <i>Goodyera repens</i> (L.) R.Br.             | -      | H  | AP         | Syphilis, blood purifier                                                                                     |
| 94.  | <i>Habenaria edgeworthii</i> Hk.f. ex Collett | -      | H  | Tu         | Blood purifier, rejuvenator                                                                                  |
| 95.  | <i>Herminium lanceum</i> Thunb. ex Sw.        | -      | H  | AP         | Urinary problems                                                                                             |
|      | <b>Oleaceae</b>                               |        |    |            |                                                                                                              |
| 96.  | <i>Syringa emodii</i> Wall. ex Royle          | -      | Sh | Sd, Fl, Lf | Fever, Stomach disorder                                                                                      |
| 97.  | <i>Jasminum humile</i> L.                     | Sungli | Sh | Br, Rt, Fl | Sinus, skin disorder, blood, heart disease                                                                   |
| 98.  | <i>J. officinale</i> L.                       | Juhi   | Sh | Fl, Lf, Rt | Ringworm                                                                                                     |
|      | <b>Oxalidaceae</b>                            |        |    |            |                                                                                                              |
| 99.  | <i>Oxalis acetosella</i> L.                   | Malori | H  | WP         | Cooling, cough, cuts, diarrhoea, digestive, dysentery, fever, insect bite, scurvy, skin disease, stomachache |
| 100. | <i>O. corniculata</i> L.                      | Malori | H  | WP         | Appetite, cooling, diarrhoea, digestive, dysentery, scurvy, skin disease, stomachache, swelling, wart        |

|      |                                        |           |   |         |                                                                                                                                                                                                                                      |
|------|----------------------------------------|-----------|---|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 101. | <i>O. latifolia</i> Kunth              | Malori    | H | WP      | Cooling, cough, cuts, diarrhoea, digestive, dysentery, fever, stomachache                                                                                                                                                            |
|      | <b>Podophyllaceae</b>                  |           |   |         |                                                                                                                                                                                                                                      |
| 102. | <i>Podophyllum hexandrum</i> Royle     | Ban kakri | H | WP      | Cough, purgative, chronic, constipation, tuberculosis, hepatic, stimulant, vermifuge, kill worms, gynecological disorder, skin disease as warts, tumors, cancer, childbirth, cuts, wounds, diarrhoea, gastric ulcer, hepatic disease |
|      | <b>Poaceae</b>                         |           |   |         |                                                                                                                                                                                                                                      |
| 103. | <i>Eragrostis minor</i> Host.          |           | H | Rt, AP  | Stomach complaints                                                                                                                                                                                                                   |
| 104. | <i>Cymbopogon distans</i> (Nees) Wats. | -         | H | Sd, Inf | Cough, cold                                                                                                                                                                                                                          |
| 105. | <i>C. martinii</i> (Roxb.) Wats.       | -         | H | Lf, Oil | Biliousness, rheumatism, skin disease                                                                                                                                                                                                |
| 106. | <i>Cyanodon dactylon</i> L.            | Durba     | H | WP      | Antifertility, carbuncle, cramps, cooling cramps, dropsy, dysentery, hysteria, headache, menstrual complaints, ophthalmia, piles, snake bite, sores, stop bleed tonic, ulcers in stomach, urinary complaints, vomiting, wounds       |
|      | <b>Polygalaceae</b>                    |           |   |         |                                                                                                                                                                                                                                      |
| 107. | <i>Polygala abyssinica</i> L.          | -         | H | Rt      | Cold, cough, diuretic, bronchitis                                                                                                                                                                                                    |
|      | <b>Polygonaceae</b>                    |           |   |         |                                                                                                                                                                                                                                      |



|      |                                                 |              |   |               |                                                                                                                                           |
|------|-------------------------------------------------|--------------|---|---------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| 108. | <i>Bistorta amplexicaulis</i><br>(D.Don) Greene | Dori ghass   | H | Rt, Rh,<br>Lf | Cough, dysentery,<br>haemostasis, tonic                                                                                                   |
| 109. | <i>Rumex nepalensis</i><br>Spreng.              | Malora,      | H | Lf, Rt        | Boils, colic, cooling,<br>diuretic, dymenorrhoea,<br>purgative, scurvey,<br>swelling of muscle,<br>stomachache                            |
| 110. | <i>R. hastatus</i> D.Don                        | Bilmora      | H | Lf            | Cuts, wounds, anti-nettle<br>sting                                                                                                        |
| 111. | <i>Rheum australe</i><br>D.Don                  | Dolu, chuche | H | St, Lf,<br>AP | Abdominal pain, appetite,<br>asthma, bronchitis, fever,<br>cuts, dysentery, laxative,<br>eye disorder, sprain,<br>swelling, ulcer, wounds |
|      | <b>Plantaginaceae</b>                           |              |   |               |                                                                                                                                           |
| 112. | <i>Plantago depressa</i><br>Willd.              | Thram        | H | WP            | Cure dysentery, wounds,<br>piles, infant health                                                                                           |
| 113. | <i>P. himalaica</i> Pilger                      |              | H | WP            | Diarrhoea, dysentery,<br>sedative, headache, lumber<br>pain, renal colic and<br>backache                                                  |
|      |                                                 |              |   |               |                                                                                                                                           |
|      | <b>Primulaceae</b>                              |              |   |               |                                                                                                                                           |
| 114. | <i>Primula denticulata</i><br>Sm.               |              | H | AP, Fl,<br>Rt | Diabetes, headache,<br>appetizer, liver problem,<br>giddiness, pulmonary<br>disease, urinary ailments,<br>kill lice                       |
| 115. | <i>P. rosea</i> Royle                           |              | H | Rt            | Muscular pain                                                                                                                             |
|      | <b>Punicaceae</b>                               |              |   |               |                                                                                                                                           |

|      |                                                      |         |    |                   |                                                                                                                                                |
|------|------------------------------------------------------|---------|----|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| 116. | <i>Punica granatum</i> L.                            | Anaar   | T  | Rt, St,<br>Fr, Lf | Antihelminthic, checks<br>bleeding of child birth and<br>miscarriage, cholera,<br>cooling, dysentery, eye<br>problems, pimples,<br>stomachache |
|      | <b>Phytolacaceae</b>                                 |         |    |                   |                                                                                                                                                |
| 117. | <i>Phytolacca acinosa</i><br>Roxb.                   | Jharka  | H  | Lf,Rt             | Stomach cramps,<br>dysentery, wounds, cattle<br>pneumonia, local beverages                                                                     |
|      | <b>Rosaceae</b>                                      |         |    |                   |                                                                                                                                                |
| 118. | <i>Agrimonia pilosa</i><br>Ledlb.                    | Kuri    | H  | Ap, Rt            | Cough, diarrhoea, urinary<br>problems                                                                                                          |
| 119. | <i>Fragaria nubicola</i><br>Lindl. ex Lacaita        | Bumbra  | H  | Fr                | Earache                                                                                                                                        |
| 120. | <i>Prinsepia utilis</i><br>Royle                     | Bhekal  | Sh | Sd                | Burns, cuts, rheumatic                                                                                                                         |
| 121. | <i>Potentilla<br/>argyrophylla</i> Wall.<br>ex Lehm. |         | H  | Rt,Fl             | Angina pectoris, toothache,<br>gingivitis, wound as<br>analgesic                                                                               |
| 122. | <i>P. fruticosa</i> Lim.                             | Bhumbal | Sh | AP                | Astringent                                                                                                                                     |
| 123. | <i>Geum elatum</i> Wall.                             |         | H  | Rt                | Astringent, dysentery,<br>diarrhoea                                                                                                            |
| 124. | <i>Rubus ellipticus</i><br>Sm.                       | Aakh    | Sh | Fr, Rt            | Dysentery, malaria,<br>stomachache, worms                                                                                                      |
| 125. | <i>R. biflorus</i> Buch.-<br>Ham. ex Sm.             | Aachhe  | Sh | Fr, Rt            | Diarrhoea                                                                                                                                      |
| 126. | <i>R. niveus</i> Thunb.                              | Anchha  | Sh | Fr, Rt,<br>Lf     | Stomachache                                                                                                                                    |
| 127. | <i>Prunus cornuta</i><br>(Wall. ex Royle)<br>Steud.  | Jammu   | T  | Lf, Fr,<br>Wd     | Rheumatism, wounds                                                                                                                             |

|      |                                             |             |    |            |                                                                                                                     |
|------|---------------------------------------------|-------------|----|------------|---------------------------------------------------------------------------------------------------------------------|
| 128. | <i>Pyrus pashia</i> Buch.-Ham. D.Don        |             | T  | Lf,Fr      | Eye disorder, digestive disorders                                                                                   |
| 129. | <i>Rosa moschata</i> Lindl.                 | Kuja        | Sh | Lf,Fl,AP   | Wounds, ophthalmia, diarrhoea                                                                                       |
| 130. | <i>R. sericea</i> Lindl.                    | Shami       | Sh | Fl, Rt, Fr | Uterine disorders                                                                                                   |
| 131. | <i>Sorbaria tomentosa</i> (Lindl.) Rehder   | Chhattayee  | Sh | Wd, St     | Asthma                                                                                                              |
| 132. | <i>Sorbus aucuparia</i> L.                  |             | Sh | Fr         | Cough, cold                                                                                                         |
| 133. | <i>Spiraea canescens</i> D.Don              | Kati ,Sagal | Sh | Br, St     | Sores, wounds                                                                                                       |
|      | <b>Ranunculaceae</b>                        |             |    |            |                                                                                                                     |
| 134. | <i>Anemone obtusiloba</i> D. Don            |             | H  | Rt,Sd      | Menorrhoea, rheumatism, purgative, cooling                                                                          |
| 135. | <i>Aconitum heterophyllum</i> Wall.ex Royle | Patish      | H  | Rt         | Anthelmintic, cold, cough, diarrhoea, dyspepsia, fever, gall bladder, abdominal pain, gastric, piles, vomits, worms |
| 136. | <i>Ranunculus diffusus</i> DC.              |             | H  | WP         | Boils                                                                                                               |
| 137. | <i>R. hirtellus</i> Royle                   | Goodi       | H  | AP         | Counter irritant, anthelmintic, vermifugal, cooling, emoll, wounds                                                  |
| 138. | <i>Thalictrum alpinum</i> L.                |             | H  | Rt,Lf      | Fever                                                                                                               |
| 139. | <i>T. foliolosum</i> DC.                    | Mamiri      | H  | Rt         | Abdominal pain, blood purification, boils, earache, eczema, eye disease, fever, luecodermia, piles,                 |
|      |                                             |             |    |            | rheumatism, gout, tonic, toothache                                                                                  |
| 140. | <i>T. reniforme</i> Wall.                   | Mamiri      | H  | Rt         | Cataract                                                                                                            |

|      |                                 |            |    |                |                                                                                                                                                                                           |
|------|---------------------------------|------------|----|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | <b>Rhamnaceae</b>               |            |    |                |                                                                                                                                                                                           |
| 141. | <i>Rhamnus purpureus</i> Edgew. | Chaunsha   | Sh | St, Fr, Lf, Wd | Digestive disorders                                                                                                                                                                       |
| 142. | <i>R. virgatus</i> Roxb.        |            | H  | St,Fr,Br       | Emetic, purgative, eczema, ringworm, affection of spleen                                                                                                                                  |
|      | <b>Rubiaceae</b>                |            |    |                |                                                                                                                                                                                           |
| 143. | <i>Rubia cordifolia</i> L.      | Jamithi    | H  | St, Rt, Lf     | Antidote to scorpion bite and snake bite, astringent, chest complaints, leucoderma, inflammation, jaundice, liver complaints, paralysis, menorrhoea, urine complaints, ulcer, stomachache |
| 144. | <i>Galium aparine</i> L.        |            | H  | Lf, WP         | Astringent, skin disease                                                                                                                                                                  |
| 145. | <i>G. acutum</i> Edgew.         | -          | H  | WP             | Antiscorbic, diuretic, skin disease                                                                                                                                                       |
|      | <b>Rutaceae</b>                 |            |    |                |                                                                                                                                                                                           |
| 146. | <i>Zanthoxylum armatum</i> DC.  | Tirmira    | Sh | Br, St, Lf, Sd | Anthelmintic, carminative, cough, cholera, fever, eczema, itching, leucoderma, piles, rheumatism, small pox, snake bite, stomachache, indigestion, tonic, tooth complaints                |
|      | <b>Saxifragaceae</b>            |            |    |                |                                                                                                                                                                                           |
| 147. | <i>Bergenia stracheyi</i> Hook. | Pashanbhed | H  | Rt, Lf         | Kidney stone, poultice, stiff joint, diuretic, antiscorbutic, astringent, fever, ophthalmia, tonic, cuts, wounds                                                                          |

|      |                                         |                         |    |            |                                                                                                                                                                                                             |
|------|-----------------------------------------|-------------------------|----|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 148. | <i>B. ligulata</i> (Wall.) Engl.        | Pashanbhed              | H  | Rt, Lf     | Asthma, boils, cuts, wounds, burns, fever, liver complaints, ophthalmia, piles, thirst, kidney stones, urine complaints, diarrhoea of cattle                                                                |
|      | <b>Scrophulariaceae</b>                 |                         |    |            |                                                                                                                                                                                                             |
| 149. | <i>Euphrasia himalayica</i> Wettst.     |                         | H  | Lf         | Eye disorder                                                                                                                                                                                                |
| 150. | <i>Verbascum thapsus</i> L.             | Kolomasta, Janglitamaku | H  | Lf, AP, Sd | Asthma, cough, diarrhoea, dysentery of sheep, poultice, skin disease, narcotic, fish poisoning, ear infection,                                                                                              |
|      | <b>Solanaceae</b>                       |                         |    |            |                                                                                                                                                                                                             |
| 151. | <i>Datura stramonium</i> L.             | Datura                  | H  | Lf, Sd, Fr | Dislocation of joints, jaundice, rheumatism, stomachache, toothache, veterinary lactation                                                                                                                   |
| 152. | <i>Solanum nigrum</i> L.                | Makoy                   | H  | WP         | Antidote to opium toxic, boils, cough, diarrhoea, dysentery, ear and eye problems, fever, goiter, testicles, kidney, bladder, piles, rheumatism, sprain, stomachache, swell, throat trouble, ulcer in mouth |
|      | <b>Thymeleaceae</b>                     |                         |    |            |                                                                                                                                                                                                             |
| 153. | <i>Wikstroemia canescens</i> Meissn.    | Bhojishel               | Sh | Lf, Br     | Piscicidal                                                                                                                                                                                                  |
| 154. | <i>Daphne papyracea</i> Wall. ex Steud. | Jangli mirch            | Sh | Rt, Lf     | Intestinal complaints                                                                                                                                                                                       |
|      | <b>Urticaceae</b>                       |                         |    |            |                                                                                                                                                                                                             |

|      |                                          |                  |    |                    |                                                                                                                                          |
|------|------------------------------------------|------------------|----|--------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 155. | <i>Urtica dioica</i> L.                  | Kungsh,<br>aahan | H  | Lf                 | Blood purifier, jaundice,<br>skin eruption, astringent,<br>dog bite wounds, kidney<br>disease, postnatal tonic,<br>throat pain, tonic    |
| 156. | <i>U. parviflora</i> Roxb.               | Aahan            | Sh | Sd, Lf,<br>Inf, Rt | Fever                                                                                                                                    |
| 157. | <i>Girardinia<br/>diversifolia</i> Link. | Jarahan          | H  | Br, Lf             | Gonorrhoea, Bone<br>fracture, muscle crape                                                                                               |
|      | <b>Violaceae</b>                         |                  |    |                    |                                                                                                                                          |
| 158. | <i>Viola biflora</i> L.                  | Bunufsha         | H  | Lf, Fl,<br>Sd      | Antiseptic, antispasmodic,<br>cold, cough, diaphoretic,<br>laxative, leucoderma, skin<br>disease                                         |
| 159. | <i>V. pilosa</i> L.                      |                  | H  | WP                 | Antipyretic, bilious, cold,<br>cough, diaphoretic, fever,<br>headache, lung disorder,<br>purgative                                       |
| 160. | <i>V. canescens</i> Wall.                | Banfsa           | H  | Lf, Fl,<br>Rt      | Asthma, bronchitis, cold,<br>cough, eye disorder,<br>malarial fever, emetic,<br>demulcent, cuts, wound                                   |
|      | <b>Valerianaceae</b>                     |                  |    |                    |                                                                                                                                          |
| 161. | <i>Valeriana<br/>hardwickii</i> Wall.    | Mushakbala       | H  | Rt                 | Antidote to poisonous<br>stings of insects, scorpion,<br>epilepsy, hysteria, neurosis,<br>skin disease, insecticides,<br>mental disorder |
| 162. | <i>V. jatamansi</i> Jones                | Nihani           | H  | Rt                 | Aphrodisiac, mental<br>disorder, local beverage,<br>aromatic, insecticide                                                                |
|      | <b>Zingiberaceae</b>                     |                  |    |                    |                                                                                                                                          |
| 163. | <i>Roscoea procera</i><br>J.E.Sm.        | -                | H  | Rt                 | Veterinary diseases                                                                                                                      |

|      |                                   |           |   |    |                                                |
|------|-----------------------------------|-----------|---|----|------------------------------------------------|
| 164. | <i>R. alpina</i> Royle            | Musli     | H | WP | Tonic, veterinary wounds, cuts                 |
| 165. | <i>Hedychium spicatum</i> J.E.Sm. | Ban haldi | H | Rh | Asthma, blood purification, bronchitis, nausea |

**Abbreviations used:** T= tree; Sh= shrub; H=Herb; F= Fern; Lf= Leaf; Br= Bark; Wp= Whole Plant; Fl= Flower; Tu=Tuber; Fr= Fruit; Sd= Seed; Wd= Wood; Inf= Inflorescence; St= Stem; AP=Aerial part; Bb=Bulb; Rh= Rhizome.

## II. FAUNA (ANIMAL DIVERSITY)

Out of total 89,500 animal species of the country, Himachal Pradesh possesses a little more than 7 % of the total fauna. This shows richness of the faunal resources of the state considering its small geographical area which is only about 1.7 % of the country. Insects and other arthropods form a predominant group (4641 species) among invertebrates, whereas vertebrates are dominated by birds comprising about 447 (around 600, revised) species (Mattu and Thakur, 2005; Thakur and Mattu, 2012; Thakur and Kataria, 2012; Negi *et al.*, 2015; Thakur, 2014, 2015; Thakur *et al.*, 2014; Thakur and Negi, 2015).

| The Value of Biodiversity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>A network of marine protected areas, with the aim of conserving 20%-30% of the seas and oceans, could cost between \$5bn and \$19bn, but help to safeguard \$70bn to \$80bn worth of fish catches, and the provision of marine ecosystem services valued at \$4.5 to \$6.7 trillion annually.</li> </ul>                                                                                                                                                                                                 |
| <ul style="list-style-type: none"> <li>The annual economic median value of fisheries supported by mangrove habitats in the Gulf of California has been estimated at \$37,500 per hectare of mangrove fringe. The value of mangroves as coastal protection may be as much as \$300,000 per kilometre of coastline.</li> </ul>                                                                                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>Nature-based tourism in Africa generates approximately the same amount of revenue as farming, forestry and fisheries combined.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                |
| <ul style="list-style-type: none"> <li>The national parks of Canada store 4.43 gigatonnes (billion metric tonnes) of carbon, a service worth between \$11bn and \$2.2 trillion depending on the price of carbon in the market. The protected areas of Mexico store 2.45 gigatonnes of carbon dioxide equivalent-more than five years of Mexico's carbon dioxide emissions in 2004, and valued at \$12.2 billion.</li> </ul>                                                                                                                     |
| <ul style="list-style-type: none"> <li>A report in 2003 estimated the total value of annual benefits of the United Kingdom's forests to its people to be around £1 billion. They included recreation (£393 m), biodiversity (£386 m), landscape (£150 m) and carbon sequestration (£94 m). The estimate, carried out by Britain's Forestry Commission, did not include values such as the contribution of forests to the supply and quality of fresh water, the cleansing of pollutants from the air, and reduction of soil erosion.</li> </ul> |
| <ul style="list-style-type: none"> <li>The Great Barrier Reef is estimated to contribute nearly 6 billion Australian Dollars to the country's economy, counting only the value of tourism, other recreational activities and commercial fishing.</li> </ul>                                                                                                                                                                                                                                                                                     |

Source: <https://www.cbd.int/2010/biodiversity/> (downloaded on 19.06.2015 at 11:57 IST)



Details of various animal groups reported are as under:

### 1. Damsel and Dragonflies (Insecta: Odonata)

Odonates commonly known as damsel and dragonflies are amphibiotic insects. They spend a major part of their life cycle in freshwater ecosystem i.e. from oviposition to larval stage. Adults are flying insects, but relatively of short life. Moreover, adults are large predacious insects while larvae are carnivorous and voracious feeders (Prasad, 1998).

This order is represented by 37 families clubbed under 3 suborders namely, Zygoptera, Anisozygoptera and Anisoptera. Approximately 6,000 species and subspecies belonging to 630 genera in 28 families are known from all over the world (Prasad, 1998). This group in India is represented by 499 species and subspecies under 139 genera in 17 families, 32 subfamilies and 7 superfamilies (Prasad and Varshney, 1995). The dragonflies of western Himalayas have been catalogued by Kumar and Prasad (1981) and Kumar (1995) and reported as many as 162 taxa. Kumar (2005) has reported 77 species of Odonata from Himachal Pradesh.

#### A) Bajeer Baori, Forest Range Arsoo

A total of 10 species of damsel and dragonflies have been reported from the present site in Anni Forest Division.

**Table 6: Damsel and Dragonflies reported in Bajeer Baori compartment**

| S.No.                          | Taxon                                  |
|--------------------------------|----------------------------------------|
| <b>Order: Odonata</b>          |                                        |
| <b>Suborder: Zygoptera</b>     |                                        |
| <b>Family: Platycnemididae</b> |                                        |
| 1.                             | <i>Calicnemia eximia</i> Selys         |
| <b>Family: Synlestidae</b>     |                                        |
| 2.                             | <i>Megalestes major</i> Selys          |
| <b>Family: Cholorocyphidae</b> |                                        |
| 3.                             | <i>Rhinocypha t. trifasciata</i> Selys |
| <b>Family: Epallagidae</b>     |                                        |

|                               |                                              |
|-------------------------------|----------------------------------------------|
| 4.                            | <i>Anisopleura comes</i> Selys               |
| <b>Family: Calopterygidae</b> |                                              |
| 5.                            | <i>Neurobasis ch. chinensis</i> (Linn.)      |
| <b>Suborder: Anisoptera</b>   |                                              |
| <b>Family: Gomphidae</b>      |                                              |
| 6.                            | <i>Mesogomphus lineatus</i> (Selys)          |
| 7.                            | <i>Nepogomphus modestus</i> (Selys)          |
| <b>Family: Aeshnidae</b>      |                                              |
| 8.                            | <i>Anax immaculifrons</i> Ramb.              |
| <b>Family: Libellulidae</b>   |                                              |
| 9.                            | <i>Orthetrum pruinatum neglectum</i> (Ramb.) |
| 10.                           | <i>Trithemis pallidenervis</i> (Kirby)       |

## 2. Butterflies (Insecta: Lepidoptera: Rhopalocera)

Butterflies and moths have been placed under the order Lepidoptera of class Insecta. This order includes scale-winged insects of holometabolus endopterygote series. This includes butterflies and moths. The members are of great value both for conservation and for environmental planning in local scale (Mondal, 1998).

Hampson (1918) estimated as many as 89 families and subfamilies of Lepidoptera, while Hamlyn (1969) reported about 1,40,000 species comprising 13,000 butterflies and 1,27,000 moths from world (Alfred *et al.*, 1998). A recent estimate shows the occurrence of about 1,42,500 species of Lepidoptera from globe. These estimates for Indian subregion revealed some 15,000 species distributed over 84 families and 18 superfamilies (Mondal, 1998).

Out of 84 families and 18 superfamilies of the order available in Indian subregion, the butterflies belong to 5 major families placed under 2 superfamilies, these constitute about 10 % of the total faunal species. A total of 123 species of butterflies are considered as endangered in India (Mondal, 1998). Many workers have studied the butterflies from Himalayas like Moore (1882), Marshall and de Niceville (1882-1890), De Rhe-Philipe (1931), Evans (1932), Talbot (1939, 1947), Wynter-Blyth (1940-46 & 1957), Mani (1986), Thakur *et al.* (2002) and Thakur *et al.*

(2006). Arora *et al.* (2005) have compiled a comprehensive list of 288 species of butterflies so far reported till today from Himachal Pradesh.

#### A) Bajeer Baori, Forest Range Arsoo

Present explorations revealed the presence of 21 species of butterflies spread over 17 genera and 5 families in Bajeer Baori forest compartment in Aweri Beat of Nirmand Block, Arsoo Forest Range, Anni Forest Division.

**Table 7: Butterflies reported in Bajeer Baori compartment**

| S.No.                       | Taxon                                            | Common Name                 |
|-----------------------------|--------------------------------------------------|-----------------------------|
| <b>Family: Papilionidae</b> |                                                  |                             |
| 1.                          | <i>Atrophaneura philoxenus</i> (Gray)            | Common Windmill             |
| 2.                          | <i>Graphuim sarpedon luetatius</i> (Fruhstorfer) | Common Bluebottle           |
| 3.                          | <i>Papilio demoleus demoleus</i> Linn.           | Lime Swallowtail            |
| 4.                          | <i>Papilio protenor protenor</i> Cramer          | The Spangle                 |
| 5.                          | <i>Papilio polyctor polyctor</i> Boisduval       | Common Peacock              |
| 6.                          | <i>Papilio polytes romulus</i> Cramer            | Common Mormon               |
| <b>Family: Pieridae</b>     |                                                  |                             |
| 7.                          | <i>Catopsilia crocale</i> (Cramer)               | Common Emigrant             |
| 8.                          | <i>Colias erate erate</i> (Esper)                | Eastern Pale Clouded Yellow |
| 9.                          | <i>Delias eucharis</i> (Drury)                   | Common Jezebel              |
| 10.                         | <i>Eurema laeta laeta</i> (Boisduval)            | Spotless Grass Yellow       |
| 11.                         | <i>Gonepteryx rhamni nepalensis</i> Doubleday    | Himalayan Common Brimstone  |
| <b>Family: Danaidae</b>     |                                                  |                             |
| 12.                         | <i>Danaus chrysippus</i> (Linnaeus)              | Plain Tiger                 |
| 13.                         | <i>Danaus genutia</i> (Cramer)                   | Common Tiger                |
| 14.                         | <i>Euploea core eore</i> (Cramer)                | Common Crow                 |
| 15.                         | <i>Parantia aglea melanoides</i> Moore           | Glassy Tiger                |
| <b>Family: Satyridae</b>    |                                                  |                             |
| 16.                         | <i>Auloeera brahminus brahminus</i> (Blanchard)  | Narrow-banded Satyr         |
| 17.                         | <i>Ypthima sakra nikaea</i> Moore                | West Himalayan Five-ring    |

|                           |                                    |                        |
|---------------------------|------------------------------------|------------------------|
| 18.                       | <i>Hypolimnas bolina</i> (Linn.)   | Varied Eggfly          |
| 19.                       | <i>Vanessa indica</i> (Herbst)     | Indian Red Admiral     |
| <b>Family: Lycaenidae</b> |                                    |                        |
| 20.                       | <i>Curetis acuta dentate</i> Moore | The Angled Sunbeam     |
| 21.                       | <i>Spindasis ictis</i> Hewitson    | Common Shot Silverline |

## B) Chowai, Forest range Chowai

Present explorations revealed the presence of 17 species of butterflies belonging to 17 genera spread over 7 families from the thickly wooded area compartment of Chowai beat in Anni Forest Division.

**Table 8: Butterflies reported in Chowai compartment**

| S.No.                       | Taxon                                        | Common Name            |
|-----------------------------|----------------------------------------------|------------------------|
| <b>Family: Papilionidae</b> |                                              |                        |
| 1.                          | <i>Atrophaneura dasarada ravana</i> (Moore)  | Great Windmill         |
| 2.                          | <i>Papilio polyctor polyctor</i> Boisduval   | Common Peacock         |
| 3.                          | <i>Parnassius hardwickei hardwickei</i> Gray | Common Blue Apollo     |
| <b>Family: Pieridae</b>     |                                              |                        |
| 4.                          | <i>Catopsilia crocale</i> (Cramer)           | Common Emigrant        |
| 5.                          | <i>Pieris brassicae nepalensis</i> Doubleday | Cabbage Butterfly      |
| <b>Family: Danaidae</b>     |                                              |                        |
| 6.                          | <i>Danaus chrysippus</i> (Linnaeus)          | Plain Tiger            |
| 7.                          | <i>Euploea muleiber mulciber</i> (Cramer)    | Striped Blue Crow      |
| 8.                          | <i>Parantica aglea melanoides</i> Moore      | Glassy Tiger           |
| <b>Family: Satyridae</b>    |                                              |                        |
| 9.                          | <i>Aulocera padma padma</i> (Kollar)         | Great Satyr            |
| 10.                         | <i>Lasiommata schakra</i> (Kollar)           | Kumaon Common Wall     |
| 11.                         | <i>Mycalesis mineus mineus</i> (Linn.)       | Dark-branded Bushbrown |
| 12.                         | <i>Zophoessa jalaurida</i> deN.              | Small Silverfork       |
| 13.                         | <i>Childrena childreni</i> (Gray)            | Himalayan fritillary   |
| 14.                         | <i>Neptis hylas astola</i> Moore             | Common Sailor          |

|                           |                                      |               |
|---------------------------|--------------------------------------|---------------|
| <b>Family: Acraeidae</b>  |                                      |               |
| 15.                       | <i>Acraea issoria anomala</i> Kollar | Yellow Coster |
| <b>Family: Erycinidae</b> |                                      |               |
| 16.                       | <i>Libythea myrrha</i> Godart        | Club Beak     |
| <b>Family: Lycaenidae</b> |                                      |               |
| 17.                       | <i>Lycaena kasyapa</i> (Moore)       | Green Copper  |

### 3. Fish (Pisces)

Fishes are aquatic cold-blooded vertebrates that have gills for respiration throughout life and limbs, if any, are in the shape of fins and are primarily dependent on water as a medium in which to live. The living fishes are divided into 4 classes, out of which 2 classes, viz., Chondrichthyes (those with cartilaginous skeleton) and Osteichthyes (those with bony skeleton) are represented in India.

As estimated, there are 27,977 valid species of fishes under 62 orders, 515 families and 4,494 genera in the world. Of these 42.72% (11,952 species) are found in freshwaters like lakes and rivers, 12,457 species are secondary freshwater species and the remaining 3,568 species are exclusively marine (Nelson, 2006). Out of a total of 2,500 species of fish in India, 930 are in fresh waters and belong to 326 genera, 99 families and 20 orders (Talwar and Jhingran, 1991).

Some 2546 species of fishes belonging to 969 genera, 254 families and 40 orders are found in the Indian region (Talwar, 1991). Himachal Pradesh has overall hilly terrain with a number of rivers, lakes and suitable aquatic habitats. Studies on the fish fauna of Himachal Pradesh started with the arrival of European traders and missionaries somewhere in the beginning of 19<sup>th</sup> century. Some of important works on fishes include those of McClelland (1839, 1842), Stenidachner (1867), Day (1875-1878), Hora (1927, 1937), Menon (1951, 54, 62, 74, 87, 99), Bhatanagar (1973), Tilak and Husain (1977), Sharma and Tandon (1990), Mehta (2000 a), Johal *et al.* (2002), and Dhanze and Dhanze (2004). Mehta and Sharma (2008) have reported 3 species of fish from Pin Valley National Park. Kumar (2010) revealed the presence of 6 species of fish belonging to 3 orders and 3 families from Kullu Valley. A total of 104 species of fish spread over 48 genera, 14 families and 8 orders are known from Himachal Pradesh. A maximum of 57 species are reported from Sirmour district, followed by 55 from Kangra and 50 from Bilaspur and a minimum of 3

species are known from Lahaul and Spiti district (Mehta and Uniyal, 2005).

#### A) Bajeer Baori, Forest Range Arsoo

A total of 4 species of Fish have been reported from the present study site.

**Table 9: Fish species reported in Bajeer Baori compartment**

| S.No.                        | Taxon                                        | Common Name               | Habitat/Distribution/Altitudinal zone                                                                                                                               |
|------------------------------|----------------------------------------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Class: Actinopterygii</b> |                                              |                           |                                                                                                                                                                     |
| <b>Order: Cypriniformes</b>  |                                              |                           |                                                                                                                                                                     |
| <b>Family: Cobitidae</b>     |                                              |                           |                                                                                                                                                                     |
| 1.                           | <i>Botia geto</i> (Hamilton-Buchanan)        | Bengal Loach, Queen Loach | Found in Bangladesh and India                                                                                                                                       |
| 2.                           | <i>Triplophysa stoliczkae</i> (Steindachner) | Tibetan Stone Loach       | Found in India and China. Reported from Afghanistan, Iran, Pakistan and Uzbekistan.                                                                                 |
| <b>Order: Cypriniformes</b>  |                                              |                           |                                                                                                                                                                     |
| <b>Family: Cyprinidae</b>    |                                              |                           |                                                                                                                                                                     |
| 3.                           | <i>Labeo calbasu</i> (Hamilton-Buchanan)     | Kala Bans                 | A commercially important species distributed throughout India except in Kerala, Bangladesh, Pakistan, Nepal, Myanmar, Burma, Thailand, Yunnan and also South China. |
| <b>Family: Cobiitidae</b>    |                                              |                           |                                                                                                                                                                     |
| 4.                           | <i>Raiamas bola</i> (Hamilton-Buchanan)      | Indian Trout              | Confined to the hilly areas of the northern States like Haryana, Himachal Pradesh, Uttar Pradesh, Bihar, Assam, West Bengal and Orissa.                             |

#### 4. Frogs and Toads (Amphibia)

Amphibians comprise nearly 6.6% of the total vertebrate life on the earth and they are the least amongst the vertebrates (Lagler *et al.*, 1962). Around 3,140 species of amphibians have been estimated in the world (Mehta, 2005). In India, 214 species of Amphibia are known, of which around 66% (167) endemic to the country. India has the third largest amphibian population in Asia. In spite of its broad variety of species, India holds second place on the list of countries having the most number of threatened amphibian species in Asia, with 67 (25%) of its species facing possible extinction.

Works on amphibian fauna of the country is scattered and some of the important

contributions are those of Smith (1935), Gruber (1981), Dutta (1997), Chanda (2002) and Dinesh *et al.* (2009). In Himachal Pradesh only 17 species belonging to 4 families has been recorded, which constitute about 8% of the total Indian species. Important contributions to amphibian fauna of different parts of the state is available in the works of Annandale (1907), Boulenger (1920), Kriplani (1952), Dubois (1975), Tilak and Mehta (1983) and Mehta (2000 b, 2005). Mehta (2009) has reported three species of amphibian (*Pseudopidalea latastii*, *Bufo viridis* and *Scutigera occidentalis*) from Indian cold desert Ladakh.

#### A) Bajeer Baori, Forest Range Arsoo

Only 3 species of frogs and toads have been reported from the sparsely wooded site of Bajeer Baori in Aweri Beat of Nirmand Block of Anni Forest Division.

**Table 10: Frogs and Toads reported in Bajeer Baori compartment**

| S.No.                    | Taxon                                             | Common Name         | Habitat/Distribution/Altitudinal zone                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------|---------------------------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Family: Ranidae</b>   |                                                   |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 1.                       | <i>Euphlyctis cyanophlyctis</i> (Schneider, 1799) | Indian Skipper Frog | This species is widely distributed in South Asia and Southeast Asia, from southeastern Iran, southern Afghanistan, Pakistan, India, Bhutan, Nepal, and eastern India at low to moderate elevations east through Bangladesh and northeastern India to extreme western Myanmar.                                                                                                                                                                         |
| <b>Family: Bufonidae</b> |                                                   |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 2.                       | <i>Duttaphrynus himalayanus</i> (Gunther, 1864)   | Himalayan Toad      | This species is widely distributed throughout the Himalayan mountains. It is found from the Hazara Division of Azad Kashmir, Pakistan, through northern India and Nepal, and is presumed to be present in Bhutan although this is not yet confirmed. It is also known from the southern slopes of the Himalayas in Xizang ( <i>himalayanus</i> ) and northwestern Yunnan ( <i>cyphosus</i> ), China. It has an altitudinal range of 1,000-3,500m asl. |



|    |                                            |            |                                                                                                 |
|----|--------------------------------------------|------------|-------------------------------------------------------------------------------------------------|
| 3. | <i>Bufotes viridis</i><br>(Laurenti, 1768) | Green Toad | It lives in many habitats, including steppes, mountainous areas, semi-deserts, and urban areas. |
|----|--------------------------------------------|------------|-------------------------------------------------------------------------------------------------|

## B) Chowai, Forest range Chowai

Only 2 species of toads namely Indo-Gangetic Toad and Green Toad were reported from the thickly wooded forest compartment of Chowai under Chowai Forest Range of Anni Forest Division.

**Table 11: Frogs reported in Chowai compartment**

| S.No.                    | Taxon                                        | Common Name        | Habitat/Distribution/Altitudinal zone                                                           |
|--------------------------|----------------------------------------------|--------------------|-------------------------------------------------------------------------------------------------|
| <b>Order: Anura</b>      |                                              |                    |                                                                                                 |
| <b>Family: Bufonidae</b> |                                              |                    |                                                                                                 |
| 1.                       | <i>Duttaphrynus stomaticus</i> (Lutken 1864) | Indo-Gangetic Toad | Widely distributed throughout the Indo-Pakistan subcontinent                                    |
| 2.                       | <i>Bufotes viridis</i> (Laurenti, 1768)      | Green Toad         | It lives in many habitats, including steppes, mountainous areas, semi-deserts, and urban areas. |

## 5. Lizards and Snakes (Reptiles)

Of the 19 orders of reptiles only 4 survive today. These are Crocodylia, Rhynchocephala, Squamata and Testudines. Of these, Crocodylia includes crocodiles, gavials, caimans, and alligators having 23 species. Rhynchocephala having two species is found in New Zealand. Squamata includes lizards, snakes and worm lizards having approximately 9,150 species. Lastly, Testudines consisting of turtles, terrapins and tortoises have about over 300 species.

India harbours 518 species of reptiles including 3 species of Crocodylia, 34 of Testudines, 202 of lizards and 279 species of serpents belonging to 28 families. Though, initial efforts on studies of reptiles of Himachal Pradesh started during British period but there is little information on the reptiles from Himachal Pradesh. Smith (1931, 1935, 1943)

has recorded the herpetological fauna of British India. A total of 55 species of reptiles belonging to 40 genera and 14 families has been recorded from Himachal Pradesh (Saikia *et al.*, 2007).

#### A) Bajeer Baori, Forest Range Arsoo

Five species of lizards and snakes spread over 5 genera and 5 families have been reported from the Bajeer Baori site.

**Table 12: Lizards and snakes reported in Bajeer Baori compartment**

| S. No                     | Taxon                                        | Common Name        | Habitat/Distribution/Altitudinal zone                                                                                                                                              |
|---------------------------|----------------------------------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Order: Testudines</b>  |                                              |                    |                                                                                                                                                                                    |
| <b>Family: Gekkonidae</b> |                                              |                    |                                                                                                                                                                                    |
| 1.                        | <i>Hemidactylus brooki</i><br>Gary           | Common House Gecko | Open forested areas and human habitations. In India found in Himalaya, Assam, Tamil Nadu, Himachal Pradesh, Andhra Pradesh, Madhya Pradesh, Maharashtra, Gujarat, Mizoram, Kerala. |
| <b>Family: Agamidae</b>   |                                              |                    |                                                                                                                                                                                    |
| 2.                        | <i>Laudakia tuberculata</i><br>(Gray, 1827)  | Kashmir Rock Agama | Distributed in northern Pakistan, northern India (W Himalaya, Kashmir, Punjab), Nepal, eastern Afghanistan, and western China (Tibetan Plateau)                                    |
| <b>Family: Varanidae</b>  |                                              |                    |                                                                                                                                                                                    |
| 3.                        | <i>Varanus bengalensis</i><br>(Daudin, 1802) | Bengal Monitor     | It is found in river valleys in eastern Iran, Afghanistan, India, Nepal, Sri Lanka, Pakistan, Bangladesh and Burma                                                                 |
| <b>Order: Serpentes</b>   |                                              |                    |                                                                                                                                                                                    |
| <b>Family: Colubridae</b> |                                              |                    |                                                                                                                                                                                    |

|                          |                                                |                     |                                                                                                                                                                                      |
|--------------------------|------------------------------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4.                       | <i>Ptyas mucosus</i><br>(Linnaeus, 1758)       | Indian Rat Snake    | Found in Afghanistan, Bangladesh, Burma, Cambodia, China, India, Sri Lanka, Indonesia, Iran, Laos, West Malaysia, Nepal, Myanmar, Pakistan, Thailand, Turkmenistan, Vietnam & Nepal. |
| <b>Family: Viperidae</b> |                                                |                     |                                                                                                                                                                                      |
| 5.                       | <i>Gloydius himalayanus</i><br>(Gunther, 1864) | Himalayan Pit Viper | It is a venomous pitviper species found along the southern slopes of the Himalayas in Pakistan, India and Nepal. Himalayan pit vipers have been found up to 4900m above sea level.   |

## B) Chowai, Forest range Chowai

Six species of lizards and snakes spread over 6 genera and 5 families have been reported from the Chowai site.

**Table 13: Lizards and snakes reported in Chowai compartment**

| S. No                     | Taxon                                       | Common Name        | Habitat/Distribution/Altitudinal zone                                                                                                                                              |
|---------------------------|---------------------------------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Order: Testudines</b>  |                                             |                    |                                                                                                                                                                                    |
| <b>Family: Gekkonidae</b> |                                             |                    |                                                                                                                                                                                    |
| 1.                        | <i>Hemidactylus brooki</i><br>Gary          | Common House Gecko | Open forested areas and human habitations. In India found in Himalaya, Assam, Tamil Nadu, Himachal Pradesh, Andhra Pradesh, Madhya Pradesh, Maharashtra, Gujarat, Mizoram, Kerala. |
| <b>Family: Agamidae</b>   |                                             |                    |                                                                                                                                                                                    |
| 2.                        | <i>Laudakia tuberculata</i><br>(Gray, 1827) | Kashmir Rock Agama | Distributed in northern Pakistan, northern India (W Himalaya, Kashmir, Punjab), Nepal, eastern Afghanistan, and western China (Tibetan Plateau)                                    |
| <b>Family: Scincidae</b>  |                                             |                    |                                                                                                                                                                                    |

|                                                      |                                                |                         |                                                                                                                                                                                                                                            |
|------------------------------------------------------|------------------------------------------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3.                                                   | <i>Mabuya carinata</i><br>(Schneider, 1801)    | Keeled Indian<br>Mabuya | Encountered in many habitat types, from rain forests and deserts to scrub forests and parks and gardens of houses and cities in Bangladesh, India (except in the North-West), Maldives, Myanmar, Nepal & Sri Lanka and Possibly in Bhutan. |
| 4.                                                   | <i>Riopa punctata</i><br>(Linnaeus, 1758)      | Common Snake<br>Skink   | Found in Bangladesh, Nepal, Pakistan, Vietnam, India and Sri Lanka, mostly in hilly regions.                                                                                                                                               |
| <b>Order: Serpentes</b><br><b>Family: Colubridae</b> |                                                |                         |                                                                                                                                                                                                                                            |
| 5.                                                   | <i>Ptyas mucosus</i><br>(Linnaeus, 1758)       | Indian Rat<br>Snake     | Found in Afghanistan, Bangladesh, Burma, Cambodia, China, India, Sri Lanka, Indonesia, Iran, Laos, West Malaysia, Nepal, Myanmar, Pakistan, Thailand, Turkmenistan, Vietnam & Nepal.                                                       |
| <b>Family: Viperidae</b>                             |                                                |                         |                                                                                                                                                                                                                                            |
| 6.                                                   | <i>Gloydius himalayanus</i><br>(Gunther, 1864) | Himalayan Pit<br>Viper  | It is a venomous pitviper species found along the southern slopes of the Himalayas in Pakistan, India and Nepal. Himalayan pit vipers have been found up to 4900m above sea level.                                                         |

## 6. Birds (Aves)

Birds evolved about 150 million years ago and their diversification of forms was noticeable sometimes during 60 million years ago. World list of living birds computes about 9026 species under 1800 genera, 182 families and 30 orders (Saha, 1998). India ranks amongst one of the most biodiverse countries in the world. Currently around 1300 species of breeding, staging and wintering birds, spread over 88 families and 22 orders, occupying a wide array of natural, semi-natural and urban habitats are known from India (Manakadan and Pittie, 2001).

Earlier studies on the birds of Himachal Pradesh were initiated during British period because of the presence of the Imperial Summer capital at Shimla as summarised by Ali and Ripley, 1983. Different workers like have undertaken studies on the birds of

different parts of the State. Whistler (1926) studied the birds of Kangra district. Jones (1947-48) studied the birds of Shimla and adjoining hills. Ali (1949) has listed about 225 birds of Western Himalaya. Ganguli (1967) studied the birds of Shimla. Gaston *et al.* (1981 a) has described about Indian ornithology in Himalaya. Khajuria and Sharma (1983) studied the pheasants and their distribution in Western Himalaya. Besides, a number of workers have undertaken studies on different aspects of birds and enriched the knowledge on the ornithology like Gaston and Pandey (1987), Pandey (1989 a & b), Sharma and Pandey (1989), Sharma *et al.* (1990), Singh *et al.* (1990), Mahabal (1992 a & b), Mahabal and Sharma (1992), Suyal (1992), Pandey (1993 a & b), Mahabal (1996, 2000 a & b), Sharma (2001), Thakur *et al.* (2002 & 2003), Mattu and Thakur (2005). Mattu *et al.* (2005) have compiled information on a total of 610 species of birds from different sources. Besten (2004) has recorded 555 species of birds from Kangra District. Mahabal (2005) has reported 447 species of birds belonging to 232 genera spread over 65 families and 17 orders from Himachal Pradesh. The study also represents the district-wise status of the diversity and reveals that maximum diversity was in Kangra district (313) and the least number was from Kinnaur district (40). Some of the recent studies on birds of Himachal Pradesh are reflected in the works of Mehta *et al.* (2002), Besten *et al.* (2004), Pandey *et al.* (2004), Mattu and Thakur (2006), Tak *et al.* (2008), Thakur and Mattu (2011), Thakur and Narang (2012), Thakur and Paliwal (2012), Thakur and Kataria (2012), Thakur (2013, 2014, 2015) and Singh *et al.* (2014).

#### **A) Bajeer Baori, Forest Range Arsoo**

A total of 58 species of birds spread over 74 genera, 25 families and 9 orders have been reported from the Bajeer Baori site. Further, 8 species were purely resident in the area, another 8 species visited the area during summer months (Summer visitor), 1 species was winter visitor and rest 41 showed various types of local seasons or influx type of movements. Moreover, 27 species were very common in the area, 24 were common and rest 4 were uncommon as per categorization of the species on the basis of relative abundance. One species of globally threatened species of birds namely Himalayan Griffon, placed under Near Threatened Category by IUCN was also reported from the site.

**Table 14: Birds reported in Bajeer Baori compartment**

| S.No | Taxon                                                                | Res. Status | Rel. Abds. |
|------|----------------------------------------------------------------------|-------------|------------|
|      | <b>Order: Falconiformes</b>                                          |             |            |
|      | <b>Family: Accipitridae</b>                                          |             |            |
| 1.   | Black Kite <i>Milvus migrans</i> (Boddaert, 1783)                    | R/LM        | UC         |
| 2.   | Himalayan Griffon <i>Gyps himalayensis</i> (Hume, 1869) <b>(NT)</b>  | R/LM        | C          |
| 3.   | Eurasian Sparrowhawk <i>Accipiter nisus</i> (Linnaeus, 1758)         | SV          | UC         |
|      | <b>Family: Falconidae</b>                                            |             |            |
| 4.   | Common Kestrel <i>Falco tinnunculus</i> Linnaeus, 1758               | R/LM        | VC         |
|      | <b>Order: Galliformes</b>                                            |             |            |
|      | <b>Family: Phasianidae</b>                                           |             |            |
| 5.   | Red Junglefowl <i>Gallus gallus</i> (Linnaeus, 1758)                 | R           | C          |
| 6.   | Kaleej Pheasant <i>Lophura leucomelanos</i> (Latham, 1790)           | R           | VC         |
|      | <b>Order: Columbiformes</b>                                          |             |            |
|      | <b>Family: Columbidae</b>                                            |             |            |
| 7.   | Blue Rock Pigeon <i>Columba livia</i> Gmelin, 1789                   | R/SV        | VC         |
| 8.   | Oriental Turtle-Dove <i>Streptopelia orientalis</i> (Latham, 1790)   | R/LM        | VC         |
| 9.   | Spotted Dove <i>Streptopelia chinensis</i> (Scopoli, 1786)           | SV          | C          |
| 10.  | Wedge-tailed Green-Pigeon <i>Treron sphenura</i> (Vigors, 1832)      | SV          | C          |
|      | <b>Order: Psittaciformes</b>                                         |             |            |
|      | <b>Family: Psittacidae</b>                                           |             |            |
| 11.  | Slaty-headed Parakeet <i>Psittacula himalayana</i> (Lesson, 1832)    | R/SV        | VC         |
| 12.  | Plum-headed Parakeet <i>Psittacula cyanocephala</i> (Linnaeus, 1766) | R/SV        | VC         |
|      | <b>Order: Cuculiformes</b>                                           |             |            |
|      | <b>Family: Cuculidae</b>                                             |             |            |
| 13.  | Common Cuckoo <i>Cuculus canorus</i> Linnaeus, 1758                  | SV          | C          |
|      | <b>Order: Apodiformes</b>                                            |             |            |
|      | <b>Family: Apodidae</b>                                              |             |            |
| 14.  | House Swift <i>Apus affinis</i> (J.E. Gray, 1830)                    | R           | C          |
|      | <b>Order: Coraciiformes</b>                                          |             |            |
|      | <b>Family: Alcedinidae</b>                                           |             |            |
| 15.  | Greater Pied Kingfisher <i>Megaceryle lugubris</i> (Temminck, 1834)  | R           | VC         |
|      | <b>Family: Upupidae</b>                                              |             |            |
| 16.  | Common Hoopoe <i>Upupa epops</i> Linnaeus, 1758                      | R/SV        | VC         |
|      | <b>Order: Piciformes</b>                                             |             |            |

|     |                                                                                     |      |    |
|-----|-------------------------------------------------------------------------------------|------|----|
|     | <b>Family: Capitonidae</b>                                                          |      |    |
| 17. | Great Barbet <i>Megalaima virens</i> (Boddaert, 1783)                               | R    | VC |
|     | <b>Family: Picidae</b>                                                              |      |    |
| 18. | Himalayan Pied Woodpecker <i>Dendrocopos himalayensis</i> (Jardine and Selby, 1831) | R/LM | UC |
|     | <b>Order: Passeriformes</b>                                                         |      |    |
|     | <b>Family: Hirundinidae</b>                                                         |      |    |
| 19. | Red-rumped Swallow <i>Hirundo daurica</i> Linnaeus, 1771                            | R/SV | C  |
| 20. | Asian House-Martin <i>Delichon dasypus</i> (Bonaparte, 1850)                        | R/WV | C  |
|     | <b>Family: Motacillidae</b>                                                         |      |    |
| 21. | White Wagtail <i>Motacilla alba</i> Linnaeus, 1758                                  | R/LM | VC |
| 22. | Large Pied Wagtail <i>Motacilla maderaspatensis</i> Gmelin, 1789                    | R/LM | UC |
|     | <b>Family: Campephagidae</b>                                                        |      |    |
| 23. | Long-tailed Minivet <i>Pericrocotus ethologus</i> Bangs and Phillips, 1914          | SV   | VC |
| 24. | Scarlet Minivet <i>Pericrocotus flammeus</i> (Forster, 1781)                        | R/LM | C  |
|     | <b>Family: Pycnonotidae</b>                                                         |      |    |
| 25. | Himalayan Bulbul <i>Pycnonotus leucogenys</i> (Gray, 1835)                          | R/LM | VC |
| 26. | Black Bulbul <i>Hypsipetes leucocephalus</i> (Gmelin, 1789)                         | R/LM | C  |
|     | <b>Family: Laniidae</b>                                                             |      |    |
| 27. | Rufous-backed Shrike <i>Lanius schach</i> Linnaeus, 1758                            | SV   | VC |
|     | <b>Family: Muscicapidae</b>                                                         |      |    |
|     | <b>Subfamily: Turdinae</b>                                                          |      |    |
| 28. | Blue Whistling-Thrush <i>Myophonus caeruleus</i> (Scopoli, 1786)                    | R    | VC |
| 29. | Grey-winged Blackbird <i>Turdus boulboul</i> (Latham, 1790)                         | R/WV | VC |
| 30. | White-capped Redstart <i>Chaimarrornis leucocephalus</i> (Vigors, 1831)             | R/LM | C  |
| 31. | Plumbeous Redstart <i>Rhyacornis fuliginosus</i> (Vigors, 1831)                     | R/LM | C  |
| 32. | Spotted Forktail <i>Enicurus maculatus</i> Vigors, 1831                             | R/LM | C  |
| 33. | Common Stonechat <i>Saxicola torquata</i> (Linnaeus, 1766)                          | R/SV | VC |
| 34. | Grey Bushchat <i>Saxicola ferrea</i> Gray, 1846                                     | R/LM | VC |
|     | <b>Subfamily: Timaliinae</b>                                                        |      |    |
| 35. | Streaked Laughingthrush <i>Garrulax lineatus</i> (Vigors, 1831)                     | R/LM | VC |
| 36. | Variegated Laughingthrush <i>Garrulax variegatus</i> (Vigors, 1831)                 | R/LM | UC |
| 37. | Bar-throated Minla <i>Minla strigula</i> (Hodgson, 1838)                            | WV   | C  |
| 38. | Rufous Sibia <i>Heterophasia capistrata</i> (Vigors, 1831)                          | R/LM | C  |
|     | <b>Subfamily: Sylviinae</b>                                                         |      |    |

|     |                                                                                              |      |    |
|-----|----------------------------------------------------------------------------------------------|------|----|
| 39. | Lemon-rumped Warbler <i>Phylloscopus chloronotus</i> (G.R. Gray & J.E. Gray, 1846)           | R/LM | C  |
| 40. | Grey-headed Flycatcher-Warbler <i>Seicercus xanthoschistos</i> (G.R. Gray & J.E. Gray, 1846) | R/LM | VC |
|     | <b>Subfamily: Muscicapinae</b>                                                               |      |    |
| 41. | Little Pied Flycatcher <i>Ficedula westermanni</i> (Sharpe, 1888)                            | SV   | UC |
| 42. | Verditer Flycatcher <i>Eumyias thalassina</i> (Swainson, 1838)                               | R/SV | VC |
|     | <b>Family: Paridae</b>                                                                       |      |    |
| 43. | Simla Crested Tit <i>Parus rufonuchalis</i> Blyth, 1849                                      | R/LM | C  |
| 44. | Great Tit <i>Parus major</i> Linnaeus, 1758                                                  | R/LM | VC |
| 45. | Green-backed Tit <i>Parus monticolus</i> Vigors, 1831                                        | R/WV | C  |
|     | <b>Family: Sittidae</b>                                                                      |      |    |
| 46. | Wallcreeper <i>Tichodroma muraria</i> (Linnaeus, 1766)                                       | R/LM | C  |
|     | <b>Family: Certhiidae</b>                                                                    |      |    |
| 47. | Bar-tailed Tree-Creeper <i>Certhia himalayana</i> Vigors, 1832                               | R/SV | VC |
|     | <b>Family: Emberizidae</b>                                                                   |      |    |
| 48. | Rock Bunting <i>Emberiza cia</i> Linnaeus, 1766                                              | R/SV | VC |
|     | <b>Family: Fringillidae</b>                                                                  |      |    |
| 49. | Yellow-breasted Greenfinch <i>Carduelis spinoides</i> Vigors, 1831                           | R/LM | C  |
| 50. | Common Rosefinch <i>Carpodacus erythrinus</i> (Pallas, 1770)                                 | R/LM | C  |
|     | <b>Family: Passeridae</b>                                                                    |      |    |
| 51. | House Sparrow <i>Passer domesticus</i> (Linnaeus, 1758)                                      | R/LM | C  |
| 52. | Cinnamon Tree Sparrow <i>Passer rutilans</i> Temminck, 1835                                  | SV   | VC |
|     | <b>Family: Sturnidae</b>                                                                     |      |    |
| 53. | Common Myna <i>Acridotheres tristis</i> (Linnaeus, 1766)                                     | R    | C  |
|     | <b>Family: Corvidae</b>                                                                      |      |    |
| 54. | Eurasian Jay <i>Garrulus glandarius</i> (Linnaeus, 1758)                                     | R/LM | VC |
| 55. | Black-headed Jay <i>Garrulus lanceolatus</i> Vigors, 1831                                    | R/LM | C  |
| 56. | Yellow-billed Blue Magpie <i>Urocissa flavirostris</i> (Blyth, 1846)                         | R/LM | UC |
| 57. | Red-billed Blue Magpie <i>Urocissa erythrorhyncha</i> (Boddaert, 1783)                       | R/SV | VC |
| 58. | Jungle Crow <i>Corvus macrorhynchos</i> Wagler, 1827                                         | R    | VC |

## B) Chowai, Forest range Chowai

A total of 71 species of birds spread over 55 genera, 25 families and 9 orders have been reported from the Chowai site. Further, 9 species were purely resident in the area,



another 7 species visited the area during summer months (Summer visitor), 4 were winter visitor and rest 51 showed various types of local seasons or influx type of movements. Moreover, 28 species were very common in the area, another 28 were common, 14 were uncommon and one was rare, as per categorization of the species on the basis of relative abundance. Three species of globally threatened species of birds namely Bearded Vulture (Near Threatened), Himalayan Griffon (Near Threatened) and Western Tragopan (Vulnerable), categorized by IUCN were also reported from the site. In addition, 2 more species namely Impeyan Monal and Kaleej Pheasant which are placed under Part-III of Schedule-I of the Wildlife (Protection) Act 1972 were also reported from the site.

**Table 15: Birds reported in Chowai compartment**

| S.No | Taxon                                                                    | Res. Status | Rel. Abd. |
|------|--------------------------------------------------------------------------|-------------|-----------|
|      | <b>Order: Falconiformes</b>                                              |             |           |
|      | <b>Family: Accipitridae</b>                                              |             |           |
| 1.   | Black Kite <i>Milvus migrans</i> (Boddaert, 1783)                        | R/LM        | UC        |
| 2.   | Bearded Vulture <i>Gypaetus barbatus</i> (Linnaeus, 1758) <b>(NT)</b>    | R/LM        | UC        |
| 3.   | Himalayan Griffon <i>Gyps himalayensis</i> (Hume, 1869) <b>(NT)</b>      | R/LM        | C         |
|      | <b>Family: Falconidae</b>                                                |             |           |
| 4.   | Common Kestrel <i>Falco tinnunculus</i> Linnaeus, 1758                   | R/LM        | VC        |
|      | <b>Order: Galliformes</b>                                                |             |           |
|      | <b>Family: Phasianidae</b>                                               |             |           |
| 5.   | Koklass Pheasant <i>Pucrasia macrolopha</i> (Lesson, 1829)               | R           | VC        |
| 6.   | Western Tragopan <i>Tragopan melanocephalus</i> (Gray, 1829) <b>(VU)</b> | R/LM        | Ra        |
| 7.   | Impeyan Monal <i>Lophophorus impejanus</i> (Latham, 1790)                | R           | C         |
| 8.   | Kaleej Pheasant <i>Lophura leucomelanos</i> (Latham, 1790)               | R           | VC        |
|      | <b>Order: Columbiformes</b>                                              |             |           |
|      | <b>Family: Columbidae</b>                                                |             |           |
| 9.   | Blue Rock Pigeon <i>Columba livia</i> Gmelin, 1789                       | R/SV        | VC        |
| 10.  | Oriental Turtle-Dove <i>Streptopelia orientalis</i> (Latham, 1790)       | R/LM        | VC        |
| 11.  | Wedge-tailed Green-Pigeon <i>Treron sphenura</i> (Vigors, 1832)          | SV          | C         |
|      | <b>Order: Psittaciformes</b>                                             |             |           |
|      | <b>Family: Psittacidae</b>                                               |             |           |
| 12.  | Slaty-headed Parakeet <i>Psittacula himalayana</i> (Lesson, 1832)        | R/SV        | VC        |

|     |                                                                                     |      |    |
|-----|-------------------------------------------------------------------------------------|------|----|
| 13. | Plum-headed Parakeet <i>Psittacula cyanocephala</i> (Linnaeus, 1766)                | R/SV | VC |
|     | <b>Order: Cuculiformes</b>                                                          |      |    |
|     | <b>Family: Cuculidae</b>                                                            |      |    |
| 14. | Common Cuckoo <i>Cuculus canorus</i> Linnaeus, 1758                                 | SV   | C  |
|     | <b>Order: Apodiformes</b>                                                           |      |    |
|     | <b>Family: Apodidae</b>                                                             |      |    |
| 15. | House Swift <i>Apus affinis</i> (J.E. Gray, 1830)                                   | R    | C  |
|     | <b>Order: Coraciiformes</b>                                                         |      |    |
|     | <b>Family: Alcedinidae</b>                                                          |      |    |
| 16. | Greater Pied Kingfisher <i>Megaceryle lugubris</i> (Temminck, 1834)                 | R    | VC |
|     | <b>Family: Upupidae</b>                                                             |      |    |
| 17. | Common Hoopoe <i>Upupa epops</i> Linnaeus, 1758                                     | R/SV | VC |
|     | <b>Order: Piciformes</b>                                                            |      |    |
|     | <b>Family: Capitonidae</b>                                                          |      |    |
| 18. | Great Barbet <i>Megalaima virens</i> (Boddaert, 1783)                               | R    | VC |
|     | <b>Family: Picidae</b>                                                              |      |    |
| 19. | Himalayan Pied Woodpecker <i>Dendrocopos himalayensis</i> (Jardine and Selby, 1831) | R/LM | UC |
|     | <b>Order: Passeriformes</b>                                                         |      |    |
|     | <b>Family: Hirundinidae</b>                                                         |      |    |
| 20. | Red-rumped Swallow <i>Hirundo daurica</i> Linnaeus, 1771                            | R/SV | C  |
| 21. | Asian House-Martin <i>Delichon dasypus</i> (Bonaparte, 1850)                        | R/WV | C  |
|     | <b>Family: Motacillidae</b>                                                         |      |    |
| 22. | White Wagtail <i>Motacilla alba</i> Linnaeus, 1758                                  | R/LM | VC |
| 23. | Large Pied Wagtail <i>Motacilla maderaspatensis</i> Gmelin, 1789                    | R/LM | UC |
|     | <b>Family: Campephagidae</b>                                                        |      |    |
| 24. | Long-tailed Minivet <i>Pericrocotus ethologus</i> Bangs and Phillips, 1914          | SV   | VC |
| 25. | Scarlet Minivet <i>Pericrocotus flammeus</i> (Forster, 1781)                        | R/LM | C  |
|     | <b>Family: Pycnonotidae</b>                                                         |      |    |
| 26. | Himalayan Bulbul <i>Pycnonotus leucogenys</i> (Gray, 1835)                          | R/LM | VC |
|     | <b>Family: Laniidae</b>                                                             |      |    |
| 27. | Rufous-backed Shrike <i>Lanius schach</i> Linnaeus, 1758                            | SV   | VC |
|     | <b>Family: Muscicapidae</b>                                                         |      |    |
|     | <b>Subfamily: Turdinae</b>                                                          |      |    |
| 28. | Blue Whistling-Thrush <i>Myophonus caeruleus</i> (Scopoli, 1786)                    | R    | VC |
| 29. | Scaly Thrush <i>Zoothera dauma</i> (Latham, 1790)                                   | R/LM | UC |

|     |                                                                                              |      |    |
|-----|----------------------------------------------------------------------------------------------|------|----|
| 30. | White-collared Blackbird <i>Turdus albocinctus</i> Royle, 1840                               | SV   | UC |
| 31. | Grey-winged Blackbird <i>Turdus boulboul</i> (Latham, 1790)                                  | R/WV | VC |
| 32. | Blue-fronted Redstart <i>Phoenicurus frontalis</i> (Vigors, 1832)                            | WV   | UC |
| 33. | White-capped Redstart <i>Chaimarrornis leucocephalus</i> (Vigors, 1831)                      | R/LM | C  |
| 34. | Plumbeous Redstart <i>Rhyacornis fuliginosus</i> (Vigors, 1831)                              | R/LM | C  |
| 35. | Spotted Forktail <i>Enicurus maculatus</i> Vigors, 1831                                      | R/LM | C  |
| 36. | Grey Bushchat <i>Saxicola ferrea</i> Gray, 1846                                              | R/LM | VC |
|     | <b>Subfamily: Timaliinae</b>                                                                 |      |    |
| 37. | Streaked Laughingthrush <i>Garrulax lineatus</i> (Vigors, 1831)                              | R/LM | VC |
| 38. | Variegated Laughingthrush <i>Garrulax variegatus</i> (Vigors, 1831)                          | R/LM | UC |
| 39. | Bar-throated Minla <i>Minla strigula</i> (Hodgson, 1838)                                     | WV   | C  |
| 40. | Rufous Sibia <i>Heterophasia capistrata</i> (Vigors, 1831)                                   | R/LM | C  |
| 41. | Yellow-naped Yuhina <i>Yuhina flavicollis</i> Hodgson, 1836                                  | WV   | C  |
|     | <b>Subfamily: Sylviinae</b>                                                                  |      |    |
| 42. | Lemon-rumped Warbler <i>Phylloscopus chloronotus</i> (G.R. Gray & J.E. Gray, 1846)           | R/LM | C  |
| 43. | Grey-headed Flycatcher-Warbler <i>Seicercus xanthoschistos</i> (G.R. Gray & J.E. Gray, 1846) | R/LM | VC |
|     | <b>Subfamily: Muscicapinae</b>                                                               |      |    |
| 44. | Little Pied Flycatcher <i>Ficedula westermanni</i> (Sharpe, 1888)                            | SV   | UC |
| 45. | Ultramarine Flycatcher <i>Ficedula supercilialis</i> (Jerdon, 1840)                          | SV   | VC |
| 46. | Verditer Flycatcher <i>Eumyias thalassina</i> (Swainson, 1838)                               | R/SV | VC |
|     | <b>Family: Paridae</b>                                                                       |      |    |
| 47. | Simla Crested Tit <i>Parus rufonuchalis</i> Blyth, 1849                                      | R/LM | C  |
| 48. | Spot-winged Crested Tit <i>Parus melanolophus</i> Vigors, 1831                               | R/LM | C  |
| 49. | Great Tit <i>Parus major</i> Linnaeus, 1758                                                  | R/LM | VC |
| 50. | Green-backed Tit <i>Parus monticolus</i> Vigors, 1831                                        | R/WV | C  |
| 51. | Black-lored Yellow Tit <i>Parus xanthogenys</i> Vigors, 1831                                 | R/LM | VC |
|     | <b>Family: Sittidae</b>                                                                      |      |    |
| 52. | White-tailed Nuthatch <i>Sitta himalayensis</i> Jardine & Selby, 1835                        | R/LM | C  |
| 53. | White-cheeked Nuthatch <i>Sitta leucopsis</i> Gould, 1850                                    | R/LM | C  |
| 54. | Wallcreeper <i>Tichodroma muraria</i> (Linnaeus, 1766)                                       | R/LM | C  |
|     | <b>Family: Certhiidae</b>                                                                    |      |    |
| 55. | Eurasian Tree-Creeper <i>Certhia familiaris</i> Linnaeus, 1758                               | R/SV | C  |
| 56. | Bar-tailed Tree-Creeper <i>Certhia himalayana</i> Vigors, 1832                               | R/SV | VC |
|     | <b>Family: Emberizidae</b>                                                                   |      |    |
| 57. | Rock Bunting <i>Emberiza cia</i> Linnaeus, 1766                                              | R/SV | VC |

|     |                                                                        |      |    |
|-----|------------------------------------------------------------------------|------|----|
|     | <b>Family: Fringillidae</b>                                            |      |    |
| 58. | Fire-fronted Serin <i>Serinus pusillus</i> (Pallas, 1811)              | R/LM | C  |
| 59. | Yellow-breasted Greenfinch <i>Carduelis spinoides</i> Vigors, 1831     | R/LM | C  |
| 60. | Eurasian Goldfinch <i>Carduelis carduelis</i> (Linnaeus, 1758)         | WV   | C  |
| 61. | Black-and-Yellow Grosbeak <i>Mycerobas icterioides</i> (Vigors, 1831)  | R/WV | UC |
| 62. | Spotted-winged Grosbeak <i>Mycerobas melanozanthos</i> Hodgson, 1836   | R/WV | UC |
| 63. | Spectacled Finch <i>Callacanthus burtoni</i> (Gould, 1838)             | R/LM | UC |
|     | <b>Family: Passeridae</b>                                              |      |    |
| 64. | House Sparrow <i>Passer domesticus</i> (Linnaeus, 1758)                | R/LM | C  |
|     | <b>Family: Sturnidae</b>                                               |      |    |
| 65. | Common Myna <i>Acridotheres tristis</i> (Linnaeus, 1766)               | R    | C  |
|     | <b>Family: Corvidae</b>                                                |      |    |
| 66. | Eurasian Jay <i>Garrulus glandarius</i> (Linnaeus, 1758)               | R/LM | VC |
| 67. | Black-headed Jay <i>Garrulus lanceolatus</i> Vigors, 1831              | R/LM | C  |
| 68. | Yellow-billed Blue Magpie <i>Urocissa flavirostris</i> (Blyth, 1846)   | R/LM | UC |
| 69. | Red-billed Blue Magpie <i>Urocissa erythrorhyncha</i> (Boddaert, 1783) | R/SV | VC |
| 70. | Spotted Nutcracker <i>Nucifraga caryocatactes</i> (Linnaeus, 1758)     | R/LM | UC |
| 71. | Jungle Crow <i>Corvus macrorhynchos</i> Wagler, 1827                   | R    | VC |

## 7. Mammals (Mammalia)

The mammalian fauna of the world includes 4629 species belonging to 1135 genera, 136 families and 26 orders (Wilson and Reeder, 1993). Of these, 390 species belonging to 180 genera, 42 families and 13 orders are found in India. Another 13 orders are found in our country. Out of 180 genera, 61 are monotypic and 105 are represented in our country by a single species. Of the 390 species, 175 are threatened with extinction to various levels, and on that basis 75 have been listed in Schedule I, 73 in Schedule II, 8 in Schedule III and 19 in Schedule IV of the Wild Life (Protection) Act 1972 (Agrawal, 1998). Out of 107 species of mammals found in the state, 21 have been included in Schedule I of the Indian Wildlife (Protection) Act, 1972.

The area under protected area network in the form of National Parks and Wildlife Sanctuaries in the State is 12.87 % of the total area. Circumstantial evidences suggest that population level of most of the species have declined during last 100 years mainly due to

livestock grazing, forest cutting, roads construction and hunting.

#### A) Bajeer Baori, Forest Range Arsoo

A total of 20 species of mammals spread over 13 families and 6 orders have been reported from the Bajeer Baori site. It was interesting to note that the site supported some of the globally threatened species namely Leopard placed under Near Threatened, Sambar placed under Vulnerable and Goral placed under Near Threatened category by IUCN. Besides, some of the mammalian species namely Fulvous Fruit Bat, Rhesus Macaque, Common Langur, Jackal, Bengal Fox, Grey Mongoose, Himalayan Palm Civet, Yellow-throated Marten, Himalayan Weasel, Leopard Cat and Leopard Goral have been placed under various appendices of the Convention on International Trade in Endangered Species (CITES). Further, the site supports a total of 19 species of such mammals which have been protected under various schedules of the Wildlife (Protection) Act 1972.

**Table 16: Mammals reported in Bajeer Baori compartment**

| Sl. No.                                                                   | Species Name                  | Common Name       | CITES | WL(P)A<br>, 1972 | IUCN<br>(2013.2<br>) |
|---------------------------------------------------------------------------|-------------------------------|-------------------|-------|------------------|----------------------|
| <b>Order:</b><br><b>Insectivora</b><br><b>Family:</b><br><b>Soricidae</b> |                               |                   |       |                  |                      |
| 1.                                                                        | <i>Soriculus nigrescens</i>   | Himalayan Shrew   | -     | -                | -                    |
| <b>Order: Chiroptera</b><br><b>Family:</b><br><b>Pteropodidae</b>         |                               |                   |       |                  |                      |
| 2.                                                                        | <i>Rousettus leschenaulti</i> | Fulvous Fruit Bat | II    | V                | -                    |
| <b>Order: Primates</b><br><b>Family:</b><br><b>Cercopithecidae</b>        |                               |                   |       |                  |                      |
| 3.                                                                        | <i>Macaca mulatta</i>         | Rhesus Macaque    | II    | II               | -                    |
| 4.                                                                        | <i>Semnopithecus entellus</i> | Common Langur     | I     | II               | -                    |
| <b>Order:</b><br><b>Carnivora</b><br><b>Family:</b><br><b>Canidae</b>     |                               |                   |       |                  |                      |

|                                                                 |                                 |                        |     |     |    |
|-----------------------------------------------------------------|---------------------------------|------------------------|-----|-----|----|
| 5.                                                              | <i>Canis aureus</i>             | Jackal                 | III | II  | -  |
| 6.                                                              | <i>Vulpes bengalensis</i>       | Bengal Fox             | III | II  |    |
| <b>Family: Herpistidae</b>                                      |                                 |                        |     |     |    |
| 7.                                                              | <i>Herpestes edwardsii</i>      | Grey Mongoose          | III | IV  |    |
| <b>Family: Viverridae</b>                                       |                                 |                        |     |     |    |
| 8.                                                              | <i>Paguma larvata</i>           | Himalayan Palm Civet   | III | II  | -  |
| <b>Family: Mustelidae</b>                                       |                                 |                        |     |     |    |
| 9.                                                              | <i>Martes flavigula</i>         | Yellow-throated Marten | III | II  | -  |
| 10.                                                             | <i>Mustela sibirica</i>         | Himalayan Weasel       | III | II  | -  |
| <b>Family: Felidae</b>                                          |                                 |                        |     |     |    |
| 11.                                                             | <i>Prionailurus bengalensis</i> | Leopard Cat            | I   | I   | -  |
| 12.                                                             | <i>Panthera pardus</i>          | Leopard                | I   | I   | NT |
| <b>Order:</b><br><b>Artiodactyla</b><br><b>Family: Cervidae</b> |                                 |                        |     |     |    |
| 13.                                                             | <i>Cervus unicolor</i>          | Sambar                 | -   | III | VU |
| 14.                                                             | <i>Muntiacus muntjac</i>        | Barking Deer           | -   | III | -  |
| <b>Family: Bovidae</b>                                          |                                 |                        |     |     |    |
| 15.                                                             | <i>Nemorhedus goral</i>         | Goral                  | I   | III | NT |
| 16.                                                             | <i>Boselaphus tragoeamelus</i>  | Nilgai                 | -   | III | -  |
| <b>Family: Hystricidae</b>                                      |                                 |                        |     |     |    |
| 17.                                                             | <i>Hystrix indica</i>           | Indian Porcupine       | -   | IV  | -  |
| <b>Family: Muridae</b>                                          |                                 |                        |     |     |    |
| 18.                                                             | <i>Rattus rattus</i>            | House Rat              | -   | V   | -  |
| 19.                                                             | <i>Mus musculus</i>             | House Mouse            | -   | V   | -  |
| <b>Order:</b><br><b>Logomorpha</b><br><b>Family: Leporidae</b>  |                                 |                        |     |     |    |
| 20.                                                             | <i>Lepus nigricolis</i>         | Black-naped Hare       | -   | IV  | -  |

EN=Endangered, VU= Vulnerable, NT=Near Threatened

## B) Chowai, Forest range Chowai

A total of 16 species of mammals, spread over 12 families and 6 orders were reported from the thickly forested site of Chowai. Further, the site support 4 such species

of mammals namely Sambar placed under Vulnerable category and Leopard, Himalayan Tahr and Goral all placed under Near Threatened category by IUCN.

Besides, some of the mammalian species namely Rhesus Macaque, Common Langur, Bengal Fox, Himalayan Palm Civet, Yellow-throated Marten, Himalayan Weasel, Asiatic Black Bear, Leopard and Goral have been placed under various appendices of the Convention on International Trade in Endangered Species (CITES). Further, the site supports a total of 16 species of such mammals which have been protected under various schedules of the Wildlife (Protection) Act 1972.

Table 27: Mammals reported in Chowai compartment

| Sl. No.                        | Species Name                  | Common Name            | CITES | WL(P)A, 1972 | IUCN (2013.2) |
|--------------------------------|-------------------------------|------------------------|-------|--------------|---------------|
| <b>Order: Chiroptera</b>       |                               |                        |       |              |               |
| <b>Family: Pteropodidae</b>    |                               |                        |       |              |               |
| 1.                             | <i>Cynopterus sphinx</i>      | Short-nosed Fruit Bat  | -     | V            | -             |
| <b>Order: Primates</b>         |                               |                        |       |              |               |
| <b>Family: Cercopithecidae</b> |                               |                        |       |              |               |
| 2.                             | <i>Macaca mulatta</i>         | Rhesus Macaque         | II    | II           | -             |
| 3.                             | <i>Semnopithecus entellus</i> | Common Langur          | I     | II           | -             |
| <b>Order: Carnivora</b>        |                               |                        |       |              |               |
| <b>Family: Canidae</b>         |                               |                        |       |              |               |
| 4.                             | <i>Vulpes bengalensis</i>     | Bengal Fox             | III   | II           |               |
| <b>Family: Viverridae</b>      |                               |                        |       |              |               |
| 5.                             | <i>Paguma larvata</i>         | Himalayan Palm Civet   | III   | II           | -             |
| <b>Family: Mustelidae</b>      |                               |                        |       |              |               |
| 6.                             | <i>Martes flavigula</i>       | Yellow-throated Marten | III   | II           | -             |
| 7.                             | <i>Mustela sibirica</i>       | Himalayan Weasel       | III   | II           | -             |
| <b>Family: Ursidae</b>         |                               |                        |       |              |               |
| 8.                             | <i>Ursus thibetanus</i>       | Asiatic Black Bear     | I     | II           | -             |
| <b>Family: Felidae</b>         |                               |                        |       |              |               |
| 9.                             | <i>Panthera pardus</i>        | Leopard                | I     | I            | NT            |
| <b>Order: Artiodactyla</b>     |                               |                        |       |              |               |
| <b>Family: Cervidae</b>        |                               |                        |       |              |               |
| 10.                            | <i>Cervus unicolor</i>        | Sambar                 | -     | III          | VU            |

|                          |                              |                  |   |     |    |
|--------------------------|------------------------------|------------------|---|-----|----|
| 11.                      | <i>Muntiacus muntjac</i>     | Barking Deer     | - | III | -  |
| <b>Family: Bovidae</b>   |                              |                  |   |     |    |
| 12.                      | <i>Hemitragus jemlahicus</i> | Himalayan Tahr   | - | I   | NT |
| 13.                      | <i>Nemorhedus goral</i>      | Goral            | I | III | NT |
| <b>Order: Rodentia</b>   |                              |                  |   |     |    |
| <b>Family: Sciridae</b>  |                              |                  |   |     |    |
| 14.                      | <i>Petaurista petaurista</i> | Flying Squirrel  | - | II  | -  |
| <b>Family: Muridae</b>   |                              |                  |   |     |    |
| 15.                      | <i>Mus musculus</i>          | House Mouse      | - | V   | -  |
| <b>Order: Logomorpha</b> |                              |                  |   |     |    |
| <b>Family: Leporidae</b> |                              |                  |   |     |    |
| 16.                      | <i>Lepus nigricolis</i>      | Black-naped Hare | - | IV  | -  |

VU= Vulnerable, NT=Near Threatened

### Sources of Information

1. Arora, G.S., Mehta, H.S. and Walia, V.K. 2009. Handbook on Butterflies of Himachal Pradesh: 1-160. (Published by the Director, Zool. Surv. India, Kolkata)
2. Editor-Director. 2005. Fauna of Western Himalaya (Part-2)-Himachal Pradesh: 1-359. (Published by the Director, Zool. Surv. India, Kolkata)
3. IUCN 2019. The IUCN Red List of Threatened Species. Version 2019-2. <https://www.iucnredlist.org>
4. Rau, M.A. 1975. High Altitude Flowering Plants of Western Himalaya. Calcutta: Botanical Survey of India.
5. Collett, H. 1982. Flora Simlensis. Dehradun: Bishen Singh Mahendra Pal Singh.
6. Alfred, J.R.B., Sinha, N. K. and Chakraborty, S.(2002). Checklist of Mammals of India. Published by Director, Zool. Surv.India, Kolkata. Rec. zool. Surv. India, Occ.Paper. 199: 1-289.
7. Thakur, M.L. and Mattu, V.K. 2012. *Birds of Himachal Pradesh, India*. LAP-Lambert Academic Publishing GmbH & Co., Saarbrücken, Germany, 369 pp.
8. Thakur, M.L. 2013. Bird species composition along the altitudinal gradient in Himachal Pradesh (western Himalaya), India. International Journal of Advanced Biological Research, 3 (4): 556-562
9. M.L Thakur, V.K Mattu, 2015. Status of Animal Diversity in Himachal Pradesh (India). LAP LAMBERT Academic Publishing. 120 pp.



10. Thakur, M.L. and Negi, V. 2015. Status and Phylogenetic Analyses of Endemic Birds of the Himalayan Region. *Pakistan Journal of Zoology* 47 (2): 417-426.
11. Thakur, M.L. 2014. Breeding records and nest site preference of Himalayan Griffon (*Gyps himalayensis* Hume) in Himachal Pradesh, India. *American Journal of Research Communication*, 2(3): 141-152.
12. Agrawal, H.P. 1975 a. A check list of molluscs of Himachal Pradesh, India. Part-I. *Cheetal*, 16 (3): 38-41.
13. Agrawal, V.C. 1998. Mammalia. In: *Faunal Diversity in India* (Ed. Alfred *et al.*). Zoological Survey of India, Calcutta, 459-469 pp.
14. Alfred, J.R.B., Das, A.K. and Sanyal, A.K. 1998. *Faunal Diversity in India*. Zoological Survey of India, Calcutta, 497 pp.
15. Alfred, J.R.B., Sinha, N.K. and Chakraborty, S. 2002. *Checklist of Mammals of India*. Zoological Survey of India, Kolkata, 289 pp.
16. Ali, S. 1949. *Indian Hill Birds*. Oxford University Press, Bombay, 188 pp.
17. Ali, S. 1979. *Bird study in India: Its history and its importance*. Indian Council for Cultural Relations, New Delhi.
18. Ali, S. and Ripley, S.D. 1983. *Handbook of the Birds of India and Pakistan* (Compact Edition). Oxford University Press, New Delhi, 737 pp.
19. Arora, G.S., Mehta, H.S. and Walia, V.K. 2005. Insecta: Lepidoptera (Butterflies). In: *Fauna of Western Himalaya (Part 2)*. Zoological Survey of India, Kolkata, 157-180 pp.
20. Chanda, S.K. 1998. Amphibia. In: *Faunal Diversity in India* (Ed. Alfred *et al.*). Zoological Survey of India, Calcutta, 427- 433 pp.
21. Chanda, S.K. 2002. *Handbook of Indian Amphibians*. Zoological Survey of India, Kolkata, 335 pp.
22. Das, I. 1996. *Biogeography of the Reptiles of South Asia*. Krieger Publishing Company, Florida, 87 pp.
23. Das, I. 1997. Checklist of the Reptiles of India with English Common name *Hamadryad*, 22: 32-45.
24. Dhanze, R. and Dhanze, J.R. 2004. Fish diversity of Himachal Pradesh. In: *Fish diversity in protected habitats* . NATCON, Publication, U.P.