CENTRAL EMPOWERED COMMITTEE

(CONSTITUED BY THE HON'BLE SUPREME COURT OF INDIA)

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F. No: 1-19/CEC/SC/2023-Pt. (62)

Dated: 13th April 2023

To

The Registrar Supreme Court of India New Delhi-110001 (Attn: PIL Section)

SUB: CEC REPORT NO. 20 OF 2023 – REPORT OF THE CEC IN IA NO. 87648 OF 2020 IN WRIT PETITION (C) NO. 202 OF 1995 FILED BY THE STATE OF HIMACHAL PRADESH SEEKING PERMISSION OF THE HON'BLE SUPREME COURT TO ALLOW THE STATE OF HIMACHAL PRADESH TO CARRY OUT SILVICULTURE FELLING OF KHAIR (ACACIA CATECHU) TREES IN THE FOREST AREA OF THE STATE IN ACCORDANCE WITH THE APPROVED WORKING PLANS.

Sir.

The Report No. 20 of 2023 filed in W.P. (C) No. 202 of 1995 on the above subject is enclosed (Four copies). It is requested that the Report may please be placed before the Hon'ble Court.

Yours faithfully

(Amarnatha Shetty)
Member Secretary

Copy to:

- 1. Mr. Harish N. Salve, Sr. Advocate & Amicus Curiae.
- 2. Mr. A.D.N. Rao, Sr. Advocate & Amicus Curiae.
- 3. Mr. Siddhartha Choudhary, Advocate & Learned Amicus Curiae
- 4. Mr. K. Parameshwar, Advocate & Amicus Curaie
- 5. Secretary, MoEF&CC, New Delhi
- 6. Chief Secretary, Government of Himachal Pradesh, Shimla
- 7. The Principal Chief Conservator of Forests, Himachal Pradesh, Shimla
- 8. CCF (T) Dharamshala, Government of Himachal Pradesh, Dharmshala
- 9. Standing Counsel for State of Himachal Pradesh
- 10. Standing Counsel for the MoEF&CC
- 11. Applicant / Respondent.

CENTRAL EMPOWERED COMMITTEE

REPORT No. 20 of 2023

IN

I.A. No. 87648 of 2020

IN

W.P. (C) No. 202 of 1995

Filed by:-State of Himachal Pradesh

Dated: 13th April 2023

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CENTRAL EMPOWERED COMMITTEE

REPORT OF THE CEC IN IA NO. 87648 OF 2020 IN WRIT PETITION (C) NO. 202 OF 1995 FILED BY THE STATE OF HIMACHAL PRADESH SEEKING PERMISSION OF THE HON'BLE SUPREME COURT TO ALLOW THE STATE OF HIMACHAL PRADESH TO CARRY OUT SILVICULTURE FELLING OF KHAIR (ACACIA CATECHU) TREES IN THE FOREST AREA OF THE STATE IN ACCORDANCE WITH THE APPROVED WORKING PLANS.

The State of Himachal Pradesh has filed I.A No. 87648 of 2020 in Writ Petition (C) No. 202 of 1995 seeking permission of this Hon'ble Court to allow the State to carry out silviculture felling of Khair (*Acacia catechu*) trees in the forest areas of the State in accordance with the Approved Working Plans. This Application was filed in the back drop of this Hon'ble Court order dated 12.12.1996 in Writ Petition (c) No. 202 of 1995 and para I (3) of the order directed that

"the felling of trees in all forest is to remain suspended except in accordance with the working plans of state government as approved by the central government." 2. This Hon'ble Court by order dated 12.12.1996 has in para III directed as under:

"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 a 'forest'; and which has not been converted from an earlier 'forest'. This ban will 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 fallen trees or fell and remove diseased or dry standing timber from areas other than those notified under Section 18 or Section 35 of the Wildlife 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 State 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."

3. This Hon'ble Court by order dated 11.01.2023 directed as below:

"it will be appropriate that the CEC examines the issue and submits a report to this Court. The report be submitted within a period of six weeks from today.

Put up on 15.03.2023."

4. This Report is being filed pursuant to the order dated 11.01.2023 of this Hon'ble Court and after holding meeting with the Officials of the State of Himachal Pradesh and the MoEF&CC on 10.02.2023 and after site visit to Nurpur District on 7th and 8th March, 2023 by Sh. P. V. Jayakrishnan, Chairman, CEC, Sh. Amarnatha Shetty, Member Secretary, CEC and Sh. Mahendra Vyas, Member, CEC and after perusal of the connected records, the Reports of the Monitoring Committee including the 5th and Final Report dated 30 April 2021 of the Monitoring Committee constituted by this Hon'ble Court as also the Note given to the CEC by the PCCF and HoFF, Himachal Pradesh.

BACKGROUND:

- 5. The State of Himachal Pradesh is situated in the Trans-Himalayan and Himalayan Bio-geographic Zones. These zones comprise of three Biotic Provinces namely Trans Himalaya Ladak Mountains, Trans Himalaya Tibet Plateau, North West Himalaya and West Himalaya as per classification of bio geographic zones of India by Rodgers et. al. Presence of the Shivaliks, Western Himalayas and Trans-Himalayan region has blessed the State with diverse eco-systems that harbour rich bio-diversity.
- 6. The recorded forest area legally classified is spread over an area of 37,948 sq. km accounting for 68.16% of the geographic area of the State. Forest cover of the State has been assessed to be 15,443 sq. km which is 27.73 % of the total geographic area. Diversity of forest eco-system is exemplified by the presence of 8 forest types and 37 forest subtypes as per classification of forest by Champion and Seth (1968). Himalayan Moist Temperate Forest (Group 12) occupies the largest area among all the forest types.

- 7. The State has 3163 sq. kms under Very Dense Forests (VDF), 7100 sq. kms under Moderate Dense Forest (MDF) and 5,180 sq. kms under Open Forests (OF) which is about 12%. Forests of Himachal Pradesh are distributed across all the bioclimatic zones that are found in the State. Dharmshala Circle (Territorial) covers 1,63,989 ha of forest area comprising of three divisions, Nurpur (5302 ha.) Dharamshala (61062 ha.) and Palampur (49525 ha.)
- 8. The State of Himachal Pradesh has filed IA No. 3840 of 2014 seeking permission of this Hon'ble Court for carrying out silvicultural felling including thinning and other cultural operations upto an elevation of 1500 m above MSL in Chirpine, Khair and Broad Leaved Forests. The silvicultural felling is to be in accordance with the working plans approved by the Government of India.

RECOMMENDATIONS OF CEC IN I.A NO. 3840/2014

- 9. CEC filed Report dated 6th July 2017 in IA No. 3840 of 2014 in Writ Petition (c) 202 of 1995 with the following recommendations:
 - i) the permission for silvicultural fellings including thinning in the State of Himachal Pradesh be limited to only three working circles of Chil, Sal and Khair occurring below 1500 MSL to encourage regeneration of the forests aimed at achieving mixed species forests with multi layered canopy having more efficient carbon sequestration capability;
 - ii) no felling of broad leaved species be permitted in the compartments to be taken up for regeneration fellings of the above three working circles or in the miscellaneous/broad leaved working circle irrespective of the recommendations in the Working Plan;
 - iii) 764 ha. of Eucalyptus trees proposed for felling as per Working Plan prescriptions be permitted to be felled and the same area regenerated with native broad leaved species;
 - iv) rotation of Sal and Chil to be 120 years and are worked under irregular shelter wood system;
 - v) rotation age of Khair be kept at 30 years with minimum dia of 25 cms. at breast height;
 - vi) there will be total ban on burning of debris including after seeding or over wood felling in order to encourage natural regeneration of broad leaved species and reduce soil erosion;
 - vii) no felling to be undertaken in Ban oak forests and other broad leaved forests other than Sal and Khair;

- viii) planting component in Assisted Natural Regeneration shall include more than 50% seedings of native broad leaved and multipurpose use species other than that of the principal species;
- ix) the removal of Lantana weed to be an integral component of regeneration felling and the removal of Lantana has to be completed before the felling operations commence, so that the regeneration of felled area is taken up forthwith;
- x) in Khair working circle a minimum of 50 healthy trees per ha. are identified in advance, at least two years prior to the proposed felling in the compartment and labelled as mother trees or standards and these trees are not permitted to be lopped thereafter;
- xi) the size of the compartment to be taken up for regeneration felling in a given year shall not exceed 20 ha. If any compartment is more than 20 ha. in area, it can be sub-divided into two or more units so as to avoid creation of large gaps in canopy of forests in a given location;
- xii) the felling operations in the adjoining forest area/compartment of the already felled area/compartment be taken up only after five years of regeneration felling in the given compartment and after ensuring that the regeneration is established in the already cleared forest area;
- xiii) adequate soil and moisture conservation measures are to be undertaken in regeneration area;
- xiv) no green fellings are to be carried out in steep slopes and along streams and nallas as per the standard prescription in the Working Plan code and in the forest areas falling under Protection cum Rehabilitation Working Circle;
- xv) State Government shall prepare three separate comprehensive management plans one each for Chil, Sal and Khair respectively covering the entire forest area falling below 1500 MSL incorporating revised set of

prescriptions as detailed in this report as one time exercise and after obtaining approval of MoEF&CC, integrate the same with the Working Plans of respective forest divisions for operational purposes; and

xvi) State Government shall submit an undertaking in the form of an Affidavit before the Hon'ble Supreme Court ensuring sufficient budgetary provisions for undertaking regeneration of the felled area in the financial year following the felling year.

ORDERS DATED 16.2.2018 OF THIS HON'BLE COURT IN I.A NO. 3840.2014

10. This Hon'ble Court by order dated 16.02.2018 directed that on an experimental basis they permit Silvicultural felling of trees to a very limited extent and such felling should be monitored very carefully to see whether such Silvicultural felling actually helps in the regeneration of forests or not. This Hon'ble Court also noted that the CEC, in its Report has also permitted felling of trees subject to certain conditions. This Hon'ble Court further noted that the CEC has recommended that the size of the Compartment taken up for regeneration in a given area shall not exceed 20 ha. This Hon'ble Court reiterated that the State shall be bound by all the conditions laid down by the CEC including the condition that no compartment of more than 20 ha.

shall be felled at one go. In addition to the conditions laid down by the CEC, the following conditions shall be strictly complied by the State of Himachal Pradesh.

- the felling should be done directly by the Forest Department or by the Himachal Pradesh State Forest Corporation and the work of felling should not be handed over or given on contract to any private agency;
- ii) the Forest Department should ensure that videography of each beat where felling is to be done, is done separately at regular intervals to clearly indicate the condition and state of the forest before felling, during felling and after felling;
- iii) as far as Khair trees are concerned, the State shall ensure that at least 25% of mature Khair trees are retained as mother trees and these should be marked and numbered as trees not to be felled, which should be clearly reflected in the videography. The trees to be felled can be marked by a separate colour. The number, size and girth of the trees should be clearly spelt out;
- iv) as far as Chil Pine and Sal trees are concerned, the State shall ensure that at least 40 mature trees are retained per hectare and the other conditions will be the same as applicable to Khair trees;
- v) in addition to the conditions laid down in the Working Plan and those laid down by the CEC, the State of Himachal Pradesh shall ensure that adequate funds are made available and re-afforestation is done either simultaneously or if it is not possible, immediately after felling is completed in each block of 20 hectares;

- vi) it should also be ensured that these forest areas are kept free from grazing and are protected;
- vii) the State should also ensure that sufficient number of healthy saplings are planted so that there is proper regeneration of the forest;
- viii) this entire programme of experimental silviculture felling shall be done under the supervision and guidance of two- Member Committee headed by Shri V.P. Mohan, IFS (Retd.), former Principal Chief Conservator of Forests, Himachal Pradesh. The second member of this Committee shall be nominated by the Vice Chancellor, Dr. Y.S. Parmar, University of Horticulture and Forestry, Nauni, Solan, Himachal Pradesh. The Second member shall be a Professor of Silviculture.

COMPARTMENT TO BE A UNIT OF MANAGEMENT

11. This Hon'ble Court by order dated 30.10.2018 has accepted the recommendation made by the Monitoring Committee in its First–Six Monthly Report that the compartment to be a unit of Management. This Hon'ble Court by order dated 30.10.2018 has further approved Silvicultural felling on experimental scale over 903.14 ha. in the year 2018-2019 and 706.30 ha. in the year 2019-20 in place of earlier approved area of 20 ha. per annum.

KEY TAKEAWAYS FROM THE EXPERIMENTAL SILVICULTURE OPERATIONS CARRIED OUT BY THE STATE GOVERNMENT UNDER THE GUIDANCE OF THE MONITORING COMMITTEE.

12. The CEC has perused all the Reports including the Fifth and Final Report submitted by the Monitoring Committee. In fact the two-member Monitoring Committee consisting of Shri V.P. Mohan and Dr. Bhardwaj has filed the following Reports before this Hon'ble Court:

First Report	15 th August 2018	
Second Report	15 th February 2019	
Third Report	30 th August 2019	
Fourth Report	15 th February 2020	
Fifth and Final Report	30 th April 2020	

13. "Compartment" has been taken as the unit of Management. Pursuant to the orders dated 16.2.2018 and 30.10.2018 by this Hon'ble Court. 50 compartments of forests in District Nurpur were taken up for undertaking experimental Silviculture Operations in respect of Khair (*Acacia catechu*). Out of the 50 forest compartments selected, Silviculture Felling Operations were carried out in respect of 38 compartments while only

regeneration activities were carried out without felling of trees in respect of balance 12 forest compartments. The total area of the forest involved in the Experimental Silviculture Operations in Nurpur in respect of Khair Working Circle was 1609 ha. A copy of the Statement showing the details of 50 compartments where regeneration of Khair was undertaken on experimental scale is enclosed as **ANNEXURE-R-1** to this Report.

The CEC has also gone through the Note given by the PCCF and HoFF, Himachal Pradesh following the visit of CEC to District Nurpur.

- 14. The operations carried out in each of the forest compartments involved the following:
 - Demarcation, Boundary Pillars and Fencing: The (a) boundaries of each of the compartments selected for silvicultural operations were demarcated with the help of GPS (GIS Survey) and Geo referenced maps were prepared. the During process of survey demarcation of the compartments. The Department came across encroachments in respect of 12 un-demarcated protected forests along the forest boundaries. While fencing the forest boundaries the encroachments were evicted in 9 out of 18 areas and planting was undertaken on the evicted forest land. The Monitoring Committee has recommended eviction of balance encrocahments.

- (b) Enumeration of trees: 100% enumeration of trees have been carried out in each of the compartments selected for silviculture operations. Enumerations in respect of 21 compartments covering an area of 432 ha. were done in 2018-19 and balance 29 number of forest compartments were enumerated during the year 2019-20.
- (c) **Silvicultural markings**: During 2018-19 and 2019-20 silvicultural markings of Khair trees, proposed to be felled, have been done. The Mother trees to be retained are given broad while band which is visible from a distance.
- (d) Felling and extraction works: The extraction and felling operations were entrusted to Himachal Pradesh State Forest Development Corporation (HPSFDC). A total of 87046 Khair trees were enumerated in 50 compartments and it was found that 49,290 trees were of girth below 25 cm. while the remaining 37756 trees were of girth above 25 cm. Out of 37756 trees having girth about 25 cms, only 14329 trees were felled while 23.427 trees have been retained. The felled trees have been converted and removed from the forest by the HPSFDC. A statement showing the list of trees that have been enumerated and felled in respect of the 50 forest compartments in which silviculture operations were carried out is enclosed as ANNEXURE-R-2 to this Report.
- (e) Fencing: Five strand barbed wire fencing including one cross strand using concrete pillars strongly anchored in the ground with cement concrete on ground and side supports has been prescribed. Fencing of the proposed regeneration compartments is mandated to be done before the re-generation work commences. Fencing of the compartments for Silvicultural Operations have been taken up during 2018-19 and 2019-20 in order to achieve complete closure of the area and to prevent grazing and

trampling of plants / seedlings land by the cattle. The 5th and Final Report of the Monitoring Committee states that in most of the compartments the fencing work had not been completed before the planting operations commenced.

(f) **Planting** Regeneration and Operations: Regeneration of the felled forests have been undertaken during the rainy season/ planting season using tall seedlings, more or less of same species, naturally occurring in the district. The regeneration of the area is achieved through coppice growth, artificial regeneration planting and natural to development of broad leaved mixed forest. While taking up plantation it was ensured that at least 50% of the seedling used were other than the Khair species (Acacia catechu).

RE-GENERATION STRATEGY:

15. The silviculture system is selection system for felling and coppice with standard is for regeneration and need to be practiced for best results. It needs to be ensured that at least 25% of mature Khair trees are retained as mother tees and these should be marked and numbered as trees not to be felled. The trees to be felled can be marked by a different colour. The, size and girth of the trees should be clearly spelt out. Retention of 50 trees per ha or 25% of the total number

of trees enumerated as mother trees, whichever is less, has largely worked and can be replicated.

- 16. While supervising and monitoring Experimental Silvicultural Fellings Programme from February 2018 to April 2021 and based on field observations, a three pronged strategy was adopted by the Monitoring Committee as below:
- (i) The first intervention of felling of only mature trees, after retention of adequate number of mother trees as seed bearers, under the prescribed Silvicultural System creates canopy opening thereby creating favourable conditions for natural re-generation.
- (ii) A big problem with natural regeneration is that it is rather slow growing with a high mortality rate and uncertain growth pattern under rather hostile site conditions. Seed production from retained mother trees is primarily a specific character. All species do not seed annually and in equal abundance. Good seed vears occur at intervals. ln circumstances complete reliance on rather slow and uncertain pace of natural regeneration is considered somewhat risky to ensure adequate regeneration and restocking of a felled forest to its full potential.
- (iii) Therefore, on completion of felling operations and after closure and fencing, it has been ensured that natural regeneration gets supplemented with nursery grown tall plants of principal species and other broad leaved species which are seen growing in the forests under treatment. Khair is a good coppicer and the success rate is as high as 90%. In

other words, while natural regeneration has to be encouraged the same must be supplemented by artificial regeneration to ensure complete regeneration.

- 17. The re-generation operations were undertaken keeping in view the aforementioned re-generation strategy. Natural regeneration through coppice has been very successful. However, natural regeneration from seed origin has been deficient. Therefore, artificial regeneration operations had to be undertaken. The number of plants to be planted per hectare was decided on the basis of site requirement and ranged from 200 to 800 plants per ha. The principal species Khair, of these forests constituted the major proportion in case of enrichment planting. Artificial regeneration operations which meant planting of tall nursery grown plants has been done on priority in the felled areas which have been fenced. The natural regeneration was encouraged by providing enabling conditions.
- 18. Species diversity is the most commonly used representation of ecological diversity. Species diversity is defined as the number of species and abundance of each species living within a certain location. Genetic diversity is the

most important component of bio-diversity and is the basis of all bio-diversity and foundation of eco system sustainability and stability.

- 19. Ecosystems with higher species diversity can be more efficient and are generally more stable and resistant to disaster than those with fewer species because substantial number of species consist of many different traits which can contribute to various ecosystem functions.
- 20. Unlike monoculture plantations, mixed species plantations because of their diversity are acclaimed as more environment friendly, sustainable and more resistant to damage inflicted by storms, pests or diseases. In addition to their ability to prevent soil erosion and increase bio diversity, mixed species plantations have also been found to have higher yield and better growth performance when compared to monoculture plantations. Therefore it can be concluded that, for overall balance, mixed forest having high biodiversity can add colour to life by taking care of aesthetics, soil moisture regime and climate maintenance. Also mixed forests can be the best habitat

for a diverse range of fauna which will further enrich the landscape and its utilization and will reflect almost perfect management from bio diversity enrichment point of view.

21. The floristic composition of the forest reflects that only 0 or 2 % Khairs is available in the forests of Nurpur. These forests are mainly chil forest under chil working circle and the major crop is chirpine. Therefore, the sparse and sporadic growth of khair available in these forests is being managed under khair overlapping working circle under coppice with standard selection system.

ERADICATION OF LANTANA:

22. The Eradication of Lantana weed should be an integral component of regeneration felling. Therefore the removal of Lantana must be completed before the felling operations commence so that the regeneration of the felled area is taken up forthwith. Successful regeneration would depend on successful Lantana management. It is imperative that Lantana management operations are carried out in accordance with the protocol with no deviation. Staff must be adequately trained and

must go through refreshers courses at regular intervals. It has also been noticed that wherever correct protocol for Lantana management has not been followed, the results of regeneration are not commensurate with the efforts and funds spent. The success of any silvicultural operation cannot be there without management of Lantana in accordance with the protocol. Planting bamboo which grows fast can cover the exposed soil in a better way in these areas thereby leaving no scope for further spread of Lantana. Including Bamboo in plantation mix for such type of areas can therefore be of immense help.

23. Adequate soil and moisture conservation measures will have to be undertaken in regeneration area. One of the most susceptible elements of the landscape is the soil. The water conservation capacity of the litter-soil continuum which indicates the complex bio geo chemical processes between the litter and soil regulate changes in forest hydrology. As the area is having little rainfall and soil water retention capacity too is limited, creation of small water storage structures and check dams to strengthen water regimen can go a long way in enriching soil and regulating soil moisture regime.

BAN ON BURNING AND FIRE PROTECTION:

24. The Monitoring Committee has prescribed total ban on burning of debris arising from felling and weeding operations to encourage natural regeneration and reduce soil erosion. Cleaning/clearing of fire lines along the boundary fence is to be undertaken to protect the natural regeneration and plantation from damages of fire.

REGENERATION SURVEY:

25. The Monitoring Committee has prescribed standard procedure for all the compartments after the same has been regenerated at successive intervals. The standard form prescribed for recording regeneration survey needs to be scrupulously followed. The natural re-generation from seed origin has not been very encouraging. Re-generation through coppice has been found to be good. Regeneration through renewal planting has been found to be good in most of the forest is and in some of the forest it was close to 100%.

26. Revival of Subsidiary Silvicultural Operations and interventions such as cleaning, thinning, control burning for disposal of slash, creation and maintenance of fire lines requiring felling of green trees is mandatory if health of a forest is to be taken care of and area is to be managed professionally for payment of Ecological Services.

SCHEDULE FOR IMPLEMENTATION OF THE SILVICULTURAL OPERATIONS

27. The Monitoring Committee after the experience of felling and planting operations during 2018-19 to 2020-21 have prescribed Schedule of Operations to be undertaken while implementing the Working Plans so as to achieve the best results. The operations are spread over three successive years. In the first year pre-planting operations including Survey, Demarcation, Marking and Felling Operations will be undertaken. The Monitoring Committee has concluded that unless a time table for felling / regeneration is in place for immediate urgent compliance it will be a totally futile exercise to carry out silvicultural fellings. The felling and extraction of the silviculturally marked trees should be completed by March end of a given calendar year and fencing operations have to commence immediately thereafter and completed well before the ensuing rainy season for ensuring best regeneration. The Monitoring Committee has suggested implementation of time table in this regard. The time-table containing various operations that are required to be undertaken in the first three years of operation, as slightly amended by CEC, is enclosed at ANNEXURE-R-3 of this Report. A copy of the Fifth and Final Report of the Monitoring Committee constituted by this Hon'ble Court is enclosed as ANNEXURE R-4 to this Report.

OBSERVATIONS AND RECOMMENDATIONS

SCIENTIFIC MANAGEMENT OF FORESTS:

28. The general character of the vegetation type of forests falling in the zone below 1500 M altitude in the State of Himachal Pradesh comprises of mainly Khair (Acacia catechu) and sal forest (Shorea robusta) in the lower altitudes and Chil (Pinus roxburghii) in the higher altitudes. There are intermediate

zones of distribution and wherein Chil and Sal and Chil and Khair are seen intermixed. Prior to the order dated 12.12.1996 of this Hon'ble Court these forests were managed, as per the provisions in the Working Plan, for enhancing the productivity of forests.

WORKING CIRCLES:

- 29. The Working Plan divides the forest area under management into different working circles. Working Circles are units of forest areas having similar and specific management objectives and similar prescriptions of treatment for achieving the given management objectives. The Working Circles may have independent territorial identity or the working circle boundaries may overlap with other working circles.
- 30. The Khair (*Acacia catechu*) is managed under Khair Working Circle (stand-alone), Plantation Working Circle or Khair Overlapping Working Circle. As seen in the Current Working Plans in Himachal Pradesh, Khair overlaps with Chir Pine (chil) Working Circle. The total area of 1,25,241 ha of Khair forest is

Khair Overlapping Working Circle is spread over seven forest divisions.

On an analysis of enumeration and data collected in 31. respect of 50 forest compartments taken up for experimental silvicultural operations in Nurpur Forest Division it is seen that in a vast majority of the compartments broad leaved trees are dominating / prevailing. The proportion of Chil (Chir pine) trees in comparison with Khair and other broad leaved trees are significantly lower in many compartments and it is even zero in some compartments in Jachh and Kopra forest areas in Nurpur division. Therefore it is necessary that at the time of review and revision of the Working Plan, placing of such compartments appropriate Primary Working Circles of Khair / Miscellaneous broad leaved instead of the present system of placing treating such Working Circles to overlap with Chir Working Circle. In the absence of Chil trees, the compartments are covered with broad leaved species including that of Khair. In the circumstances there is no scientific reason to manage such compartments for chil (Chir Pine). All such compartments with predominance of Khair may be considered for placing under Primary Khair Working Circle. Compartments with predominance of chil and lesser presence of Khair can be continued as Khair Overlapping Working Circle.

32. During the site visit on 7th and 8th March 2023, CEC visited the following forest compartments where silvicultural operations had been taken up:

SI. No.	Forest Compartm ent code	Compartment no.	Area	Year of planting
1	N1	R1N Tattal C3	59.08 ha (RF)	2019-20
2	N-7	U 20 Punder C 11	50.58.ha	2018-19
3	N 16	U 20 Punder C 10	23.88 ha	2019-20
4	N 43	UP 20 Sadwan C1	20.64 ha	2019-20
5	N 43	UP 10 Sadwan C1	12.64 ha	2021-22
6	N 48	UP 20 Sadwan C6	23.47 ha	2020-21
7	N 32	UP 16 Kopra Beat Aund C 11	42.89 ha	2019-20

33. A most notable feature of the Regeneration activity is the almost perfect barbed wire fencing of the regeneration area. This has effectively prevented grazing pressure and facilitated recuperation of the root stock of all the native species within the fenced area.

- 34. The compartments are full of vegetative growth. Natural regeneration of Khair was observed in open area. The success rate of artificial regeneration using tall plants has been found to be very encouraging. The coppice regeneration of Khair is in proportion to the number of live khair trees felled. Strong coppice growth is seen from felled stumps. The Department has reduced the excess coppice shoots and retained two to three promising coppice shoots. Ultimately the most promising one or two coppice shoots which originate close to the soil are required to be retained to form the future Khair crop.
- 35. In a few compartments where Lantana Eradication Works were carried out, isolated growth of Lantana has been seen. These should be removed at the earliest. A continuous watch is essential to eliminate Lantana as and when it shows up.
- 36. In compartment Sadwan C1 grafted mango plants planted by the encroachers is yet to be removed. The Forest Department was asked to remove such cultivated trees and that too standing adjacent to the boundary of the land of the

encroachers. In all probability the fruits will be plucked by the encroacher himself.

A few photographs, taken during the site visit of the CEC and those submitted by the Forest Department, indicating the current status of forests / regeneration / encroachments in areas taken up for silvicultural operations are enclosed as **ANNEXURE-R-5 (Colly)** to this Report.

37. A block of Khair plantation has been raised in part of the Sadwan C 1 compartment. No felling of Khair trees have been done in the plantation area. It appears that the trees are more than 30 years old. The plants are seen growing close to each other but no thinning operations have been carried out. Management of plantations should have different prescriptions when compared with trees growing naturally.

IMPROPER REMOVAL OF LANTANA IN COMPARTMENT NO. C 11 IN KOPRA:

38. Towards the end of the day on 8th March 2023 CEC visited Compartment UP 16 Kopra C-11 measuring 42-89 ha.

Since darkness had already set in the CEC could not traverse through the entire compartment. However, CEC did notice that Lantana bushes were predominant in this compartment. These Lantana bushes were seen covering the ground thereby suppressing natural generation. The CCF Dharmshala was requested to verify the works carried out in all the Compartments of Kopra and furnish details of verifications made along with photographs showing the actual status of regeneration and existence/absence of Lantana in these compartments. The CCF after verification informed the CEC as below:

- (i) Four compartments were approved for experimental silviculture felling in Kopra Forest.
- (ii) The total area of compartment C 11 is 42.89 ha and Lantana management operations were carried out in this plantation before felling operations commenced.
- (iii) As per the assessment done in 2018-19 Compartments had 100% infestation of Lantana.
- (iv) As of 2023 about 25-30% of the treated area is covered by Lantana.
- (v) As per the video records of 2018-19, Lantana was cleared in 2018-19. While removing Lantana it appears that the CRS method was not fully complied with. But in subsequent years Lantana was not removed.

- (vi) After the visit of CEC Lantana Management Work has since commenced and will be completed in a time bound manner.
- (vii) As per the latest regeneration survey this compartment has 68.62% coppice regeneration and 45% survival of planted seedlings and only 2% natural regeneration of Khair.
- (viii) Lantana Eradication Works have been successfully carried out in all other compartments in Kopra. However in Kopra Compartment C 9, the survival percentage of plantation has been low because the fence found was missing over a length of 40-50 m and therefore the stray cattle had easy entry to the area and in the process damaged the regeneration. The Department has initiated corrective action. A copy of the Report of Dr R Kaushal, CCF Dharmshala received by CEC is enclosed as ANNEXURE-R-6 to this Report. A few photographs showing the presence of Lantana in the C-11 Kopra Compartment is enclosed as ANNEXURE-R-7 (Colly.) to this Report.

It is imperative that for the success of regeneration complete eradication of Lantana is essential and this can be ensured only through regular inspection of plantation by the senior officers.

39. The outcome of silvicultural felling of trees on an experimental basis permitted by this Hon'ble Court by order dated 16.02.2018 has yielded positive results and needs to be replicated in the remaining forest areas falling below 1500 MSL.

- 40. As per the information made available to CEC there are altogether 10 forest divisions and in all the 10 forest divisions Khair is being managed under Khair (overlapping) working circle, mostly overlapping with the Chil working circle. Government of India approved working plans are available in respect of five forest divisions and in respect of rest of the five forest divisions the period of working plan has expired. A statement showing the 10 forest divisions and the current status of availability of approved working plans is enclosed as **ANNEXURE R-8** to this Report.
- 41. Keeping in view of the discussions in the preceding paragraphs the following is recommended for consideration of this Hon'ble Court:
- i) subject to availability of Government of India approved working plans permission for silvicultural felling including thinning in the State of Himachal Pradesh in respect of Khair Working Circles be limited to forest areas occurring below 1500 MSL in ten forest divisions as seen in Annexure so as to encourage regeneration of the forests aimed at achieving mixed species forests with multi layered canopy;

- ii) the removal of Lantana weed to be an integral component of regeneration felling and first round of removal of Lantana has to be completed as per standard prescribed procedure before the felling operations commence;
- iii) the eradication operations of Lantana shall continue during 2nd and 3rd years of operations so as to ensure total elimination of the weed;
- iv) the mother trees / seed bearer trees are to be identified in advance i.e. at least one or two years prior to the proposed felling in the compartment and labeled as mother trees or standards and these trees are not permitted to be lopped by locals thereafter;
- there will be total ban on burning of debris including after seeding or over wood felling in order to encourage natural regeneration of broad leaved species and reduce soil erosion;
- vi) the demarcation and survey of boundaries and fencing of the area are to be scrupulously carried out as prescribed in the Reports of the Monitoring Committee and as prescribed in schedule;
- vii) no felling of broad leaved species be permitted in the compartments to be taken up for regeneration felling irrespective of any recommendations which might have been made in the Working Plans;
- viii) regeneration of Khair is undertaken through coppice with standards as well as artificial planting. 50 trees per ha. or 25% of the total number of trees enumerated whichever is less is retained as mother trees. In respect of pure Khair plantations the first two rotations regeneration is achieved through coppice supplemented by planting seedlings in gaps;
- ix) rotation age of Khair be kept at 30 years with minimum dia of 25 cms at breast height in respect of natural forests. However, in respect of pure plantations of Khair same rotation age of 30 years be followed without a limit on the

- girth of trees and such plantations are regenerated through coppice for at least another two rotations and supplemented with artificial regeneration;
- x) each compartment will act as unit of regeneration area in Khair Working Circle. The officer in charge of the Forest Circle, while preparing the First Preliminary Working Plan, will fix an annual target for taking up silvicultural fellings of Khair in the working plan of a given forest division after dividing by twenty the total number of compartments in Khair working circle in a given territorial forest circle;
- xi) as far as possible the felling operations in the adjoining forest compartment of the already felled area/compartment in Khair Working Circle are to be taken up only after 5 years of regeneration felling in the given compartment and after ensuring that the regeneration is established in the already cleared forest area. This will ensure that the large tracts of the forest in a given locality are not closed for grazing at any given time and also large gaps are not created within the forest;
- xii) planting component in Assisted Natural Regeneration shall include at least 50% seedlings of native broad leaved and multipurpose use species and the rest shall be of Khair;
- xiii) all the un-authorized occupation of forest land within the forest area are evicted before undertaking planting of the compartments selected;
- xiv) adequate soil and moisture conservation measures are to be undertaken in regeneration area;
- xv) no green felling are to be carried out in steep slopes and along streams and nallas as per the standard prescription in the Working Plan Code and in the forest area falling under Protection cum Rehabilitation Working Circle;
- xvi) the State Government shall prepare Comprehensive Management Plan covering the entire forest area under Khair Working Circle falling below 1500 MSL in the State incorporating revised set of prescriptions as detailed in this Report as well as the recommendations in the Report

of the Monitoring Committee as one time exercise and integrate the same with the Working Plans of respective forest divisions at the time of revision of working plans for operational convenience;

- xvii) current placement of compartments under different working circles are not scientific and hence a review of the same is necessary. Each of the forest compartment is placed under appropriate working circle at the time of review and revision of the working plan taking into account the management objectives.
- xviii) all regeneration areas are to be inspected at least once in a year either by the PCCF and HOFF or by the officers at the level of PCCF / APCCF working at Forest Headquarters deputed by the PCCF and HoFF. The inspecting official should record the observations/guidance in the Plantation Journal; and
- xix) the schedule of operations given at Annexure R-4 of this Report should be scrupulously followed by field level officers.

The conditions mentioned above are in addition to the prescriptions as given in the Working Plan approved by the MoEF&CC, Government of India.

42. Mr. Mahendra Vyas, Member was requested vide email dated 24.3.2023 to give his inputs to the report being drafted on this I.A. No inputs from Mahendra Vyas was received till the draft report was prepared by the CEC. The draft report was circulated to all Members through email on 10th April 2023. After receipt of the draft report Mr. Mahendra Vyas had sent an email

dated 10th April 2023 stating as follows "I will give my inputs

latest by day after tomorrow". No inputs have been received till

12.00 noon today from Mr. Mahendra Vyas. If any inputs are

received in future, it will be filed by the CEC before this Hon'ble

Court. The other Members have concurred with the draft

circulated on 10.4.2023.

This Hon'ble Court may please consider the above Report

of the CEC and may please pass appropriate orders.

Amarnatha Shetty)

Dated: 13th April 2023



List of Forests worked under the Experimental Silvicultural Fellings in Nurpur Range

	L	ist of 50 final Silvicultural	Area
Sr No	Code No	Name of Forest	Area in Hac
1	N-1	R1N Tattal C3c	59.08
2	N-2	U 20 Punder C1	20.23
3	N-3	U 20 Punder C2	51.39
4	N-4	P 41 N Paniaru C1	12.55
5	N-5	P 41 N Paniary C2	14.16
6	N-6	U 20 Punder C10	23.88
7	N-7	U 20 Punder C11	50.58
8	N-8	U 20 Punder C12	29.54
9	N-9	U 20 Punder C14	38.85
10	N-10	U 20 Punder C15	64.74
11	N-11	U 20 Punder C16	62.31
12	N-12	U 20 Punder C9	46.93
13	N-13	R1N Tattal C1b	39.66
14	N-14	R1N Tattal C1c	40.86
15	N-15	R1N Tattal C2c	80.52
16	N-16	R1N Tattal C3b	60.70
17	N-17	U 20 Punder C3	32.78
18	N-18	U 20 Punder C6	
19	N-19	U 20 Punder C7	20.64
20	N-20	U 20 Punder C8	36.42
21	N-21	U 20 Punder C13	41.26
22	N-22		10.92
23	N-23	U 20 Punder C4	21.04
24		U 20 Punder C5	17.40
	N-24	P41 N Panaru C4	26.70
25	N-25	R1N Tattal C1a	87.00
26	N-26	R1N Tattal C2b	46.53
27	N-27	R1N Tattal C3a	27.82
28	N-28	R1N Mehdhar C1	52.20
29	N-29	R1N Mehdhar C2	96.29
30	N-30	CFS Jachh P1	4.86
31	N-31	CFS Jachh P2	9.71
32	N-32	UP 16 Kopra C11	42.89
33	N-33	UP 26 Baral C2	24.28
34	N-34	UP 26 Baral C3	12.14
35	N-35	UP 14 Thora C1	17.00
36	N-36	UP 14 Thora C2	44.51
37	Ņ-37	. UP 14 Thora C7	17.81
38	N-38	UP 14 Thora C11	6.07
39	N-39	UP 15 Galore C1	29.95
40	N-40	UP 16 Kopra C9	32.78
41	N-41	P35N Kopra C1	10,52
42	N-42	P35N Kopra C2	9.31
43	N-43	UP 10 Sadwan C1	20.64
44	. N-44	UP 10 Sadwan C2	6.27
45	N-45	UP 10 Sadwan C3	14.16
46	N-46	UP 10 Sadwan C4	21.85
.47	Ņ-47	UP 10 Sadwan C5	26.30
48	N-48	UP 10 Sadwan C6	23.47
49	N-49	UP 10 Sadwan C7	10.92
50	N-50	UP 10 Sadwan C8	10.92
		Total	1609.34

ANNEXUKE-R-2

		DETAIL OF RE	TOW/25 CM AF	UD AROVE 25	CM KHAIR TRI	CE DETAIN	C SERBINI NU CES	TE WITH THE TE	A TAGETT	DT 6	
Sr.NO	Compartment Code	Name of Compartment	Compartment No	Total Area in	Total Khair Tree		Total Number of Tree above 25 Cms	Trees Retained	No. Of Khair trees felled	Total No. Of Chirpine enumerated (above to 10 cm)	Other Broad leaved (above 10 cm)
	N1	RIN TATTAL	C3C	59.08	2347	1108	1239	131	1108	868	10633
	N2	U20 PUNDER	C1	20.23	198	60	138	119			4817
	N3	U20 PUNDER	C2	51.39	. 705	660	45	45	0	}	1036
	N4	P41 PANIARU	C1	12.55	67	. 21	46	35	11		2351
	N5	P41 PANIARU	C2	14.16	16	3	13	7	6	<u> </u>	643
	N6	U20 PUNDER	C10	23.88	851	383	468	338	130	J	3793
	N7	U20 PUNDER	C11	50.58	2152	1917	235	151	84	309	4170
	N8	U20 PUNDER	C12	29.54	1711	1257	454	339	115	210	2388
	N9	U20 PUNDER	C14	38.85	0	0	0	· 0	0		1232
	N10 🔩	U20 PUNDER	C15	^ 64.74	4374	3209	1165	· · 994	171	190	2336
	N11	U20 PUNDER	C16	62.31	757	369	. 388	388	0		649
	N12	U20 PUNDER	C9	46.93	0	0	0	0	-	0	0
		RIN TATTAL	C1B	39.66	5281	2896	2385	1209	1176	336	11448
		RIN TATTAL	C1C	40.86	1088	154	934	57	877	1567	37848
	N15	RIN TATTAL	C2C	80.52	5026	3571	1455	260	1195	768	271
	N16	RIN TATTAL	C3B	60.7	3852	1496	2356	1473	.883	354	30339
		U20 PUNDER	C3	32.78	5819	2935	2884	2518	366	131	4639
		U20 PUNDER	C6	20.64	314	92	222	132	90	19	7428
		U20 PUNDER	C7	36.42	. 3903	2748	1155	1155	0	139	8391
		U20 PUNDFR	C8	41.26	216	98	118	60	. 58	4361	5515
		U20 PUNDER	C13	10.92	1048	775	273	193	80	153	957
		U20 PUNDER	C4	21.04	26	16	10	10	0	109	3263
		U20 PUNDER	C5	17.4	69	52	17	17	0	65	5876
		P41 PANIARU	C4	26.7	229	138	91	37	54	110	5451
		RIN TATTAL	C1A	87	3212	1433	1779	1083	696	81	21330
		RIN TATTAL	C2B	46.53	5094	2736	2358	1195	1163	1156	54454
		RIN TATTAL	C3A	27.82	274	96	178	99	79	3	2612
		R2N MEHDHAR	C1	52.2	5258	2847	2411	1729	682	1270	9722
		R2N MEHDHAR	C2	96.29	13628	7449	6179	3580	2599	775	22465
		CFS JACHH	P1	4.86	242	87	155	155	0	0	550
31	N31	CFS JACHH	P2	9.71	747	378	369	369	0	950	0

Sr.NO	Compartment Code	Name of Compartment	Compartment No	Total Area in Ha.	Total Khair Tree enumerated (in compartment)	No.of Khair Tree below 25 Cm	Total Number of Tree above 25 Cms	Trees Retained	No. Of Khair trees felled	Total No. Of Chirpine enumerated (above to 10 cm)	Other Broad leaved (above 10 cm)
32	N32	UP16 KOPRA	C11	42.89	2656	1198	1458	633	825	, 0	19691
33	N33	UP26 BARAL	C2 ·	24.28	2052	1093	959	959	0	0	1193
34	N34	UP26 BARAL	C3	12.14	160	31	129	129	0	0	
35	N35	UP14 TORA	C1	17	402	239	163	90	73	0	5785
36	N36	UP14 TORA	C2	44.51	1329	473	856	486	370	0	12840
1	N37	UP14 TORA	C7	17.81	114	6	108	108		0	718
38	N38	UP14 TORA	C11	6.07	365	. 33	332	150	182	0	1040
39	N39	UP15 GALOD	C1	29.95	1756	790	966	966	0	0	3006
40	N40	UP16 KOPRA	C9	32.78	725	268	457	289	168	0	2323
41	N41	P35NKOPRA	C1	10.52	ð	0	0	0	0	634	
	N42	P35NKOPRA	C2	9.31	121	47	74	62	12	942	251
	N43	U10SADWA	C1	20.64	1929	1605	324	189	. 135		1900
	N44`	U10SADWA	C2	6.27	5	0	5	5,	0	0	284
45	N45	U10SADWA	C3	14.16	1102	879	223	223	0	166	
1	N46	U10SADWA	C4	21.85	965	607	358		160	799	973
	N47	U10SADWA	C5	26.3	_ 1395	840	555	253	. 302	184	4222
48	N48	U10SADWA	C6	23.47	1797	1109	688	386	302	63	11495
49	N49	U10SADWA	C7	10.92	- 1031	688	343	259	. 84	406	835
50	N50	U10SADWA	C8	10.92	638	400	238	164	74	153	679
		,	G.TOTAL	1609.34	87046	49290	37756	23427	14329	23031	335283



TIME TABLE FOR IMPLEMENTATION OF SILVICULTURE FELLINGS AND RELATIVE INTERVENTIONS

YEAR 1

Activity / Intervention	Implementation time				
Pre-felling planning of preparatory operations in preceding year of felling					
Preparation and submission of cost estimates for pre felling, felling and post felling operations of fencing and planting	April				
Eradication of weeds in forests infested with Lantana and other obnoxious weeds	September to February				
Compartment wise basic technical data in relation to approved working plan and compartment history file to be checked by DFO as per approved format of third six monthly report of 30 August 2019 and to be approved by CF	November				
Validation and approval in principle to take up the forest for silviculture fellings by CCF/APCCF-Approval for deviations, if any, from Working Plan Prescription to be sought from PCCF (WP)	December				
Validation of areas and boundaries by GIS Cell	January				



YEAR 2

Activity / Intervention	Implementation time
Operations in the year of fellin	g
100% enumerations for analyzing floristic composition of each forest as per approved guidelines in Annexure 2.3, Pages 57-62 of first six monthly report of 15 th August 2019	April-May
Silvicultural markings which must include markings/removal for fire lines as per approved guidelines in Annexure 2.4, pages 63-69 of first six monthly report of 15 th August 2019	July-July
Raising Nursery for Re-generation	August
Approvals of silvicultural markings by conservators after field inspections	1-15 September
Must hand over lots to HPSFDC Ltd	By 15 September
Eradication of Lantana and weeds	September-February
Completion of felling and extraction operation	31 March
Procurement of barbed wire and RCC Fence posts	March

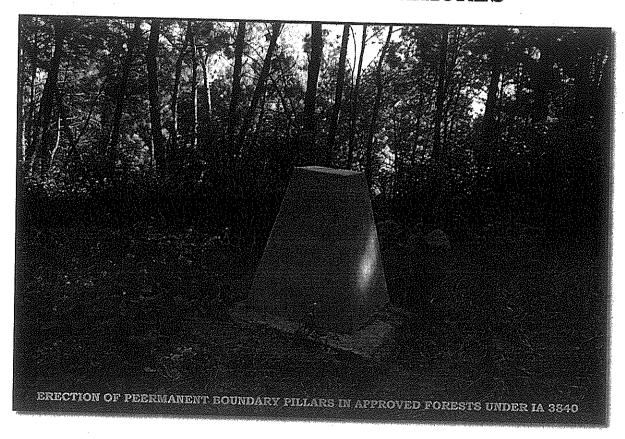
YEAR 3

Activity / Intervention	Implementation time
Post felling operations in succeeding year for en	suring regeneration
Erection of RCC Pole 5 Strand Barbed wire fencing as per the latest approved cost norms for the approved forests to be certified by Conservator	April-May
Planting of only tall plants to augment/Supplement Natural/Coppice regeneration	First fortnight of July
Regeneration assessment surveys to assess actual status of regeneration — natural/coppice/artificial regenerations to be carried out in fenced forests twice a year in April and October as per approved guidelines and methodology of assessment of regeneration in Annexure 2.9 pages 118-127 of third six monthly report of 30 th August 2019	October-November
Checking on-site compliance of approved interventions for ensuring regeneration by CCF/APCCF (as per approved format in Annexure 2.2 A, Page 84 of third six monthly report of 30 August 2019) Maintenance to be carried outannuall7y till regeneration is fully established	15 th November to 15 th December

ANNEXUKE-K-4

FIFTH AND FINAL REPORT OF THE MONITORING COMMITTEE CONSTITUTED BY HON'BLE SUPREME COURT

MAIN REPORT AND ANNEXURES



RELATING TO INTERLOCUTORY
APPLICATION NO 3840 OF 2014
IN WRIT PETITION (CIVIL) NO. 202 OF 1995

30 APRIL 2021





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ACRONYMS

ACF

Assistant Conservator of Forests

A.N.

Afternoon

APCCF

Additional Principal Chief Conservator of Forests

CEC

Central Empowered Committee

CF

Conservator of Forests

C&I

Criteria

and Indicators

for

Sustainable

Forest

Management

cm

Centimeter

cu.m.

Cubic metre

Comptt.

Forest Compartment

dbh

Diameter at breast height

DG

Director General of Forests, GOI, MOEF&CC, New Delhi.

DFO

Divisional Forest Officer

DRDO

Defence Research & Development Organisation

FAO

Food and Agriculture Organization of the United Nations,

Rome.

FCA

The Forest (Conservation) Act, 1980

F.N.

Forenoon

FRA

The Scheduled Tribes and Other Traditional Forest

Dwellers (Recognition of Forest Rights)

Act, 2006

FSI

Forest Survey of India

ha

Hectare

GHNP

Great Himalayan National Park

GPS

Geographical Positioning System

GIS

Geographical Information System

GEOMATICS Remote Sensing, GIS and GPS

HPFD

Himachal Pradesh Forest Department

HPFS

Himachal Pradesh Forest Service

HPSFDC

Himachal Pradesh State Forest Development Corporation

HOFF

Head of Forest Force

ICFRE

Indian Council for Forest Research and Education, Dehra

Dun

IGNFA

Indira Gandhi National Forest Academy, Dehra Dun

Kokath

Miscellaneous broad leaved species

m

Metre

MDF

Moderately dense forest-crop density > 40%

MIS

Management Information System

MOEF&CC

Ministry of Environment, Forests and Climate Change,

Government of India

MSL

Mean Sea Level

NGT

National Green Tribunal.

OB

Over bark

OF

Open forest-crop density10 to 40%

PB

Periodic Block

PCCF Principal Chief Conservator of Forests

PWPR Preliminary Working Plan Report

RCC Reinforced cement concrete

SC Supreme Court

SOI Survey of India

Subsidiary Silvicultural Operations

TERI The Energy and Resources Institute, New Delhi.

TOR Terms of Reference

VDF Very dense forest-crop density of 70 % and above

WC Working Circle in a Working Plan

WP Working Plan

ACKNOWLEDGEMENTS

The Monitoring Committee would like to express its gratitude to Hon'ble Supreme Court for having entrusted us a challenging professional work of supervising and monitoring the planning and providing guidance for the implementation of the entire programme of Experimental Silvicultural Felling operations confined mainly to four species, namely Sal, Chirpine, Khair and Eucalyptus in 65 approved forests comprising an area of 2054 ha. spread out in four selected Forest Divisions and five Forest Ranges in Himachal Pradesh from February 2018 to April 2021.

Pursuant to completion of practically all major interventions in the field, we have now finalized our Fifth and Final Report.

We are confident that our efforts to develop a Methodology based on actual results of pilot scale field interventions carried out after 25 years of ban on green felling with maximum thrust for ensuring **regeneration** has laid a foundation for moving forward towards future action plans for scaling up Silviculture felling operations through operationalization of much needed Scientific Forest Management in Himachal Pradesh.

While taking into account the latest Order of Hon'ble Supreme Court dated 15th February 2021, we have also examined the contents of Interlocutory Application No. 87648 filed on 7th September 2020 seeking approval of Hon'ble Supreme Court to carry out silviculture felling of Khair (*Acacia catechu*) trees in the forests of the State in accordance with the approved Working Plans.

The Committee would like to thank functionaries of HPFD at all levels led by Dr. Savita Sharma IFS, PCCF, Head of Forest Force, and (HoFF), for complete support and close collaboration with us all through.

We owe our deep appreciation and gratitude to our vibrant team for their wholehearted support all through our fieldwork and for the finalization of our Fifth and Final Report.

- Shri Om Prakash Chandel, HPFS
- Shri Rakesh Kumar Shurta, Senior System Analyst, Information Technology
- Shri Prashant Gautam, Senior Scientific Professional, GIS Lab
- Shri Naveen Chander, Technical Assistant, GIS Lab
- Shri Vishnu Sharma, Videographer

V. P. MOHAN, Chairman.

Dr. D.R. BHARDWAJ, Member.

30th April 2021

MA



RECOMMENDATIONS RELATING TO IA NO.3840 OF 2014 EXPERIMENTAL SILVICULTURE FELLING PROGRAMME

1 FIRST RECOMMENDATION: APPROVAL OF HONORARIUM FOR 3.1.1 SECOND MEMBER OF MONITORING COMMITTEE

It is recommended that the matter relating to payment of honorarium to Dr. D. R. Bhardwaj, as deemed appropriate for his additional duties, in addition to his own duties from 26th February 2018 onwards may also be approved by Hon'ble Supreme Court.

2 SECOND RECOMMENDATION: APPROVAL OF 13 PENDING 3.1.2
RECOMMENDATIONS OF SECOND SIX MONTHLY REPORT

It is recommended that out of aforementioned 13 pending Recommendations of Second Six Monthly Report, Recommendation No. 9 regarding applicability of "The Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 (FRA)" is a matter of interpretation and may kindly be examined relating to Interlocutory Application NO 3840 of 2014 in Writ Petition (CIVIL) NO 202 OF 1995.

The Monitoring Committee, in its Second Six Monthly Report submitted on 15th February 2019 has already recommended at page 111(Para3.4.6 Volume 1) as follows:

"4. Hereafter all cases of diversion of forest for non-forestry purpose should be processed only under FCA regulations."

In Chapter 4 of Hand Book on Guidelines and clarifications issued by MoEF&CC for smooth application of provisions of FCA 1980, the Central Government has agreed to accord general approval under the Forest Conservation Act, 1980 for not more than one hectare of forest land, in each case, for creation of critical development and security related infrastructure comprising of 15 categories.

THIRD RECOMMENDATION: COMPLIANCE OF PENDING 3.1.3
MATTERS OF HON'BLE SUPREME COURT ORDERS OF 15TH APRIL
2019

On perusal of the present status of compliance, it is deemed necessary to point out that under mentioned three prioritized core activities although approved on 15th April 2019, the present pace and extent of compliance need time bound action on a fast track mode as per our following Recommendations:

Strengthening Working Plans Wing to Complete Backlog of Revising 15
 Expired Working Plans: (S.No. vil and xv)

The present slow pace of addressing all issues relating to Working Plans needs highest priority through revamping of the existing set up at the soonest and fixing time bound completion targets to complete expired Working Plans.

2. Authentication of Legal Status of Forests: (S.No. xiv)

The legal status of 65 approved forests has not been authenticated even now though orders were issued on 15th April 2019. At the earliest, to secure legal status of forests, action has to be taken as follows:

- <u>20 RESERVE FORESTS</u> have to be authenticated in Revenue Records as RESERVE JUNGLE/ AARAKSHIT VAN;
- 10 DEMARCATED PROTECTED FORESTS have to be authenticated in Revenue Records as JUNGLE MEHFUJA MEHDUDA;
- 33 UNDEMARCATED PROTECTED FORESTS have to be authenticated in Revenue Records as JUNGLE MEHFUJA GAIR MEHDUDA;
- <u>2 COOPERATIVE SOCIETY FORESTS</u> have to be authenticated in Revenue Records as JUNGLE MEHFUJA GAIR MEHDUDA.
- 3. Creation of Smaller Forest Beats: (S.No. xvi)

The pending proposal needs finalization to ensure that at the soonest, smaller beats are in position for effective patrolling and preventing encroachments in forest rich Territorial Circles of Chamba, Shimla, Kulu and Mandi including Great Himalayan National Park core areas.

4 FOURTH RECOMMENDATION: APPROVAL OF PROPOSED 3.1.4
REGENERATION STRATEGY AND METHODOLOGY TO CARRY OUT
REGENERATION ASSESSMENT SURVEYS

It is recommended that the proposed Regeneration Strategy may be approved. Regeneration Surveys should be carried out in 57 forests comprising an area of 1544 ha, after fencing is completed during 2021-22 except N/25, first once in April-May to be repeated second time again in October 2021, as per Guidelines and Methodology of Assessment of Regeneration in our Third Six Monthly Report. (Para 2.11, pages 60-62 and ANNEXURE 2.9) submitted on 30th August 2019.

5 FIFTH RECOMMENDATION: APPROVAL OF TIME TABLE FOR 3.1.5 IMPLEMENTATION OF SILVICULTURAL FELLINGS AND RELATED INTERVENTIONS

It is recommended that hereafter all Silvicultural Felling operations in forests prescribed for felling including thinning and other cultural operations under approved Working plan must be carried out in accordance with the proposed Time Table spread over three years subject to the compliance of the following prescribed five basic prerequisites on ground:

- Boundary Pillars should be in position and area as given in Compartment History File is crosschecked with GPS Latitude /Longitude readings.
- Forest should be free from any encroachment /illegal occupation.
- The legal status of forests is authenticated in Revenue Records-Reserve, DPF or UPF mentioning name and total area of the forest.
- Funding has to be ensured particularly for post felling operations
 in succeeding year within the month of April so that there is
 enough time to plan and execute works, particularly closure and
 fencing works.
- As an example, for a forest prescribed for felling in 2022-23, all
 pre-felling operations will have to be completed in 2021-22 and
 likewise all post felling operations will be completed in 2023-24

6 SIXTH RECOMMENDATION: APPROVAL FOR ENFORCING 3.1.6 REVAMPED SYSTEM OF MANDATORY MONITORING THROUGH FIELD VERIFICATIONS

In order to ensure the continuity and the desired intensity of regular field inspections of 65 approved forests under Experimental Silviculture Fellings Programme, it is recommended that a Revamped System of Mandatory Inspections as an institutional mechanism should be be put in place by the Govt/Principal Chief Conservator of Forests to ensure regular monitoring of the interventions already completed.

7 SEVENTH RECOMMENDATION: APPROVAL OF EMPOWERING 3.1.7
RANGE OFFICERS FOR COMPOUNDING OF FOREST OFFENCES IN
APPROVED FORESTS UNDER IA 3840-EXPERIMENTAL
SILVICULTURE PROGRAMME

It is recommended that in all forests under IA 3840 where fencing has to be done after Silvicultural Fellings or for undertaking enrichment plantings in case of degraded forests and maintenance has to be carried out for seven years till regeneration is fully established, Range Officers should be empowered to compound above referred petty offences where the amount of forest produce is less than rupees ONE LAKH





RECOMMENDATIONS RELATING TO IA NO.87648 OF 2020
APPROVAL FOR SILVICULTURE FELLING OF KHAIR TREES IN HP

EIGHTH RECOMMENDATION: APPROVAL FOR SILVICULTURAL 3.2.2 FELLINGS INCLUDING THINNINGS UNDER KHAIR OVERLAPPING WORKING CIRCLE FOR 3 FOREST DIVISIONS NAMELY; BILASPUR, UNA AND NALAGARH,

It is recommended that the approval may be given for Silvicultural fellings including thinnings under Khair Overlapping Working Circle permissible for the following 3 Forest Divisions namely; Bilaspur, Una and Nalagarh having approved Working Plans. It is also recommended that the sequence of field operations should broadly follow Implementation Time Table given as ANNEXURE 3.2 (Recommendation No 5).

PART ONE - BACKGROUND

1.1 TERMS OF REFERENCE- OUR MANDATE

In our Fifth and Final Report being submitted on 30th April 2021, we have taken into account the latest Order of Hon'ble Supreme Court dated 15th February 2021 reproduced as follows:

"I.A. No. 87648 of 2020: The aforesaid I.A. is to be adjourned for 12 weeks. The Committee appointed vide order dated 16th February 2018 may examine the contents of this I.A while filing its further report regarding result of Silviculture operations already undertaken."

1.1.1 FIFTH AND FINAL REPORT RELATING TO I.A. No. 3840 of 2014

In our Fifth and Final Report relating to I.A. No 3840(Experimental Silvicultural Fellings Programme), we have made an effort to summarize our findings and Recommendations relating to execution of all approved interventions particularly "Ensuring Enabling Conditions for Regeneration" to ensure compliance of all directions in initial orders of Hon'ble Supreme Court dated 16th February 2018 as given in Annexure 1.1.

More specifically, Hon'ble Supreme Court vide its order dated 16th February 2018, while permitting monitored Experimental Silviculture felling to a limited extent, has laid special emphasis at **PAGE 8 PARA 9** on the following stipulations:



"Felling of trees in India has been banned for more than two decades. We are of the view that on an experimental basis we may permit silviculture felling of trees to a very limited extent and such felling should be monitored very carefully to see whether such silviculture felling actually helps in the regeneration of forests or not.". Accordingly, we have steered the whole exercise to address the aforementioned mandate. It can be reported conclusively now that after carrying out silviculture felling and for ensuring adequate regeneration /restocking of a felled forest to its full potential, complete reliance on rather slow and uncertain pace of natural regeneration is rather risky. Therefore, natural regeneration has to be supplemented with nursery grown tall plants of principle species.

1.1.2 EXAMINATION OF CONTENTS RELATING TO I.A. No. 87648 of 2020

In addition, we have also examined the contents of Interlocutory Application No. 87648 filed on 7th September 2020 seeking approval of Hon'ble Supreme Court as follows:

"Allow the State of Himachal Pradesh to carry out silviculture felling of Khair (*Acacia catechu*) trees in the forests areas of the State in accordance with the approved Working Plans"

We have examined the contents of I.A. No. 87648 and our Recommendations are given in PART THREE of the Report under paragraph 3.2.

1.2 KEY TAKEAWAYS AND OUTPUTS FROM FOUR SIX MONTHLY REPORTS

The Monitoring Committee appointed by Hon'ble Supreme Court, has articulated its findings primarily based on ground realities through repeated field inspections of 65 forests; supplemented with in depth consultations across all levels of hierarchy to assess practicalities of implementation. Accordingly, we have submitted four Six Monthly Reports; first on 15th August 2018, second on 15th February 2019, third on 30th August 2019, and Fourth on 15th February 2020 by synthesizing our observations on the pace of implementation and our directions to ensure timely compliance of approved interventions.

Hon'ble Supreme Court has approved our following recommendations comprising essentially on site verifiable benchmarks, prerequisites for revival of basic conservancy routine prescribed forestry activities of vital significance to put in place **Scientific Forest Management** in a holistic manner.

OUTPUTS FROM FIRST SIX MONTHLY REPORT:

- A forest compartment as a whole to be taken at a time as a unit of management; restriction of partial treatment limited to 20 ha. at a time in a compartment has been waived off.
- Revival of Subsidiary Silvicultural Operations (SSOS) across Himachal Pradesh has been approved now after a ban was imposed on felling of trees on 12th December 1996 by permitting

interventions like cleaning, thinning, control burning for disposal of slash, creation and maintenance of fire lines, requiring felling of green trees.

- 3. Procedure of carrying out 100% enumerations of all species has been put in place for assessing exact standing volume of growing stock of all species and analyzing floristic composition for ensuring Silvicultural markings in a scientific manner.
- 4. Apart from three selected Forest Ranges approved initially for working of Khair, Chirpine and Sal, approval for working of Eucalyptus was obtained in Bhagani and Jamta Forest Ranges.
- 5. Guidelines for carrying out Silvicultural Markings developed on the basis of floristic composition and site-specific requirements of each forest instead of mechanically following the Working Plan prescriptions.
- Training of frontline staff in practicalities of Experimental Silviculture Felling Programme conducted in Forest Training Institute, Sundernagar in January 2019 and again in January 2020.
- 7. Posting of IFS officers in three Forest Divisions.
- Postings of directly recruited Rangers to the Forest Ranges of Nurpur, Bharari and Paonta, though approved by Hon'ble Supreme Court on 30th October 2018 have been issued in August 2019.



- With respect to Nurpur, Paonta and Bharari Ranges, construction/repair work of the boundary pillars of Reserved Forests and DPFs shall be completed by 31.08.2019.
- 2. Legal status authentications of all forests in Revenue Records through mutation.
- 3. Updating/ Revision of 15 expired Working Plans
- 4. Mid-term revision of existing Working Plans for mid-course corrections in order to avoid mismatch of allotment to Working Circles with actual floristic composition and Periodic Block allotments.
- 5. System of approval of Silvicultural Markings by the Senior Forest Officers of HPFD prior to inspections and approval by the Monitoring Committee and revising the same wherever required.
- 6. To intensify effective patrolling and prevent encroachments, creation of smaller forest beats in Chamba, Shimla, Kullu and Mandi Forest Circles including GHNP core areas.
- 7. Improvement of database of diversion of forests under FCA, 1980 and FRA, 2006 by deleting the forest areas diverted and showing exact extent of forest area as per legal classification and allotment of each forest to a Working Circle of a Working Plan.

OUTPUTS FROM THIRD SIX MONTHLY REPORT:

1. In order to secure 35 Undemarcated Protected Forests in Nurpur



Forest Range forests from further illegal occupations, boundary positions as per reference points already given by GIS team would be put on ground by RCC pole embedded in ground at least 2 feet and spaced suitably in a way that outer boundary /perimeter of the forest can be verified and checked on the ground with reference to area figures of each forest

- 2. Immediate action has to be taken to carry out Mid-term revision of two Working Plans of Nurpur Forest Division and Bilaspur Forest Division.
- 3. The Monitoring Committee, while supervising this programme through repeated field inspections and consultations across all levels of hierarchy for providing guidance and supervision, had laid special emphasis on strict compliance of all Binding Regulatory Prerequisites for Experimental Silvicultural Felling and more importantly all interventions have been put in place for creating Enabling Conditions for Regeneration.

OUTPUTS FROM FOURTH SIX MONTHLY REPORT:

The Fourth Six Monthly Report was submitted on 15th February 2020. However, due to delay in its approval so far, we have incorporated its key findings and Recommendations for approval in our Fifth and Final Report.

1.3 STRUCTURE OF THE REPORT

This being our Final Report, we have incorporated conclusive results of implementation efforts so far and a future road map to address next

steps in our final Recommendations.

The Report is structured as follows:

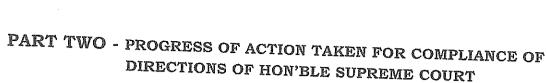
First Part comprises the main text of the report and contains mainly synthesis of findings, Summary of Recommendations for Approval. The text is arranged in three parts:

- o **Part One** contains background information and a gist of orders of Hon'ble Supreme Court.
- o **Part Two** contains the status of action taken for completion of approved interventions
- Part Three contains our Final Recommendations; firstly pertaining to IA No 3840(Experimental Silviculture Felling Programme) and secondly in respect of IA No. 87648 of 2020. (Silviculture Fellings in Khair Forests.)

Second Part comprises Annexure(s) and tabular formats forming the basis of our conclusions.

In addition to **eight hard copies** being sent through speed post to Hon'ble Supreme Court, a soft copy of the Report (PDF) is being emailed to Branch Officer, (PIL (Writ) of Hon'ble Supreme Court.

It is advisable that hard copies of our Report should be circulated to the State Government and concerned HPFD offices (HoFF), concerned Conservators, DFOs and Forest Range Officers immediately for prompt follow up action to ensure prompt compliance of execution of approved interventions.



2.1 LATEST PROGRESS OF COMPLETION OF MAJOR FIELD OPERATIONS UNDER EXPERIMENTAL SILVICULTURAL FELLING PROGRAMME

The latest progress of completion of the following five major field operations under the Experimental Silvicultural Fellings Programme is given in **Annexure 2.1**. However, for a quick reference, a gist of key issues is as follows:

2.1.1 FIVE MAJOR FIELD OPERATIONS (65 FORESTS - 2054 HA)

A 100% ENUMERATIONS: The total area of 65 approved forests for two years under this programme is 2054 ha. However, because of restriction of partial treatment limited to 20 ha. at a time in a compartment, it was possible to complete 100% Enumerations in 21 forests partially in 2018-19 (432 ha.) During 2019-20, fieldwork of completing 100% enumerations in left out forests of 2018-19 and new forests of 2019-20 has been completed in 53 forests. (1554 ha.). Consequently, this first and foremost basic requirement to carry out Silvicultural markings stands complied with.

B SILVICULTURAL MARKINGS: During 2018-19 and 2019-20, Silvicultural Markings have also been completed in 54 approved forests over an area of 1570 ha.

C FELLING AND EXTRACTION WORKS BY HP STATE FOREST DEVELOPMENT CORPORATION (HPSFDC): The total standing volume of Silvicultural markings is 30,936 cu.m. of which only 10,191 cu.m. (33%) of

total standing volume has been felled and converted in 2018-19, in 16 forests. During 2019-20, standing volume of 20,745 cu.m. (67%) has been handed over to HPSFDC. Initially it was estimated that felling and extraction operations of this huge standing volume in 38 forests will get completed by 31st March 2020 in 33 forests and in 5 forests by end of September 2020 which were handed over late and standing volume in each forest is more than 2832 cu.m. in three forests. However, due to COVID 19 pandemic, there was disruption of normal operations and consequent delays. Resultantly HPSFDC has reported that in 8 forests namely N/13, N/16, N/25, N/26, N/29, N/32, N/43 and N/46 of Nurpur Forest Range, felling and extraction operations could not be completed before planting season of 2020. Details of these 8 forests can be seen in table 2.4 under paragraph 2.2.3

STATUS OF FENCING AND PLANTING OPERATIONS: The total area of approved forests for two years under this programme is 2054 ha. After taking into account 38 forests where fellings have been approved and 12 low volume degraded forests categorised as **Recuperation** areas requiring enrichment planting, it was decided that closure and fencing will be definitely required over an area of **1639** ha. in **61** forests for ensuring regeneration. During 2019-20, it was possible to complete fencing and planting only in **16** forests comprising an area of 322 ha. **(20%).** During 2020-21, the progress of fencing and planting operations has been given under subsequent paragraph 2.2.3.



REGENERATION ASSESSMENT SURVEYS: In order to rely only on credible assessment of success of regeneration, instead of just relying on ocular data, we had laid down Guidelines and Methodology of Assessment of Regeneration in our Third Six Monthly Report submitted on 30th August 2019. Thereafter we have assessed that out of a total area of 65 approved forests comprising an area 2054 ha, it will be necessary to carry out Regeneration Survey in 57 forests. During 2019-20, a beginning has been made in carrying out Regeneration Survey in October 2019 in 13 forests comprising an area of 252 ha. (14%). However, for 2021-22, it is recommended that that Regeneration Survey should be carried out in 57 forests comprising an area of 1544 ha. (86%).

2.2. KEY APPROVED INTERVENTIONS REQUIRING FOLLOW UP ACTION FOR COMPLIANCE

2.2.1. Authentication of Legal Status of Approved Forests in Revenue Records

We would like to report that the total area of 65 approved forests under Experimental Silviculture Programme is 2054 ha. and the breakup of area of forests under legal classification is as follows:

Table 2.1 Abstract of area of 65 Approved Forests as per Legal Classification

FORESTRANGE	FOREST AREA (HA	NO OF FORESTS	RF n	er i Cer
1. BHARARI FOREST RANGE	BILASPUR FORES	ST DIVISION		
opises Secretivities (2015)	73 NURPUR FORES	T DIVISION	- 5	5.
2. NURPUR POREST RANGE	1609	50	10 5	5 35
3. PAONTA, FOREST RANGE	PAONTA FORES		grant you grant that you from you	
4. BHAGANI FOREST RANGE	25	8 1	8	
5. JAMTA FORBST RANGE	NAHAN FOREST	DIVISION	3	
TOTAL WORKLOAD	62	1	1	
	2054	65	20 1	0 35

During our spot inspections from November 2019 to January 2020, we have noticed that in all 65 approved forests no concrete verifiable action has been taken to ensure authentication of the legal status of every approved forest in Revenue Records by insertion of the exact name, as it appears in WP and Compartment History files. At the earliest, to secure legal status of forests, action has to be taken as follows:

- 20 RESERVE FORESTS have to be authenticated in Revenue Records as RESERVE JUNGLE/ AARAKSHIT VAN;
- 10 DEMARCATED PROTECTED FORESTS have to be authenticated in Revenue Records as JUNGLE MEHFUJA MEHDUDA;
- 33 UNDEMARCATED PROTECTED FORESTS have to be authenticated in Revenue Records as JUNGLE MEHFUJA GAIR MEHDUDA;
- 2 COOPERATIVE SOCIETY FORESTS have to be authenticated in Revenue Records as JUNGLE MEHFUJA GAIR MEHDUDA

2.2.2. Vacation of Encroachments/ Illegal Habitations

In Nurpur Forest Range, out of 50 forests approved under Experimental Silviculture Felling Programme, there are 12 Undemarcated Protected Forests where we had found encroachments/ illegal habitations. The latest status of encroachment cases is as follows:





Table 2.2 Status of Encroachments/ Illegal Habitations in Undemarcated Protected Forests (UPF) of Nurpur Forest Range

	FOREST CODE/	ENCROACHMENT	AREA	
SI	LEGAL STATUS/ AREA OF COMPTT (IN HA)	(IN HA)/ NATURE (T: TEMPORARY P: PERMANENT)		
1	N/6 2019 10 /		Control Consideration	Constitution for the second of
1.	N/6 2018-19 / UPF / 23.88HA	2.00 (T) 0.58 (P)	2.00	Temporary encroachments stand evicted and forest taken back into the possession. Area under encroachment of permanent nature has been challaned under HP Public Premises and Land (Eviction& Recovery) Act 1971 for trial. One other allotmen
				done before Settlement of 0.76.00 ha
2	N/7 2018-19 /	3.00T)	3.00	cannot be evicted
	UPF/ 50.58 HA	0.51.37(P)		Temporary encroachments stand evicted and forest taken back into the possession. Area under encroachment of permanent nature has been
				challaned under HP Public Premises and Land (Eviction& Recovery) Act, 1971 for trial. One other allotment done before Settlement of 1.40.60 ha cannot be evicted
3	N/21 2019-20/ UPF/ 10.92 HA	3.00 (T) 0.01,20 (P)	3.00	The case is under trial in the Court of Collector-Cum DFO Nurpur under HP Public Premises and Land (Eviction& Recovery) Act , 1971
4	N/30 2019-20/ CFS/ 4.86 HA	0.02 (P)	0	The case is under trial in the Court of Collector-Cum DFO Nurpur under HP Public Premises and Land (Evictions)
5	N/31 2019-20/ CFS/ 9.71 HA		0.01.50	Recovery) Act., 1971 Evicted & forest taken into possession
5	N/32 2019-20/ UPF/ 42.89 HA	0.77.52 (P)	-	The case is under trial in the Court of Collector-Cum DFO Nurpur under HP Public Premises and Land (Eviction&
	N/34 2019-20/ UPF/ 12.14 HA	10.51 (T) 0.50 (P)	10.51	Recovery) Act., 1971 Except allotment before Settlement of 1.12.90 ha.temporary encroachments stand evicted and forest taken back into the possession. Areas under encroachment of permanent nature have been challaned under HP Public Premises and Land (Eviction& Recovery) Act., 1971 for trial.
;	N/37 2019-20/ UPF/ 17.81 HA	3.00 (T)	3.00	Evicted &forest taken into possession
	N/38 2019-20/ UPF/ 6.07 HA	3.50 (T) 0.13.42 (P)	'1	The case is under trial in the Court of Collector-Cum DFO Nurpur under HP Public Premises and Land (Eviction&

		200		Recovery) Act , 1971
10	N/43 2019-20/	2.00 (T)	2.00	17-2-2-3-3-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0
	UPF/ 20.64 HA		2.00	Evicted & forest taken into possession
11	N/46 2019-20/ UPF/ 11.85 HA	1.50 (T)	1.50	Evicted & forest taken into possession
12	N/49 2019-20/ UPF / 10.92 HA	2.00 (T)	2.00	Evicted & forest taken into possession
13	N/38 2019- 20/UPF/6.07HA (NEW CASE)	0.02.12 (P)		The case is under trial in the Court of Collector-Cum DFO Nurpur under HP Public Premises and Land (Exiction).
14	N/21 2019- 20/UPF/20.64 HA (NEW CASE)	0.01.20 (P)		Recovery) Act , 1971 The case is under trial in the Court of Collector-Cum DFO Nurpur under HP Public Premises and Land (Eviction&
	N7/2019- 20/UPF/30.58 HA (NEW CASE)	0.00.84 (P)		Recovery) Act , 1971 The case is under trial in the Court of Collector-Cum DFO Nurpur under HP Public Premises and Land (Eviction&
	N7/2019- 20/UPF/30.58 HA (NEW CASE)	0.00.80 (P)		Recovery) Act , 1971 The case is under trial in the Court of Collector-Cum DFO Nurpur under HP Public Premises and Land (Eviction&
	N7/2019- 20/UPF/30.58 HA (NEW CASE)	0.34 (P)		Recovery) Act., 1971 The case is under trial in the Court of Collector-Cum DFO Nurpur under HP Public Premises and Land (Eviction&
	N7/2020- 21/UPF/30.58 HA (NEW CASE)	0.15.23 (P)		Recovery) Act , 1971 The case is under trial in the Court of Collector-Cum DFO Nurpur under HP Public Premises and Land (Eviction&
TOT FO	AL AREA OF 13 RESTS: 273.49 HA	33.58.70	Area yet to	Recovery) Act., 1971 be evicted in 9 forests N/6, N/7, 0, N/31, N/32, N/34 and N/38, 07,96

At the earliest it has to be ensured that encroachers are evicted from the forests given in the above table.

Likewise, unauthorized occupations/ encroachments in approved forests must be evicted from P/1-2018-19 and $P/5\ 2019$ in Paonta Forest Division.

Forest wise videos have been given to the concerned DFO to ensure compliance of follow up action on our spot inspections. In addition, our

observations and instructions for compliance are given in Annexure 2.5 of Fourth Six Monthly Report submitted on 15^{th} February 2020.

2.2.3 Fencing and Planting Operations

The Monitoring Committee has ensured that in all forests where fellings have been completed (approved PB-I forests of Sal and Chirpine and Khair forests approved for fellings), as well as under stocked/ degraded forests approved for recuperation and enrichment planting, fencing with 5 strands of barbed wire with RCC poles has been undertaken for strict compliance of the stipulation laid down by Hon'ble Supreme Court in order dated 16th February 2018 in IA 3840 as follows:

PAGE 10 PARA 9 Stipulation no. "6. It should also be ensured that these forest areas are kept free from grazing and are protected;"

PAGE 10 PARA 9 Stipulation no. "7. The State should also ensure that sufficient numbers of healthy saplings are planted so that there is proper regeneration of the forest".

1. Approved Cost Norms for RCC Fencing

In order to comply with the specifications of barbed wire fencing of the desired standards as proposed by the Monitoring Committee, revised new cost norms for fencing of Experimental Silviculture Forests with five-strand barbed wire- V design with RCC fence poles have been approved by Government of HP on 16th September 2019, with the following specifications for erection:

Number of RCC poles per hectare is now 80 (as compared to 50 earlier).



- The per hectare cost norm is now Rs. 78,100 (as compared to Rs. 30,000 odd earlier)
- Carriage from Range to fencing site has also been accounted for.
- Numbering of RCC poles by paint has been made mandatory in all fenced forests, to minimize any attempt for misappropriation in number of poles.

2. Completion of Fencing and Planting Operations

An abstract of fencing and planting operations is as follows:

Table 2.3 Abstract of Forests Approved for Fencing and Planting under Experimental Silvicultural Felling Programme

		Section of the second section of		STREET STREET	, &rannine		
YEAR	PARTICULARS	NURPOR	PAGNTA	BHARARI	EFFACIAL		TO LA
		REALE		CHIL	EUCAL	YPTUS	
	FENCIN	G AND P	LANTING	OPERAT	IONS		
	NO. OF FORESTS	9	3	2	1	1	16
2019-20	AREA IN HA.	- 142	60	33	25	62	322 (20%)
	NO. OF FORESTS	41	3	1	0	0	45
2020-21	AREA IN HA.	1197	118	2	0	0	1317
TOTAL AREA		1339	178	35	25	62	1639

2019-20: In Annexure 2.7 of our Third Six Monthly Report submitted on 30th August 2019, we had approved 28 forests comprising an area of 626 ha. for fencing to be completed before rainy season of 2019. However, mainly because of delayed budget allocations and very much delayed approval of revised cost norms on 16th September 2019 and subsequent delays in procurement formalities of RCC poles etc., the actual completion of RCC barbed wire fencing of only 16 approved forests comprising an area of 323 ha. (20%) of total workload had been possible. Fencing always precedes



planting operations. Unfortunately except Bharari Forest Range, (2 forests), in the remaining 14 forests fencing works have been done after the planting season. In Nurpur Forest Range fencing works commenced very late from December 2019 and work was in progress even during inspections in January 2020 in 9 forests where planting was completed in July 2019.

2020-21:

45 forests comprising an area of 1317 ha. (80%) of total workload were approved for <u>fencing and planting</u> of three categories as follows:

- 4 Left over forests already felled in 2018-19 approved for fencing and planting
- 29 forests approved for felling and extraction in 2019-20- Nurpur Forest Range
- 12 Degraded low volume Recuperation forests approved for fencing and enrichment planting- Nurpur Forest Range.

In Bharari Forest Range (1 forest) and Paonta Forest Range, (3 forests), fencing operations were completed on time. In Nurpur Forest Range there was a very heavy workload of fencing and planting of 41(29+12) approved forests. Unfortunately, due to COVID 19 pandemic, there was disruption of normal operations from March end 2020 onwards and resultant delays in field works. Consequently, due to delay in completing felling operations prior to plantation season of 2020, a revised time frame has been laid down for fencing and planting of the following 8 forests as follows:

Table 2.4 Revised Time Frame for Fencing and Planting of 8 Approved Forests under Experimental Silvicultural Felling Programme

SR. NO.	FOREST CODE NO.	DATE OF COMPLETION OF FELLING AND EXTRACTION OPERATIONS	REVISED TIME FRAME OF FENCING
1	N-13	31.10.2020	AND PLANTING
2	N-16	15.02.2021	2021-22
3	N-25	Likely to be completed by 30.9.2021	2021-22
4	N-26	15.06.0000	2022-23
5	N-29	15.06.2020	2021-22
6	N-32	15.03.2021	2021-22
7		28.10.2020	2021-22
0	N-43	24.02.2021	2021-22
8	N-46	15.03.2021	2021-22

It will be seen from the above figures that in 7 forests namely N/13, N/16, N/26, N/29, N/32, N/43 and N/46 fencing and planting operations will have to be done in 2021-22 and in N/25 in 2022-23.

Although planting operations in the approved forests were completed in rainy season of 2020, but because of delays in procurement formalities of RCC poles/ barbed wire, fencing operations have been carried out after planting operations from September 2020 to 15th April 2021.

2.2.4 Next Steps for Regeneration Surveys

Guidelines of the approved Methodology adopting Line-Plot System of Cruising under Systematic Sampling for carrying out Regeneration Surveys were approved in Annexure 2.9 of Third Six Monthly Report submitted on 30th August 2019. Clearly, in forests which have been felled and fenced, Regeneration Survey has to be carried out. It is a matter of satisfaction that during October 2019, a successful beginning has been made to carry out Regeneration Surveys in 13 approved forests which were felled in 2018-19

and results are tabulated in **Annexure 2.7.** of Fourth Six Monthly Report submitted on 15th February 2020.

However, for 2021-22, it is recommended that that Regeneration Survey should be carried out in 57 forests comprising an area of 1544 ha. (86%). At this initial stage of this fieldwork, key findings and takeaways are:

- At present natural regeneration from seed origin seems to be Deficient but the real picture would emerge once newly emerged recruits will grow and develop into sapling and contribute significantly towards scoring index.
- Natural regeneration (Coppice origin) has been found to be **Adequate** in few forests and **Good** in many forests
- Artificial regeneration (Planting) has been found to be Good in most of the forests; in some forests, survival rate was even up to 100%.
- Results of Regeneration Survey (i.e. Regeneration percentage) should be given against Column of regeneration in CHF instead of ocular assessment.

2.2.5 Time Table for Implementation of Silviculture Fellings and Related Interventions

All forestry operations demand timely execution of sequential field operations, particularly Enumerations, Silvicultural markings, fellings/ extraction operations followed by post felling interventions like closure/ fencing and planting in a time bound manner, regardless of budget and other administrative bottlenecks/constraints and resultant delays as

experienced in 2019-20 and 2020-21.

We have come to the conclusion that unless a time table for field interventions is in place for rigid compliance, it will be totally a futile exercise to carry out Silvicultural Fellings. Undoubtedly, soon after felling and extraction operations get completed by March end, fencing operations have to commence immediately thereafter to be completed before rainy season for ensuring Regeneration. Therefore, in order to internalize experience gained during the implementation of Experimental Silviculture Fellings and for future action plans for scaling up Silviculture Fellings in other forests, we have worked out a stage wise Implementation Time Table, which can be seen as Annexure 3.2.

2.3 WORKING RESULTS OF HIMACHAL PRADESH STATE FOREST CORPORATION (HPSFDC)

2.3.1. Compliance of Stipulation

Hon'ble Supreme Court in its initial order of 16th February 2018, while permitting monitored silviculture felling of trees, had clearly stipulated as follows:

Para 9 Condition 1. "The felling should be done directly by the Forest Department or by the Himachal Pradesh State Forest Corporation and the work of felling should not be handed over or given on contract to any private agency;"

Accordingly, felling and extraction operations in all approved forests under Experimental Silvicultural Felling programme have been successfully

executed by HPSFDC in close collaboration with the Monitoring Committee and at the working level with field staff of HPFD.

2.3.2. Estimated Total Workload of Felling and Extraction in Three Years:

The total standing volume of Silvicultural markings in two years is **30,936 cu.m.** (Extraction operations spread over three years) as would be seen from the table given below:

Table 2.5 Abstract of Standing Volume for Felling and Extraction in Three Years

FOREST RANGE	STANDING VOLUME FELLED (cu.m.) 2018-19	STANDING VOLUME FELLED (cu.m.) 2019-20 AND 2020-21	TOTAL STANDING VOLUME FOR THREE YEARS (cu.m.)
NURPUR	359	6,063	And the state of t
BHARARI	3,281	1104	6,422
PAONTA AND BHAGANI	6,551	13,578	4,385 20,129
TOTAL	10,191	20,745	30,936

During 2019-20, standing volume of 20,745 cu.m. (67%) has been handed over to HPSFDC. Initially it was estimated that felling and extraction operations of this huge standing volume in 38 forests will get completed by 31st March 2020 in 33 forests and in 5 forests by end of September 2020 which were handed over late and standing volume in each forest is more than 2832 cu.m. in three forests. However, due to COVID 19 pandemic, there was disruption of normal operations and consequent delays. Resultantly HPSFDC has reported that in 8 forests namely N/13, N/16, N/25, N/26, N/29, N/32,

N/43 and N/46 of Nurpur Forest Range, felling and extraction operations could not be completed before planting season of 2020. Details of these 8 forests can be seen in table **2.4** under paragraph 2.2.3



CONTEXT OF FINAL RECOMMENDATIONS

Hon'ble Supreme Court vide its order dated 15th April 2019, while approving 24 Recommendations of the Second Six Monthly Report submitted on 15th February 2019 has approved Recommendation number xiii) Para 3.2, (p.79-81) as follows:

"The Monitoring Committee has concluded that the only practical way to revive much talked scientific forest management at the ground level is possible only by the compliance of four inter related pillars/indicators. It needs to be stressed that action on all four prioritized core activities has to be taken in tandem."

Four Pillars are as follows:

- Delineation of forests with Boundary Pillars and duly authenticated in Revenue Records;
- 2. Technically sound Working Plans based on field inspections and not in offices;
- 3. Qualified and trained first line staff, Forest Guards and Deputy Rangers and trained Forest Rangers;
- Senior supervisory and managerial cadre of HPFS and IFS for revival of field forestry in forests and not just with computers and digitization alone.

Recognizing the importance of carrying forward this task for ensuring continuity, in order to sustainably manage, conserve and utilize our valuable forest resources, we have synthesized in our Fifth and Final Report, key pending matters and Recommendations in two sections for approval by Hon'ble Supreme Court:

- 3.1 APPROVAL OF PENDING MATTERS AND RECOMMENDATIONS RELATING TO IA 3840 EXPERIMENTAL SILVICULTURE FELLING PROGRAMME
- 3.2 RECOMMENDATIONS RELATING TO IA No 87648 OF 2020 APPROVAL FOR SILVICULTURE FELLING OF KHAIR TREES IN HP.
- 3.1.1 FIRST RECOMMENDATION: APPROVAL OF HONORARIUM FOR SECOND MEMBER OF MONITORING COMMITTEE
 Order of Hon'ble Supreme Court dated 16th February 2018 in IA 3840,

particularly paragraphs 8 and 11 read as follows:

Paragraph 8. "This entire programme of experimental silviculture felling shall be done under the supervision and guidance of a two-Member Committee headed by Shri V.P. Mohan, IFS (Retd.), former Principal Chief Conservator of Forests, Himachal Pradesh. The second member of this Committee shall be nominated by the Vice Chancellor, Dr. Y.S. Parmar University of Horticulture and Forestry, Nauni, Solan, Himachal Pradesh. The second Member shall be a Professor of Silviculture."

Paragraph 11. "The Committee should submit its report to this Court every 6 months. The State of Himachal Pradesh shall provide all facilities to the Committee including transport and boarding facilities. The

remuneration to be paid to the **members** of the committee shall be determined when the committee submits its report."

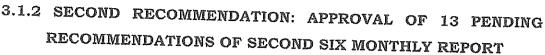
On 7th September 2018, pursuant to the submission of First Six Monthly Report, Hon'ble Supreme Court has only approved the payment of honorarium to Chairperson as follows:

"With regard to the remuneration to be paid to the Chairperson of the Committee, he may be paid an honorarium equal to his last drawn pay minus the pension. In addition, thereto, he may be paid 15% extra. The amount be paid by the State Government."

It needs to be pointed out that Dr. D.R. Bhardwaj, Principal Scientist (Silviculture), Department of Silviculture & Agro forestry; Dr. Y.S. Parmar University of Horticulture and Forestry, Nauni, Solan, Himachal Pradesh is working as a Second Member of this Monitoring Committee right from 26th February 2018, in addition to his own duties.

FIRST RECOMMENDATION

It is recommended that the matter relating to payment of honorarium to Dr. D. R. Bhardwaj, as deemed appropriate for his additional duties, in addition to his own duties from 26th February 2018 onwards may also be approved by Hon'ble Supreme Court.



With regard to 13 pending Recommendations (mainly relating to STRATEGIC ACTION PLAN FOR MITIGATION OF PERMANENT LOSS OF FOREST COVER IN HIMACHAL PRADESH) of Second Six Monthly Report submitted on 15th February 2019, a note has already been submitted by learned Amicus Curie to Hon'ble Supreme Court on 22nd August 2019 as follows:

"The Recommendations which are yet to be approved by this Hon'ble Court are:

1. The Monitoring Committee recommends that all incumbents who have worked as Territorial Conservators in Nahan Forest Circle from 2013-14 onwards should be held accountable for not preparing the Preliminary Working Plan Report on time.

(Page 62 of the Monitoring Committee_Report)

2. The Monitoring Committee, after extensive consultations with field officers has finalized a priority wise time table for the execution of Subsidiary Silvicultural Operations (SSO), so that financial investments are usefully made to carry forward these interventions in a planned manner.

(Page 63 of the Monitoring Committee Report)

3. In future affidavit as proposed has to be filed in Hon'ble Supreme Court only after personal inspection by HOFF"

(Pages 78 and 79 of the Monitoring Committee Report)

4. Within one year, i.e. 2019-20, all forests must have boundary pillars in position. Non-existence of boundary pillars leads to a very anomalous situation and a great hindrance in protection of forest wealth from encroachments and illicit fellings.

At the soonest the process of authentication of legal status of forests in revenue records by mutation should be got done by the State Government.

(Pages-82-83 of the Monitoring Committee Report)

5. Pillar 2-Undoubtedly, the State Government has to ensure completion of the present backlog of 15 working plans in the shortest possible time in 2019-20 by strengthening working plans wing."

(Page 84 of the Monitoring Committee Report)

6. As regards the cadre of 801 Deputy Rangers, presently being manned by through 100% promotion quota, there is a need to reintroduce direct recruitment pattern to infuse young talent.

[Page 85 of the Monitoring Committee Report]

7. Box 3.7 Enquiry in Nachan Forest Division to investigate how and under what compulsions, approvals have been given under FRA 2006 by violating all professional stipulations.

[Page 98 of the Monitoring Committee Report]

8. Hon'ble Supreme Court may approve our proposal of getting technical issues examined relating to adverse impact of diversions and fragmentation of forest habitats, by the following three experts:-



- 1. Dr. Devendra Pandey, Ex D G (Forest Survey of India)
- 2. Dr. Ruchi Badola, Scientist G and Head, Department of Eco Development and Participatory Management, Wildlife Institute of India, Chandrabani, Dehradun
- 3. Dr. J. V. Sharma, Director, Forest and Biodiversity, the Energy and Resource Institute, New Delhi."

(Pages 105-107 of the Monitoring Committee Report)

Note: Experts proposed in Recommendation No 8 will also address technical issues proposed in Recommendations No 9, 10 and 13.

9. The Monitoring Committee would like to point out that, it is a matter of interpretation whether the Rural Population in HP, where the rights of the people inclusive of all categories have already been settled, can be included in the definition of "forest dwelling scheduled tribes (as defined under definition (c) and other traditional forest dwellers (as defined under definition (o), who have been residing in such forests for generations but whose rights could not be recorded",

Furthermore, the Act may probably require an interpretation or reading down by the Hon'ble Supreme Court whether the said provisions would apply to valuable slow growing coniferous forests like Fir, Spruce, Deodar, Kail and Chir pine as against the majority of tribal areas of India, where the forests involved are fast growing and hence replaceable

(Page 110 of the Monitoring Committee Report)



10. In view of the minimum time period required to complete all field activities, we recommend that the Monitoring Committee may be allowed to conclude this challenging professional work by 15th February 2021 by completion of final Six Monthly Report.

(Page 114 of the Monitoring Committee Report)"

NOTE: Hon'ble Supreme Court in its Order of 15th April 2019 had observed:

"With respect to 13 recommendations, there are certain objections raised, supported by an affidavit. We will have to hear in detail with respect to these 13 recommendations"

At this final stage of completion of practically all major interventions in the field relating to Experimental Silviculture Felling Programme, it is necessary to stress that out of 13 pending Recommendations, only Recommendation No. 9 regarding applicability of "The Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 (FRA)" is a matter of interpretation to be considered by Hon'ble Supreme Court.

The Monitoring Committee, in its Second Six Monthly Report submitted on 15th February 2019 has already recommended at page 111(Para3.4.6 Volume 1) as follows:

" 4. Hereafter all cases of diversion of forest for non-forestry purpose should be processed **only** under FCA regulations."

2 SECOND RECOMMENDATION

It is recommended that out of aforementioned 13 pending Recommendations of Second Six Monthly Report, Recommendation No. 9 regarding applicability of "The Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 (FRA)" is a matter of interpretation and may kindly be examined relating to Interlocutory Application NO 3840 of 2014 in Writ Petition (CIVIL) NO 202 OF 1995.

The Monitoring Committee, in its Second Six Monthly Report submitted on 15th February 2019 has already recommended at page 111(Para3.4.6 Volume 1) as follows:

"4. Hereafter all cases of diversion of forest for non-forestry purpose should be processed only under FCA regulations."

In Chapter 4 of Hand Book on Guidelines and clarifications issued by MoEF&CC for smooth application of provisions of FCA 1980, the Central Government has agreed to accord general approval under the Forest Conservation Act, 1980 for not more than one hectare of forest land, in each case, for creation of critical development and security related infrastructure comprising of 15 categories.



3.1.3 URGENCY TO ENSURE COMPLIANCE OF PENDING MATTERS OF HON'BLE SUPREME COURT ORDERS OF 15TH APRIL 2019

Hon'ble Supreme Court has approved 24 Recommendations of our Second Six Monthly Report on 15th April 2019 and 3 Recommendations of our Third Six Monthly Report submitted on 30th August 2019.

Compliance has been ensured by HPFD/Govt. in most of the 27 approved Recommendations as per latest Action Taken Report of 23rd March 2021 from HPFD given in **Annexure 3.1.** However, on perusal of the present status of compliance, it is deemed necessary to point out that under mentioned three **prioritized core activities** although approved on 15th April 2019, the present pace and extent of compliance need time bound action on a fast track mode relating to the following 3 Recommendations, shown in **bold** fonts in **Annexure 3.1.**

THIRD RECOMMENDATION

1. Strengthening Working Plans Wing to Complete Backlog of Revising 15 Expired Working Plans: (S.No. vil and xv)

The present slow pace of addressing all issues relating to Working Plans needs highest priority through revamping of the existing set up at the soonest and fixing time bound completion targets to complete expired Working Plans.

2. Authentication of Legal Status of Forests: (S.No. xiv)

The legal status of 65 approved forests has not been authenticated even now though orders were issued on 15th April 2019. In order to secure the legal status of forests, action has to be taken at the earliest as follows:

3 THIRD RECOMMENDATION

- <u>20 RESERVE FORESTS</u> have to be authenticated in Revenue Records as RESERVE JUNGLE/ AARAKSHIT VAN;
- 10 DEMARCATED PROTECTED FORESTS have to be authenticated in Revenue Records as JUNGLE MEHFUJA MEHDUDA;
- <u>33 UNDEMARCATED PROTECTED FORESTS</u> have to be authenticated in Revenue Records as JUNGLE MEHFUJA GAIR MEHDUDA;
- <u>2 COOPERATIVE SOCIETY FORESTS</u> have to be authenticated in Revenue Records as JUNGLE MEHFUJA GAIR MEHDUDA.

3. Creation of Smaller Forest Beats: (S.No. xvi)

The pending proposal needs finalization to ensure that at the soonest, smaller beats are in position for effective patrolling and preventing encroachments in forest rich Territorial Circles of Chamba, Shimla, Kulu and Mandi including Great Himalayan National Park core areas.

3.1.4 APPROVAL OF PROPOSED REGENERATION STRATEGY AND METHODOLOGY TO CARRY OUT REGENERATION ASSESSMENT SURVEYS

Hon'ble Supreme Court vide its order dated 16th February 2018, while permitting monitored Experimental Silviculture felling to a limited extent, has laid special emphasis on the following stipulations:

PAGE 8 PARA 9 "Felling of trees in India has been banned for more than two decades. We are of the view that on an experimental basis we may permit silviculture felling of trees to a very limited extent and such felling should be monitored very carefully to see whether such silviculture felling actually helps in the regeneration of forests or not.



PAGE 10 Stipulation 6. "It should also be ensured that these forest areas are kept free from grazing and are protected;"

PAGE 10 PARA 9 Stipulation 7. "The State should also ensure that sufficient numbers of healthy saplings are planted so that there is proper regeneration of the forest".

3.1.4.1 Our Mandate: Clearly, our mandate was "to see whether Silviculture felling actually helps in the regeneration of forests or not". In this context, it is essential to highlight that Silviculture, in technical parlance means practice of controlling the growth, composition, health, and quality of forests. Therefore, after careful assessment of the activities necessary to meet the aforementioned objectives, the Monitoring Committee, in collaboration with field staff has taken out a package of best suited Silvicultural practices from theoretical concepts from text books, Working Plans and old codes for regulating all field operations confined mainly to four species, namely, Sal, Chirpine, Khair and Eucalyptus in 65 approved forests comprising an area of 2054 ha. spread out in four selected Forest Divisions and five Forest Ranges in Himachal Pradesh from February 2018 to April 2021, laying special emphasis ensuring **REGENERATION** for under Experimental Silvicultural Fellings Programme in order to sustainably manage, conserve and utilize our valuable forest resources.

3.1.4.2 Regeneration Strategy:

Based on our field observations while supervising and monitoring Experimental Silvicultural Fellings Programme from February 2018 to April 2021, we have adopted a three pronged Regeneration Strategy as follows:

- 1. The first intervention of felling of only mature trees after retention of adequate number of mother trees as seed bearers under a prescribed Silvicultural System creates canopy opening and thereby creating favorable conditions for natural regeneration.
- 2. However, the biggest problem with natural regeneration is that it is rather slow growing with a high mortality rate and uncertain growth pattern under rather hostile site conditions. Seed production from retained mother trees is primarily a specific character. That is, all species do not seed annually and in equal abundance as good seed years occur at intervals. Therefore, complete reliance on rather slow and uncertain pace of natural regeneration is considered risky, in case we have to ensure adequate regeneration and restocking of a felled forest to its full potential.
- 3. Therefore, on completion of felling operations and after closure and fencing, it has been ensured that natural regeneration is supplemented with nursery grown tall plants of principle species mostly of forest under treatment along with other native species. In short, natural regeneration has to be encouraged but must be

supplemented by artificial regeneration to ensure complete regeneration.

Keeping in view the aforementioned three pronged Regeneration Strategy, we have put in place species-specific Enabling Conditions for ensuring Regeneration as follows:

Sal Forests: Natural regeneration has been relied upon primarily. Sal being very sensitive to fire and grazing damage, effective closure is a must for the successful regeneration of the species.

Chir Pine Forests: Selective artificial regeneration operations with Chir Pine were carried out in those areas where natural regeneration was found to be deficient.

Khair Forests: Natural regeneration from coppice was successful. However, natural regeneration from seed origin was deficient. Therefore, artificial regeneration operations had to be undertaken. The number of plants to be planted per hectare was decided on the site requirement basis, ranging from 200 to 800 plants per hectare. However, the principal species of these forests (Khair) should constitute the major proportion in case of enrichment planting.

Artificial regeneration operations i.e. planting of tall nursery grown plants has been done on priority in the felled areas which have been fenced. The natural regeneration was encouraged by providing enabling conditions.



Eucalyptus Forests: In Paonta Forest Division, removal of all Eucalyptus trees having 20 cm and above dbh, leaving 15 to 18 standards per hectare as per WP Prescriptions was done. No broadleaved tree was marked at all for felling. Post fellings, after completion of fencing of the entire forest, enrichment planting was done with tall plants of Shisham, Khair and two more locally suitable species of economic value.

In Nurpur Forest Division, we noticed that Reserve Forest C-1A Tattal, code number N/25, having an area of 87 ha., although allotted to Khair Overlapping Working Circle, the standing volume of Eucalyptus was 46%, other broad-leaved species 44%, Khair 6% and Chirpine 4%. Accordingly Silviculture markings were planned for gradual removal of Eucalyptus in a phased manner to facilitate planting of indigenous multilayered species to replace monoculture of Eucalyptus based on the following guidelines:

- In case of uneven crop of all age classes of Eucalyptus, the removal of all mature trees having 30 cm and above dbh has been planned by retaining younger age classes crop.
- In case of pure mature even aged crop of Eucalyptus, it was decided to retain 30 trees per hectare to avoid erosion due to exposure of soil.
- **3.1.4.2 Methodology of Assessment of Regeneration:** In order to rely only on credible assessment of success of regeneration, instead of just



relying on ocular data, we had laid down Guidelines and Methodology of Assessment of Regeneration by adopting Line-Plot System of Cruising under Systematic Sampling for carrying out Regeneration Surveys in our Third Six Monthly Report. (Para 2.11, pages 60-62 and ANNEXURE 2.9) submitted on 30th August 2019. Regeneration Survey data will be evaluated separately for each approved forest for three types of regeneration:

first; natural regeneration through seed origin by Systematic Sampling, second; coppice regeneration (100 % counting of trees felled and stumps having coppice) and

third; tall nursery grown plants planted to supplement natural regeneration (100% checking of the tall plants planted will be undertaken and survival percentage will be calculated), on an objective scale to determine the regeneration status of aforementioned three types of regeneration in a compartment in the following three categories:

- Good (71-100 %)
- o Adequate (41-70 %)
- o Deficient (0-40 %)
- During 2019-20, a beginning has been made in carrying out Regeneration Survey in October 2019 in 13 forests comprising an area of 252 ha. (14%) by following the approved Methodology. During our inspections, we have assessed that out of 65 approved forests comprising an area of 2054 ha, it will be necessary to carry out Regeneration Survey in 57 forests. During 2020-21, we had approved

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that Regeneration Survey will be carried out in 57 forests comprising an area of 1544 ha. (86%). However, due to COVID-19 pandemic and resultant disruption of normal working conditions, field operations like fencing etc got very much delayed. Therefore, it will be advisable to carry out Regeneration Surveys in 57 forests after completion of fencing during 2021-22, first once in April-May to be repeated second time again in October 2021 to assess survival rate of nursery raised tall plants, coppiced shoots and recruits from seed origin.

FOURTH RECOMMENDATION

It is recommended that the proposed Regeneration Strategy may be approved. Regeneration Surveys should be carried out in 57 forests comprising an area of 1544 ha, after fencing is completed during 2021-22 except N/25, first once in April-May to be repeated second time again in October 2021, as per Guidelines and Methodology of Assessment of Regeneration in our Third Six Monthly Report. (Para 2.11, pages 60-62 and ANNEXURE 2.9) submitted on 30th August 2019.

3.1.5 APPROVAL OF TIME TABLE FOR IMPLEMENTATION OF SILVICULTURAL FELLINGS AND RELATED INTERVENTIONS

Hon'ble Supreme Court, while approving and accepting **24** Recommendations of our Second Six Monthly Report has issued orders on 15th April 2019, in respect of Recommendation (Para 3.1, Page 75-76) as follows:

"Subject to execution of prioritized core activities during preparatory period of 2019-20 for achieving scientific Forest

Management, ban on green fellings should be relaxed from 2020-21 onwards."

In the above context it is necessary to stress again that all forestry operations demand timely execution of sequential field operations, particularly Enumerations, Silvicultural markings, fellings/ extraction operations followed by **post felling interventions** like closure and fencing in a time bound manner. In this context, Hon'ble Supreme Court **vide** its order **dated** 16th February 2018 has laid special emphasis as follows:

"PAGE 10 Para 9 Stipulation no. 5. In addition to the conditions laid down in the Working Plan and those laid down by the CEC, the State of Himachal Pradesh shall ensure that **adequate funds** are made available and re-afforestation is done either simultaneously or if it is not possible, immediately after felling is complete in each block of 20 hectares.

"PAGE 10 Para 9 Stipulation no. 6. It should also be ensured that these forest areas are kept **free from grazing** and are protected;"

During the course of our monitoring and repeated field inspections, we have come to the conclusion that unless a time table for field interventions is in place for rigid compliance, it will be totally a futile exercise to carry out Silvicultural Fellings. Undoubtedly, soon after felling and extraction operations get completed by March end, fencing operations have to commence immediately thereafter to be completed before rainy season for ensuring Regeneration. Therefore,

in order to internalize experience gained during the implementation of Experimental Silviculture Fellings and for future action plans for scaling up Silviculture Fellings in other forests, we have worked out a stage wise Implementation Time Table, which can be seen as Annexure 3.2. The proposed Time Table is having clearly defined interventions and operations to be carried out according to a month wise implementation time frame in three distinct periods for the guidance of all implementing agencies:

- 1. PRE FELLING OPERATIONS IN PRECEDING YEAR
- 2. OPERATIONS IN THE YEAR OF FELLING
- 3. POST FELLING OPERATIONS IN SUCCEEDING YEAR

Key Prerequisites

It is absolutely essential that hereafter all Silvicultural Felling operations in forests prescribed for felling operations including thinning and other cultural operations in forests prescribed for felling under approved Working Plan must be carried out in accordance with the proposed Time Table spread over three years subject to the compliance of following prescribed basic prerequisites on ground:

- Boundary Pillars should be in position and area as given in Compartment History File is crosschecked with GPS Latitude /Longitude readings.
- Forest should be free from any encroachment /illegal occupation.



- The legal status of forests is authenticated in Revenue Records-Reserve, DPF or UPF mentioning name and total area of the forest.
- Funding has to be ensured particularly for post felling operations in succeeding year within the month of April so that there is enough time to plan and execute works, particularly closure and fencing works.
- As an example, for a forest prescribed for felling in 2022-23, all
 pre-felling operations will have to be completed in 2021-22 and
 likewise all post felling operations will be completed in 2023-24.

FIFTH RECOMMENDATION

It is recommended that hereafter all Silvicultural Felling operations in forests prescribed for felling including thinning and other cultural operations under approved Working plan must be carried out in accordance with the proposed Time Table spread over three years subject to the compliance of aforementioned prescribed five basic prerequisites on ground.

3.1.6 APPROVAL FOR ENFORCING REVAMPED SYSTEM OF MANDATORY MONITORING THROUGH FIELD VERIFICATIONS Needless to point out that the existing "INSTRUCTIONS MANUAL FOR MONITORING AND EVALUATION OF PLANTATIONS AND OTHER FIELD WORKS" applicable from 2017-18 was made when there was a ban on green fellings and it is not tailored for Silviculture Felling operations under Scientific Forest Management as it could not provide feedback

relating to the following glaring deficiencies at the ground level for most basic indicators for much needed Scientific Forest Management:

- Reserve Forests and Demarcated Forests were being managed without Boundary Pillars
- Legal status of these valuable forests is not authenticated by a Mutation in Revenue Records
- 16 Working Plans have remained expired so far

The Monitoring Committee during its tenure of three years from February 2018 to April 2021 has already established and put in place a thorough institutional mechanism for carrying out Experimental Silviculture Fellings based on repeated physical inspections and onsite guidance to implement approved field interventions.

In order to ensure the continuity and the desired intensity of regular field inspections of 65 approved forests under Experimental Silviculture Fellings Programme, it is recommended that a Revamped System of Mandatory Inspections may be put in place by the Govt/Principal Chief Conservator of Forests to ensure regular monitoring of the following interventions having been executed with huge investments:

 Up keep and maintenance of Boundary Pillars in case of Reserve and Demarcated Protected Forests and in case of Undemarcated Protected Forests, boundary marks with RCC poles embedded 60 cm in ground.



- Authentication of legal status of Reserve, Demarcated and Undemarcated Forests in Revenue Records.
- Upkeep and maintenance of barbed wire fencing of approved forests for closure.
- Regeneration Surveys in all fenced forests till Regeneration is fully established.
- Fire protection precautions are in place.

6 SIXTH RECOMMENDATION

In order to ensure the continuity and the desired intensity of regular field inspections of 65 approved forests under Experimental Silviculture Fellings Programme, ιt is recommended that α Revamped System of Mandatory Inspections as an institutional mechanism should be be put in place by the Govt/Principal Chief Conservator of Forests to ensure regular monitoring of the interventions completed.

3.1.7 APPROVAL OF EMPOWERING RANGE OFFICERS FOR COMPOUNDING OF FOREST OFFENCES IN APPROVED FORESTS UNDER IA 3840-EXPERIMENTAL SILVICULTURE PROGRAMME

Section 68 of the Indian Forest Act states that "the State Government may, by notification in the Official Gazette, empower a 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 or section 63), 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".

In this context, Government of Himachal Pradesh, in notification dated **05.05.2010** (No. FFE-B-A (3)-3/2010) had empowered all the Range Officers to compound forest offences and to accept compensation and/or release the seized property. The cases where compounding is not to be done have also been spelled out clearly in the same notification. The provision of compounding has been restricted only to petty offenses (lopping, grazing, bonafide use etc.).

However in **CWPIL No. 8 of 2015 (A/W CWP No. 4888 of 2015)**, the Hon'ble High Court of HP had restrained the forest officers from compounding the forest offence(s).

Since the compounding has been restrained, even a petty case of felling of a class V pole or excessive lopping, where the offender is willing to pay compounding fee for the damages, needs to be challaned in Court (either directly or through police). Due to lack of evidence in most of the forest cases as well as lack of competence of the staff in court challaning, conviction rates are abysmally low. At the end of it, neither does a petty offender pays compounding fee, nor is he convicted.

It has been brought to our notice during our inspections that the interpretation of restraining Range Officers for compounding petty offences has become counterproductive and needs to be reviewed Therefore, it is necessary that Range Officers should be empowered to compound forest offences, accept compensation and / or release the seized property, only in the following cases of **petty offences**:

- Where illicit felling of trees has been done to meet the bonafide domestic requirements.
- Offence where the amount of forest produce is less than rupees **ONE LAKH**.
- Illicit lopping/illicit grazing
- Weak cases lacking in evidence and subsequently rendered un-fit for challan shall be compounded after examination by Divisional Forest Officer on advice of concerned District Attorney.
- In certain situations, compounding may be allowed to be done at double rates (offenses after sunset/ before sunrise/ in Reserve forest/ resisting action etc.).

SEVENTH RECOMMENDATION

It is recommended that in all forests under IA 3840 where fencing has to be done after Silvicultural Fellings or for undertaking enrichment plantings in case of degraded forests and maintenance has to be carried out till regeneration is fully established, Range Officers should be empowered to compound above referred petty offences where the amount of forest produce is less than rupees ONE LAKH.



- 3.2 RECOMMENDATIONS RELATING TO IA No 87648 OF 2020-APPROVAL FOR SILVICULTURE FELLING OF KHAIR TREES IN HP.
- 3.2.1. CONTEXT OF IA No 87648 OF 2020
- 1. Prayer made in IA No 87648 OF 2020

The Government of Himachal Pradesh has filed an Interlocutory

Application No. **87648 OF 2020** on 5th September 2020, (Application for directions) containing the following prayer:

PRAYER

"In view of the submissions made herein above, the Applicant most respectfully prays that this Hon'ble Court may kindly be pleased to:

- a) Allow the State of Himachal Pradesh to carry out silviculture felling of Khair (*Acacia catechu*) trees in the forests areas of the State in accordance with the approved Working Plans;
- b) Pass further relief and orders, which this Hon'ble Court deem fit and proper in the facts and circumstances of the case in the interest of justice. Dated: 05.09.2020."

2. Order of Hon'ble Supreme Court

The latest Order of Hon'ble Supreme Court dated 15th February 2021 relating to IA NO.87648 of 2020 is as follows:

"The aforesaid I.A. is to be adjourned for 12 weeks. The Committee appointed vide order dated 16th February 2018 may examine the contents of this I.A while filing its further report regarding result of Silviculture operations already undertaken"



3.2.1. Permission Sought for 9 Working Plans

In paragraph 12 of IA NO.87648 of 2020, permission has been sought for fellings under 9 approved Working Plans as follows:

"12. That it is humbly submitted that the Khair Working Circle in the State of Himachal Pradesh is very small. In 9 approved Working Plans of Dharamshala, Nurpur, Una, Bilaspur, Hamirpur, Nalagarh, Nahan & Paonta Sahib, Dehra and Una (Kutlehar) Forest Divisions covered under Khair overlapping Working Circle in the State of Himachal Pradesh, approximately on an average 6758.33 M3 volume of Khair (Acacia catechu) trees has been prescribed for felling per year. As already submitted in the foregoing paras, the felling of green Khair trees has not been undertaken in the forest areas of the State of Himachal Pradesh since last about three decades due to ban on felling of green trees. As a result of ban on felling of green trees, majority of Khair trees in the forest areas of the State have crossed their age of maturity and got deteriorated resulting in reduction in quality and quantity of its produce as also coppice ability."

3.2.2. RECOMMENDATIONS BY MONITORING COMMITTEE RELATING TO IA No 87648 OF 2020

3.2.2.1. Analysis of Validity of 9 Working Plans Relating to IA NO. 87648

An analysis of latest status of 9 Working Plans referred to in paragraph 12 of IA NO.87648 of 2020 is presented in a tabular form for easy perusal of key technical implications as follows:

TABLE 3.1 Status of Working Plans Relating to IA No 87648

FOREST DIVISION/WP		RECOMMENDATION
1.BILASPUR	2012-13 TO 2027- 28	MAY BE APPROVED
2.DHARAMSHALA	2012-13 TO 2021-22	WORKING NOT
3.NURPUR	2012-13 TO 2021-22	FEASIBLE IN 2021-22 WORKING NOT FEASIBLE IN 2021-22
4.DEHRA	2012-13 TO 2021-22	WORKING NOT
5.HAMIRPUR	2016-17 TO 2028-29	FEASIBLE IN 2021-22 WORKING NOT PERMISSIBLE
6.UNA	2012-13 TO 2026- 27	MAY BE APPROVED
7.UNA(KUTLEHAR)	1999-2000 TO 2013- 14	WORKING NOT PERMISSIBLE
8.NALAGARH	2012-13 TO 2026- 27	MAY BE APPROVED
O.NAHAN AND PAONTA SAHIB	1886-99 TO 2012-13	WORKING NOT PERMISSIBLE

- Working Plans for Nahan/Paonta and Una (Kutlehar) Forest
 Divisions have already expired and till revision, no working is permissible.
- Working Plans for Dharamshala, Nurpur and Dehra Forest Divisions will be operative only till the end of 2021-22. Field operations like 100 % Enumerations and thereafter Silviculture markings cannot be completed before 15th September 2021, the stipulated time limit for forests to be handed over to HPSFDC for felling. Therefore, Silviculture fellings in these 3 Forest Divisions in the very last year does not appear to be feasible.

- Working Plan for Hamirpur Forest Division, though operative till
 2028-29, does not have a Khair Overlapping Working Circle
 and thus no working is permissible.
- In view of the above facts, the approval for Silvicultural fellings including thinnings under Khair Overlapping Working Circle is permissible only for the following 3 Forest Divisions namely; Bilaspur, Una and Nalagarh having approved Working Plans.

3.2.2.2. Recommendations

Context

Building on our field observations during implementation of all operations under IA No. 3840 from February 2018 to April 2021 under guidelines and directions contained in Hon'ble Supreme Court Order dated 16th February 2018 and final results of Experimental Silvicultural Felling operations in 65 approved forests for four species namely Sal, Chir Pine, Eucalyptus and Khair (50 forests under Khair Overlapping Working Circle in Nurpur Forest Division), we would like to make the following Recommendations:

1. Subject to the approval of Hon'ble Supreme Court for carrying out Silvicultural fellings including thinnings under Khair Overlapping Working Circle, it is recommended that the sequence of field operations should broadly follow Implementation Time Table given as ANNEXURE 3.2 (Recommendation No 5) as follows:

- In 2021-22, being the Preceding Year of Felling, all preparatory activities will be completed namely; Lantana eradication, validation of areas of approved forests
- In 2022-23, being the Year of Felling for forests prescribed for fellings in 2022-23, all operations will be completed namely; 100% Enumerations, Silvicultural Markings, Fellings and extraction works.
- In 2023-24, being the Succeeding Year of Felling, all post felling operations will be completed namely; fencing and closure of felled forests, planting of tall nursery grown plants of Khair followed by repeated Regeneration Surveys thereafter.

8 EIGHTH RECOMMENDATION

It is recommended that the approval may be given for Silvicultural fellings including thinnings under Overlapping Working Circle permissible for the following 3 Forest Divisions namely; Bilaspur, Una and Nalagarh having approved Working Plans. It is also recommended that the sequence of field operations should broadly follow Implementation Time Table given as ANNEXURE 3.2 (Recommendation No 5).

ANNEXURE 1.1

INTERLOCUTORY APPLICATION NO 3840 OF 2014 IN WRIT PETITION (CIVIL) NO. 202 OF 1995

(UNDER ARTICLE 32 OF THE CONSTITUTION OF INDIA)

TERMS OF REFERENCE

HON'BLE SUPREME COURT ORDER OF DATED 16TH FEBRUARY 2018

REPORTABLE

IN THE SUPREME COURT OF INDIA CIVIL ORIGINAL JURISDICTION

INTERLOCUTORY APPLICATION NO. 3840 OF 2014 IN WRIT PETITION (CIVIL) NO. 202 OF 1995

IN RE:

T.N. GODAVARMAN THIRUMULKPAD

.... PETITIONER(S)

VERSUS

UNION OF INDIA AND ORS.

... RESPONDENT(S)

IN RE:

STATE OF HIMACHAL PRADESH

.... APPLICANT (S)

VERSUS

SECRETARY, MINISTRY OF ENVIRONMENT & FORESTS

... RESPONDENT(S)

ORDER

<u>Deepak Gupta J.</u>

1. By means of this application the State of Himachal Pradesh has prayed that it may be permitted to carry out silviculture felling including thinning and other cultural operations in

accordance with the Working Plan approved by the Government of India up to an elevation of 1500 metres above Mean Sea Level (MSL) in Chil Pine, Khair and broad-leaved forests only.

- 2. On 12.12.1996, this Court issued directions to a large number of States. The relevant directions with regard to the State of Himachal Pradesh read as follows:
 - "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 a forest; and which has not been converted from an earlier "forest". This ban will 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 fallen trees or fell and remove diseased or dry standing timber from areas other than those notified under Section 18 or 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 State 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."

Despite such order having been passed, the amicus curiae 3. on 14.02.2000 submitted before this Court that there were reports in the press that the State of Himachal Pradesh had passed some orders lifting the ban on felling of trees. This Court, thereafter, issued notice to the State of Himachal Pradesh and also made it clear that if any such orders have been passed, the operation of the same were stayed and no felling of trees be done. In the affidavit filed by the State of Himachal Pradesh, in response to the order dated 14.02.2000, it was pointed out that the intention of the State was to resume silviculture operations consisting of regeneration, felling and thinning of the trees as per the Working Plan duly approved. The State of Himachal Pradesh also informed this Court that though the State had intended to do silivicultural felling but in actual fact this decision has not been given effect to. It was clearly mentioned that no felling of trees has taken place except of those allowed by this Court specifically. It is also pertinent to mention that the Government of India vide G.O. dated 11.10.2002 suspended the

Working Plan for various States including the State of Himachal Pradesh. The State then approached the Central Empowered Committee (for short 'the CEC"), which advised the State to approach this Court for modification or vacation of the earlier stay order. This led to the filing of the present application.

- 4. After this application was filed, this Court directed the CEC to file its report. The CEC, in its report dated 06.07.2017 has made the following recommendations:
 - "i) the permission for silvicultural fellings including thinning in the State of Himachal Pradesh be limited to only three working circles of Chil, Sal and Khair occurring below 1500 MSL to encourage regeneration of the forests aimed at achieving mixed species forests with multi layered canopy having more efficient carbon sequestration capability;
 - ii) no felling of broad leaved species be permitted in the compartments to be taken up for regeneration fellings of the above three working circles or in the miscellaneous/broad leaved working circle irrespective of the recommendations in the Working Plan;
 - iii) 764 ha. of Eucalyptus trees proposed for felling as per Working Plan prescriptions be permitted to be felled and the same area regenerated with native broad leaved species;
 - iv) rotation of Sal and Chil to be 120 years and are worked under irregular shelterwood system;
 - v) rotation age of Khair be kept at 30 years with minimum dia of 25 cms. at breast height;
 - vi) there will be total ban on burning of debris including after seeding or over wood felling in order to encourage natural regeneration of broad leaved species and reduce soil erosion;

vii) no felling to be undertaken in Ban oak forests and other broad leaved forests other than Sal and Khair;

- viii) planting component in Assisted Natural Regeneration shall include more than 50% seedings of native broad leaved and multipurpose use species other than that of the principal species;
- ix) the removal of Lantana weed to be an integral component of regeneration felling and the removal of Lantana has to be completed before the felling operations commence, so that the regeneration of the felled area is taken up forthwith;
- x) in Khair working circle a minimum of 50 healthy trees per ha. are identified in advance, at least two years prior to the proposed felling in the compartment and labelled as mother trees or standards and these trees are not permitted to be lopped thereafter;
- xi) the size of the compartment to be taken up for regeneration felling in a given year shall not exceed 20 hat. If any compartment is more than 20 hat in area, it can be sub-divided into two or more units so as to avoid creation of large gaps in canopy of forests in a given location;
- xii) the felling operations in the adjoining forest area/compartment of the already felled area/compartment be taken up only after five years of regeneration felling in the given compartment and after ensuring that the regeneration is established in the already cleared forest area;
- xiii) adequate soil and moisture conservation measures are to be undertaken in regeneration area;
- xiv) no green fellings are to be carried out in steep slopes and along streams and nallas as per the standard prescription in the Working Plan code and in the forest areas falling under Protection cum Rehabilitation Working Circle;
- xv) State Government shall prepare three separate comprehensive management plans one each for Chil, Sal and Khair respectively covering the entire forest area falling below 1500 MSL incorporating revised set of prescriptions as detailed in this report as one time exercise and after obtaining approval of MoEF&CC, integrate the same with the Working Plans of

respective forest divisions for operational purposes;

xvi) State Government shall submit an undertaking in the form of an Affidavit before the Hon'ble Supreme Court ensuring sufficient budgetary provisions for undertaking regeneration of the felled area in the financial year following the felling year."

5. The report filed by the CEC was considered by this Court on 12.09.2017 when learned counsel appearing for the State of Himachal Pradesh submitted that he would file an affidavit identifying three working circles in different areas of the State. After this affidavit was filed, we realised that circles covered a large area and the State was directed to file an affidavit giving the areas covered by each circle and also the area of each range/beat in the circle. On perusal of the affidavit it was found that each forest circle comprises of a very large area covering more than one district in the State, which would entail felling of large number of trees. Thereafter, on 04.12.2017, the State was directed to identify two or three ranges where the process of silviculture felling may be carried out, the area of each of those ranges, the number of beats in each range and the area of each beat.

- Affidavit has been filed and in this affidavit it has been 6. pointed out that for felling of Khair (Acacia Catechu) trees, Nurpur Forest Range of Nurpur Forest Division (Dharamshala Forest Circle) of District Kangra, Himachal Pradesh has been identified. Khair wood is used commercially in making katha and, therefore, the wood of this tree is in great demand. It has been proposed that 80% of trees of 25 cms. diameter and above would be felled and remaining 20% of trees of 25 cms. diameter and above would be retained to act as mother trees. It is also stated that no other broad-leaved tree shall be felled. Details have been given and it is proposed to carry out felling in the year 2018-2019 in an area of 903.14 ha. and an area of 706.30 ha. has been earmarked for silviculture felling for the year 2019-2020.
- 7. As far as Chil Pine (*Pinus Roxburghii*) trees are concerned, the State of Himachal Pradesh has proposed an area of 49.05 ha. for the year 2018-2019 and an area of 23.95 ha. for the year 2019-2020 for silviculture felling in the Bharari Forest Range of Bilaspur Forest Division (Bilaspur Forest Circle) of Bilaspur District of Himachal Pradesh. As far as Chil is concerned, it is

proposed that at least 20-25 mother trees per hectare shall be retained.

- 8. As far as Sal (*Shorea Robusta*) trees are concerned, the range identified is Paonta Forest Range of Paonta Sahib Forest Division (Nahan Forest Circle) of District Sirmour of Himachal Pradesh and an area of 176.01 ha. for the year 2018-2019 and an area of 120.12 ha. for the year 2019-2020 have been earmarked for silviculture felling.
- 9. This Court, with a view to protect the forests, had totally banned felling of trees. As per the affidavits filed by the State of Himachal Pradesh, some amount of silviculture felling is necessary, because if no felling is done then regeneration of trees is not as fast as it should be and once the mature trees die after reaching their maximum life span, there will be very few young trees to replace the old trees. Felling of trees in India has been banned for more than two decades. We are of the view that on an experimental basis we may permit silviculture felling of trees to a very limited extent and such felling should be monitored very carefully to see whether such silviculture felling actually helps in the regeneration of forests or not. We may also note that the

CEC, in its report, has also permitted felling of trees subject to certain conditions. We may further note that the CEC has recommended that the size of the compartment taken up for regeneration in a given area shall not exceed 20 hectares and we reiterate that the State shall be bound by all the conditions laid down by the CEC including the condition that no compartment of more than 20 hectares shall be felled at one go. In addition to the conditions laid down by the CEC, the following conditions shall be strictly complied with by the State of Himachal Pradesh:

- 1. The felling should be done directly by the Forest Department or by the Himachal Pradesh State Forest Corporation and the work of felling should not be handed over or given on contract to any private agency;
- 2. The Forest Department should ensure that videography of each beat where felling is to be done, is done separately at regular intervals to clearly indicate the condition and state of the forest before felling, during felling and after felling;

- 3. As far as Khair trees are concerned, the State shall ensure that at least 25% of mature Khair trees are retained as mother trees and these should be marked and numbered as trees not to be felled, which should be clearly reflected in the videography. The trees to be felled can be marked by a separate colour. The number, size and girth of the trees should be clearly spelt out;
- 4. As far as Chil Pine and Sal trees are concerned, the State shall ensure that at least 40 mature trees are retained per hectare and the other conditions will be the same as applicable to Khair trees;
- 5. In addition to the conditions laid down in the Working Plan and those laid down by the CEC, the State of Himachal Pradesh shall ensure that adequate funds are made available and re-afforestation is done either simultaneously or if it is not possible, immediately after felling is complete in each block of 20 hectares.
- It should also be ensured that these forest areas are kept free from grazing and are protected;

- 7. The State should also ensure that sufficient number of healthy saplings are planted so that there is proper regeneration of the forest.
- 8. This entire programme of experimental silviculture felling shall be done under the supervision and guidance of a two-Member Committee headed by Shri V.P. Mohan, IFS (Retd.), former Principal Chief Conservator of Forests, Himachal Pradesh. The second member of this Committee shall be nominated by the Vice Chancellor, Dr. Y.S. Parmar University of Horticulture and Forestry, Nauni, Solan, Himachal Pradesh. The second Member shall be a Professor of Silviculture.
- 10. The Principal Chief Conservator shall be liable to ensure that felling is done strictly in accordance with the orders of this Court. To this limited extent, the orders dated 12.12.1996 and 14.02.2000 are modified as far as the State of Himachal Pradesh is concerned.
- 11. The Committee should submit its report to this Court every6 months. The State of Himachal Pradesh shall provide all

facilities to the committee including transport and boarding facilities. The remuneration to be paid to the members of the committee shall be determined when the committee submits its report.

- 12. Registrar Judicial to send the copy of this order to Shri V.P. Mohan, IFS (Retd.), former Principal Chief Conservator of Forests, Himachal Pradesh, Sunny Villa, Nigam Vihar, Shimla-171002 and Dr. Y.S. Parmar, University of Horticulture and Forestry, Nauni, Solan, Himachal Pradesh-173203.
- 13. Accordingly, I.A. is disposed of.

.....J. (Madan B. Lokur)

.....J. (Deepak Gupta)

New Delhi February 16, 2018

ANNEXURE 2.1

SNAPSHOT OF MAJOR FIELD OPERATIONS UNDER EXPERIMETAL SILVICULTURAL FELLING PROGRAMME - 65 FORESTS - 2054 HA

		T. DDDING	PROGRA Je PAONI				
YEAR	PARTICULAR	S R	9 8 8 A 8 B	BHARA	BHAGA	FA W	
		KHAI		CHII	EUCA	LVPTUS	
	NO. OF	100% ENU	MERATIO)	NS (COMP)	LETED)		
2018- 19	FORESTS	12	4	3	1	1	1787 - 150 1170 11781
	AREA IN HA.	217	79	49	25	62	21
2019-	NO. OF FORESTS	45	6	2	0	02	432
20	AREA IN HA.	1324	205	24		_	53
7	OTAL AREA	1541	284	73	0	0	155
	2) SIL	VICULTUR		NCC (OOK	25	62	198
2018-	NO. OF FORESTS	8	4	3	received) 1	0	16
19	AREA IN HA.	137	× 79	49			
2019-	NO. OF				9	0	274
20	FORESTS	30	6	2	0	0	38
e de la filia de l	AREA IN HA.	1066	205	24	0	О	1295
	OTAL AREA	1203	284	73	9	0	1560
	3) FELLING AND I	EXTRACTI	ON OPERA	TIONS BY	HP STATI	FORES	T
	NO. OF	ELOPMEN'	UURPUR	AHUN (HI	PSFDC)		
0010	FORESTS	8	4_	3	1	0	16
2018- 19	AREA IN HA.	137	79	49	9	О	274
±0,	VOLUME IN CUM	359	6551	3281	0	0	1019 1
	NO. OF	 					(33%)
2019-	FORESTS	30	6	2	0	0	38
2019-	AREA IN HA.	1311	205	24	0	0	1540
	CUM IN	6093	13578	1104	0	0	2077 5
T	OTAL AREA	1448	284	73	9	0	(67%)
TO	TAL VOLUME	6452	20129	4385	0	0	1814 3096
	4) FE	NCING AN	D PLANTIN	IG OPEDA	TIONS	<u> </u>	6
2019-	NO. OF FORESTS	9	3	2	1	1	16
20	AREA IN HA.	142	60	33	25	62	322
020-	NO. OF FORESTS	33	3	1	0	0	(20%) 45
21	AREA IN HA.	781	118	2	0	0	1317 (80%)

YEAR	PARTICULARS	MURPU	PAONT	Billiana	BRIGA	JAME	14.71
		KHAIR	SAL	OFF	EUCAL		
2021-	NO. OF FORESTS	7	0	0 2 3	0	0	7
22	AREA IN HA.	329	0	0	0	0	329
2022-	NO. OF FORESTS	ĺ	0	0	0	0	1
23	AREA IN HA.	87	0.	. 0	0	Û	87
T	OTAL AREA	1339	178	35	25	62	1639
	5) REG	ENERATIO	ON ASSES	SMENT SU	IRVEV		1009
2019- 20	NO. OF FORESTS	8	2	2	1	0	13
	AREA IN HA.	140	54	33	25	0	050
2021- 22	NO. OF FORESTS	-49	4	3	1	0	252 57
	AREA IN HA.	1337	147	35	25	0	1EAA
	TOTAL	1477	201	68	50	0	1544 1796

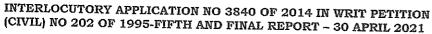
NOTE:

- 1. AREA OF N/11(B)-42HA. AND N/12(B)- 27HA., TOTALLING 69 HA. NOT INCLUDED UNDER 100% ENUMERATIONS.
- 2. N/25 IS EXPECTED TO BE HANDED BACK TO HPFD BY HPSFDC IN SEPTEMBER 2021. THEREFORE FENCING AND PLANTING OPERATIONS ARE SCHEDULED IN 2022-23 AND REGENERATION SURVEY WILL BE DONE THEREAFTER.

Status of Implementation of Recommendations made by the Monitoring Committee in Experimental Silviculture Felling Programme allowed by the Hon'ble Supreme Court in IA No. 3840/2014 in WP (Civil) 202/1995

 2nd Six Monthly Report of Monitoring Committee - Implementation Status of 24 Recommendations Accepted by the Department (Order dated 15.04.2019 passed by Hon'ble Supreme Court in IA No. 3840/2014 in WP (Civil) 202/1995)

Sr. No:	Para/ Page of Report	Particulars of Recommendations as appeared in Supreme Court Order dated 15.04.2019	Updated Status of Implementation ending March 2021
(i)	Para 2.1.1 (p.14, p.45)	A. Chirpine – Approval of silviculture markings with retention of only 25 mother trees per hectare instead of 40 mother trees as laid down in Hon'ble Supreme Court order of 16th February, 2018.	marking of trees in Bharari Forest Range of Bilaspur Forest Division.
(ii)	Para 2.1.1 (p.14, p.46)	Sal 40-55 seed bearers - no restriction of area.	marking of trees in Paonta Forest Range of Paonta Sahib Forest Division.
(iii)	Para 2.1.1 (p.15, p.47)	Khair - Marking in Khair forests to include Chirpine markings as well.	markings during silvicultural marking of Khair forests in Nurpur Forest Range of Nurpur Forest Division
(iv)	Para 2.1.3 (p.16, p.49	a) Boundary pillars must be erected at all forests planned for treatment in 2018-19 & 2019-20.	a) The boundary pillars in all the forests approved under Experimental Silviculture Felling Programme in Nurpur, Bharari and Paonta Forest Ranges of Nurpur, Bilaspur and Paonta Forest Divisions respectively have been repaired / constructed
		b) Furnishing of certificate by DFO & CF concerned in prescribed format.	b) The certificates in respect of boundary pillars have been furnished by the DFOs duly signed by the concerned Territorial CCFs/ CFs.
(v)		Immediate action required for approval of three management plans.	The Management Plans for Nurpur, Bharari and Paonta Forest Divisions were approved by MoEF & CC,



Sr.	Para/ Page of		Updated Status of Implementation ending March
No.	Report	appeared in Supreme Court Order dated 15.04.2019	2021
	• • •	And the second district of the second distric	Govt. of India.
(vi)	Para 2.1.10, (p.54)	The monitoring committee has estimated that about Rs. 1.25 lac per ha. is likely to be spent on all forests under experimental silvicultural felling programme meaning an	During 2018-19, an expenditure of Rs. 2.45 crore was incurred on implementation of Experimenta Silvicutural Felling Programme in the State. During 2019-20, an amount of Rs. 5.49 crore was spent or
		investment of about Rs. 26 crores on 68 forests spread over 2054 ha of area for 100%	enumerations, markings, removal of lantana, fencing planting and construction/ repair of boundary pillars
		enumerations, silviculture markings, fencing and other required interventions for ensuring regeneration. Unless such forests	etc. in the forests approved for this purpose. Similarly During 2020-21, against an outlay of Rs. 8.40 crore an expenditure of Rs. 4.27 crore has been incurred till
		have secure legal tenure and boundary pillars in position for demarcation and	20.03.2021 on the activities related to experimenta silviculture felling. In addition, Rs. 5.90 crore has been
vii)	Para 2.1.13 A	fencing, all investments will go waste. Expired working plans for 15 Forest Division	proposed for the year 2021-22.
		need revision	Out of total 37 Working Plans in the State, 19 are currently in operation and remaining 18 need revision against which Final Draft Working Plans of 5 Forest Divisions have been prepared and submitted to the Govt. of India for approval. Out of
			balance 13 Working Plans to be revised, the revision of 7 working plans as per National Working Plan Code 2004 is in progress and at different
			stages, out of which 5 working plans are likely to be completed by next six months and 2 within a year. Further, against remaining 6 Working Plans to be
			revised as per National Working Plan Code 2014, the PWPRs for these have been approved. For preparing working plans of these 6 divisions, the matter of posting of one CF exclusively for this



Sr. No.	Para/ Page of Report	Particulars of Recommendations as appeared in Supreme Court Order dated 15.04.2019	Updated Status of Implementation ending March 2021
			work is under active consideration of the State
(viii)	Para 2.1.13 A I (6), (p.17, p.62)	Plan operative for 10-15 years be discontinued & Revised Working Plans to be prepared well in time.	Plans by the State Govt All efforts are being mode to
(ix)	Para 2.1.13(7), (p.18, p.62	Mid-term revision of Working Plans to be done.	Necessary directions have been issued to the concerned CCFs/CFs for undertaking Mid-term review of Working Plans in operation.
(x)	Para 2.1.13, p.18, (p.63)	Subsidiary silviculture operations to be allowed only in forest divisions having approved Working Plan.	As recommended subsidiary silviculture operations
(xi)	Para 2.2.2, Table 2.9, (p.19, p.68)	a) Inspection of all areas planned for 2019- 20 in Bhagani & Jamta Forest Ranges (Eucalyptus) by senior forest officers in 1st fortnight of March 19.	a) Inspections by Senior Forest Officers were carried out and their reports were submitted to the Monitoring Committee.
		b) Final Time Table for inspection and approval of forests for experimental silviculture fellings (inspections, completion of extraction by HPSFDC, videography, enumeration, marking etc.) by senior forest officers and monitoring committee. This includes the recommendation regarding senior forest officers to inspect forests in the first fortnight of March, 2019.	b) As was planned by the Committee, inspections of forest areas approved for Experimental Silviculture Felling during 2019-20 were carried out by Senior Forest Officers and their reports were submitted to the Monitoring Committee.
ii)]	Para 3.1,		The prioritized core activities were executed during



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	(p.21, p.75-76)	activities during preparatory period of 2019- 20 for achieving scientific Forest Management, Ban on Green Fellings should be relaxed from 2020-21 onwards.	other 23 recommendations of the Monitoring Committee. Therefore, the Ban on Green Felling should be relaxed as recommended by the Committee
(xiii)	Para 3.2, (p.79-81	The Monitoring Committee has concluded that the only practical way to revive much talked scientific forest management at the ground level is possible only by the compliance of four inter related pillars/indicators. It needs to be stressed that action on all four prioritized core activities has to be taken in tandem.	As reported in compliance to other 23 recommendations, the State Govt. is taking all necessary actions in tandem on four inter-related prioritized core activities/ indicators.
(xiv)	Para 3.2.2. (p.22. p.83	Authentication of Legal status of Forests by Mutation in Revenue Records at the soonest.	The matter regarding authentication of Legal status of forests approved under Experimental Silviculture Felling programme in Nurpur, Bharari and Paonta Forest Ranges has been taken up with the Revenue authorities by the Divisional Forest Officers, Nurpur, Bilaspur and Paonta respectively and is under process at the level of Revenue Authorities.
Walk Buch	(p.22, p.84)	1. Staffing of O/o APCCF Working Plan Mandi with adequate technical staff.	1. The office of APCCF (Working Plan), Mandi has been staffed with DFOs (2), Superintendent Grade-II(2), Sr. Assistant(1), Jr. Office Assistant(2), Head Draftsman(1), Draftsman(1), Jr. Draftsman(1) and Forest Guard(1).
		Plans to be done by Territorial Conservators.	2. Necessary directions have been issued to the concerned CCFs/CFs for undertaking Mid-term review of Working Plans.
		3. Working Plan preparation should be	3. The guidelines prescribed in National Working Plan



Sr.	Para/ Page of	Particulars of Recommendations as	Updated Status of Implementation ending March
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		undertaken only after inspection of each forest & location of BPs be shown on the map with GPS location.	map of forests. These guidelines are being followed and will continue to be followed in future also while preparing working plans
(xvi)	Para 3.2.4, (p.22, p.85)	1. Training of freshly recruited Forest Guards.	1. 200-220 newly recruited Forest Guards are being imparted training every year in both the Forest Training Institutes at Chail and Sundernagar.
		2. Revision of the syllabus for training of front line staff to include practical processes of experimental silviculture fellings.	2. The "Silviculture Felling" chapter stands included in the subject of Silviculture in Six Month Induction Course for Forest Guards. The trainees are also exposed to the practical processes of experimental silviculture felling. For this purpose, field visits to the areas of experimental silviculture felling in Nurpur, Bilaspur and Paonta Sahib Forest Divisions have been made compulsory during the course of training of forest guards.
		Rangers.	3. Out of total 296 (DR-133 + PR-163) sanctioned posts of Range Forest Officers, 214 (DR-76 + PR-138) are in position and 82 (DR-57 + PR-25) are vacant. Against 57 vacant posts of Direct Recruitment quota, the matter for filling up 51 posts has already been taken up with the State Government. In addition, the process for filling up of vacant posts of Promotion Quota, including the posts likely to fall vacant during 2021, has also been initiated.
199		4. Creation of smaller forest beats for effective patrolling.	4. The proposals for creation of smaller beats have been received from the field offices and a



Sr.	Para/ Page of	Particulars of Recommendations as	Updated Status of Implementation ending March
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			comprehensive proposal is being formulated for submission to the State Government for approval.
(xvii)	Para 3.2.5 (p.23, p.86)	Posting of 9 IFS officers working in non-cadre posts in cadre post.	Since acceptance of this recommendation, 8 IFS. Officers, who were working in Non-cadre Divisions, have been posted in Cadre Divisions. Efforts are now being made to get IFS Officers posted in Cadre Divisions in accordance with the availability of officers.
(xviii)	Para 3.3 (p.24, p.92		The State of Himachal Pradesh is store house of bio-diversity in the country. The State Government has taken various initiatives to increase its green cover and ensure environmental conservation. The efforts of State Government have helped in steady rise in the green cover of the State. According to the India State of Forest Survey Report (FSR) 2019 issued by Forest Survey of India, out of total geographical area of 55673 Sq. KM of the State, 15434 Sq. KM area is forest cover which constitutes 27.72% of total area. An increase of 334 Sq. KM has been recorded in forest cover in the State in FSR 2019 as compared to FSR 2017. In FSR 2017, the total forest cover of the State was recorded as 15100 Sq. KM which as per FSR 2019 has expanded to 15434 Sq. KM after an increase of 334 Sq. KM (2.21%) during a period of two years after 2017. Himachal Pradesh with 334 Sq. KM increase figures among top 5 States showing significant increase in forest cover. In comparison to 14360 Sq. KM forest cover in 2001, the forest cover of the State has

s Sr.	Para/ Page of	Particulars of Recommendations as	Updated Status of Implementation ending March
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			expanded to 15434 Sq. KM in 2019 recording an
			increase of 1074 Sq. KM (7.48%). The State Govt. is
			taking all measures to attain the goal of 33% forest
			cover of total geographical area of the State.
(xix)	Para 3.4.2-A,	HPFD to improve existing database showing	
	(p.25, p.95)	exact extent of area as per legal	and the data base is now being maintained
		classification & allotment of each forest to a	accordingly.
		Working Circle.	
(xx)	Para 3.7,	It was noticed by the monitoring committee	[NOTE: 1987] [1887] [1887] [1887] [1887] [1887] [1887] [1887] [1887] [1887] [1887] [1887] [1887] [1887] [1887]
	(p.42, p.63)	that out of 37 forest divisions, approved	subsidiary silviculture operations are being allowed
		working plans are available for 20 forest	only in Forest Divisions having approved Working
		divisions and for remaining forest divisions,	Plans.
		16 Working Plans are not approved. It was	등에 교육하는 경에 교육을 통해 있는 것이 되었다. 1 : 1 : 그렇게 보고 있는 기를 하는 이 것이 되었다. 그 것이 되었다면 되었다. 그 것이 되었다면 되었다. 그 것이 되었다면 되었다. 그 것이 되었다. 그 것이 되었다. 그 것이 되었다면 되었다. 그 것이 되었다. 그
		decided in principle that SSO will be allowed	[하다] 현실 대통령 기술에 가능하는 것이 되었다. [요요요] [요요요] (요요요요 하는 10.00) [요요요요. 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00
		only in 20 forest divisions having approved working plans.	
(xxi)	Annex.2.8-	Posting of qualified range officers in selected	The qualified Range Officers were posted in selected
	Vol.II, (p.97)	forest ranges of Nurpur, Bharari and Paonta	Forest Ranges of Nurpur, Bharari and Paonta.
		as directed by the Hon'ble Court vide orders	
		dated 30.10.2018 is being done shortly.	
(xxii)	Para 3.7 Vol	SEVENTH RECOMMENDATION: Approval	The Forest Department has started the process of
	<u>I, (P.116)</u>	for uploading Hon'ble Supreme Court	creating a website for silviculture felling. The work has
		monitored experimental silviculture	been assigned to an agency after finalizing the tenders.
		programme on a dedicated website.	The work is in progress.
(xxiii)	<u> Para 3.2.4</u>	A very unusual cadre management system	[2] 등의 경영 및 하는데 이 이 의학자를 맞아 돌아가는 이 보고 있는 그 사람들이 되었다. 그는 사람들이 되었다면 하다면 보다는 사람들이 되었다면 하다면 보다는 사람들이 되었다. 그 사람들이 다른
	VolI (P.85)	has resulted in the present availability of	
		TO THE TOTAL CONTROL OF THE CONTROL	recruitment and 163 by promotion. Out of 133 DR
		strength of 296 Forest Rangers, which	posts, 76 RFOs are in position and 57 posts are



Sr. Para/ Page of	Particulars of Recommendations as	Updated Status of Implementation ending March
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	obviously had diluted the much-required professional ability to manage a Forest Range competently. Immediate action is called for to expedite all formalities for selection and trg. of directly recruited Forest Rangers.	vacant. against which the matter for filling up of 51 posts has already been taken up with the State Government. Similarly, against 163 promotion quota posts, 138 are in position and 25 are vacant. The process for filling up these vacant posts, including the posts likely to fall vacant during 2021, has also been initiated.
(p. 92)	planned without recklessly destroying green cover of Himachal Pradesh. We need to save our natural resources, at all costs for our next generations."	The State of Himachal Pradesh is store house of biodiversity in the country. The State Government has taken various initiatives to increase its green cover and ensure environmental conservation. The efforts of State Government have helped in steady rise in the green cover of the State. According to the India State of Forest Survey Report (FSR) 2019 issued by Forest Survey of India, out of total geographical area of 55673 Sq. KM of the State, 15434 Sq. KM area is forest cover which constitutes 27.72% of total area. An increase of 334 Sq. KM has been recorded in forest cover in the State in FSR 2019 as compared to FSR 2017. In FSR 2017, the total forest cover of the State was recorded as 15100 Sq. KM which as per FSR 2019 has expanded to 15434 Sq. KM after an increase of 334 Sq. KM (2.21%) during a period of two years after 2017. Himachal Pradesh with 334 Sq. KM increase figures among top 5 States showing significant increase in forest cover. In comparison to 14360 Sq. KM forest cover in 2001, the forest cover of the State has



Sr.	Para/ Page of	Particulars of Recommendations as	Updated Status of Implementation ending March
No.	Report	appeared in Supreme Court Order dated	2021
		15.04.2019	
			increase of 1074 Sq. KM (7.48%). The State Govt. is
]		•	taking all measures to attain the goal of 33% forest
			cover of total geographical area of the State.





2. 3rd Six Monthly Report of Monitoring Committee - Implementation Status of 3 Recommendations Accepted by the Hon'ble Supreme Court of India vide Order dated 29.11.2019 passed in IA No. 3840/2014 in WP (Civil) 202/1995):

Sr.	Para/ Page of	Particulars of Recommendation as appeared in	Updated Status of Implementation
1 1 1 1 1 1 1 1 1	7.00		
(i)	Para 3.3.1 (P.76-77)	Management of Undemarcated Protected Forests: Out of 65 forests approved under Experimental Silviculture Felling Programme, there are 35 Undemarcated Protected Forests in Nurpur Forest Range, where we had found encroachments/ illegal activities in 10 forests during our inspections and videography in March 2019. Certainly all Undemarcated Protected Forests in Nurpur Forest Range, covered under an approved WP and having forest wise Compartment History File need same attention as RF and DPF. Therefore, in order to secure these forests from further illegal occupations, boundary positions as per reference points already given by GIS team should be put on ground by RCC pole embedded in ground atleast 2 feet and spaced suitably in a way that outer	As recommended by the Monitoring Committee, the boundary positions of all the Undemarcated Protected Forests have been put on ground as per reference points given by the GIS Team.
(ii)	Para 3.3.2 (P.77)	boundary / perimeter of the forest can be verified and checked on the ground with reference to area figures of each forest. Mid Term Revision of Working Plans: The Monitoring Committee has experienced during the approval of Silviculture Markings in Bharari Forest Range and Nurpur Forest Range that the prescriptions of the approved Working Plans were not matching with the field conditions particularly with actual floristic composition and Periodic Block allotments. Therefore, it is recommended that immediate action may be	Division is 2012-13 to 2027-28. Therefore, CCF Bilaspur has been directed to undertake midterm revision of this Working Plan. However, the Working Plan of Nurpur Division, having period from 2012-13 to 2021-22, is going to expire during 2021-22



Sr. No.	Para/ Page of Report	Particulars of Recommendation as appeared in Supreme Court Order dated 29.11.2019	Updated Status of Implementation
		taken to carry out Mid-term revision of these two Working Plans.	prepare and submit PWPR of this division. The same has been prepared and submitted to CCF (Working Plans & Settlement), Mandi.
(iii)		implementing agencies at various levels have to ensure speedy and effective implementation of all	enabling conditions for regeneration in experimental silviculture felling areas have been complied with. These include: (i) Securing the boundaries
		In the above context, the Monitoring Committee will be able to summarize the overall status of compliance of	
		all Recommendations in the Fourth Six Monthly Report after incorporating the final orders of Hon'ble Supreme Court on 13 Recommendations of the	

Sr. No.	Para/ Page of Report	Particulars of Recommendation as appeared in Supreme Court Order dated 29.11.2019	Updated Status of Implementation
		Second Six Monthly Report, which are still pending for approval.	**
		and for construction/repair work of the boundary	up during 2019-20 has been completed. Fencing of areas taken up during 2020-21



ANNEXURE 3.2

TIME TABLE FOR IMPLEMENTATION OF SILVICULTURE FELLINGS AND RELATIVE INTERVENTIONS

ERADICATION OF WEEDS IN FORESTS INFESTED WITH LANTANA AND OTHER OBNOXIOUS WEEDS COMPARTMENT WISE BASIC TECHNICAL DATA IN RELATION TO APPROVED WORKING PLAN AND COMPARTMENT HISTORY FILE TO BE CHECKED BY DFO AS PER APPROVED FORMAT IN ANNEXURE 2.2, PAGES 82-84 OF THIRD SIX MONTHLY REPORT OF 30 AUGUST 2019.) AND TO BE APPROVED BY CF VALIDATION AND APPROVAL IN PRINCIPLE TO TAKE UP THE FOREST FOR SILVICULTURE FELLINGS BY CCE/APCCE- APPROVAL FOR DEVIATIONS.	NTATION
PRECEDING YEAR OF FELLING PREPARATION AND SUBMISSION OF COST ESTIMATES FOR PRE FELLING, FELLING AND POST FELLING OPERATIONS OF FENCING AND PLANTING ERADICATION OF WEEDS IN FORESTS INFESTED WITH LANTANA AND OTHER OBNOXIOUS WEEDS COMPARTMENT WISE BASIC TECHNICAL DATA IN RELATION TO APPROVED WORKING PLAN AND COMPARTMENT HISTORY FILE TO BE CHECKED BY DFO AS PER APPROVED FORMAT IN ANNEXURE 2.2, PAGES 82-84 OF THIRD SIX MONTHLY REPORT OF 30 AUGUST 2019.) AND TO BE APPROVED BY CF VALIDATION AND APPROVAL IN PRINCIPLE TO TAKE UP THE FOREST FOR SILVICULTURE FELLINGS BY	N
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82-84 OF THIRD SIX MONTHLY REPORT OF 30 AUGUST 2019.) AND TO BE APPROVED BY CF VALIDATION AND APPROVAL IN PRINCIPLE TO TAKE UP THE FOREST FOR SILVICULTURE FELLINGS BY	
THE FOREST FOR SILVICULTURE FELLINGS BY	MBEK
FROM WORKING PLAN PRESCRIPTION TO BE SOUGHT FROM PCCF (WP)	MBER
VALIDATION OF AREAS AND BOUNDARIES BY GIS CELL JANU	ARY



ANNEXURE 3.2

ACTIVITY/INTERVENTION	IMPLEMENTATION TIME
OPERATIONS IN THE YEAR OF FELLI	NG
100% ENUMERATIONS FOR ANALYSING FLORISTIC COMPOSITION OF EACH FOREST AS PER APPROVED GUIDELINES IN ANNEXURE 2.3, PAGES 57-62 OF FIRST SIX MONTHLY REPORT OF 15 AUGUST 2019.)	APRIL-MAY
SILVICULTURAL MARKINGS WHICH MUST INCLUDE MARKINGS/REMOVALS FOR FIRE LINES AS PER APPROVED GUIDELINES IN ANNEXURE 2.4, PAGES 63-69 OF FIRST SIX MONTHLY REPORT OF 15 AUGUST 2019.)	JUNE-JULY
APPROVALS OF SILVICULTURAL MARKINGS BY CONSERVATORS AFTER FIELD INSPECTIONS	1 - 15 SEPTEMBER
MUST HAND OVER LOTS TO HPSFDC LTD	BY 15 SEPTEMBER
COMPLETION OF FELLING AND EXTRACTION OPERTAION	31 MARCH
PROCUREMENT OF BARBED WIRE AND RCC FENCE	MARCH

ANNEXURE 3.2

ACTIVITY/INTERVENTION	IMPLEMENTATION
	TIME
POST FELLING OPERATIONS IN TH	
SUCCEEDING YEAR FOR ENSURING REGEN	ERATION
ERECTION OF RCC POLE 5 STRAND BARBED WIRE	
FENCING AS PER THE LATEST APPROVED COST	
NORMS FOR THE APPROVED FORESTS TO BE	MAY-HINE
CERTIFIED BY CONSERVATOR	
PLANTING OF ONLY TALL PLANTS TO	
AUGMENT/SUPPLEMENT NATURAL/COPPICE	FIRST FORTNIGHT
REGENERATION	OF JULY
REGENERATION ASSESSMENT SURVEYS TO ASSESS	
ACTUAL STATUS OF REGENERATION - NATURAL/	
COPPICE/ ARTIFICIAL REGENERATIONS TO BE CARRIED	
OUT IN FENCED FORESTS TWICE A YEAR IN APRIL AND	
OCTOBER AS PER APPROVED GUIDELINES AND	
METHODOLOGY OF ASSESSMENT OF REGENERATION	NOVEMBER
IN ANNEXURE 2.9 PAGES 118-127 OF THIRD SIX	
MONTHLY REPORT OF 30 AUGUST 2019.)	
CHECKING ONSITE COMPLIANCE OF APPROVED	
INTERVENTIONS FOR ENSURING REGENERATION BY CCF/APCCF AS PER APPROVED FORMAT IN	,
TO TOTAL TIME	15TH NOVEMBER
ANNEXURE 2.2 A, PAGE 84 OF THIRD SIX MONTHLY	TO 15TH
REPORT OF 30 AUGUST 2019.).	DECEMBER
MAINTENANCE TO BE CARRIED OUT ANNUALLY TILL	
REGENERATION IS FULLY ESTABLISHED.	

ANNEXUKE-K-5 (colly.)

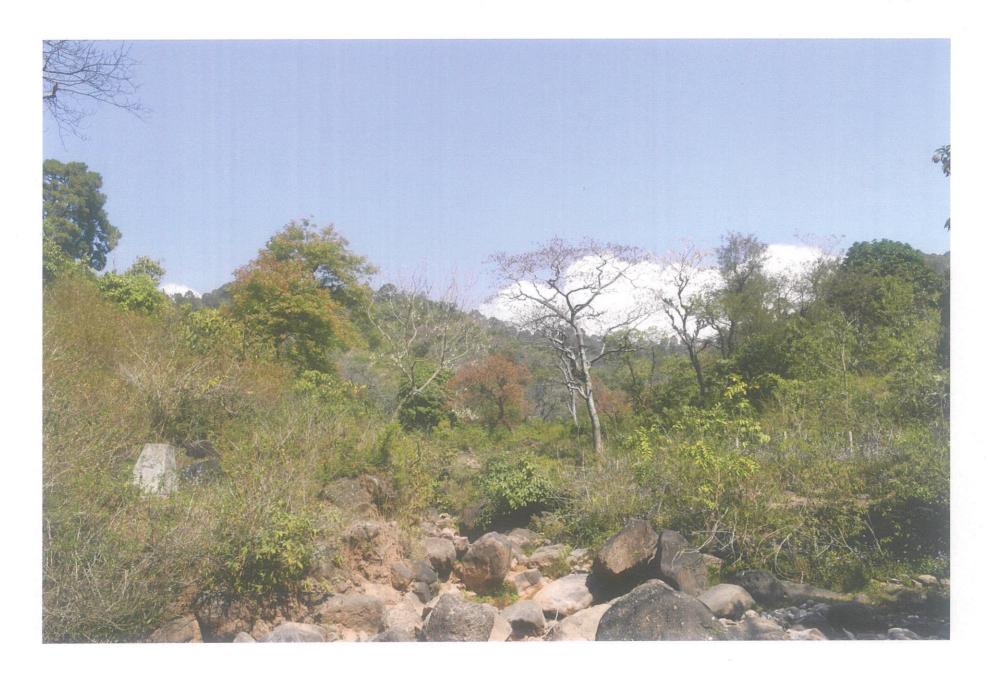
FOREST UNDER SILVICULTURAL FELLINGS



FOREST UNDER SILVICULTURAL FELLINGS



FOREST UNDER SILVICULTURAL FELLINGS



BARBED WIRE FENCE





KHAIR - MOTHER TREES RETAINED (SEED BEARERS)





NATURAL REGENERATION OF KHAIR





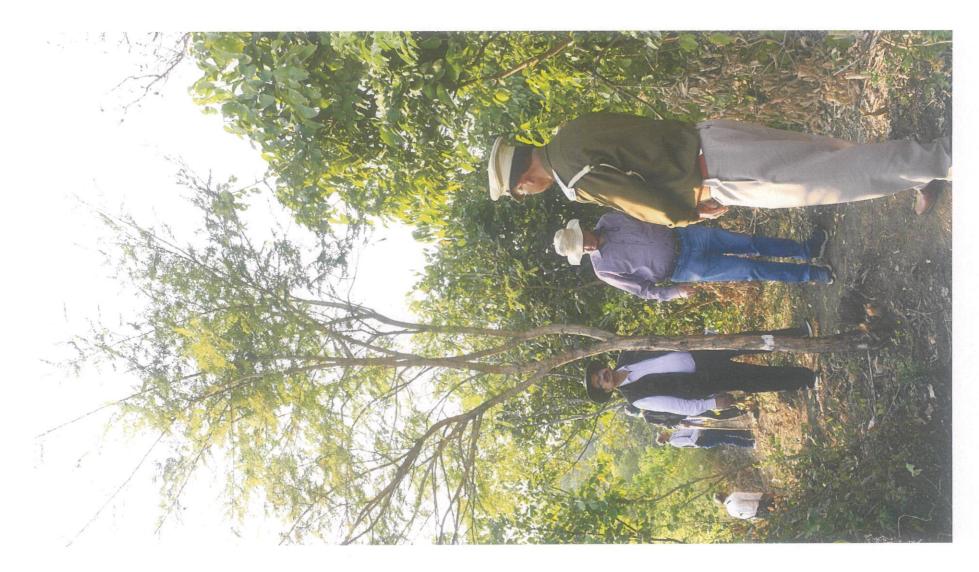
KHAIR COPPICE REGENERATION





COPPICE REGENERATION





PLANTING OF TALL PLANTS - NURSERY



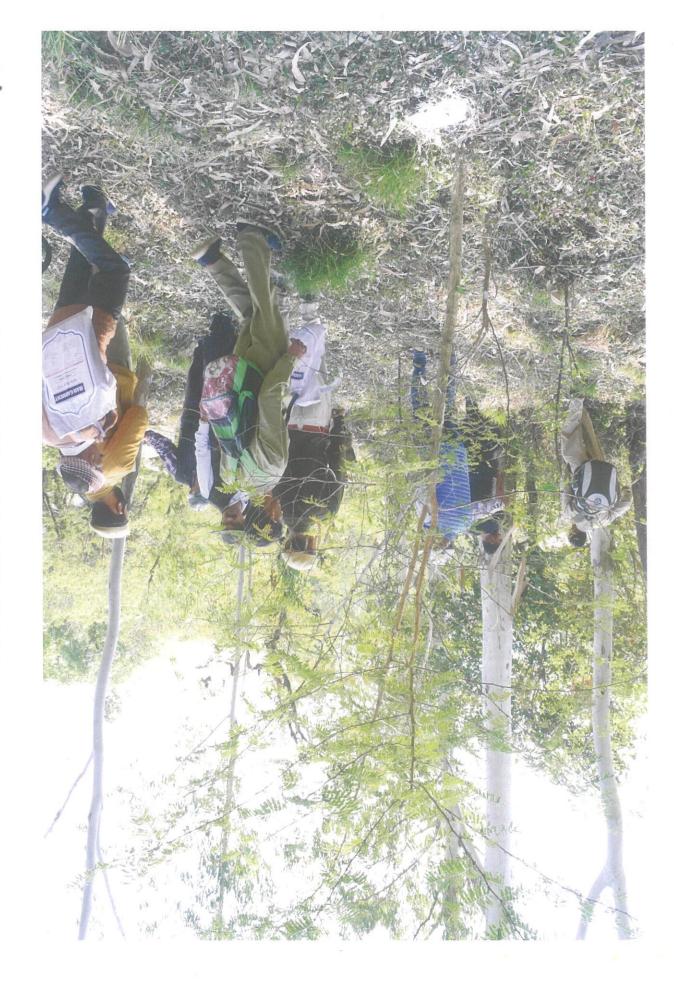




TALL PLANTS NURSERY





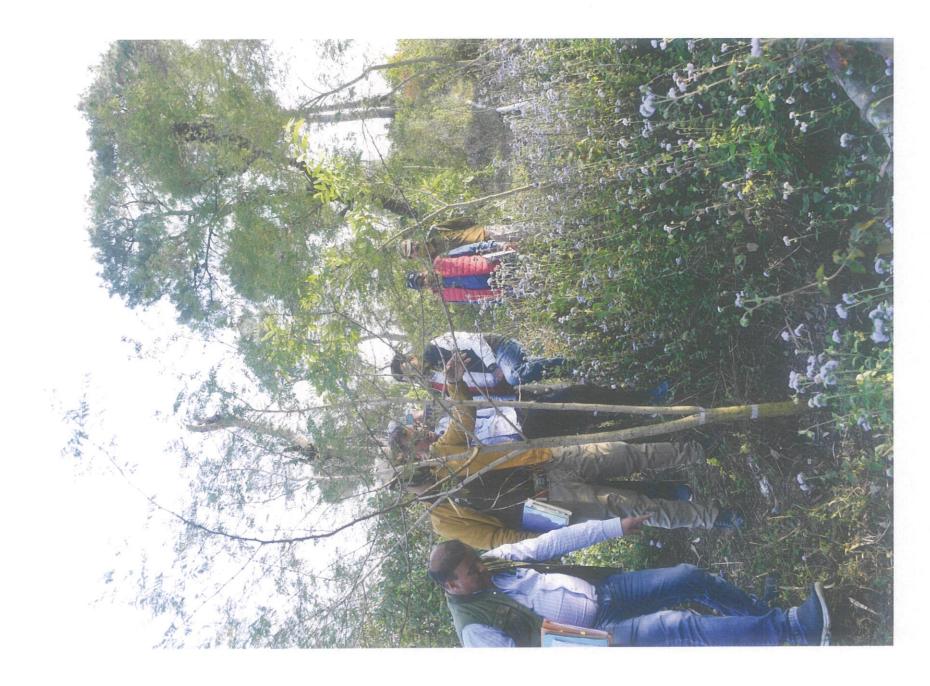








147











150

ARTIFICIAL REGENERATION IN ENCROACHED AREA



ENCROACHED AREA PLANTED WITH MANGO







The report of D.R. Kaushal, IFS CCFDharamshala (T) as desired by Hon'ble Central Empowered Committee

Background

The CEC visited the Nurpur Forest Range of Nurpur Forest Division to inspect the Silviculture felling in regeneration plots of khair with effect from 7th March to 9th March 2023 in Himachal Pradesh. After this visit of Hon'ble CEC, directions have been issued to The Principal Chief Conservator of Forest, HP vide their letter No. F.No:-1-26/CEC/Sc/2023-Pt.68 dated 09/03/2023 with a copy to the CCF(T)Dharamshalaas under:-

"CCF(T)Dharamshala was requested to verify the works carried out in all the compartments of Kopra and furnish the details of the verifications made including photographs showing the actual status of regeneration and existence/absence of lantana in these compartments. Video recording of the area using drone Camera is also being made available to CEC within the next three days."

Action taken

In compliance to the directions of the CEC, the CCF Dharamshala, started the fieldvisits of Kopra forest on 10/03/2023 to verify the works carried out in all the compartments.

Inspection Team

The team annexed as annexure A was constituted by the CCF(T)Dharamshalato verify the works.

The Compartments approved for experimental silvicultural felling in Kopra Forest The following compartments were approved for Silviculture Regeneration felling in Kopraforest:

Sr. No.	N- Code	Name of Compartment	Area	Approved Works				
	The state of the s		r r r r r r r r r r r r r r r r r r r	Lantana management	Fencing	Marking Felling	Plantation	
1	N-32	UP 16 Kopra C-11	42.89 Ha	Yes	Yes	Yes	Yes	
2	N-40	UP 16 Kopra C-9	32.78 Ha	Yes	Yes	Yes	Yes	
3	N-41	P35 N Kopra C-1	10.52 Ha	Yes	No	No	No	
4	N-42	P35 N Kopra C-2	9.31 Ha	Yes	No	Yes	No	

The works verified during inspection

The details of works verified on spot after field visits of above four listed approved compartments of Kopra forest are given as below:-

1. N 32 UP 16 Kopra C-11

This regeneration plot has been visited by Hon'ble CEC on dated 08/03/2023 and the lantana was found around the sign board of the compartment by the Hon'ble CEC. This was the reason that the Kopra forest was asked to berevisited& inspect to find out the factual position of work done vis a vis assessment of regeneration.

Therefore, the total area of this regeneration plot was revisited by the above teamondated 10/03/2023. The drone videography and photography was also done simultaneously toassess the following work done in these compartments. The status of works item wise executed in this compartment is given as below:

A. Lantana

As per the assessment of lantana infestation done in the year 2018-19, this compartment was having 100% lantana infestation. During the visit of team on dated 10.03.2023,lantana was found near the board of the regeneration plot, as the team moved further and visited the whole compartment, there was foundlantana infestation of about 25-30% at the time of inspection. The drone photos and videos have been recorded on spot. To verify the fact whether the lantana management was done in the first year in the year 2018-19 or not, the record of videography done in the year 2018-19 by the monitoring committee was consulted. It has been found out that the monitoring committee hasvisited all the four regeneration plots of Kopra forest and the statements recorded in the videossaying that the lantana was cleared in the year 2018-19.

The videos of 2018-19 of the monitoring committee and present drone video graphs and photos taken by the team on 10.03.23 are also being sentseperatelyin pen drive though special messenger.

After the clearing of lantana in the first year during 2018-19, which seemed not having been done properly by CRS method over the whole of the compartment. It was mandatory for the field staff to clear the upcoming lantana after 2018-19 to maintain this area lantana free in the successive years by maintenance works. It has been found thatthe first year and second year maintenance of lantana works were not done by the field staff, which hasresulted to the present status of lantanainfestation in this regeneration plot to the proportion of 25-30% in whole compartment. Now, the lantana management work in this compartment has been startedw.e.f. 09-03-2023 and will be completed within 15 days. The separate necessary action of fixing responsibility of field staff for not carrying out the lantana maintenance works properly, is being taken up by the department in a time bound manner.

B. Fencing

The fencing work has been done properly to make the area cattle proof.

C. Khair Felling

The khair felling has been done successfully in this compartment.

D. Planting

The planting of indigenous multiple broad leaved species has been done in this compartment.

2. N-40 UP 16 Kopra C-9

The works executed in this compartment are listed activity wise as under:

A. Lantana

The lantana management has been done successfully in this compartment and at present, the compartment is free of lantana.

B. Fencing

The area has been fenced but the barbed wire fencing was found missing in the eastern part of the compartment to the extent of approximately 40-50 m. The DFO Nurpur has been directed to make corrective measures to make the fencing cattle proof within 7 days.

C. Khair Felling

The khair felling has been done after the silviculture markings were complete.

D. Planting

The planting of indigenous multiple broad leaved species has been done in this compartment.

3. N41 P35 N Kopra C-1

The works executed in this compartment are listed activity wise as under:

A. Lantana

The lantana management has been done successfully in this compartment and at present, the compartment is free of lantana.

B. Fencing

In this compartment, the fencing works were not done for closure of the area because this compartment has good proportion of mature Chil crop and no plantation is required. Whenever the felling of chir pine trees will be undertaken, if allowed in future, the fencing operations, as required will be done in this area.

C. Khair Felling

No khairtrees were available for felling in this compartment after 100 % enumeration of trees.

D. Planting

There is no scope of plantation in this compartment due to good proportion of chil trees spread over the entire area, hence plantation activities were not undertaken.

4. N42P35 N Kopra C-2

A. Fencing

In this compartment, the fencing works were not done for closure of the area because this compartment has good proportion of mature Chil crop and no plantation is required. Whenever the felling of chir pine trees will beundertaken, if allowed in future, the fencing operations, as required will be done in this area.

B. Khair Felling

No khair trees were available for felling in this compartment after 100 % enumeration of trees.

C. Planting

There is no scope of plantation in this compartment due to good proportion of chil trees spread over the entire area; hence plantation activities were not undertaken.

Regeneration status

The fresh regeneration survey of all the compartments have been conductedw.e.f 9th March to 11th march 2023, the result of assessment is given as the below:-

Plot Code No.	Name of area	No. of trees fell green		No of stumps having coppice	% of stumps having coppice	Total No. of tall plants planted	Survival %	Status of natural regeneration (%)
N-32	UP16 Kopra C-	392	433	269	68.62%	8578	45 %	2.0%
N-40	UP16 Kopra C- 9	148	20	125	84.45%	3056	38 %	1.7 %
N-41	P-35 Kopra C-1	NA	NA	NA	NA	NA	NA	NA
N-42	P-35 Kopra C-2	11	1	8	72:72%	NA	NA	0.50%

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The plantation survival in N 32 UP-Kopra C-11 and in N 40 UP Kopra C -9 is low due to the fact that fencing was missing in N 40 in a streach of about 40 to 50 mtrs resulting into the grazing pressure. In N 32 UP Kopra C-11 the plantation survival is effected due to the lantana presence.

Conclusion

- 1. There is less survival percentage of plantation in N32 UP16 Kopra C-11 due to the presence of lantana. The department has initiated efforts to make the area lantana free within 15 days.
- 2. In N40 UP16 Kopra C-9, the survival percentage of plantation is also low due to the reason that the fence was missing in a stretch of about 40-50 m due to which the plantation got exposed to stray cattle. The department has initiated corrective measures wrt the fencing work to make it cattle proof.

The compliance report is submitted accordingly for kind perusal please.

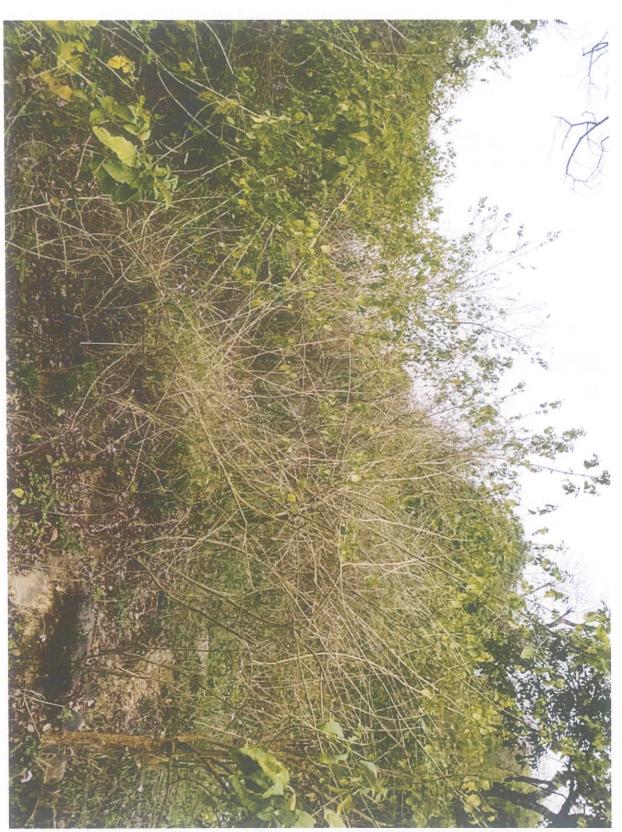
Sincerely yours,

D R Kaushal IFS, Chief Conservator of Forests(T) Dharamshala Forests Circle

Annexure A

Sr. No.	Name	Designation
1.	Dr.Kuldeep Singh Jamwal, HPFS	D.F.O. Nurpur
2.	Sh. Shashi Pal	R.O. Nurpur
3.	Sh. Rajesh Kumar	B.O. Sadwan
4.	Sh. Sunny Kumar	FGD Aund
5.	Sh. Rinku Kumar	FGD Nagrota
6.	Sh. PradhumanBadalia	FGD Talara
7.	Sh. Sanjay Kumar	FGD Chottidhar
8.	Sh. PrinkurBharti	FGD Jounta
9.	Sh. PankajDadwal	FGD Thora

PHOTOS OF LANTANA WEED IN COMPARTMENT NO. C-11, KOPRA



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PHOTOS OF LANTANA WEED IN COMPARTMENT NO. C-11, KOPRA











STATEMENT SHOWING THE 10 FOREST DIVISIONS AND THE CURRENT STATUS OF AVAILABILITY OF APPROVED WORKING PLANS

SI.	Name of	WP	Total	Khair	WC		Yield	Silvicultural system	Remarks
)l.	Division	Period	area of WP	(standa (Area	lone) in	(overlapping) (Area in ha.)	prescribed (M3)	prescribed	
		į	(Ha.)	Ha.)		- TELOPOTEINI	C DE ANG		
				A	<u>PPRO</u>	VED WORKIN	3208 trees per	Selection	This WC overlaps Chil
1.	Una	2012-13 to 2026-	4392.1	-		3270.02	annum	System	WC.
		27				2080.83	276m3	Coppice with	Coppice WC
2.	Hamirpur	2013-14 to 2027-	16534.52	-		2000.03		Standard System	
3.	Bilaspur	28 2012-13 to 2027-	26718.44	-		2650.02	600 trees per annum	Selection System	This WC overlaps Chil WC, Plantation WC and Protection WC.
4.	Nalagarh	28 2012-13 to 2026-	10233.89	-		8588.00	4856 trees per annum	Selection System	This WC overlaps Chil WC and all other WC.
5,	Una	27 2014-15	16796.53	-		8788.60	7900 trees per	Selection System	This WC overlaps Chil WC, Bamboo WC and
	(Kutlehar)	to 2028-		}	~				Scrub WC
					EXPL	RED WORKIN	G PLANS	Coppice with	This WC consists of
1.	Nahan	1998-99 to 2012- 13	31407.21	F**		958.29	210 ha.	Standard System	Khair species and other miscellaneous broad leaved and scrub.
2.	Paonta Sahib	1998-99	28792.68	-		706.31	210 ha.	Coppice with	Khair species and other
		to 2012- 13	-				System	miscellaneous broad leaved and scrub. This WC overlaps Chi	
3.	Dharamshala	2012-13 to 2021- 22	61061.56	-		29907.05	per annum	Selection System	WC, Coppice WC Plantation WC an Protection WC.

Annexule les

4.	Nurpur	2012-13 to 2021- 22	53177.81	-	48176.21	12285 trees per annum	System	This WC overlaps Chil WC and all Other WC except Coppice WC
5.	Dehra	2012-13 to 2021- 22	30108.89	-	24955.73	2100 trees per annum	Selection System	This WC overlaps Chil WC, Bamboo-cum-Rehabilitation WC and Plantation WC

Pr.Chief Conservator of Forests (HoFF) Himachal Pradesh, Shimla-171 001