No.Ft.48-66/2016 (FCA) H.P. Forest Department.

Dated Shimla-1, the

Pr. CCF(HoFF), H.P. Shimla-1.

To: All CCFs/CFs (T) & (WL)

Subject:

Compensatory Afforestation under Forest Conservation Act, 1980 in

prpoposals involving less than 1 ha. diversion of Forest Land.

Memo:

This is in continuation to this office letter even no. dated 09-12-2016 on the subject cited above.

- Please find enclosed herewith Compensatory Plantation Scheme along with 2. Cost Models (both for Strip Plantation and Block Plantation mentioned in the scheme) duly approved by the Competent authority, to be applied on the proposals involving Forest land less than 1 ha under FCA, 1980.
- The scheme shall be applicable on the proposals under process under FCA, 1980 where Forest Land for diversion upto 1 ha is involved, CA is required to be raised and so far "In-Principle" approval is not accorded by the Competent authority and also in case of the fresh proposals under preparation.
- This may please be brought into the notice of all the DFOs under your control to 4. act as per approved Scheme and also to enclose the annexures mentioned in the scheme alongwith the proposals.
- 5. Further it may be ensured that the NPV, Charges of Compensatory levies and contingent charges shall be deposited by the User agency, in ad-hoc CAMPA Fund through e-challan. The Departmental Charges should be shown separately in the estimates of the plantation scheme. The Departmental charges and Cost of trees shall be deposited in the District treasury as per existing practice by the user agency.

This is for your kind information and necessary action.

Encl: a.a.

Nodal Officer-cum- CCF (FCA) O/o Pr. CCF(HoFF), H.P. Shimla-1.

COMPENSATORY PLANTATION SCHEME, IN CASE OF DIVERSION OF LAND UPTO 1 Ha UNDER FCA,1980

- Compensatory Afforestation: Compensatory Afforestation is one of the most important conditions stipulated by the Central Government while approving proposals for diversion of forest land for non-forest uses. It is essential that in all such proposals, a comprehensive scheme for compensatory Plantation is formulated and submitted to the Central Government.
- 2. Compensatory Afforestation in diversion cases of less than 1 Ha: Clause 3.2 (viii) of chapter 3 on "Compensatory Afforestation", of "Handbook of Forest (Conservation) Act, 1980 (With Amendments made in 1988) and Forest (Conservation) Rules, 2003 (With Amendments made in 2004) Guidelines & Clarifications" by Govt. of India, MoEF provide that "No Compensatory Afforestation shall be insisted upon in respect of (b) Proposals involving diversion of forest land upto one hectare. (However, in such cases, plantation of ten times the number of trees likely to be felled will have to be carried out by way of compensatory afforestation or any number of trees specified in the order)"
- 3. SITE SPECIFIC COMPENSATORY PLANTATION SCHEME: Keeping in view the above clause, all cases of diversion of forest land under FCA; 1980 involving Forest land up to 1 Ha, in which so far, 'In-Principal' approval has not been accorded by Govt. of India/GoHP and the fresh cases to be submitted henceforth, shall follow this scheme which shall be called "Site Specific Compensatory Plantation Scheme".

3.1 SALIENT FEATURES OF THE SCHEME:

- (i) In every such case, involving Forest land diversion upto 1 Ha, Compensatory Planting of 100 trees or Ten times the number of trees to be felled, whichever is more shall be carried out.
- (ii) The planting under this scheme shall be done as Block Plantation (Planting to be done in a block identified duly fenced in the Degraded Forest Land) or Strip Plantation (along the sides of old or newly created roads, where planting with tree guards can be done). The Block Plantation shall be carried out with a 40% mix of fruit trees.
- (iii) Plantation to be done against each proposal in terms of number of plants and not in terms of area.

- (iv) Plantation of TALL PLANTS only shall be done. For this purpose the DFO concerned shall grow sufficient number of Tall plants of the desired species, in the Departmental Nursery
- (v) Pit size of 90X90X90 cm shall be dug for planting Tall plants.
- (vi) The species planted should be those of forest tree species available in the adjoining area and fruit tree species available in the area.
- (vii) The Site specific estimates at the prevalent rates shall be developed for 5 Ha or more block plantation with 500 tall plants per ha or in Strip plantation on one side of the road @ 200 plants per km and both sides of the road @ 400 plants per km and shall be enclosed as annexure/additional item with each proposal.
- (viii)Based on the cost per plant derived from estimate so developed for, Site Specific Compensatory Plantation (Block or Strip Plantation), the User Agency shall be charged for Planting the specified number of plants.
- (ix) Maintenance of the plantation shall be carried out for 7 years.
- (x) Monitoring of such plantation shall be done by the State Forest Department.
- 3.2 SCHEME OF PLANTATION: In every such case, Compensatory Planting of 100 trees or Ten times the number of trees to be felled, whichever is more, shall be carried out as 'Block Plantation' in the Degraded Forest Land with density between 0-40% or as 'Strip Plantation' along the roads, based on the availability of the planting area near to the forest area proposed for diversion, to be decided by the Divisional Forest Officer.

Nursery grown Tall plants with height more than 1.5 m in case of broad leaved species and minimum three years age at nursery in case of conifer species.... (at the time of planting) shall be planted @ 500 plants per Ha in Block Plantation. (with spacing row to row 5 mtr and plant to plant 4 mtr) This shall help improve the density of the degraded Forest areas (UPF/PF/DPF/RF) on one hand and fulfill the conditions stipulated for diversion of forest land on the other hand.

In case of Strip Plantation, depending upon the availability of space, the tall plants shall be planted along both sides of the road, in two rows in a staggered manner @ 400 plants per km, with row to row distance 5 m and plant to plant distance 10 m, duly guarded by iron tree guards.

X	X	X	X	X	X	X	X	X	X >	X	X		+	ROW 1	
X	X	Y	X	V	X		R	O A	D .	X		E.	(ROW 3	
		^	1	^		X		X	X		X		+	ROW 4	

Figure: Strip Plantation along road; 'X" Denote position of plants with tree guards

- 3.2.1 Area to be selected by DFO: Prior to processing of any such proposal, the DFO concerned, would select a Land Bank with an area of 5 Ha. or more in Degraded (UPF/DPF/RF) forest areas where density is 0-40% in his/her Division. This area shall be fenced with RCC poles and subsequently planted with 500 tall plants per Ha. (with 5x4 mtr spacing). As and when the entire area is nearing completion by way of planting @ 500 tall plants/Ha, another such area shall be selected for prospective proposals, subsequently fencing and planting in the same manner.
- 3.2.2 Comprehensive site specific CA Scheme and estimate to be submitted by DFO on case to case basis: Since depending on the degree of degradation and location of Degraded Forest areas and species to be planted, the Cost estimates are bound to vary, the Site Specific Compensatory Plantation Scheme shall be developed by the DFO which is to be approved technically and administratively by the Conservator/Chief Conservator Concerned, on case to case basis and submitted along with the proposal. On approval of the proposals for diversion of forest land by the competent authority, a specified number of tall plants only, shall be planted, maintaining 500 plants per Ha or 200 plants per km (if planted on one side or road) and 400 plants per km (if planted on both sides of the road). The area may not get fully stocked in one go, however with subsequent planting and more approvals of diversions pouring in, the area may get fully stocked.

The Site Specific Compensatory Plantation Scheme shall be submitted by the DFO alongwith all the proposals as an annexure including the following:-

- (i) The name of the Forest with area of the Land Bank identified for Block Plantation alongwith coordinates at all the corners or OR in case of Strip Plantation proposed, name of the Road with Km along which Strip Plantation is proposed alongwith coordinates along the road at every 50 mtrs, with details as to whether the strip Plantation shall be done on one side of the Road or both sides of the road.
- (ii) Copy of the Survey of India Topo-sheet on the 1:50,000 scale with the area for proposed plantation duly marked on the topo-sheet

- (iii) the Suitability Certificate for raising Compensatory Plantation
- (iv) Estimate/ Total Cost Structure of various operations based on the prevalent rates, Year-wise phased forestry operations, details of species to be planted, Maintenance of the plants for 7 years, and derived cost per plant, as described in 3:2.3 below, duly approved by the CF/CCF concerned.
- (v) The undertaking from the User Agency to pay the cost of Compensatory Plantation as and when demanded, shall be obtained by the DFO and uploaded/enclosed with the proposal for the perusal by the Competent Authority.
- (vi) Also, an undertaking from the User Agency to the effect that the difference in cost due to escalation of rates between the payment made and the actual period of planting, shall be payable by the User Agency at a later date, shall be obtained by the DFO from the User Agency enclosing the same with the proposal.
- 3.2.3 Developing Cost Structure and arriving at Cost per plant to be charged from the User Agency for specified number of plants: Cost per plant to be charged from the User Agency shall be derived from the total cost involved in raising a 5 Ha or more Site Specific Block Plantation, with 500 tall plants per Ha and Strip Plantation @ 400 plants per Km (if on both sides) or 200 plants per km if one side of the road, for strip plantation as described in Section 3.2 above.

The Site specific estimate normally would include cost of fencing the area, raising tall plants and maintenance for 7 years and other details as under:

- (a) Cost of survey
- (b) Clearing the site of weeds
- (c) Cost of RCC Poles and painting
- (d) Cost of carriage of RCC Poles
- (e) Cost of fixing the poles
- (f) Cost of procurement of 4 strand B/wire
- (g) Cost of fixing B/wire
- (h) Cost of Steel Tree guard with two coats of paints, carriage upto site and fixing in concrete.
- (i) Pit digging 90x90x90 cm
- (j) Cost of Tail plants raised in Departmental Nurseries
- (k) Cost of Carriage of plants with earth ball in bags to the planting site
- (I) Addition of fertilizer to planting pits
- (m) Planting and Pit filling including soil from the nearby borrow pits
- (n) De-weeding and hoeing twice a year
- (o) Watering the plants during months of stress

- (p) Plantation Display Board [depicting the Name of the Compensatory Plantation, Total area of plantation, Total number of Plants, Species planted and the Name of all the Proposals with corresponding number of plants planted against each, for which the land was diverted]
- (q) Post planting care and Maintenance cost up to 7 years
- (r) Contingency 5% of all above
- (s) Departmental Charges 17.5% of all above (Departmental charges, shall be Payable in Distt. Treasury)
- 3.2.3.1 The COST ESTIMATE shall be developed as per cost model approved by PrCCF (HoFF), H.P. (Copy enclosed). The rates, prevalent at the time of preparing the estimate shall be applied, however the difference in cost due to escalation of rates between the payment made and the actual period of planting, shall be recoverable from the User Agency at a later date. An undertaking to this effect shall be obtained by the DFO from the User Agency enclosing the same with the proposal. The items not covered in the above said models may be drawn from the Rate Contract / Rates approved by the Forest Department/ Schedule of Rates applicable in the said Division/Circle.
- Plantation Scheme" shall be funded by the User Agency and the User Agency (UA) shall not be insisted to provide land for Compensatory Plantation in cases covered under this scheme. For arriving at cost per plant the estimate for Strip Planting @200 plants/Km (when planted on one side) and @400 plants/km (when planted on both sides) AND for Block Plantation 500 plants per ha, shall be developed for the intended site of plantation, which shall be duly approved by the concerned territorial Conservator/Chief Conservator of Forests. Charges for raising a specified number of tall plants, on the basis of rate per plant derived from the cost structure of the site specific plantation model duly approved by the CF/CCF, shall be charged from the User Agency.
- 4.1.1 <u>DEPOSIT OF NPV, CA ETC BY UA</u>: The DFO shall raise the bill, for specified number of plants to be raised against the CA as per the "Site Specific Compensatory Plantation Scheme" estimate approved by the concerned CF/CCF for raising the Block Plantation or Strip Plantation (as the case may be).

After obtaining the 'in-principle' approval, the User agency shall deposit the required amount into ad-hoc CAMPA fund, as and when directed to do so. The manner of depositing the amount 'on-line' through e-challan by the user agency, shall be the same as in case of the proposals for diversion involving forest land more than 1 Ha. Funds like NPV, CA, Penal CA and Contingency charges-shall continue to be deposited

in the ad-hoc CAMPA fund and Cost of trees and Departmental Charges shall be deposited in the District Treasury, as per existing practice.

- PLANTING AND MONITORING: In the subsequent period, such Compensatory Plantations shall be raised on the pattern of other CA plantations raised from CAMPA Funds, getting funds against the approved APOs on year to year basis. The monitoring of plantations so raised shall be the responsibility of the H.P. State Forest Department. It should be ensured that the Nursery plants more than 1.5 m tall are planted. It should also be ensured that the advance works i.e. site survey, site clearance, Fencing and Pit digging is done much before the rainfall and weathering of soil takes place and the planting is done during the rainy season. If need be, the soil from nearby borrow pits, mixed with FYM may be used to fill the pits during planting.
- PLANTING: Plants of the indigenous species conforming to the species in the neighbouring areas with local fruit trees in a mix of 40% should be planted. Once the substantial numbers of plants are required to be planted out of the approvals accorded by the Competent authority, the DFO shall submit the APO in routine under CAMPA funds for raising Compensatory Plantation under the scheme. The planting shall be done as per approved Compensatory Plantation scheme without any deviation. Any deviation carried out must be got approved from the CF/CCF concerned under intimation to the Nodal Officer (FCA), H.P.
- MONITORING: The concerned DFOs shall maintain record in their office with details of the location, Map of plantation area showing coordinates at every corner and turning of the plantation block and at every 50 mtrs along the road in case of Strip Plantation, the species with number of tall plants planted, Name of Nursery for rearing Tall plants, total cost incurred against every such proposals approved (involving forest land diversion area upto 1 Ha) so that at a later date the status of plantations can be monitored.
- 5.1.2 PHOTOGRAPHS OF THE AREA: The photographs of the area before and after the plantation shall be forwarded to the Nodal Officer once the plantation is carried out.
- 5.1.3 INSPECTION AND VERIFICATION BY CF/CCF: For all compensatory Plantations so raised, the CCFs/CFs concerned shall inspect within a month from the date of planting and physically verify the plants so planted and submit a certificate to this effect to the Nodal Officer (FCA), for record.

Office of HP State Compensatory Afforestation Fund Management & Planning Authority (HP State CAMPA), Aranya-Bhawan, Talland, Shimla - 171 001.

Cost Model for 1 Ha Block Plantation with 500 Tall Plants per Ha
4 strand B/wire fencing with RCC Fence Posts and maintenance for 7 years
(based on a 5 Ha compact site of plantation)

Sr. No	Particulars of Works	Unit	Quantity	Rate per Unit at the wage rate of 200/-	Norm at the wage rate of 200/- for Non-	Norm at the wage rate of 250/- for
Α	SURVEY, DEMARCATION & FENCING:-				Tribal areas	Tribal areas
1	Survey/demarcation of plantation area i/c marking of					
2	reest of Nec Poles and painting	На	1	134.66	134.66	160.22
3	Cost of carriage of RCC Poles unto 3 kms and 111/1	No	60	300.00	201100	168.33
4	Preparation/Digging of holes of 20x30x50 cm size for fixing of fence	No	60	44.67	2679.93	18000.00
5	Fixing of RCC fence posts in account of the size for fixing of fence	No.	60	12.08	724.78	3349.92
6	Fixing of RCC fence posts in concrete i/c strutting	No	60			905.98
	Carriage of B/wire from store to nearest road head near plantation site	Qntl	0.9	9.55	572.79	715.98
7	Line of transport laverage Carriage 10 lime		0.5	LS	500.00	500.00
1	Carriage of b/wire manually over a distance of 2 Kms uphill/downhill from road side to plantation site	Per Km	0.9	98.20	176.76	220.94
8	Stretching and fixing of b/wire in four strands	per qntl				
3	interfacing of thorny bushes along the fence	Rmt	720	6.40	4607.88	5759.86
10	Cost of procurement of B/wire	Rmt	180	5.45	981.58	1226.97
		Qntl	0.9	6930.00	6237.00	6237.00
	Total -A/Survey, Dema	rcation & F	encing:		34615.38	37084.97
	PLANTING:- Or Say			,	34600.00	37100.00
1	Clearing the site of weeds/Bush cutting in strips of 1 to 2 mtr wide				3.000.00	37100.00
2	Digging of pits 90x90x90 cm	На	1	1590.36	1590.36	1987.95
3	illing of Pits 90x90x90 cms	No	500	83.17	41585.63	
4	Carriage of poly plants from nursery to nearest road head near	No	500	7.08	3539.91	51982.03
Ir	plantation site in motor transport (average distance 10 Kms)	No	500	LS	7500.00	4424.89
5	Carriage of plants in Poly bags (18"x24") from road side to plantation				7300.00	7500.00
S	ite over a distance of 2 Kms uphill/downhill manually	No	500	30.00	15000.00	10777
6 A	ddition of fortiliar (5) to the ddition of fortiliar (5) to th			50.00	15000.00	18.750.00
7 P	ddition of fertilizer/FYM to planting pits	No	500	1.0		
8 C	lanting of tall plants in pits i/c ramming	No	500	LS	5000.00	6250.00
9 0	onstruction of Inspection Path 60 cm wide	Rmt	100	8.72	4359.89	5449.86
1	ost of Tall plants raised in Departmental Nurseries(3 year old in 8"x24" bags)	No	500	14.67	1466.63	1833.29
	5 AZ4 Dags)		300	75.00	37500.00	46875.00
1 W	e-weeding and hoeing twice a year	No	500	10.01		
T VV	atering the plants during months of stress	No		10.91	10906.39	13632.99
		140	500	LS	4000.00	5000.00



Sr. No.		Unit	Quantity	Rate per Unit at the wage rate of 200/-	Norm at the wage rate of 200/- for Non- Tribal areas	Norm at the wage rate of 250/- for Tribal areas
12	Plantation Display Board [depicting the Name of the Compensatory Plantation, Total area of plantation, Total number of Plants, Species planted and the Name of all the Proposals with corresponding number of plants planted against each, for which the land was diverted]	No	1	LS	1000.00	
	Total	-B/Planting	:		133448.81	164686.0
	Or Sa		,		133440.00	
1	Total Fencing and Planting (A+E				168000.00	164700.0
C.	MAINTENANCE	,			108000.00	201800.0
	Ist year maintenance (10% beating up of failures)					0 2 2
1	Re-Digging of pits 90x90x90 cm	No	50			5
2	Filling of Pits 90x90x90 cms	No	50	49.89	2494.60	3118.2
3	Carriage of poly plants from nursery to nearest road head near		50	7.08	353.99	442.4
	plantation site in motor transport (average distance 10 Kms)	No	50	LS	750.00	750.0
4	Carriage of plants in Poly bags (18"x24") from road side to plantation site over a distance of 2 Kms uphill/downhill	No	50	30.00	1500.00	1875.00
5	Planting of tall plants in pits i/c ramming	No	50			
6 .	Cost of Tall plants raised in Departmental Nurseries(3 year old in 18"x24" bags)	No	50 50	8.72 75.00	435.99 3750.00	544.99 4687.50
7	Repair of fencing	Rmt	72	2.40		
	TOTAL Ist Year Maintenance	KIIIL	72	2.40	172.80	215.99
	Or Say	,			9457.38	11634.23
	2nd year maintenance (5% beating up of failures)	/			9500.00	11600.00
1	Re-Digging of pits 90x90x90 cm	No	25			
	Filling of Pits 90x90x90 cms	No No	25	49.89	1247.30	1559.13
63	Carriage of poly plants from nursery to nearest road head near	No	25	7.08	177.00	221.24
	plantation site in motor transport (average distance 10 Kms)	INO	25	LS	350.00	350.00
4	Carriage of plants in Poly bags (18"x24") from road side to plantation	No	25	30.00	.750.00	027.50
	site over a distance of 2 Kms uphill/downhill		23	30.00	.750.00	937.50
5	Planting of tall plants in pits i/c ramming	No	25	8.72	217.99	272.40
	Cost of Tall plants raised in Departmental Nurseries(3 year old in 18"x24" bags)	No	25	75.00	1875.00	272.49 2343.75
	Repair of fencing	Rmt	70			
	TOTAL 2nd Year Maintenance	MIII	72	2.40	172.80	215.99
1-	Or Say				4790.09	5900.11
	Or Say		1		4800.00	5900.00



	Particulars of Works 3rd year maintenance (5% beating up of failures)	Unit	Quantity	Rate per Unit at the wage rate of 200/-	Norm at the wage rate of 200/- for Non- Tribal areas	Norm at the wage rate 250/- for Tribal areas
1	The bigging of pits 90x90x90 cm					
2	Filling of Pits 90x90x90 cms	No	25	49.89	1247.30	1550.4
3	Carriage of poly plants from nurson, to	No	25	7.08	177.00	1559.1
4	Carriage of plants in Poly bags (18"x24") from	No	25	LS	350.00	350.0
5	Planting of tall plants in pits i/c ramssis	No	. 25	30.00	750.00	937.5
6	Cost of Tall plants raised in Departmental Nurseries(3 year old in	No	25	8.72	217.00	4-1.4
	18"x24" bags) Repair of fencing	No	25	75.00	217.99 1875.00	272.4 2343.7
. F	TOTAL 3rd Year Maintenance	Rmt	72	2.40		
	- cur waintenance		12	2.40	172.80	215.9
4	th year maintenance (29) have:	ıv			4790.09	5900.1
1 8	Or Sa Re-Digging of pits 90x90x90 cm				4800.00	5900.0
2 F	illing of Pits 90x90x90 cms	No	15	10.00		
3 0	arriage of poly plants for	No	15	49.89	748.38	935.4
n	arriage of poly plants from nursery to nearest road head near	No	15	7.08	106.20	132.7
4 C	arriage of plants in Poly hags (18"x24") (see 10 Kms)		15	LS	210.00	210.00
		No	15	30.00	450.00	562.50
- 11	anting of tall plants in nits i/c ramming	1.				302.30
0 100	of fall plants raised in Departmental Nurse in /2	No	15	8.72	130.80	163.50
7 Re	epair of fencing	No	15	75.00	1125.00	1406.25
TC	OTAL 4th Year Maintenance	Rmt	72	2.40	172.80	245.44
				2.10		215.99
5t	h year maintenance (3% beating up of failures) Or Say				2943.17	3626.46
1 Re	-Digging of pits 90x90x90 cm				2900.00	3600.00
2 Fill	ing of Pits 90x90x90 cms	No	15	49.89	710.00	
3 Ca	rriage of poly plants from pursons t	No	15		748.38	935.48
pla	rriage of poly plants from nursery to nearest road head near	No	15	7.08	106.20	132.75
4 Car	riage of plants in Poly bags (18"v24") from read in the first transport (average distance 10 Kms)	No		LS	210.00	210.00
Isite	e over a distance of 2 Kms uphill/downhill		15	30.00	450.00	562.50



Sr. No.	Particulars of Works	Unit	Quantity	Rate per Unit at the wage rate of 200/-	Norm at the wage rate of 200/- for Non-	
6	Planting of tall plants in pits i/c ramming	No	-			Tribal areas
6	Cost of Tall plants raised in Departmental Nursorias/2	No	15	8.72	130.80	163.5
-7	10 A24 Dags)	INO	15	75.00	1125.00	1406.2
7	Repair of fencing	Rmt	70			
	TOTAL 5th Year Maintenance	KIIIC	72	2.40	172.80	215.99
	6th year maintenant (2001)	214		4 1	2943.17	3626.46
-	oth year maintenance (2% beating up of failures)	ау			2900.00	3600.00
	Re-Digging of pits 90x90x90 cm	No				
2	Filling of Pits 90x90x90 cms	No	10	49.89	498.92	623.65
3	Carriage of poly plants from nursery to nearest road head near	No	10	7.08	70.80	88.50
	plantation site in motor transport (average distance 10 Kms) Carriage of plants in Poly bags (18"x24") from road side to plantation	No	10	LS	140.00	140.00
-	Planting of tall plants in pits i/c ramming	No	10	30.00	300.00	375.00
6	Cost of Tall plants raised in Depart	No	10	8.72	97.20	400.00
	Cost of Tall plants raised in Departmental Nurseries(3 year old in 18"x24" bags)	No a	10	75.00	87.20 750.00	109.00 937.50
/	Repair of fencing	Rmt	70			12.0
1	OTAL 6th Year Maintenance	MIIIL	72	2.40	172.80	215.99
	Or Sa	,			2019.71	2489.64
1	th year maintenance (2% beating up of failures)	1			2000.00	2500.00
± N	e-Digging of pits 90x90x90 cm	Ne				100
2 F	illing of Pits 90x90x90 cms	No	10	49.89	498.92	623.65
3 C	arriage of poly plants from nursery to nearest road head near	No	10	7.08	70.80	88.50
, IP	lantation site in motor transport (average distance 10 Kms) arriage of plants in Poly bags (18"x24") from road side to plantation	No	10	LS	140.00	140.00
01	te over a distance of 2 kms uphil!/downhill	No	10	30.00	300.00	375.00
6 Cc	anting of tall plants in pits i/c ramming	No	10	0.70		
120	ost of Tall plants raised in Departmental Nurseries(3 year old in 3"x24" bags)	No	10	75.00	87.20 750.00	109.00 937.50
/ KE	epair of fencing	- 1				
TC	OTAL 7th Year Maintenance	Rmt	72	2.40	172.80	215.99
24		1 .	E 1 1 2 1 1 1		2019.71	2489.64
TO	OTAL (C) Maintenance cost for 7 years				2000.00	2500.00
	years		2 42 3 4 4 4		28900.00	35600.00

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Sr. No.	Particulars of Works	Unit	Quantity	Rate per Unit at the wage rate of 200/-		Norm at the wage rate of 250/- for Tribal areas
D	TOTAL NEW + MAINTENANCE D= (A+B+C)	<i>*</i>			196900.00	237400.00
E	Contigency		1			2
1- 9	Contigency 5% of all above				9845.00	11870.00
	TOTAL Contigency (E)				9845.00	
	Total Plantation + Contigency (D+E)				206745.00	249270.00
F	Departmental Charges					
	17.5% of all above				36180.38	43622.25
7	Total departmental Charges (F)		1		36180.38	
	GRAND TOTAL OF SCHEME (D+E+F)				242925.38	
	Or Say				242900.00	292900.00

APPROVED

Pr. C.C.F. (HoFF) Himachal Pradesh

Office of HP State Compensatory Afforestation Fund Management & Planning Authority (HP State CAMPA), Aranya-Bhawan, Talland, Shimla - 171 001.

Cost Model for 1 KM Strip Plantation with 200 Tall Plants per Km With Iron Tree Guards and maintenance for 7 years (Two Rows with a Spacing of 5 mtrs row to row and 10 mtrs plant to plant)

Sr. No	Particulars of Works	Unit	Quantity	Rate per Unit at the wage rate of 200/-	Norm at the wage rate of 200/- for Non-	Norm at the wage rate of 250/- for
Α	SURVEY, DEMARCATION & FENCING:-	1			Tribal areas	Tribal areas
1	Survey/demarcation of plantation area i/c marking of sections					
2	Lay out of pits	Ha	1	134.66	134.66	100.2
3	Cost of Iron Tree Guards	На	1	227.33	227.33	
4	Carriage of Tree Guards from store to nearest road head near plantation	No	200	1000.00	200000.00	284.1
-	site in motor transport (average distance 15 Kms)	per tree guard	200	15.00	3000.00	200000.0 3000.0
6_	Fixing of Tree Guards in concrete including cost of cement etc	No	200		F	
	Total -A/Survey	Demarcati	200	100.00	20000.00	25000.0
D	0-6	, Demarcati	on & rencing:		223361.99	228452.49
В.	r EAN TING:-				223400.00	228500.00
1	Clearing the site of weeds/Bush cutting in strips of 1 to 2 mtr wide					- A-5 II
2	Digging of pits 90x90x90 cm	На	1	1590.36	1590.36	1987.95
3	Filling of Pits 90x90x90 cms	No	200	83.17		
4	Carriage of poly plants from nursery to nearest road head near plantation	No	200	7.08	16634.25	20792.81
	The in motor transport (average distance 15 kms)	No	200	LS	1415.96 3000.00	1769.96 3000.00
5	Addition of fertilizer/FYM to planting pits	No				
6	Planting of tall plants in pits i/c ramming		200	LS	2000.00	2500.00
7	Cost of Tall plants raised in Departmental Nurseries (3 year old in 18"y24"	No	200	8.72	1743.96	2179.95
	Dags)	No	200	75.00	15000.00	18750.00
8	De-weeding and hoeing twice a year	- N				20,50.00
9	Watering the plants during months of stress	No	200	10.91	4362.56	5453.20
10	Plantation Display Board [depicting the Name of the Company of	No	200	LS	1600.00	2000.00
	Plantation, Total area of plantation, Total number of Plants, Species planted and the Name of all the Proposals with corresponding number of plants planted against eatch, for which the land was diverted]	No	1	LS	2500.00	2500.00
	То	tal -B/Plant	ing:		400.57	
	Or Say		3		49847.09	60933.86
	Total Fencing and Planting (A+B)				49800.00	60900.00
					273200.00	289400.00

Sr. Mo.	Particulars of Works	Unit	Quantity	Rate per Unit at the wage rate of 200/-	Norm at the wage rate of 200/- for Non-	Norm at the wage rate of 250/- for
C	MAINTENANCE				Tribal areas	
	Ist year maintenance (10% beating up of failures)			8	Transit areas	Tribal areas
1	Re-Digging of pits 90x90x90 cm					
	Filling of Pits 90x90x90 cms	No	20	49.89	997.84	
	Carriage of poly plants from nursery to nearest road head nea	No	20			1247.3
	plantation site in motor transport (average distance 10 Kms)	r No	20	LS	141.60	177.00
	Planting of tall plants in pits i/c ramming				300.00	300.00
	Cost of Tall plants raised in Day	No	20	8.72		
	Cost of Tall plants raised in Departmental Nurseries(3 year old in 18"x24" bags)	No	20		174.40	217.99
	TOTAL Ist Year Maintenance	8	23	75.00	1500.00	1875.00
- 1	Or Say					
					3113.83	3817.29
	2nd year maintenance (5% beating up of failures)				3100.00	3800.00
- 1	Re-Digging of pits 90x90x90 cm	No	10	10.00		
1	illing of Pits 90x90x90 cms			49.89	498.92	623.65
	Carriage of poly plants from nursery to nearest road head near	No	10	7.08	70.80	88.50
l.	direction site in motor transport (average dist		10	LS	150.00	150.00
1	reming of tall plants in pits I/c ramming	No	10			
C	ost of Tall plants raised in Departmental Nursorice/3		10	8.72	87.20	109.00
-	120 AZ4 Dags)	No	10	75.00	750.00	
T	OTAL 2nd Year Maintenance				750.00	937.50
100			4		1556.92	1000 00
3	or Say				1600.00	1908.65
R	e-Digging of pits 90x90x90 cm	1			1000.00	1900.00
Fi	lling of Pits 90x90x90 cms	No	10	49.89	100.00	
Ca	arriage of poly plants from pursuant	No	10	7.08	498.92	623.65
pl	arriage of poly plants from nursery to nearest road head near	No	10	LS	70.80	88.50
PI	antation site in motor transport (average distance 10 Kms) anting of tall plants in pits i/c ramming			LS	150.00	150.00
CC	ost of Tall plants reject in D	No	10	0.72		
lin	ost of Tall plants raised in Departmental Nurseries(3 year old 18"x24" bags)	No	10	8.72	87.20	109.00
	10 AZ4 Dags)		10	75.00	750.00	937.50
	TAL 3rd Year Maintenance				327 .	47.
141	Or Say				1556.92	1908.65
911	year maintenance (3% beating up of failures)				1600.00	1900.00
Re	Digging of pits 90x90x90 cm	No				
FIII	ing of Pits 90x90x90 cms		6	49.89	299.35	374.19
Car	riage of poly plants from nursery to nearest road has t	10	6	7.08	42.48	53.10
Inla	ntation site in motor transport (average distance 10 Kms)	V	6	LS	90	90.00



7-	Particulars of Works		Linia	10			
			Unit	Quantity	Rate per Unit at the wage	Norm at the wage rate of	Norm at the wage rate o
	Planting of tall plants in pits i/c ramming				rate of 200/-	200/- for Non- Tribal areas	250/- for
	cost of fall plants raised in Department-11	No		6	8.72		Tribal areas
		old No		6	75.00	52.32	65.
	TOTAL 4th Year Maintenance				73.00	450	562
						934.15	444-
	5th year maintenance (3% beating up of failures)	Say					1145.
	The bigging of pits 90x90x90 cm		1			900.00	1100.0
	Filling of Pits 90x90x90 cms	No		6	10.90		
	Carriage of poly plants from nursery to nearest road head ne	No		6	49.89	299.35	374.1
l n	plantation site in most and nursery to nearest road head ne	ar No			7.08	42.48	53.1
P	Planting of tall plants in pits i/o reasons	fig.	- 6 · 6	6	LS	90.00	90.0
C	Cost of Tall plants raised in Depart	No		6	0.72		10.1
lir	Cost of Tall plants raised in Departmental Nurseries(3 year old n 18"x24" bags)	d No		6	8.72	52.32	65.4
	OTAL 5th Year Maintenance			0	75.00	450.00	562.50
	u's some the state of the state						
6t	th year maintenance (2% beating up of failures)	ay		-		934.15	1145.19
Re	e-Digging of pits 90x90x90 cm				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	900.00	1100.00
Fil	lling of Pits 90x90x90 cms	No				27	
Ca	arriage of polyada of		-	4	49.89	199.57	249.46
Int	arriage of poly plants from nursery to nearest road head near	r No		4	7.08	28.32	35.40
Pla	antation site in motor transport (average distance 10 Kms) anting of tall plants in pits i/c ramming	1140		4	LS	60.00	60.00
Co	ost of Tall plants raised in Donarts	No		4	0.72		
lin :	ost of Tall plants raised in Departmental Nurseries (3 year old 18"x24" bags)	No		4	8.72	34.88	43.60
	TAL 6th Year Maintenance			4	75.00	300.00	375.00
	Contreal Maintenance						-
	The state of the s	,				622.77	763.46
Pc	your manifeliance 12% heating up of file	-	-			600.00	800.00
1,,,	Digging of Dits 90x90x90 cm	No					500.00
151111	ing of Pits 90x90x90 cms	No		4	49.89	199.57	240.46
Cari	riage of poly plants from nursery to page 1	No		4	7.08	28.32	249.46
plan	ntation site in motor transport (average distance 10 Kms)	No		4	LS		35.40
With Print Print Personal Print Prin	_ O - Con Pidito III IIII I/C rammina				23	60.00	60.00
Cost	t Of fall plants raised in Departmental N	No		4	8.72	21.5	
in 18	8"x24" bags)	No		4		34.88	43.60
TOT	AL 7th Year Maintenance				75.00	300.00	375.00
						622.77	763.46
TOTA	AL (C) Maintenance cost for 7 years					600.00	
TOT	AL NEW + MAINTENANCE D= (A+B+C)						800.00
	WAINTENANCE D= (A+B+C)					9300.00	11400.00
						282500.00	300800.00

-	Particulars of Works	Unit	Quantity	Rate per Unit at the wage rate of 200/-	Norm at the wage rate of	Norm at the wage rate of
	Contigency			. 200/	200/- for Non- Tribal areas	250/- for
	Contigency 5% of all above				Tibal aleas	Tribal areas
	TOTAL Contigency (E)				11111	
	Total Plantation + Contigency (D+E)				14125.00	20010.0
	Department Lol		-		14125.00	15040.00
	Departmental Charges 17.5% of all above		1		296625.00	315840.00
	Total depart					
	Total departmental Charges (F)				51909.38	55272.00
	GRAND TOTAL OF SCHEME (D+E+F) Or Say				51909.38	55272.00
					348534.38	371112.00
	Y.				348500.00	371100.00

APPROVED

Pr. C.C.F. (HOFF) Himachal Pradesh