

Check list Serial Number:-27
SCHEME FOR COMPENSATORY AFFORESTATION

Detailed scheme for compensatory afforestation to be carried out for the construction of Provision of proposed CA site for **Construction of Parking Place at Dalhousie** Within the Jurisdiction of Dalhousie Forest Division HP Afforestation will be done over 0.15 hectare as under:-

1. Details of degraded forest land/non forest land:-

a) District	Chamba
b) Name of land Bank	Suhar DPF
c) Tehsil	Dalhousie
d) Name of Forest Division	Dalhousie
e) Range	Bhattiyat
h) Area to be afforested	0.15 Hact.

2. Description of Area:-

(a) Whether the site selected for Compensatory Afforestation is a land bank or not:

Yes, The selected site is a land bank.

(b) If the CA site is other than the land bank, reason is given. :

N.A. as the selected site is a land bank.

(c) In case of non-forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary?

Not applicable as the site selected is a forest area

(d) Soil Type : Sandy Loam

(e) Topography:Hilly

(f) Slope: Easy to Moderate

(g) Whether the area is bearing any stock of vegetation: No

3. Plantation Model.

Compensatory afforestation over an area of 0.15 Hact of degraded forest land is proposed to be raised. The area selected for this purpose is Suhar DPF, which is a degraded forest area and has been proposed as a land bank in the concerned proposal. Whole of the plantation of 0.15 ha will be raised in a single compact block inside the land bank created for such purpose. The area identified for plantation has also been shown on the attached map. Plants @ 1100 plants per hectare will be planted. Thus 165 plants under this diversion proposal will be planted in the land bank. The species to be planted will be mainly broad leaved. The plantation will be raised in the following year after the approval of FCA proposal and further maintenance and beating up of failures will be done for the subsequent ten years. The scheme will be implemented by Forest Department through DFO Dalhousie. The cost structure of the scheme is attached. The scheme has been formulated by taking into consideration the present wage rate of Rs.375/- and 10% cost escalation after First years has been provided. Total financial outlay for compensatory plantation scheme is **Rs. 86,975/-** Certificate of DFO Dalhousie regarding suitability of area identified for compensatory plantation is also attached.. The monitoring will be done as per existing monitoring mechanism in the Forest Department at present and also as per G.O.I instructions.

(4) CA Plantation Model 1100 Plants/ Hac.

Sr. No.	Particulars of Works	Unit	Qty	Rate per Unit at wage rate of RS. 150/-	Amount at wage rate of Rs. 150/- for non-tribal areas
1	Survey & Demarcation of Plantation area	ha.	0.15	101	15
2	Digging of Pits of 60x60x60 cm Size for tall plants	No	45	17.45	785
3	Filling of Pits of 60x60x60 cm Size for tall plants	No	45	2.54	114
4	Digging of Pits of 45x45x45 cm Size	No	120	9.54	1145
5	Filling of Pits of 45x45x45 cm size	No	120	2.72	326
6	Planting of Tall Plants	No	45	6.543	294
7	Planting of Normal Plants	No	120	2.18	262
8	Construction of Inspection Path	Rmt.	15	11	165
9	Construction of stagarred contour trenches	Rmt.	90	12	1080
10	Planting in gradional trenches	No	300	L/S	300
11	Cost of RCC Fence posts	No	7.5	450	3375
12	Fixing of RCC fence posts	No	7.5	696.35	5223
13	Fixing of RCC Fence post i/c structting	No	7.5	L/S	4000
14	Carriage of B/Wire over a distance of 2 Kms	Km/Qty	0.1125	73.65	8
15	Stretching & Fixing of barbed Wire in 5 stands	Rmt.	112.5	4.8	540
16	interlacing of Throny Bushes along the Fence	Rmt.	22.5	4	90
17	Cost of Barbed Wire	Qty	0.165	9000	1485
18	Cost of U-Nails	Qty	0.0075	8800	66
19	Carriage of Tall Plants over distance 2 km uphill/downhill	No	45	14.76	664
20	Digging of forest soil, carriage and mixing in the pits	No	1800	L/S	1800
21	Carriage of normal Plants over distance 2 km uphill/downhill		120	1.9	228
22	Cost of manure, carriage and application in pits		450	L/S	450
23	Mulching with local grasses/shrubs		165	0.848	140
24	weeding and hoeing		165	0.708	117
25	Watering during leing season		30	L/S	11250
26	Sign Board, Carriage & Fixing		67.5	L/S	68
27	Eradiction of Lantana by CRS method	25%	0.15	28800	4320
28	SMC Work Gully Plugging		1	6000	6000
29	Biofertilizer , Hydrogel , verming compost		1	3000	3000
(A)	wage rate from Rs. 150/- to Rs 375/- per day (Sl. No. 1 to 10, 12 to 16, 19, 21 & 23, 24)				10949
(B)	Cost of material etc. (Sl. No. 11,12to15,17,18,20,22,25,26,27&28)				36362
(C)	Total (A) + (B)				47310
(D)	Total Cost of 10 years Maintenance				17283
(E)	Total C+D				64593
(F)	Cost of Tall Plants	No	45	68.68	3091
(G)	Cost of Normal Plants	No	120	20.83	2500
	Grand Total E+F+G				70183
	Or Say Rs				71000
	5% Contingency				3550
	Add Departmental Charges @ 17.5%				12425
	Grand Total				86975

(D) Scheduled of Maintenance

A	B	C	D	E	F		G	H
Year wise maintenance	Unit in ha	Number of Plants	Cost of Plant	Total cost plant	Rate per hact.		Total amount of column E+F	Total Amount including escalation
1st year Maintenance	0.15	50	25	1237.5	11400	1710	2947.5	3537
2nd Year Maintenance	0.15	33	25	825	7700	1155	1980	2574
3rd Year Maintenance	0.15	17	25	412.5	3900	585	997.5	1397
4th year Maintenance	0.15	17	25	412.5	3900	585	997.5	1397
5th year Maintenance	0.15	17	25	412.5	3900	585	997.5	1397
6th Year Maintenance	0.15	17	25	412.5	3900	585	997.5	1397
7th Year Maintenance	0.15	17	25	412.5	3900	585	997.5	1397
8th Year Maintenance	0.15	17	25	412.5	3900	585	997.5	1397
9th Year Maintenance	0.15	17	25	412.5	3900	585	997.5	1397
10th year Maintenance	0.15	17	25	412.5	3900	585	997.5	1397
Total Cost of 10 years Maintenance								17283

5). Technical Details:-

Technical details of Compensatory A forestation Scheme are as follows:-

(a) **General Details:** - An area of 0.15 Hac will be taken up for planting under Compensatory afforestation scheme in Suhar DPF. In a single compact block. The area will be protected by Barbed wire fencing and a mixture of Broad leaved species with fruit wear will be planted. Plants will be planted @ and 1100 plants per hectare.

(b) Spacement :- 2.5 x 2.5 mtrs.

Species: - Broad leaves/Conifer

(c) **Plantation Method:** - Nursery grown one year old plants of mixed species of Broad Leaved and fruit plants in Polythene bags will be planted in 45x45x45 cm pits in the selected area. Bush cutting will be done in the infested area. The plantation will be maintained for subsequent 10 years in which beating up of failures will be done. The plantation will be rain faded.

(d) **Soil and Moisture Conservation Works:** - Contour trenching will be done over the entire area to conserve the available moisture during rainy season so that moisture regime in the area is improved. Minor Soil conservation works like gully plugging check Dams will be done where ever required.

(e) **Protection (Fencing, Watch man, People's, participation etc.):-** Area will be protected from Grazing by erecting barbed wire fencing at all vulnerable place around the plantation. Further watch and ward as also fire protection will be ensured through regular departmental Staff.

(f) **Proposed Monitoring Mechanism:** - The plantation will be monitored as per existing Monitoring Mechanism in the forest department. The plantation will also be monitored by GOI representatives as per instructions.


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