

CHANED SMALL HYDRO PROJECT 0.5684 HAC. (1MW)

CHECK LIST NO: - 27

“SCHIME FOR COMEPATORY AFFORTATION”

Detail scheme for compensatory Afforestation to be carried out in lieu of diversion of 0.5684 hectare of forest land for the construction of **CHANED SMALL HYDRO PROJECT 0.5684 HAC. (1MW)** to be constructed by HPPWD Division, Dalhousie in Chamba District, Himachal Pradesh. Afforestation will be done over = 1 Hact. i.e. two times the forest land area to be diverted.

1). Details of degraded forest Land / Non-forest land:-

a) District	Chamba
b) Village (Name of land Bank)	Salig Tikar DPF
c) Tehsil	Dalhousie
d) Name of Forest Division	Dalhousie
e) Range	Dalhousie
f) Scale	1:15000
g) Block/Compartment/Survey No.	53D/2
h) Area to be afforested	1 Hectare

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 be given:

Not applicable as the site selected is a land bank.

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

Not applicable as the site selected is a forest area.

d) Soil Type: *Rocky (soft) and Sandy loom*

e) Topography: *Hilly*

ij) Slope: *Steep / Medium / Gentle*

f) Whether the area is bearing any root stock of vegetation: *No*

3) Plantation Model:-

Compensatory afforestation over an area of 1ha of degraded forest land is proposed to be raised. The area selected for this purpose is in Salig Tikar C-4 DPF, which is a degraded forest area and has been a land bank. Presently the area supports scattered Chil (*Pinus roxburghii*) trees. Whole of the plantation of 1 hac. will be raised in a single compact block inside the degraded forest for such purpose. The area indentified for plantation has also been shown on the attached map. Plants @1100 plants per hectare will be planted. Thus 1137 plants under this diversion proposal will be planted in the land bank. The species to be planted will be mainly broad leaved and Other Misc. species of fruit plants etc. 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. Total financial outlay for compensatory plantation scheme is Rs. 2,95,370/-. Certificate of the DFO Dalhousie regarding suitability of area identified for compensatory plantation is 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). Cost structure of the scheme is mentioned below:-

Particulars of works	Norms per hact. @ 275/- wage rate (2021-22)	Year of execution of works	Increase per Year @ 10%	Tentative Rate	Total amount
(a)					
Initial cost for Plantation	83600	2022-23	8360	91960	1,04,540/-
Nursery Cost (BL=2 Hacter)	16.84	2022-23	1.684	18.524	21,070/-
(b)					
Soil conservation works	0	0	0	L/S	31,400/-
Total (a+b)					1,57,010/-
(c)					
1 st year maintenance	9100	2023-24	1919	11019/-	12,530/-
2 nd year maintenance	6140	2024-25	1864	8171/-	9,290/-
3 rd year maintenance	3180	2025-26	1353	4660/-	5,300/-
4 th year maintenance	3180	2026-27	1780	5124/-	5,830/-
5 th year maintenance	3180	2027-28	2249	5640/-	6,410/-
6 th year maintenance	3180	2028-29	2766	6200/-	7,050/-
7 th year maintenance	3180	2029-30	3334	6820/-	7,750/-
8 th year maintenance	3180	2030-31	3958	7502/-	8,530/-
9 th year maintenance	3180	2031-32	4646	8252/-	9,380/-
10 th year maintenance	3180	2032-33	5402	9077/-	10,320/-
TOTAL					82,390/-
Total (a+b+c)					2,39,400/-
Contingencies				5%	11,970/-
				Sub Total	2,51,370/-
Department Charges				17.50%	44,000/-
				GRAND TOTAL	2,95,370/-
				Or Say	2,95,370/-

6). Technical details:-

Technical details of Compensatory Afforestation Scheme are as follows:-

- (a) **General Details:** - An area of 1 ha will be taken up for planting under compensatory afforestation scheme in DPF Salig Tikar 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 @ 1100 plants per hectare.
- (b) Spacement:- 2.5 mtr×2.5 mtr
1. Species:- Broad Leaved and Fruit plants
- (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 45×45×45 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 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 walls 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. The plantation site will be approachable from Banikhet to Chamba road and near village Bounkri Mod.
- (g) **Any other information**


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