

Title of the project : **CONSTRUCTION OF LINK ROAD FROM BHADELA TO ANDWAS KM 0/0 TO 6/300.**

File No. : _____
Date of Proposal: _____

CHECK LIST SERIAL NUMBER:-18

"SCHEME FOR COMPENSATORY AFFORESTATION"

Detail scheme for compensatory Afforestation to be carried out in lieu of diversion of 3.5271 Ha. of forest land for the Construction of Link road from Bhadela to Andwas km 0/0 to 6/300 to be constructed by HPPWD Division Salooni, in Chamba District Himachal Pradesh. Afforestation will be done 7.06 hectares i.e. double the forest land area to be diverted.

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

a) District	Chamba
b) Village	Dhar Malhol
c) Tehsil	Salooni
d) Name of forest division	Churah
e) Range	Himgiri
f) Block/ Compartment/Survey No.	Salooni/Billa Beat/ 52 D1
g) Area to be afforested	7.06 Ha

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 land bank.
- c) In the case of non-forest area indentified 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 and Sandy loom
- e) Topography: Hilly
- ii) Slope: Medium
- f) Whether the area is bearing any root stock of vegetation: **No.**

3. Plantation Model:-

Compensatory afforestation over an area of 7.06 ha of degraded forest land is proposed to be raised. The area selected for this purpose is in DPF Dhar malhol which is a degraded forest area and has been notified as a land bank. Presently the area **supports scattered chil and bushes**. Whole of the plantation of 7.06 ha will be raised in a single compact block inside the

land bank created for such purpose. The area indentified for plantation has been shown on the attached map. Plants @1100 plants per ha. will be planted. Thus 7766 plants under this diversion proposal will be planted in the land bank. The species to be planted will be mainly Ban (*Quercus leucotrichophora*), Deodar (*Cedrus deodara*), Robinia (*Preudocacia*) 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 seven years. The scheme will be implemented by Forest Department through DFO Salooni. The cost structure of the scheme is attached. The scheme has been formulated by taking into consideration the present wage rate of Rs. 150/- and 10% cost escalation after forest year has been provided. Total financial outlay for compensatory plantation scheme is Rs. 892828/- Certificate of DFO Salooni regarding suitability of land indentified for compensatory plantation is attached. The area selected for compensatory plantation will be approachable from Kandhwara to Bhadela road. The monitoring will be done as per existing mechanism in the forest department at present and also as per G.O.I. instructions.

Copy of the approved Compensatory afforestation model showing component wise physical and financial breakup is enclosed.


4. Schedule of plantation programme:-

Details of year wise breakup of requirement of funds is as under:-

Year	Nature of work	Area (Hectare)	Rate per Hectare	Total Amount
	New Plantation	7.06	63200.00	446192.00
1st Year	1st year of maintenance	7.06	6850.00	48361.00
2nd Year	2nd year of maintenance	7.06	4600.00	32476.00
3rd Year	3rd year of maintenance	7.06	2400.00	16944.00
4th Year	4th year of maintenance	7.06	2400.00	16944.00
5th Year	5th year of maintenance	7.06	2400.00	16944.00
6th Year	6th year of maintenance	7.06	2400.00	16944.00
7th Year	7th year of maintenance	7.06	2400.00	16944.00
8th Year	8th year of maintenance	7.06	2400.00	16944.00
9th Year	9th year of maintenance	7.06	2400.00	16944.00
10th Year	10th year of maintenance	7.06	2400.00	16944.00
G.Total				662581.00
10% increase for the year 2019-20				66258.00
G.Total				728839.00
Departmental charges			17.5%	127547
contingencies			5%	36442.00
Total				892828.00

Technical details of Compensatory afforestation scheme are as follows:-

- (a) **General Details:-** An area of 7.06 ha will be taken up planting under compensatory afforestation scheme in DPF Dhar malhol in a compact block. The area will be protected by Barbed wire fencing and a mixture of conifer and broad leaved species will be planted. Plants will be planted @ 1100 plants per hectare.
- (b) **Spacement:-** 2.5mtr x 2.5mtr
1. Species Ban Ban (*Quercus leucotrichophora*), Deodar (*Cedrus deodara*), Robinia (*Preudocacia*) etc
- (c) **Plantation Method:-** Nursery grown two and a half year old plants of Ban (*Quercus leucotrichophora*) and Deodar (*Cedrus deodara*) 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 fed.
- (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 places 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 exiting monitoring mechanism in the forest department. The plantation will also compensatory afforestation over an area of 7.06 ha be monitored by GOI representatives as per instructions. The plantation site will be approachable from road.
- (g) **Any other information:-** Nil


Divisional Forest Officer
Churah Forest Division
Salooni, Chamba (HP)