

Title of the project: **CONSTRUCTION OF LINK ROAD FROM BHADELA TO HALAN VIA BHANDROTA KM 0/0 TO 8/300.**

CHECK LIST SERIAL NUMBER:-18

“SCHEME FOR COMPENSATORY AFFORESTATION”

Detail scheme for compensatory Afforestation to be carried out in lieu of diversion of 4.75 Ha. of forest land for the Construction of Link road from Bhadela to Halan via Bhandrota km 0/0 to 8/300 to be constructed by HPPWD Division Salooni, in Chamba District Himachal Pradesh. Afforestation will be done 9.50 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	Shaini DPF
c) Tehsil	Salooni
d) Name of forest division	Churah
e) Range	Hingiri
f) Block/ Compartment/Survey No.	Salooni, Billa beat, I43W1
g) Area to be afforested	9.50 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 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 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 9.50 ha of degraded forest land is proposed to be raised. The area selected for this purpose is in DPF Shaini which is a degraded forest area and has been notified as a land bank. Presently the area supports scattered Deodar, Ban, Kroon, Khirk, Kainth, Chil and bushes. Whole of the plantation of 9.50 ha will be raised in a single compact block inside the land bank created for such purpose. The area identified for plantation has been shown on the attached map. Plants @1100 plants per ha. will be planted. Thus 10450 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 ten 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. 275/- and 10% cost escalation after forest year has been provided. Total financial outlay for compensatory plantation scheme is **Rs. 2099765/-** Certificate of DFO Chitla regarding suitability of land identified for compensatory plantation is attached. The area selected for compensatory plantation will be approachable from link road to village Bhadela. 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 :-

Detail of year-wise activities and break-up of requirement of funds is as under:-

Year	Nature of Work	CA Area	Rate/ha Including Nursery cost & 10% escalation	Total Amount
1st year	New plantation	9.50	113217.50	1075566.00
	Departmental Charges	17.50%		299966.00
	Contingencies	5%		85705.00
	Grand Total			1461237.00
2 nd year	1 st year maintenance of plantation	9.50	17199.60	163396.00
3 rd year	2 nd year maintenance of plantation	9.50	8864.90	84217.00
4 th year	3 rd year maintenance of plantation	9.50	5878.40	55845.00
5 th year	4 th year maintenance of plantation	9.50	5878.40	55845.00
6 th year	5 th year maintenance of plantation	9.50	5878.40	55845.00
7 th year	6 th year maintenance of plantation	9.50	5878.40	55845.00
8 th year	7 th year maintenance of plantation	9.50	5878.40	55845.00
9 th year	8 th year maintenance of plantation	9.50	5878.40	55845.00
10 th year	9 th year maintenance of plantation	9.50	5878.40	55845.00
11 th year	10 th year maintenance of plantation	9.50	5878.40	55845.00
	Total			638528.00
	G. Total			2099765.00

5. The cost structure of the scheme is detailed below:-

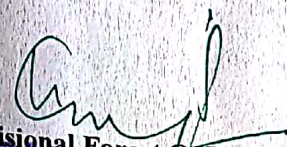
Particulars of works	Year of execution of works	Units cost at current wage rate of Rs. 275/=	Nursery Cost	Total	Units cost after applying cost escalation @10%	Total amount
Initial cost for raising compensatory afforestation over an area of 9.50 Ha (including Nursery Cost)	2021-22	78640	24285	102925	113217.50	1075566.00
Ist year maintenance	2022-23	8350	7286	15636	17199.60	163396.00
2 nd year maintenance	2023-24	5630	2429	8059	8864.90	84217.00
3 rd year maintenance	2024-25	2915	2429	5344	5878.40	55845.00
4 th year maintenance	2025-26	2915	2429	5344	5878.40	55845.00

5th year maintenance	2026-27	2915	2429	5344	5878.40	55845.00
6th year maintenance	2027-28	2915	2429	5344	5878.40	55845.00
7th year maintenance	2028-29	2915	2429	5344	5878.40	55845.00
8th year maintenance	2029-30	2915	2429	5344	5878.40	55845.00
9th year maintenance	2030-31	2915	2429	5344	5878.40	55845.00
10th year maintenance	2031-32	2915	2429	5344	5878.40	55845.00
Total						1714094.00
Departmental charges @ Rs. 17.5%						299966.00
Contingencies @ 5%						85705.00
G. Total						2099765.00

6. Technical details:-

Technical details of Compensatory afforestation scheme are as follows:-

- (a) **General Details:-** An area of 9.50 ha will be taken up planting under compensatory afforestation scheme in DPF Shaini 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 (*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 be monitored by GOI representatives as per instructions. The plantation site will be approachable from Kuthed to Kandhwara road
- (g) **Any other information:-** Nil


 Divisional Forest Officer
 Churah Forest Division
 Salboni, Chamba (HP). Salboni