

NAME OF PROJECT :- Diversion of 9.739 Hac Forest Land for Construction of
DEVIKOTHI HEP (16MW)

CHECK LIST NO. -17

SCHEME FOR COMPENSATORY AFFORESTATION

Detail scheme for compensatory Afforestation to be carried out in lieu of diversion 9.739 Hectare of forest land for the Construction of Devi-Kothi-HEP (16.00MW), to be constructed by Projects Construction Division No. 1, HPSEBLtd. Tissa Chamba in Chamba District, Himachal Pradesh. Afforestation will be done in 19.500 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	Chiulli
c) Tehsil	Churah
d) Name of forest division	Churah
e) Range	Tissa
f) Block/ Compartment/Survey No.	Sei / Gungiyas Beat/chiulli UPF 52/D/1 Scale 1:50000
g) Area to be afforested	19.500 Hactare

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 covers an area of 19.500 ha. of UPF land, is proposed to be raised. The area selected for this purpose is in UPF CHIULLI which is a UPF area and has been notified as a land bank. Presently the area **supports scattered chill and bushes**. Whole of the plantation of 19.500 hectare will be raised in different compact blocks inside the land bank created for such purpose. The area identified for plantation has been shown on the **attached map**. Plants @ 1100 plants per hectare will be planted. Thus 21450 plants under this diversion proposal will be planted in the land bank. The

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species to be planted will be mainly Chir (Pinus Roxburghii), Ban (Quercus leucotrichophora), Peak (Alnus Nitida), 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. Total financial outlay for compensatory plantation scheme is Rs.22,41,842/-only. Certificate of DFO Salooni regarding suitability of land indentified for compensatory plantation is attached. The area selected for compensatory plantation will be approachable from Tissa – Bounderi. 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 program and cost structure of Scheme:-

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

Year	Nature of work	Area (Hectare)	Rate per hectare	Total amount
	New Plantation	19.500	63200/-	1232400/-
1 st year	1 st year maintenance of plantation	19.500	6850/-	133575/-
2 nd year	2 nd year maintenance of plantation	19.500	4600/-	89700/-
3 rd year	3 rd year maintenance of plantation	19.500	2400/-	46800/-
4 th year	4 th year maintenance of plantation	19.500	2400/-	46800/-
5 th year	5 th year maintenance of plantation	19.500	2400/-	46800/-
6 th year	6 th year maintenance of plantation	19.500	2400/-	46800/-
7 th year	7 th year maintenance of plantation	19.500	2400/-	46800/-
8 th year	8 th year maintenance of plantation	19.500	2400/-	46800/-
9 th year	9 th year maintenance of plantation	19.500	2400/-	46800/-
10 th year	10 th year maintenance of plantation	19.500	2400/-	46800/-
Total				18,30,075/-
Departmental Charges			17.5%	320263/-
Contingencies			5%	91504/-
Total				22,41,842/-

5. Technical details:-

Technical details of Compensatory afforestation scheme are as follows:-

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- a) **General Details:** - An area of 19.500 ha. will be taken up for planting under compensatory afforestation scheme in UPF Chiulli 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 Chir (Pinus Roxburghii), Ban (Quercus leucotrichophora), Peak (Alnus nitida), Robinia (Pseudoacacia) etc.
- (a) **Plantation Method:** - Nursery grown One and a half year old plants of Chir (Pinus Roxburghii) and Peak (Alnus Nitida) and Two and a half year old plants Ban (Quercus leucotrichophora) in Polythene bags will be planted in 30x30x30 cm pits in the selected area. Bushes 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.
- (b) **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.
- (c) **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.
- (d) **Proposed Monitoring Mechanism:-** The plantation will be monitored as per exiting monitoring mechanism in the forest department. The plantation in regard of compensatory afforestation, over an area of 19.500 hactare, will also be monitored by GOI representatives as per instructions. The plantation site will be approachable from road.
- (e) Any other information:- Nil

Place: Salooni

Date: 16/6/2020


Divisional Forest Officer,
Churah Forest Division,
Salooni, Chamba (H.F.)