

**Full Title of the Project: Diversion of 0.9854 Hectare of forest land for the construction of  
Barguna 1.5 MW Small Hydro Electric Project.**

**“SCHEME FOR COMPENSATORY AFFORESTATION”**

Detailed scheme for compensatory Afforestation to be carried out in lieu of diversion of 0.9854 Hectares of forest land to be diverted for the diversion of 0.9854 Hectare of forest land for the construction of Barguna 1.5 MW Small Hydro Electric Project in favour of Ometa Hydro Power Pvt. Ltd., within jurisdiction of Chamba Forest Division, District Chamba. Afforestation will be done over 1.9708 hectare as per the Mukhya Mantri Van Vistar Yojana (MMVVY), Mode given at 3(1) in the Yojana Document.

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

a) District	Chamba
b) Village	Kanjrala Got
c) Tehsil	Bharmour
d) Name of forest division	Chamba
e) Range	Upper Chamba
f) Block / Compartment/Survey No.	52/D/7
g) Area to be afforested	1.9708 Hectare

**2) Description of Area :-**

a) Whether the site selected for compensatory afforestation is a land bank or not :

**The area selected for Compensatory Afforestation is Open degraded forest land having canopy density less than 40%.**

b) If the CA site is other than the land bank reason be given :

**The area selected for Compensatory Afforestation is Open degraded forest land having canopy density less than 40%. And the land selected for plantation is suitable for plantation. Necessary site suitability certificate is also attached herewith. The area selected is 1.9708 hectare only, which is as per the Van (SANRAKSHAN EVAM SAMVARDHAN) Adhiniyam, 1980, Rules 2023, and an suitable area for creation of Land as per Adhiniyam is**

available in Chamba Forest Division.

- 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 degraded forest land.**

- d) Soil Type : Clayey loam  
e) Topography : i) Hilly / Undulating / Plain  
ii) Slope : Steep / Medium /gentle  
f) Whether the area is bearing any root stock of vegetation :

**Scattered trees of deodar, Fir Spruce and kail exists near to the site.**

### 3) Plantation Model :-

Compensatory afforestation for **2168 number (which involves 596 tall Plants and 1572 normal plants)** of plants over an area of 1.9708 ha of open degraded forest land is proposed to be raised as per **Mukhya Mantri Van Vistar Yojana (MMVVY)**, Mode given at **3(1) in the Yojana Document**. The area selected for raising the Compensation Afforestation is in DPF Kanjrala Got which is a degraded forest area having canopy density less than 40%. Presently the area supports scattered Deodar, Kail, Fir spruce, OBL and relevant species. Whole of the plantation of 1.9708 ha will be raised in a single compact block for such purpose. The area identified for plantation has also been shown on the attached map. Plants @1100 plants per hectare which will includes 300 tall plants of indigenous species and 800 normal plans. **Thus 2168 plants under this diversion proposal will be planted in the land bank. The indigenous species to be planted like Deodar, Kail, Fir spruce, OBL and etc. which are suitable for the area. Because, the species the as mentioned in the Annexure-I of MMVVY Yojana Document are not suitable in the area proposed for raising CA.** 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 Chamba. The local communities of the area shall also be involved for plantation and maintenance of the plantation as proposed. The cost structure of the scheme as per Annexure-II of MMVVY Document is attached. The scheme has been formulated by taking into consideration the present wage rate of Rs 375- including as per

the GoHP directions. Total financial outlay for compensatory plantation scheme is **Rs. 947325/-**. Certificate of DFO Chamba regarding suitability of area identified for compensatory plantation is attached. Monitoring will be done as per existing monitoring mechanism in the forest department at present and also as per G.O.I. instructions. A Robust mechanism for monitoring and growth of land shall also be adopted as per MMVVY. The Proper monitoring mechanism, there shall be a provision of videography before plantation as well as after the plantation. The plantation shall be monitored through Third Party Monitoring and Evaluation team and MMVVY task Force to monitor the plantation site.

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

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

Particulars of works	Tentative Year of execution of works	Units cost at current wage rate of Rs. 375/- (For Normal area)	Total Amount
Initial cost for raising compensatory afforestation over an area 1.9708 hectare for 2168 Plants as per MMVVY Document	2023-24	194520	383360
Soil conservation work ( At the rate 25% planting cost)			95840
1 <sup>st</sup> year maintenance		36011	70970
2 <sup>nd</sup> year maintenance		16407	32335
3rd year maintenance		12103	23853
4th year maintenance		12103	23853
5th year maintenance		12103	23853
6th year maintenance		12103	23853
7th year maintenance		12103	23853
8th year maintenance		12103	23853
9th year maintenance		12103	23853
10th year maintenance		12103	23853




Total		773326
	Contingencies 5% of Total CA	38666
	Sub total	811992
	Departmental Charges @17.50%	135332
	Total	947325

#### 6. Technical details: -

Technical details of Compensatory Afforestation Scheme are as follows: -

- (a) General Details:- An area of 1.9708 Ha will be taken up for planting under compensatory afforestation scheme in DPF Kanjrala in a single compact block. The area will be protected by Barbed wire fencing and a mixture of conifer and broad-leaved species will be planted as per the Model 3(1) of MMMVY document. Plants will be planted @ 1100 plants per hectare (300 tall Plant and 800 normal plant.
- (b) Spacement :- 2.5mtr x 2.5mtr
- (c) Species:- Deodar, Ban, Fir spruce, OBL and etc
- (d) Plantation Method:- Nursery grown two and a half year old plants of deodar (in Polythene bags) and one and half year old plants of Kail( in Polythene bags) will be planted in 30x30x30 cm pits in the selected area. Tall plants of Ban and OBL will be planted naked root in 45x45x45 cm pits. Bush cutting will be done in the infested area. The plantation will be maintained for subsequent 10 years considering the guidelines issued under Van (Sanrakshan & Samvardhan) Adhiniyam-1980 in which beating up of failures will be done. The plantation will be during the monsoon season.
- (e) 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.
- (f) Implementation Mechanism: Possible Modern Technology of plantation shall be adopted like resilient seedlings and saplings, biofertilization, and import of fertile soil to ensure a high rate of survival under difficult edaphic and climatic conditions.

- (g) 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.
- (h) **Proposed Monitoring Mechanism:** - Monitoring will be done as per existing monitoring mechanism in the forest department at present and also as per G.O.I. instructions. A Robust mechanism for monitoring and growth of land shall also be adopted as per MMVVY. The Proper monitoring mechanism, there shall be a provision of videography before plantation as well as after the plantation. The plantation shall be monitored through Third Party Monitoring and Evaluation team and MMVVY task Force to monitor the plantation site. The plantation site will be approachable from Chhatrari-Kunr road and further approx. 1.5 kms on foot.
- (i) Any other information: - The copy of cost norms issued by the Govt. of HP under MMVVY Yojana is also attached herewith.

  
Deputy Conservator of Forests  
Chamba Forest Division  
Chamba