

**"SCHEME FOR COMPENSATORY AFFORESTATION FOR THE CONSTRUCTION OF Lower Bhagair Small hydro project 1 MW WITHIN THE JURISDICTION OF CHAMBA FOREST DIVISION, CHAMBA, DISTRICT CHAMBA (H.P)".**

The Revised Compensatory Afforestation to be carried out against the land diversion of 0.7903 ha. of forest land for the **CONSTRUCTION OF Lower Bhagair Hydro Electric Project 1 MW** to be constructed by the M/S Shiv Shakti Enterprises V. P.O Kunr Sub-Tehsil Dharwala distt. Chamba in Upper Chamba Range of Chamba Forest Division, District Chamba Himachal Pradesh is given below. The proposal involves area less than one hectare and no trees felling is involved, thus compensatory planting of 1581 normal plants will be carried out as per the latest guidelines, the planting under the scheme will be block plantation in a selected land bank of 2 hectare of the Division.

**Details of degraded forest land/ Non-forest land:-**

a) District	Chamba
b) Village (Name of land bank)	Kanjrala Got DPF
c) Tehsil	Chamba
d) Name of Forest Division	Chamba
e) Range/Block/Beat	U/Chamba/Chhatradi/ Chhatradi
f) Scale	1:50000
g) Block/Compartment/Survey No.	52 D/7
h) Area to be afforested	1581 normal plants in selected land of 2 hectare.
Approved cost of one Plant	288/-
Cost of 1581 normal plants as Compensatory afforestation including Contingency, Departmental Charges and maintenance etc.	455328/-

  
Divisional Forest Officer  
Chamba Forest Division  
Chamba

Shivalik (REC)  
held on 12/11/2018

**"Scheme for Compensatory Afforestation under FCA-1980 of selected Land bank 2 Ha For Block Plantation in Chamba Forest Division in proposals involving less than 1 Hac diversion of forest land."**

The detailed schemes for Compensatory Afforestation to be carried out against the land diversion having forest area less than one hectare against the proposals will involve forest area for diversion up to one hectare. The CA number of plants as per the FCA Guidelines shall be planted in this land bank. The planting under the scheme will be selected land bank of 2 hectare of the division.

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

a) District	Chamba
b) Village (Name of land bank)	Kanjrala Got DPF
c) Tehsil	Chamba
d) Name of Forest Division	Chamba
e) Range/Block/Beat	U/Chamba/Chhatradi/ Chhatradi
f) Scale	1:50000
g) Block/Compartment/Survey No.	52 D/7
h) Area to be afforested	2 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 is 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 (soft) and Sandy loom
- e) Topography: Hilly
- ii) Slope: Steep/ Medium/ Gentle
- f) Whether the are4a is bearing any root stock of vegetation: No.

**3) Plantation Model:-**

The Compensatory Planting of 1581 normal plants will be carried out in the Degraded Forest land having density between 0-40 percent. Nursery grown normal Plants with height of less than 1 meter of broad leaved species will be planted at the time of planting. The species to be planted will be mainly broad leaved with 40% mix fruit plants depending upon the sire. The plantations will be raised in the following year after the approval of FCA proposals and further maintenance and beating up of failures will be done in the subsequent Ten years. The area selected for compensatory plantation is approachable from Chamba -Chhatrari-Kunr road. The monitoring will be done as per existing monitoring mechanism in the Forest Department at present and also as per G.O.I. instructions.

Particulars of works	Area in hectare for	Norm per Hact @	Year of execution	Add 10% escalation in	Tentativ e rates	Total amount
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	raising of 1100 normal plants per Hact.(For 2 Ha. with 4 stand RCC Fence Posts.	wage rate of Rs. 300/- per day	of work	subsequent years		
1	2	3	4	5	6	7
a) Initial cost for plantation	(For 2 Ha )	98785 (2021-22)	2022-23	9879	108664	217328
Nursery cost 2 hec.	2 hac	22.08	2022-23	2.208	24.288	53434/-
b) SC works				L/s		152910/-
						423672/-
Detail of Maintenance of plantation for Ten Years:-						
c) 1 <sup>st</sup> year maintenance	2 hac	9124	2023-24	912	10036	20072
2 <sup>nd</sup> year maintenance	2 hac	6164	2024-25	616	6780	13560
3 <sup>rd</sup> year maintenance	2 hac	3204	2025-26	320	3524	7048
4 <sup>th</sup> year maintenance	2 hac	3204	2026-27	320	3524	7048
5 <sup>th</sup> year maintenance	2 hac	3204	2027-28	320	3524	7048
6 <sup>th</sup> year maintenance	2 hac	3204	2028-29	320	3524	7048
7 <sup>th</sup> year maintenance	2 hac	3204	2029-30	320	3524	7048
8 <sup>th</sup> year maintenance	2 hac	3204	2030-31	320	3524	7048
9 <sup>th</sup> year maintenance	2 hac	3204	2031-32	320	3524	7048
10 <sup>th</sup> year maintenance	2 hac	3204	2032-33	320	3524	7048
			Total Maintenance		90016/-	
			Total a+b+c		513688/-	
Add Contingencies charges @5%						25684/-
				Sub Total:-		539372/-
Add Departmental Charges of supervision @ 17.50%						94390/-
				G. Total:-		633763/-
				Or Say		633763/-
						288.07
						288/-
@ Rate per plant						


## 6). Technical details:-

Technical details of Compensatory Afforestation Scheme are as follows:-

6). **Technical details:-**

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- a) **General Details:-** The Compensatory Afforestation in DPF Bannu will be done in 5 Ha as Block plantation for all diversion cases under FCA 1980. The area will be protected by 4 steps Barbed wire fencing with RCC fence posts. The plantation will be carried out with a 40% mix fruit trees.
1. Spacement:- 5x4m
  2. Species:- Broad Leaved with 1.5 Meter minimum Height with mix of 40% fruit trees.
- b) **Plantation method:-** Nursery tall plants of mixed species of fruit plants/Broad Leaved raised in Polythene bags will be planted in 90x90 cm pits in the selected area. Bush cutting will be done in the infested area. The plantation will be maintained for subsequent 10 years beating up failures. The plantation will be rainfed.
- c) **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 will be done where ever required.
- d) **Protection (Fencing, Watch man, people's participation etc):-** Area will be protected from grazing by erecting 4 stands barbed wire fencing all around the plantations as well as by departmental staff and social fencing.
- e) **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.

  
Divisional Forest Officer  
Chamba Forest Division  
Chamba