

CHECK LIST SERIAL NUMBER 17

"SCHEME FOR COMPENSATORY AFFORESTATION"

Detailed Scheme for Compensatory Afforestation to be carried out in lieu of 02-85-73 hectare for diversion of Forest Land for Construction of Tranh-Charoli Small Hydro Electric Project-2 MW, Tehsil Kupvi in the jurisdiction of Chopal Forest Division Distt. Shimla HP.

1. Detail of degraded forest land/ Non- Forest land

Village	Bag
Tehsil	Kupvi
District	Shimla, H.P.
Forest Division	Chopal Forest Division
Forest Range	Kanda
Block No./Compartment No./Survey No. 53F/9	UPF Bag of Manjholi Beat, Block Sainj, Kanda Range, Chopal Division Distt. Shimla HP.
Area to be afforested	5.7146 Hectare

2. Description of the Area

i)	Whether the site selected for Compensatory Afforestation is a land bank or not	Yes, the selected area is a proposed land bank
ii)	If the CA site is other than the land bank, reasons be given	NA
iii)	In case of non-forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary	NA
IV)	Soil type	Clayey loam
v)	Topography a) Hilly / Undulating /Plain b) Slope: Steep/Medium/Gentle	a) Hilly b) Medium
vi)	Whether the area is bearing any root stock of vegetation.	No

3. Plantation Model

Copy of the Compensatory Afforestation Scheme/Model showing component wise physical and financial break up is enclosed.

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Bill for compensatory afforestation scheme over 5.7146 hectare forest land in lieu of diversion of 2.8573 hectare for the construction of Trinh- Charoli Small Hydro Electric Project 2 MW, within the jurisdiction of Chopal forest division District Shimla HP.

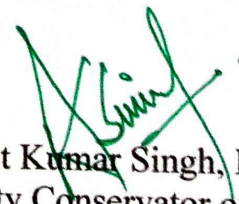
Area proposed for compensatory afforestation in hac.								5.7146 ha.			
Name of the proposed plantation area								UPF Bag			
Total No. of plants to be planted								14458			
Rate per plant								28/-			
Plants to be planted per hectare								1100			
Particulars of works	Area in Ha.	Unfit cost at wages structure per ha. for 2022-23 including plants cost	Total Amount Col 2x3	No. of plants planted 1 ha.	Total No. of plants planted (2X5)	Total amount of plants @ 28 of each plant	Total amount (Unfit cost+Plant Cost (4+7)	Year of execution of works	Cost exaction	Amount of cost escalation.	Total amount (Col. 4+7)
1	2	3	4	5	6	7	8	9	10	11	12
Initial cost CA over an area of CA	5.7146	94500	540030	1100	6286	176010	716039	2023-24	10%	71604	787643
1St year Maintenance	5.7146	11400	65146	330	1886	52803	117949	2024-25	20%	23590	141539
2nd year Maintenance	5.7146	7700	44002	220	1257	35202	79204	2025-26	30%	23761	102966
3rd year Maintenance	5.7146	3900	22287	110	629	17601	39888	2026-27	40%	15955	55843
4th year Maintenance	5.7146	3900	22287	110	629	17601	39888	2027-28	50%	19944	59832
5th year Maintenance	5.7146	3900	22287	110	629	17601	39888	2028-29	60%	23933	63821
6th year Maintenance	5.7146	3900	22287	110	629	17601	39888	2029-30	70%	27922	67809
7th year Maintenance	5.7146	3900	22287	110	629	17601	39888	2030-31	80%	31910	71798
8th year Maintenance	5.7146	3900	22287	110	629	17601	39888	2031-32	90%	35899	75787
9th year Maintenance	5.7146	3900	22287	110	629	17601	39888	2032-33	100%	39888	79776
10th year Maintenance	5.7146	3900	22287	110	629	17601	39888	2033-34	110%	43877	83765
			Total		14458						1590579
					Contingencies charges @ 5%						79529
					Total						1670108
					Departmental Charges 17.50%						292269
					G. Total						1962377

(Ankit Kumar Singh IES)
Deputy Conservator of Forests,
Chopal Forest Division Chopal

5. Technical Details:

Technical details of Compensatory Afforestation Scheme are as follows:

- a) General Details: An area of **5.7146** hectare will be taken up for planting under Compensatory Afforestation scheme in a single compact patch (UPF Bag) which is proposed land bank. The area will be protected by RCC Fence Post with five strands of Barbed wire fencing and a mixture of conifer and broad leaved species will be planted 14458 plants over the period of 10 years.
- b) Spacement 3 mtr x 3 mtr.
- c) Species: Cedrus deodara, Easculus indica, Juglans regia, Alnus nitida, Robinia, Pseudoacacaia & Pinus roxburghi, etc.
- d) Plantation Method: Nursery grown 2.5 year old pants (in Polythene bags as well as naked root) will be planted in 30 x 30 x 30 cm, 45 x 45 x 45 cm and 60 x 60 x 60 cm pits/patches in the selected area. Bush cutting will be done in the infested area. The plantation will be maintained for subsequent ten years in which beating up of failures will be done. The plantation will be rain-fed.
- e) Soil and Moisture Conservation works.
- f) Protection (Fencing, Watch man, People's Participation etc.): -Area will be protected from grazing by erecting RCC fence Post with barbed wire fencing at all vulnerable places around the plantation. Further watch and ward and also fire protection will be ensured through regular departmental staff patrolling.
- g) 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. The plantation site will be suitable UPF Bag.


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