

Full title of the project: C/o Luhri Hydro Electric Project Stage-I (210 MW)

File No.:

Date of proposal:

**CHECK LIST SERIAL NUMBER-17**  
**SCHEME FOR COMPENSATORY AFFORESTATION.**

Detail scheme for compensatory afforestation to be carried out in lieu of 53.9669 ha. of forest area to be diverted for construction of Luhri Hydro Electric Project Stage-I (210 MW), Tehsil Rampur in Shimla District.

**1. Details of degraded forest land/non forest land:-**

District:- Shimla Village:- Deotan, Taprog, Duttnagar, Majhali, Ruhan, Doi, Nawaroo & Delath

Tehsil:- Rampur Bushahr

Name of Forest Division:- Rampur Bushahr Range:- Rampur & Nankhari.

Block No./Compartment No.

/Survey No. **H43FII**

UF-Deotan=10 ha., Naunabai=20 ha., UF-Ruhan= 15 ha.

NDPF-Majhali= 8 ha.(Rampur Range)

**H43F14**

DPF-I Taprog= 10 ha., UPF-Doi= 15 ha., UPF-Nawaroo= 15 ha., & UPF-Delath= 15 ha. (Nankhari Range)

Area to be afforested: 108.00 ha.

**2. Description of area:-**

- i. Whether the site selected for compensatory afforestation is a land bank or not:- Yes.
- ii. If the CA site is other than the land bank, reasons be given:- Not applicable.
- iii. In case of non forest area identified form A, then what is the distance of CA site from the adjoining forest boundary:- Not applicable
- iv. Soil type:- Clayey loam.
- v. Topography:- a. Hilly/undulating/plain  
b. Slope: Steep/Medium/Gentle
- vi. Whether the area is bearing any root stock of vegetation:- No.

**3. Plantation Model:-**

Copy of the approved compensatory afforestation scheme/model showing component wise physical and financial break up is enclosed.

**4. Schedule of plantation programme:-**

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


Year	Area	Rate	Amount
0 year i.e. year plantation	108.00 ha.	92785	10020780
1 <sup>st</sup> year maintenance	108.00 ha.	16356	1766448
2 <sup>nd</sup> year maintenance	108.00 ha.	11882	1283256
3 <sup>rd</sup> year maintenance	108.00 ha.	6510	703080
4 <sup>th</sup> year maintenance	108.00 ha.	6975	753300
5 <sup>th</sup> year maintenance	108.00 ha.	7440	803520

6 <sup>th</sup> year maintenance	108.00 ha.	7905	853740
7 <sup>th</sup> year maintenance	108.00 ha.	8370	903960
8 <sup>th</sup> year maintenance	108.00 ha.	8835	954180
9 <sup>th</sup> year maintenance	108.00 ha.	9300	1004400
10 <sup>th</sup> year maintenance	108.00 ha.	9765	1054620
<b>Total</b>			<b>20101284</b>
Departmental charges @ 17.5%			3517725
Contingency Charges @ 5%			1005064
<b>G. Total</b>			<b>24624073</b>

5. **Technical details:-**

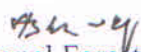
Technical details of compensatory afforestation scheme are as follows:-

- (a) **General Details:-** An area of 108.00 ha. will be taken up for planting under compensatory afforestation scheme UF-Deotan=10 ha., Naunabai=20 ha., UF-Ruhan= 15 ha. NDPF-Majhali= 8 ha., DPF-I Taprog= 10 ha., UPF-Doi= 15 ha., UPF-Nawaroo= 15 ha., & UPF-Delath= 15 ha. in a single compact patch. The area will be protected by Barbed wire fencing and a mixture of conifer and broad leaved species will be planted 1500 plants will be planted per hectare.
- (b) **Spacement:-** 3.00 mtrs x 3.00 mtr
- (c) **Species:-** Conifer & other broad leave species.
- (d) **Plantation Method:-**Nursery grown one and half year old plants of Chil & Broad Leave and two and half year old Deodar & Ban species (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 rainfed.
- (e) **Soil 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 be done where ever required.
- (f) **Protection (fencing, Watchman, 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.
- (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 sites will be approachable from Rampur Nankhari road, Rampur Bahli via Taklech road, Rampur Deothi road & Rampur Bahli via Bhadrash road.
- (h) **Any other information:-** Nil.

  
 Divisional Forest Officer,  
 Rampur Forest Division,  
 Rampur Bushahr.  
 Office Seal  
**Divisional Forest Officer**  
**Rampur Forest Division**  
**Rampur Bushahr (H.P.)**



<b>BILL FOR COMPENSATORY AFFORESTATION SCHEME OVER 108 HACTARE FOREST LAND IN LIUE OF DIVERSION OF 53.9669 HACTRAE FOREST LAND FOR CONSTRUCTION OF LUHRI HYDRO ELECTRIC PROJECT STAGE-I (210 MW)</b>					
Area proposed for compensatory Afforestation in hac.	108 ha.				
Name of the proposed plantation area	UF-Deotan-10 ha., DPF-I Taprog-10, Naunabai-20 ha., NDPF Majhali-8 ha., UF-Ruhan-15 ha., UPF-Doi-15 ha., UPF-Nawaroo-15 ha., & UPF-Delath-15 ha.				
Plants to be planted per hectare	1100				
Total number of plants to be planted	118800				
Species to be planted	Chil & Broad Leave, Deodar & Ban species				
Particulars of works	Unit cost at wage structure for 2017-18	Year of execution of works	Cost escalation	Unit cost after applying cost escalation	Total amount
Initial cost for raising compensatory Afforestation over an area of 108 hectare	84350	2019-20	10%	92785	10020780
1 <sup>st</sup> year maintenance	13630	2020-21	20%	16356	1766448
2 <sup>nd</sup> year maintenance	9140	2021-22	30%	11882	1283256
3 <sup>rd</sup> year maintenance	4650	2022-23	40%	6510	703080
4 <sup>th</sup> year maintenance	4650	2023-24	50%	6975	753300
5 <sup>th</sup> year maintenance	4650	2024-25	60%	7440	803520
6 <sup>th</sup> year maint.	4650	2025-26	70%	7905	853740
7 <sup>th</sup> year maint.	4650	2026-27	80%	8370	903960
8 <sup>th</sup> year maint.	4650	2027-28	90%	8835	954180
9 <sup>th</sup> year maint.	4650	2028-29	100%	9300	1004400
10 <sup>th</sup> year maint.	4650	2029-30	110%	9765	1054620
<b>Total =</b>					<b>20101284</b>
Contingencies Charges @ 5%					1005064
<b>Total cost of CA Scheme</b>					<b>21106348</b>
Departmental Charges @ 17.5%					3517725
<b>G. Total =</b>					<b>24624073</b>

  
 Divisional Forest Officer  
 Rampur Forest Division  
 Rampur Bushahr  
 Divisional Forest Officer  
 Rampur Forest Division  
 Rampur Bushahr (H.P.)