

Full title of the project: Upper Kurmi (8 MW) of M/S Shimla Hydro Power Pvt. Ltd.  
File No.: FP/HP/HYD/42326/2019  
Date of Proposal:

**CHECK LIST SERIAL NUMBER-18**  
**SCHEME FOR COMPENSATORY AFFORESTATION.**

Detail scheme for compensatory afforestation to be carried out in lieu of 7-42-68 ha of forest area to be diverted for construction of Upper Kurmi SHEP (8 MW) Small Hydro Electric Project in Shimla District.

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

District:-	Shimla	Village:-	Nirath and Doi
Tehsil:-	Rampur Bushahr		
Name of Forest Division:-	Rampur Bushahr	Range:-	Nankhari
Block/Compartment/ Survey No.	53 E/11	UF-Nirath -5 hac., UF-Doi - 5 hac.	UF-Doi - 5 hac.

Area to be afforested: 15.00 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 attached.

**5. Technical details:-**

Technical details of compensatory afforestation scheme are as follows:-

- (a) General Details:- An area of 15.00 ha. will be taken up for planting under compensatory afforestation scheme in UF-Nirath and UF-Doi 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. 1100 plants will be planted per hectare.

- (b) Spacement:- 3 mtrs x 3 mtr

- (c) Species:- Conifer & other broad leave species.
- (d) Plantation Method:-Nursery grown one year old plants (In Polythene bags as well as naked root) 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 fallures 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 site will be approachable from Rampur-Nirath-Delath road.
- (h) Any other information:- Nil.




Dy Conservator of Forests,  
Rampur Forest Division,  
Rampur Bushahr.  
Office Seal \_\_\_\_\_



Full title of the project: Upper Kurmi (8 MW) of M/S Vimla Hydro Power Pvt. Ltd.  
File No.: FP/HP/HYD/42328/2019  
Date of Proposal:

<b>BILL FOR COMPENSATORY AFFORESTATION SCHEME IN RESPECT OF DIVERSION FOR LAND FOR CONSTRUCTION OF UPPER KURMI 8.0MW SHEP WITHIN THE JURISDICTION OF RAMPUR FOREST DIVISION</b>					
Area proposed for compensatory afforestation		15.00 ha.			
Name of the proposed plantation area		UF-Nirath -5 hac., UF-Doi - 5 hac. UF-Doi - 5 hac. Total 15.00 hac.			
Plants to be planted per hectare		1100			
Total number of plants to be planted		16500			
Species to be planted		Conifer and other broad leave species			
Particulars of works	Unit cost at wage structure for 2018-19 onwards	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 1 hectare	102300	2020-21	10%	112530	1687950
1 <sup>st</sup> year maintenance	14850	2021-22	20%	17820	267300
2 <sup>nd</sup> year maintenance	9960	2022-23	30%	12948	194220
3 <sup>rd</sup> year maintenance	5070	2023-24	40%	7098	106470
4 <sup>th</sup> year maintenance	5070	2024-25	50%	7605	114075
5 <sup>th</sup> year maintenance	5070	2025-26	60%	8112	121680
6 <sup>th</sup> year maintenance	5070	2026-27	70%	8619	129285
7 <sup>th</sup> year maintenance	5070	2027-28	80%	9126	136890
8 <sup>th</sup> year maintenance	5070	2028-29	90%	9633	144495
9 <sup>th</sup> year maintenance	5070	2029-30	100%	10140	152100
10 <sup>th</sup> year maintenance	5070	2030-31	110%	10647	159705
<b>Total =</b>					<b>3214170</b>
Contingencies charges @ 5%					160709
<b>Total cost of CA scheme</b>					<b>3374879</b>
Departmental charges @ 17.5%					562480
<b>G.Total</b>					<b>3937358</b>

  
Dy Conservator of Forests,  
Rampur Forest Division,  
Rampur Bushahr.