

**File No.:**

**Date of Proposal:**

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

Detail scheme for compensatory afforestation to be carried out in lieu of 07-37-22 Hac. Of forest area to be diverted for **additional forest land in favour of HPPCL for Shongtong-Karchham HEP.**  
Tehsil Kalpa in Kinnaur District.

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

District: Kinnaur

Village: Kalpa

Tehsil: Kalpa

Name of Forest Division: Kinnaur

Range: Kalpa

Block No./Compartment No.

Survey No. 531/2

UF-33 =10ha. (Kalpa Range)

531/2

UF-33 =5ha. (Kalpa Range)

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:- Loam moderately deep
- v. Topography:- a. Hilly  
b. Slope: Steep
- vi. Whether the area is bearing any root stock of vegetation:- Yes

### 3. Plantation Model:-

Copy of the approval 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 enclosed.

## 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-33 =10 ha. (Kalpa Range) & UF-33 = 5 ha.(Kalpa Range) in two 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:-** 3.0 mtrs x 3.0 mts
- c) **Species:-** Conifer & other broad leaf species.



- (12)
- d) **Plantation Method:-** Nursery grown one year old plant (in polythene bags) will be planted in 30x30x30 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 Work:-** 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 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 Kalpa.
- h) Any other information:- Nil

Divisional Forest Officer  
Kinnaur Forest Division  
At Reckong Peo (H.P.)

(Reginald Royston A) IFS  
Dy. Conservator of Forests



Cost for Compensatory Afforestation (CA) Scheme over 15.00 ha. forest Land of lieu of diversion of 07-37-22 ha. of forest land proposed to be diverted for construction of Shongtong-Karchham 450 MW within the jurisdiction of Kinnaur Forest Division

Area proposed to be diverted : 15.00 Ha.  
 Total number of plants to be planted : 1100 Nos. per ha.  
 Area proposed for plantation : UF- 33 =10Ha. Kalpa Range & UF-33 =5 Ha. Kalpa range

Species to be Planted	Coniferous and other broad live species				
Particulars of works	Unit cost at wage Structure for 2021-22 on wards	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 15.00 ha.	134644	2022-23	10%	148108.4	2221626
1st year maintenance	11380	2022-24	20%	13656	204840
2nd year maintenance	7675	2022-25	30%	9978	149663
3rd year maintenance	3975	2022-26	40%	5565	83475
4th year maintenance	3975	2022-27	50%	5963	89438
5th year maintenance	3975	2022-28	60%	6360	95400
6th year maintenance	3975	2022-29	70%	6758	101363
7th year maintenance	3975	2022-30	80%	7155	107325
8th year maintenance	3975	2022-31	90%	7553	113288
9th year maintenance	3975	2022-32	100%	7950	119250
10th year maintenance	3975	2022-33	110%	8348	125213
<b>Total Rs.</b>					<b>3410879</b>
Contingency Charges 5%					170544
<b>Total Rs.</b>					<b>3581422</b>
Departmental Charges 17.5%					626749
<b>Grand Total Rs.</b>					<b>4208171</b>

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