

Full titled of the project: Additional Forest diversion case of Integrated Kashang HEP
Stage-II & III

Fill No.: FP/HP/HYD/49387/2020

Date of proposal: 11.09.2020

CHECK LIST SERIAL NUMBER - 18
SCHEME FOR COMPENSATORY AFFORESTATION.

Detail scheme for compensatory forestation to be carried out in lieu of 0.4148 ha. of forest area to be diverted for additional forest land in favour of HPPCL for Integrated Kashang Stage-II & III HEP, Tehsil Kalpa, Distt. Kinnaur (HP).

1. Detail of degraded forest land/non forest land:-

District:-	Kinnaur	Village:-	Khawangi
Tehsil	Kalpa		
Name of Forest Division:-	Kinnaur	Range:-	Kalpa
Block No./Compartment No. /Survey No. H 44A6 (53 1/6)		UPMohal =	Khawangi
Area to be afforested:		0.8296 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 indentified form-A, then what is the distance of CA site from the adjoining forest boundary:- Not applicable
- (iv) **Soil type:** - Clayey foam.
- (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 approval compensatory afforestation scheme/model showing component wise physical and financial break up is enclosed.

Cost for Compensatory Afforestation (CA) Scheme over 0.8926 ha. forest Land of lieu of diversion of 0.4148 ha. of forest land proposed to be diverted for construction of Intergrated Kashang HEP Stage-II & III within the jurisdiction of Kinnaur Forest Division

Area proposed to be diverted : 0.8296 ha
 Total number of plants to be planted : 1100 Nos. per ha.
 Area proposed for plantation : UF- Khawangi

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 0.8296 ha.	112810	2022-23	10%	124091	102946
1st year maintenance	11380	2022-24	20%	13656	11329
2nd year maintenance	7675	2022-25	30%	9978	8277
3rd year maintenance	3975	2022-26	40%	5565	4617
4th year maintenance	3975	2022-27	50%	5963	4946
5th year maintenance	3975	2022-28	60%	6360	5276
6th year maintenance	3975	2022-29	70%	6758	5606
7th year maintenance	3975	2022-30	80%	7155	5936
8th year maintenance	3975	2022-31	90%	7553	6266
9th year maintenance	3975	2022-32	100%	7950	6595
10th year maintenance	3975	2022-33	110%	8348	6925
Total Rs.					168719
Contingency Charges 5%					8436
Total Rs.					177155
Departmental Charges 17.5%					31002
Grand Total Rs.					208158

(Reginald Royston A) IFS
 Dy. Conservator of Forests

4. Schedule of plantation Programme :-

Detail of year wise break-up of requirement of funds is enclosed.

5. Technical details:-

Technical detail of compensatory afforestation scheme are as follows : -

- (a) **General Details:** - An area of 0.8296 ha. will be taken up for planting under compensatory afforestation scheme in Up Mohal Khawangi, (Kalpa Range) in one 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) **Spacemen:** - 3.0 mtr. x 3.0 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 7 years in which beating up of failures will be done. The plantation will be rain fed.
- (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 department 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.

f. and
DGM (Civil)-cum-HOP
S. H. P. Kashang HEP
HPPCL, Reckong Peo.
Stage-II & III, Integrated Kashang HEP,
Kinfe'd Building, HPPCL,

[Signature]
Divisional Forest Officer,
Kinnaur Forest Division,
at Reckong Peo, H.P.