

Full Title of Project:

49
Diversion of 0.8223 Ha. of Forest Land for Construction of Jiwa-II SHEP 1.75 MW,
Sub-Tehsil Sainj, GHNP Shamshi Forest Division, Distt. Kullu (H.P.)

File No.

Proposal No.

Date of Proposal

:
: FP/HP/HYD/147118/2021
:

CHECK LIST SERIAL NUMBER 18
"SCHEME FOR COMPENSATORY AFFORESTATION"

Detailed Scheme for Compensatory Afforestation to be carried diversion of forest land 0.8223 X 2 = 1.6446 or say 1.70 ha. for the *construction of Jiwa-II (1.75 MW) SEHP* with in jurisdiction under Jiwanal Forest Range, GHNP, Shamshi Forest division in Kullu District.

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

Village:- **Dharmanda-II/ Karahila(UPF) 124** Sub-Tehsil:- **Sainj** District:- **Kullu**

Name of Forest Division: - **GHNP, Shamshi** Range:- **Jiwanal**

Block/ Compartment/ Survey No. **Karahila(UPF) 124/ 53E/5**

Area to be afforested:- **1.70 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:- **No**
- iii. In case of non forest area identified in from A, then what is the distance of CA site from the adjoining forest boundary :-
- iv. Soil type:- **loamy**
- v. Topography :- a) Hilly
b) **Medium**
- vi. Whether the area is bearing any root stock of vegetation:- **yes**

Plantation Model:- Departmental

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

3. Schedule of Plantation Programme:-

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

1 Schedule for Plantation Programme.

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

Sr. No.	Year	Rate
	New Plantation	99820
1	1st Year Maintenance	14230
2	2nd Year Maintenance	11540
3	3rd Year Maintenance	8870
4	4th Year Maintenance	8870
5	5th Year Maintenance	8870
6	6th Year Maintenance	8870
7	7th Year Maintenance	8870
8	8th Year Maintenance	8870
9	9th Year Maintenance	8870
10	10th Year Maintenance	8870
Grand Total		196550
Area to be taken for Compensatory Afforestation (0.8223 Hectare X 2 Times)		0.8223 Ha.
Area to be taken for Compensatory Afforestation (0.8223 Hectare X 2 Times)		1.6446
Or Say		1.70 ha.
Tree to be Planted Per Hectare		1000
Tree to be Planted In Total Compensatory Afforestation Area		1700
Cost of Compensatory Afforestation		334135
Add 17.50 % Departmental Charged		58473.63
Add 5% contingency charges		16706.75
Grand Total		409315.38
Or Say		409320

4. Technical details:-

Technical details of compensatory afforestation scheme are as follows:-

a) **General Details:** - The land bank identified in Karahila (UPF) 124 is bank patches where coniferous species will be planted at the pit 30x30X30 cm size respectively. The area will be protected by barbed wire fencing .

b) **Spacing :-**

Coniferous Deo 3X3 mtr

(c) **Species :-** Coniferous

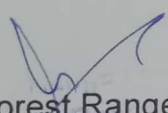
(d) **Plantation Method:-** Contour Planting.

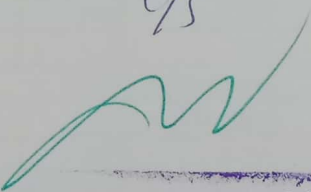
(e) **Soil Moisture Conservation Works:-** M.R.I. included in the C.A

(f) **Protection (Fencing , Watchman, People's Participation etc.)**

(g) **Proposed Monitoring Mechanism :-** Department .

(h) **Any other information :-** Nil


Forest Range Officer (Wildlife)
Jiwanal Forest Range

C/S

Divisional Forest Officer
GHNP, Shamshi Distt. Kullu (HP)
Great Himalayan National Park
Shamshi, Kullu (H.P.)

Check List Sr. No-18

Detailed Scheme for Compensatory Afforestation to be carried out for the diversion of 0.8223 hac of forest land for the construction of JIWA-II (1.75 MW) SHP within the jurisdiction under Forest Range Jiwa Nallah, GHNP Forest Division at Shamshi. (Total 1700 trees / plants to be planted over 1.70 hectare). (COST MODEL: 1000 PLANTS PER HECTARE)

Sr. No.	Particulars of Works	Unit	Qty.	Mandays involved	Amount at wage rate of Rs. 300/- for non Tribal areas.
A	Survey, Demarcation & Fencing				
1	Survey and demarcation of plantation area	Hec.	1	0.67	201.00
2	Preparation/ Purchase of RCC fence post	Nos.	50	Rs.358.00 per No.	17900.00
3	Carriage of RCC Fence Post upto 165 cm long over a distance of 2KM uphill/downhill	Nos.	50	22.33	6699.00
4	Preparation/Digging of holes of 20x30x50xcm for fixing of fence	Nos.	50	3.02	906.00
5	Fixing of RCC fence posts in concrete i/c strutting	Nos.	50	2.39	717.00
6	Carriage of B/wire over distance 2Km uphill/downhill	per Km per qntl.	0.75	0.74	222.00
7	Stretching and fixing of Barbed wire in 4 stands	Rmt.	600	19.2	5760.00
8	Interlacing of thorny bushes along the fence	Rmt.	150	4.09	1227.00
9	Cost of Barbed wire	Qntl.	0.75	Rs.6510.00 per Qntl..	4882.50
Total-A/Survey, Demarcation & Fencing					38514.50
Or Say					38520.00
B	Planting				
1	Bush cutting in strip (3mX3m)	Hec.	1	7.95	2385.00
2	Digging of pits of 45x45x45cm size	Nos.	1000	63.60	19080.00
3	Filling of pits of 45x45x45cm size	Nos.	1000	18.13	5439.00
4	Carriage of plants in P/bags over distance 2 Km uphill/downhill.	Nos.	1000	25.33	7599.00
5	Planting of plants raised in P/bags	Nos.	1000	14.53	4359.00
6	Construction of Inspection Path	Rmt.	100	7.33	2199.00
7	Cost of Sign Board, Carriage & Fixing	No.	1	LS	450.00
Total:- B/Planting					41511.00
Or Say					41520.00
C	Cost of P/bags plants	Nos.	1000	19.78	19780.00
Total Cost of New Plantation (A+B+C)					99820.00
Or Say					99820.00
D	1st Year Maintenance (30% Beating up)				
1	Re-digging of pits 45x45x45 cm	Nos.	300	9.53	2859.00
2	Filling of pits 45x45x45cm	Nos.	300	5.43	1629.00
3	Carriage of plants in P/bags over distance 2 Km uphill/downhill/plant	Nos.	300	4.36	1308.00
4	Planting of plants raised in P/bags	Nos.	300	7.60	2280.00
5	Repair of fencing	Rmt	60	0.72	216.00
6	Cost of P/bags plants	Nos.	300	19.78	5934.00
G. Total					14226.00
Or Say					14230.00

2nd Year Maintenance (20% Beating up)					
1	Re-digging of pits 45x45x45 cm	Nos.	200	6.36	1908.00
2	Filling of pits 45x45x45cm	Nos.	200	3.62	1086.00
3	Carriage of plants in P/bags over distance 2 Km uphill/downhill.	Nos.	200	2.90	870.00
4	Planting of P/bags plants	Nos.	200	5.06	1518.00
5	Repair of fencing	Rmt.	60	0.72	216.00
6	Cost of P/bags plants	No.	200	19.78	5934.00
G. Total					11532.00
Or Say					11540.00
3rd Year Maintenance (10% Beating up)					
1	Re-digging of pits 45x45x45 cm	Nos.	100	3.18	954.00
2	Filling of pits 45x45x45cm	Nos.	100	1.80	540.00
3	Carriage of plants in P/bags over distance 2 Km uphill/downhill.	Nos.	100	1.45	435.00
4	Planting of P/bag plants	Nos.	100	2.63	789.00
5	Repair of fencing	Rmt.	60	0.72	216.00
6	Cost of P/bags plants	Nos.	100	19.78	5934.00
Total					8868.00
Or Say					8870.00
4th Year Maintenance (10% Beating up)					
1	Re-digging of pits 45x45x45 cm	Nos.	100	3.18	954.00
2	Filling of pits 45x45x45cm	Nos.	100	1.80	540.00
3	Carriage of plants in P/bags over distance 2 Km uphill/downhill.	Nos.	100	1.45	435.00
4	Planting of P/bag plants	Nos.	100	2.63	789.00
5	Repair of fencing	Rmt.	60	0.72	216.00
6	Cost of P/bags plants	Nos.	100	19.78	5934.00
Total					8868.00
Or Say					8870.00
5th Year Maintenance (10% Beating up)					
1	Re-digging of pits 45x45x45 cm	Nos.	100	3.18	954.00
2	Filling of pits 45x45x45cm	Nos.	100	1.80	540.00
3	Carriage of plants in P/bags over distance 2 Km uphill/downhill.	Nos.	100	1.45	435.00
4	Planting of P/bag plants	Nos.	100	2.63	789.00
5	Repair of fencing	Rmt.	60	0.72	216.00
6	Cost of P/bags plants	Nos.	100	19.78	5934.00
Total					8868.00
Or Say					8870.00
6th Year Maintenance (10% Beating up)					
1	Re-digging of pits 45x45x45 cm	Nos.	100	3.18	954.00
2	Filling of pits 45x45x45cm	Nos.	100	1.80	540.00
3	Carriage of plants in P/bags over distance 2 Km uphill/downhill.	Nos.	100	1.45	435.00
4	Planting of P/bag plants	Nos.	100	2.63	789.00
5	Repair of fencing	Rmt.	60	0.72	216.00
6	Cost of P/bags plants	Nos.	100	19.78	5934.00
Total					8868.00
Or Say					8870.00
7th Year Maintenance (10% Beating up)					
1	Re-digging of pits 45x45x45 cm	Nos.	100	3.18	954.00
2	Filling of pits 45x45x45cm	Nos.	100	1.80	540.00
3	Carriage of plants in P/bags over distance 2 Km uphill/downhill.	Nos.	100	1.45	435.00
4	Planting of P/bag plants	Nos.	100	2.63	789.00
5	Repair of fencing	Rmt.	60	0.72	216.00
6	Cost of P/bags plants	Nos.	100	19.78	5934.00
Total					8868.00
Or Say					8870.00

8th Year Maintenance (10% Beating up)					
1	Re-digging of pits 45x45x45 cm	Nos.	100	3.18	954.00
2	Filling of pits 45x45x45cm	Nos.	100	1.80	540.00
3	Carriage of plants in P/bags over distance 2 Km uphill/downhill.	Nos.	100	1.45	435.00
4	Planting of P/bag plants	Nos.	100	2.63	789.00
5	Repair of fencing	Rmt.	60	0.72	216.00
6	Cost of P/bags plants	Nos.	100	19.78	5934.00
Total					8868.00
Or Say					8870.00
9th Year Maintenance (10% Beating up)					
1	Re-digging of pits 45x45x45 cm	Nos.	100	3.18	954.00
2	Filling of pits 45x45x45cm	Nos.	100	1.80	540.00
3	Carriage of plants in P/bags over distance 2 Km uphill/downhill.	Nos.	100	1.45	435.00
4	Planting of P/bag plants	Nos.	100	2.63	789.00
5	Repair of fencing	Rmt.	60	0.72	216.00
6	Cost of P/bags plants	Nos.	100	19.78	5934.00
Total					8868.00
Or Say					8870.00
10th year Maintenance (10% Beating up)					
1	Re-digging of pits 45x45x45 cm	Nos.	100	3.18	954.00
2	Filling of pits 45x45x45cm	Nos.	100	1.80	540.00
3	Carriage of plants in P/bags over distance 2 Km uphill/downhill.	Nos.	100	1.45	435.00
4	Planting of P/bag plants	Nos.	100	2.63	789.00
5	Repair of fencing	Rmt.	60	0.72	216.00
6	Cost of P/bags plants	Nos.	100	19.78	5934.00
Total					8868.00
Or Say					8870.00
Total:- D/Maintenance Cost of 10 years					96730.00
Total Cost of New Plantation + Maintenance for 1000 plants per Hectare					196550.00
Area to be taken for Diversion (In Hectare)					0.8223
Area to be taken for Compensatory Afforestation (0.8223 Hectare X 2 Times)					1.6446
Or Say					1.7000
Tree to be Planted Per Hectare					1000
Tree to be Planted In Total Compensatory Afforestation Area					1700
Cost of Compensatory Afforestation					334135.00
Total					334135.00
Departmental Charges @ 17.50%					58473.63
Contingency charges @ 5%.					16706.75
Grand Total					409315.38
Or Say					409320.00
(Rupees Four Lakhs Nine Thousand Three Hundred And Twenty Rupees Only)					

Range Forest Officer
Range Forest Officer
W/L Range Jeewa Nal

Divisional Forest Officer
GHP Shamshu Dist. Kulu (H.P.)
Shamshi, Kulu (H.P.)