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Full Title of Project : Diversion of 2.4957 Ha. of Forest Land for Construction of Pakhnoj-II SHEP 5.00 MW, Tehsil Manali, Forest Division Kullu, Distt. Kullu (H.P.)
File No. :
Proposal No. : FP/HP/HYD/145089/2021
Date of Proposal : 20/04/2022

CHECK LIST SERIAL NUMBER 18
"SCHEME FOR COMPENSATORY AFFORESTATION"

Detailed Scheme for Compensatory Afforestation to be carried diversion of forest land $2.4957 \times 2 = 4.9914$ or say 5.0 ha. for the *construction of PAKHNOJ-II (5.00 MW) SEHP* with in jurisdiction under Nagar Range, Forest division Kullu.

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

Village:- **Soyal (Barsai Beat)** Tehsil:- **Manali** District:- **Kullu**
Name of Forest Division:- **Kullu** Range:- **Nagar**
Block/ Compartment/ Survey No. **UPF BARSAL-III**
Area to be afforested:- **5.0 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:-

Detail of year wise break up of requirement of funds is as under :-		
Sr. No.	Year	Rate
	New Plantation	117960
1	1st Year Maintenance	18320
2	2nd Year Maintenance	14870
3	3rd Year Maintenance	11410
4	4th Year Maintenance	11410
5	5th Year Maintenance	11410
6	6th Year Maintenance	11410
7	7th Year Maintenance	11410
8	8th Year Maintenance	11410
9	9th Year Maintenance	11410
10	10th Year Maintenance	11410
Grand Total		242430
Area to be taken for compensatory afforestation (in Ha.)		5.00
Cost of CA (242430 x 5.0)		1212150
Or Say		1212150
Total		1212150
Add 17.50 % Departmental Charged		212126.25
Add 5% contingency charges		60607.5
Grand Total		1484883.75
Or Say		1484890

4. Technical details:-

Technical details of compensatory afforestation scheme are as follows:-

- a) **General Details:** - The land bank indentified in Village Soyol Phati Soyol of Barsai Beat 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


Range Forest Officer
Forest Range Officer, Naggar
Nagar Forest Range


Divisional Forest Officer
Kullu Forest Division, Kullu
Divisional Forest Officer
Kullu, District Kullu, H.P.

BILL OF COMPENSATORY AFFORESTATION SCHEME

In lieu 2.4957 hectares of forest area to be diverted for the Construction of
PAKHNOJ-II (5.00 MW) SHEP in Nagar Forest Range, Forest Division Kullu,
District Kullu, Himachal Pradesh

Sr. No.	Particulars of Works	Unit	Qty.	Mandays involved	Amount at wage rate of Rs. 350/- for non Tribal areas.
A	Survey, Demarcation & Fencing				
1	Survey and demarcation of plantation area	Hec.	1	0.68	238.00
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	7815.50
4	Preparation/Digging of holes of 20x30x50cm for fixing of fence	Nos.	50	3.02	1057.00
5	Fixing of RCC fence posts in concrete i/c strutting	Nos.	50	2.39	836.50
6	Carriage of B/wire over distance 2Km uphill/downhill	per Km per qntl.	0.75	0.74	259.00
7	Stretching and fixing of Barbed wire in 4 stands	Rmt.	600	19.2	6720.00
8	Interlacing of thorny bushes along the fence	Rmt.	150	4.09	1431.50
9	Cost of Barbed wire	Qntl.	0.75	Rs.6510.00 per Qntl..	4882.50
Total-A/Survey, Demarcation & Fencing					41140.00
Or Say					41140.00
B	Planting				
1	Bush cutting in strip (3mX3m)	Hec.	1	7.95	2782.50
2	Digging of pits of 45x45x45cm size	Nos.	1100	69.96	24486.00
3	Filling of pits of 45x45x45cm size	Nos.	1100	19.95	6982.50
4	Carriage of plants in P/bags over distance 2 Km uphill/downhill.	Nos.	1100	27.87	9754.50
5	Planting of plants raised in P/bags	Nos.	1100	15.99	5596.50
6	Construction of Inspection Path	Rmt.	100	7.33	2565.50
7	Cost of Sign Board, Carriage & Fixing	No.	1	LS	450.00
Total:- B/Planting					52617.50
Or Say					52620.00
C	Cost of P/bags plants	Nos.	1100	22	24200.00
Total Cost of New Plantation (A+B+C)					117960.00
Or Say					117960.00
D	1st Year Maintenance (30% Beating up)				
1	Re-digging of pits 45x45x45 cm	Nos.	330	10.49	3671.50
2	Filling of pits 45x45x45cm	Nos.	330	5.98	2093.00
3	Carriage of plants in P/bags over distance 2 Km uphill/downhill/plant	Nos.	330	4.80	1680.00
4	Planting of plants raised in P/bags	Nos.	330	8.36	2926.00
5	Repair of fencing	Rmt	60	0.72	252.00
6	Cost of P/bags plants	Nos.	330	22	7700.00
G. Total					18322.50
Or Say					18320.00

2nd Year Maintenance (20% Beating up)					
1	Re-digging of pits 45x45x45 cm	Nos.	220	7.0	2450.00
2	Filling of pits 45x45x45cm	Nos.	220	3.99	1396.50
3	Carriage of plants in P/bags over distance 2 Km uphill/downhill.	Nos.	220	3.20	1120.00
4	Planting of P/bags plants	Nos.	220	5.57	1949.50
5	Repair of fencing	Rmt.	60	0.72	252.00
6	Cost of P/bags plants	No.	220	22	7700.00
G. Total					14868.00
Or Say					14870.00
3rd Year Maintenance (10% Beating up)					
1	Re-digging of pits 45x45x45 cm	Nos.	110	3.5	1225.00
2	Filling of pits 45x45x45cm	Nos.	110	1.99	696.50
3	Carriage of plants in P/bags over distance 2 Km uphill/downhill.	Nos.	110	1.60	560.00
4	Planting of P/bag plants	Nos.	110	2.79	976.50
5	Repair of fencing	Rmt.	60	0.72	252.00
6	Cost of P/bags plants	Nos.	110	22	7700.00
Total					11410.00
Or Say					11410.00
4th Year Maintenance (10% Beating up)					
1	Re-digging of pits 45x45x45 cm	Nos.	110	3.5	1225.00
2	Filling of pits 45x45x45cm	Nos.	110	1.99	696.50
3	Carriage of plants in P/bags over distance 2 Km uphill/downhill.	Nos.	110	1.60	560.00
4	Planting of P/bag plants	Nos.	100	2.79	976.50
5	Repair of fencing	Rmt.	60	0.72	252.00
6	Cost of P/bags plants	Nos.	110	22	7700.00
Total					11410.00
Or Say					11410.00
5th Year Maintenance (10% Beating up)					
1	Re-digging of pits 45x45x45 cm	Nos.	110	3.5	1225.00
2	Filling of pits 45x45x45cm	Nos.	110	1.99	696.50
3	Carriage of plants in P/bags over distance 2 Km uphill/downhill.	Nos.	110	1.60	560.00
4	Planting of P/bag plants	Nos.	110	2.79	976.50
5	Repair of fencing	Rmt.	60	0.72	252.00
6	Cost of P/bags plants	Nos.	110	22	7700.00
Total					11410.00
Or Say					11410.00
6th Year Maintenance (10% Beating up)					
1	Re-digging of pits 45x45x45 cm	Nos.	110	3.5	1225.00
2	Filling of pits 45x45x45cm	Nos.	110	1.99	696.50
3	Carriage of plants in P/bags over distance 2 Km uphill/downhill.	Nos.	110	1.60	560.00
4	Planting of P/bag plants	Nos.	110	2.79	976.50
5	Repair of fencing	Rmt.	60	0.72	252.00
6	Cost of P/bags plants	Nos.	110	22	7700.00
Total					11410.00
Or Say					11410.00

7th Year Maintenance (10% Beating up)					
1	Re-digging of pits 45x45x45 cm	Nos.	110	3.5	1225.00
2	Filling of pits 45x45x45cm	Nos.	110	1.99	696.50
3	Carriage of plants in P/bags over distance 2 Km uphill/downhill.	Nos.	110	1.60	560.00
4	Planting of P/bag plants	Nos.	110	2.79	976.50
5	Repair of fencing	Rmt.	60	0.72	252.00
6	Cost of P/bags plants	Nos.	110	22	7700.00
Total					11410.00
Or Say					11410.00
8th Year Maintenance (10% Beating up)					
1	Re-digging of pits 45x45x45 cm	Nos.	110	3.5	1225.00
2	Filling of pits 45x45x45cm	Nos.	110	1.99	696.50
3	Carriage of plants in P/bags over distance 2 Km uphill/downhill.	Nos.	110	1.60	560.00
4	Planting of P/bag plants	Nos.	110	2.79	976.50
5	Repair of fencing	Rmt.	60	0.72	252.00
6	Cost of P/bags plants	Nos.	110	22	7700.00
Total					11410.00
Or Say					11410.00
9th Year Maintenance (10% Beating up)					
1	Re-digging of pits 45x45x45 cm	Nos.	110	3.5	1225.00
2	Filling of pits 45x45x45cm	Nos.	110	1.99	696.50
3	Carriage of plants in P/bags over distance 2 Km uphill/downhill.	Nos.	110	1.60	560.00
4	Planting of P/bag plants	Nos.	110	2.79	976.50
5	Repair of fencing	Rmt.	60	0.72	252.00
6	Cost of P/bags plants	Nos.	110	22	7700.00
Total					11410.00
Or Say					11410.00
10th year Maintenance (10% Beating up)					
1	Re-digging of pits 45x45x45 cm	Nos.	110	3.5	1225.00
2	Filling of pits 45x45x45cm	Nos.	110	1.99	696.50
3	Carriage of plants in P/bags over distance 2 Km uphill/downhill.	Nos.	110	1.60	560.00
4	Planting of P/bag plants	Nos.	110	2.79	976.50
5	Repair of fencing	Rmt.	60	0.72	252.00
6	Cost of P/bags plants	Nos.	110	22	7700.00
Total					11410.00
Or Say					11410.00
Total:- D/Maintenance Cost of 10 years					124470.00
Total Cost of New Plantation + Maintenance for 1100 plants per Hectare					242430.00
Area to be taken for compensatory afforestation (in Ha.)					5.00
Cost of CA (242430 x 5.0)					1212150.0000
Or Say					1212150
Total					1212150.00
Add 17.50 % Departmental Charged					212126.25
Add 5% contingency charges					60607.50
Grand Total					1484883.75
Or Say					1484890.00
(Fourteen Lakhs Eighty Four Thousand Eight Hundred And Ninety Rupees Only)					

[Signature]
Range Forest Officer
 Forest Range Naggar

[Signature]
Divisional Forest Officer
 Kullu Forest Division Kullu