

**Full Title of Project:** Diversion of 0.7995 Ha. of Forest Land for Construction of SAJLA SHEP 2.00 MW, Tehsil Manali, Forest Division Kullu, Distt. Kullu (H.P.)

File No. :

Proposal No. : FP/HP/HYD/150023/2021

Date of Proposal : 18/2/2022

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

Detailed Scheme for Compensatory Afforestation to be carried diversion of forest land 0.7995 x 2 = 1.599 or say 1.60 ha. for the *construction of SAJLA (2.00 MW) SEHP* with in jurisdiction under Nagar Range, Forest division Kullu.

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

Village:- **Sajla (Padri Chalon)** Tehsil:- **Manali** District:- **Kullu**

Name of Forest Division:- **Kullu** Range:- **Nagar**

Block/ Compartment/ Survey No. **PADRI CHALON DPF-III**

Area to be afforested:- **1.60 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**

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	109300
1	1st Year Maintenance	16600
2	2nd Year Maintenance	13460
3	3rd Year Maintenance	10350
4	4th Year Maintenance	10350
5	5th Year Maintenance	10350
6	6th Year Maintenance	10350
7	7th Year Maintenance	10350
8	8th Year Maintenance	10350
9	9th Year Maintenance	10350
10	10th Year Maintenance	10350
Grand Total		222160
Area to be taken for Compensatory Afforestation (0.7995 Hectare X 2 Times)		0.7995 Ha.
Area to be taken for Compensatory Afforestation (0.7995 Hectare X 2 Times)		1.599
Or Say		1.60 ha.
Tree to be Planted Per Hectare		1000
Tree to be Planted In Total Compensatory Afforestation Area		1600
Cost of Compensatory Afforestation		355456
Add 17.50 % Departmental Charged		62204.80
Add 5% contingency charges		17772.8
Grand Total		435433.60
Or Say		435440

#### 4. Technical details:-

Technical details of compensatory afforestation scheme are as follows:-

a) **General Details:** - The land bank indentified in Khakhnal Block. 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  
Nagar Forest Range  
Forest Range Nagar

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

## Check List Sr. No-18

Detailed Scheme for Compensatory Afforestation to be carried out for the diversion of 0.7995 hac of forest land for the construction of SAJLA (2.00 MW) SHP within the jurisdiction under Forest Range Nagar, Forest Division Kullu. (Total 1600 trees / plants to be planted over 1.60 hectare). (COST MODEL: 1000 PLANTS PER HECTARE)

Sr. No.	Particulars of Works	Unit	Qty.	Mandays involved	Amount at wage rate of Rs. 350/- for non Tribal areas.
<b>A</b>	<b>Survey, Demarcation &amp; Fencing</b>				
1	Survey and demarcation of plantation area	Hec.	1	0.67	234.50
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 20x30x50xcm 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
<b>Total-A/Survey, Demarcation &amp; Fencing</b>					<b>41136.50</b>
<b>Or Say</b>					<b>41140.00</b>
<b>B</b>	<b>Planting</b>				
1	Bush cutting in strip (3mX3m)	Hec.	1	7.95	2782.50
2	Digging of pits of 45x45x45cm size	Nos.	1000	63.60	22260.00
3	Filling of pits of 45x45x45cm size	Nos.	1000	18.13	6345.50
4	Carriage of plants in P/bags over distance 2 Km uphill/downhill.	Nos.	1000	25.33	8865.50
5	Planting of plants raised in P/bags	Nos.	1000	14.53	5085.50
6	Construction of Inspection Path	Rmt.	100	7.33	2565.50
7	Cost of Sign Board, Carriage & Fixing	No.	1	LS	450.00
<b>Total:- B/Planting</b>					<b>48354.50</b>
<b>Or Say</b>					<b>48360.00</b>
<b>C</b>	<b>Cost of P/bags plants</b>	Nos.	1000	19.78	19780.00
<b>Total Cost of New Plantation (A+B+C)</b>					<b>109280.00</b>
<b>Or Say</b>					<b>109300.00</b>
<b>D</b>	<b>1st Year Maintenance ( 30% Beating up)</b>				
1	Re-digging of pits 45x45x45 cm	Nos.	300	9.53	3335.50
2	Filling of pits 45x45x45cm	Nos.	300	5.43	1900.50
3	Carriage of plants in P/bags over distance 2 Km uphill/downhill/plant	Nos.	300	4.36	1526.00
4	Planting of plants raised in P/bags	Nos.	300	7.60	2660.00
5	Repair of fencing	Rmt.	60	0.72	252.00
6	Cost of P/bags plants	Nos.	300	19.78	6923.00
<b>G. Total</b>					<b>16597.00</b>
<b>Or Say</b>					<b>16600.00</b>

<b>2nd Year Maintenance (20% Beating up)</b>					
1	Re-digging of pits 45x45x45 cm	Nos.	200	6.36	2226.00
2	Filling of pits 45x45x45cm	Nos.	200	3.62	1267.00
3	Carriage of plants in P/bags over distance 2 Km uphill/downhill.	Nos.	200	2.90	1015.00
4	Planting of P/bags plants	Nos.	200	5.06	1771.00
5	Repair of fencing	Rmt.	60	0.72	252.00
6	Cost of P/bags plants	No.	200	19.78	6923.00
				<b>G. Total</b>	<b>13454.00</b>
				<b>Or Say</b>	<b>13460.00</b>
<b>3rd Year Maintenance (10% Beating up)</b>					
1	Re-digging of pits 45x45x45 cm	Nos.	100	3.18	1113.00
2	Filling of pits 45x45x45cm	Nos.	100	1.80	630.00
3	Carriage of plants in P/bags over distance 2 Km uphill/downhill.	Nos.	100	1.45	507.50
4	Planting of P/bag plants	Nos.	100	2.63	920.50
5	Repair of fencing	Rmt.	60	0.72	252.00
6	Cost of P/bags plants	Nos.	100	19.78	6923.00
				<b>Total</b>	<b>10346.00</b>
				<b>Or Say</b>	<b>10350.00</b>
<b>4th Year Maintenance (10% Beating up)</b>					
1	Re-digging of pits 45x45x45 cm	Nos.	100	3.18	1113.00
2	Filling of pits 45x45x45cm	Nos.	100	1.80	630.00
3	Carriage of plants in P/bags over distance 2 Km uphill/downhill.	Nos.	100	1.45	507.50
4	Planting of P/bag plants	Nos.	100	2.63	920.50
5	Repair of fencing	Rmt.	60	0.72	252.00
6	Cost of P/bags plants	Nos.	100	19.78	6923.00
				<b>Total</b>	<b>10346.00</b>
				<b>Or Say</b>	<b>10350.00</b>
<b>5th Year Maintenance (10% Beating up)</b>					
1	Re-digging of pits 45x45x45 cm	Nos.	100	3.18	1113.00
2	Filling of pits 45x45x45cm	Nos.	100	1.80	630.00
3	Carriage of plants in P/bags over distance 2 Km uphill/downhill.	Nos.	100	1.45	507.50
4	Planting of P/bag plants	Nos.	100	2.63	920.50
5	Repair of fencing	Rmt.	60	0.72	252.00
6	Cost of P/bags plants	Nos.	100	19.78	6923.00
				<b>Total</b>	<b>10346.00</b>
				<b>Or Say</b>	<b>10350.00</b>
<b>6th Year Maintenance (10% Beating up)</b>					
1	Re-digging of pits 45x45x45 cm	Nos.	100	3.18	1113.00
2	Filling of pits 45x45x45cm	Nos.	100	1.80	630.00
3	Carriage of plants in P/bags over distance 2 Km uphill/downhill.	Nos.	100	1.45	507.50
4	Planting of P/bag plants	Nos.	100	2.63	920.50
5	Repair of fencing	Rmt.	60	0.72	252.00
6	Cost of P/bags plants	Nos.	100	19.78	6923.00
				<b>Total</b>	<b>10346.00</b>
				<b>Or Say</b>	<b>10350.00</b>
<b>7th Year Maintenance (10% Beating up)</b>					
1	Re-digging of pits 45x45x45 cm	Nos.	100	3.18	1113.00
2	Filling of pits 45x45x45cm	Nos.	100	1.80	630.00
3	Carriage of plants in P/bags over distance 2 Km uphill/downhill.	Nos.	100	1.45	507.50
4	Planting of P/bag plants	Nos.	100	2.63	920.50
5	Repair of fencing	Rmt.	60	0.72	252.00
6	Cost of P/bags plants	Nos.	100	19.78	6923.00
				<b>Total</b>	<b>10346.00</b>
				<b>Or Say</b>	<b>10350.00</b>

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<b>8th Year Maintenance (10% Beating up)</b>					
1	Re-digging of pits 45x45x45 cm	Nos.	100	3.18	1113.00
2	Filling of pits 45x45x45cm	Nos.	100	1.80	630.00
3	Carriage of plants in P/bags over distance 2 Km uphill/downhill.	Nos.	100	1.45	507.50
4	Planting of P/bag plants	Nos.	100	2.63	920.50
5	Repair of fencing	Rmt.	60	0.72	252.00
6	Cost of P/bags plants	Nos.	100	19.78	6923.00
<b>Total</b>					<b>10346.00</b>
<b>Or Say</b>					<b>10350.00</b>
<b>9th Year Maintenance (10% Beating up)</b>					
1	Re-digging of pits 45x45x45 cm	Nos.	100	3.18	1113.00
2	Filling of pits 45x45x45cm	Nos.	100	1.80	630.00
3	Carriage of plants in P/bags over distance 2 Km uphill/downhill.	Nos.	100	1.45	507.50
4	Planting of P/bag plants	Nos.	100	2.63	920.50
5	Repair of fencing	Rmt.	60	0.72	252.00
6	Cost of P/bags plants	Nos.	100	19.78	6923.00
<b>Total</b>					<b>10346.00</b>
<b>Or Say</b>					<b>10350.00</b>
<b>10th year Maintenance (10% Beating up)</b>					
1	Re-digging of pits 45x45x45 cm	Nos.	100	3.18	1113.00
2	Filling of pits 45x45x45cm	Nos.	100	1.80	630.00
3	Carriage of plants in P/bags over distance 2 Km uphill/downhill.	Nos.	100	1.45	507.50
4	Planting of P/bag plants	Nos.	100	2.63	920.50
5	Repair of fencing	Rmt.	60	0.72	252.00
6	Cost of P/bags plants	Nos.	100	19.78	6923.00
<b>Total</b>					<b>10346.00</b>
<b>Or Say</b>					<b>10350.00</b>
<b>Total:- D/Maintenance Cost of 10 years</b>					<b>112860.00</b>
<b>Total Cost of New Plantation + Maintenance for 1000 plants per Hectare</b>					<b>222160.00</b>
<b>Area to be taken for Diversion (In Hectare)</b>					<b>0.7995</b>
<b>Area to be taken for Compensatory Afforestation (0.7995Hectare X 2 Times)</b>					<b>1.5990</b>
<b>Or Say</b>					<b>1.6000</b>
<b>Tree to be Planted Per Hectare</b>					<b>1000</b>
<b>Tree to be Planted In Total Compensatory Afforestation Area</b>					<b>1600</b>
<b>Cost of Compensatory Afforestation</b>					<b>355456.00</b>
<b>Total</b>					<b>355456.00</b>
<b>Departmental Charges @ 17.50%</b>					<b>62204.80</b>
<b>Contingency charges @ 5%.</b>					<b>17772.80</b>
<b>Grand Total</b>					<b>435433.60</b>
<b>Or Say</b>					<b>435440.00</b>
<b>(Rupees Four Lakhs Thirty Five Thousand Four Hundred And Forty Only)</b>					

*[Signature]*  
 Range Forest Officer,  
 Nagar Forest Range, Naggar

*[Signature]*  
 Divisional Forest Officer,  
 Kullu District Division, Kullu