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.)

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:-
- Whether the site selected for compensatory afforestation is a land bank or not:- Yes i.
- If the CA site is other than the land bank, reasons be given:- No ii.
- In case of non forest area identified in from A, then what is the distance of CA site from the iii. adjoining forest boundary :-
- Soil type:- loamy iv.
- v. Topography :- a) Hilly
 - b) Medium
- vi. Whether the area is bearing any root stock of vegetation: ves

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:-

Sr.	of year wise break up of requirement of founds is as under :	-	
No.	Year	Rate	
	New Plantation	100200	
1	1st Year Maintenance	109300	
2	2nd Year Maintenance	16600	
3	3rd Year Maintenance	13460	
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	
		10350	
	Area to be talked for a	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		
	Add 17.50 % Departmental Charged	355456	
	Add 5% contingency charges	62204.80	
		17772.8	
	Grand Total	435433.60	
	Or Say		

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 Rangegar

Divisional Forest Officer

Kullu, District Kullu, H.P.

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

Sr. No.	Particulars of Works	Unit	Qty.	Mandays involved	Amount at wage rate of Rs. 350/- for non Tribal areas.
<u>A</u>	Survey, Demarcation & Fencing				
1	Survey and demarcation of plantation area	Hec.	1	0.67	
2	Preparation/ Purchase of RCC fence post	Nos.	50	Rs.358.00	234.50 17900.00
3	Carriage of RCC Fence Post upto 165 cm long over a distance of 2KM uphil/downhill	Nos.	50	per No. 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 struiting	Nos.	50	2.39	
6	Carriage of B/wire over distance 2Km uphil/downhill	per Km per	0.75	0.74	
7	Stretching and fixing of Barbed wire in 4 stands	Rmt.	600	19.2	
8	Interlacing of thorny bushes along the fence	Rmt.	150	4.09	
9	Cost of Barbed wire	Qntl.	0.75	Rs.6510.00 per Qntl	1431.50 4882.50
	Total-	A/Survey, D	emarcatio	n & Fencing	41136.50
				Or Say	
<u>B</u>	Planting				1121310
1	Bush cutting in strip (3mX3m)	Нес.	1	7.95	2782.50
3	Digging of pits of 45x45x45cm size	Nos.	1000	63.60	22260.00
3	Filling of pits of 45x45x45cm size	Nos.	1000	18.13	
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	2565.5
7	Cost of Sign Board, Carriage & Fixing	No.	1	L	
			Total	:- B/Planting	48354.5
	T.			Or Sa	48360.0
<u>C</u>	Cost of P/bags plants	Nos.	1000		
	Tota	al Cost of Ne	w Plantat	tion (A+B+C	109280.0
				Or Sa	109300.0
D	1st Year Maintenance (30% Beating up)			_	
1	Re-digging of pits 45x45x45 cm	Nos.	300	9.5	3 3335.5
2	Filling of pits 45x45x45cm	Nos.	300	5.4	3 1900.5
3	Carriage of plants in P/bags over distance 2 Km uphill/downhill/plant	Nos.	300	4.3	6 1526.0
4	Planting of plants raised in P/bags	Nos.	300	7.6	2660.0
5	Repair of fencing	Rmt	60	0.7	
6	Cost of P/bags plants	Nos.	300	19.7	
				G. Tot	al 16597.0
				Or Sa	

1	2nd Year Maintenance (20% Beating up)				
_	Re-digging of pits 45x45x45 cm	Nos.	200	6,36	2224 00
2	Filling of pits 45x45x45cm	Nos.	200	3.62	2226.00
3	Carriage of plants in P/bags over distance 2 Km		200	3.02	1267.00
	Jupnili/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	
6	Cost of P/bags plants	No.	200	19.78	252.00
		11107	200	G. Total	6923.00
				Or Say	13454.00
	3rd Year Maintenance (10% Beating up)			OI Say	13460.00
1	Re-digging of pits 45x45x45 cm	Nos.	100	3.18	1113.00
2	Filling of pits 45x45x45cm	Nos.	100	1.80	
3	Carriage of plants in P/bags over distance 2 Km		100	1.45	630.00
	uphill/downhill.	Nos.	100	1.45	507.50
4	Planting of P/bag plants	Nos.	100	2.62	
5	Repair of fencing		100	2.63	920.5
6	Cost of P/bags plants	Rmt.	60	0.72	252.0
	1 September 1	Nos.	100	19.78	6923.0
				Total	10346.0
	4th Year Maintenance (10% Beating up)			Or Say	10350.0
1	Re-digging of pits 45x45x45 cm	T			
2	Filling of pits 45x45x45 cm	Nos.	100	3.18	1113.0
	Carriage of plants in DA	Nos.	100	1.80	630.0
3	Carriage of plants in P/bags over distance 2 Km	Nos.	100	1.45	507.5
4	uphill/downhill.	1103.			
	Planting of P/bag plants	Nos.	100	2.63	920.5
5	Repair of fencing	Rmt.	60	0.72	252.0
6	Cost of P/bags plants	Nos.	100	19.78	6923.0
				Total	10346.0
				Or Say	10350.0
	5th Year Maintenance (10% Beating up)			OI Say	10350.0
1	Re-digging of pits 45x45x45 cm	Nos.	100	3.18	1112
2	Filling of pits 45x45x45cm	Nos.	100	1.80	1113.0
3	Carriage of plants in P/bags over distance 2 Km		100	1.45	630.0
3	uphill/downhill.	Nos.	100	1.43	507.:
4	Planting of P/bag plants	Nos.	100	2.62	
5	Repair of fencing	Rmt.	60	2.63	920.
6	Cost of P/bags plants	Nos.	_	0.72	252.
	- First	1105.	100	19.78	6923.
				Total	10346.
					10350.
_	6th Vear Maintenance (100/ Posting)			Or Say	10330.
1	6th Year Maintenance (10% Beating up)	I.		Or Say	10330.
1	Re-digging of pits 45x45x45 cm	Nos.	100	3.18	
1 2	Re-digging of pits 45x45x45 cm Filling of pits 45x45x45cm	Nos.	100		1113
	Re-digging of pits 45x45x45 cm Filling of pits 45x45x45cm Carriage of plants in P/bags over distance 2 Km	Nos.		3.18	1113 630
3	Re-digging of pits 45x45x45 cm Filling of pits 45x45x45cm Carriage of plants in P/bags over distance 2 Km uphill/downhill.	Nos.	100	3.18 1.80	1113
3	Re-digging of pits 45x45x45 cm Filling of pits 45x45x45cm Carriage of plants in P/bags over distance 2 Km uphill/downhill. Planting of P/bag plants	Nos.	100	3.18 1.80 1.45	1113 630 507
3	Re-digging of pits 45x45x45 cm Filling of pits 45x45x45cm Carriage of plants in P/bags over distance 2 Km uphill/downhill. Planting of P/bag plants Repair of fencing	Nos.	100	3.18 1.80 1.45 2.63	1113 630 507 920
3	Re-digging of pits 45x45x45 cm Filling of pits 45x45x45cm Carriage of plants in P/bags over distance 2 Km uphill/downhill. Planting of P/bag plants	Nos. Nos.	100 100 100 60	3.18 1.80 1.45 2.63 0.72	1113 630 507 920 253
2 3 4 5	Re-digging of pits 45x45x45 cm Filling of pits 45x45x45cm Carriage of plants in P/bags over distance 2 Km uphill/downhill. Planting of P/bag plants Repair of fencing	Nos. Nos. Rmt.	100 100	3.18 1.80 1.45 2.63 0.72 19.78	1113 630 507 920 252 6923
2 3 4 5	Re-digging of pits 45x45x45 cm Filling of pits 45x45x45cm Carriage of plants in P/bags over distance 2 Km uphill/downhill. Planting of P/bag plants Repair of fencing	Nos. Nos. Rmt.	100 100 100 60	3.18 1.80 1.45 2.63 0.72 19.78 Total	1113 630 507 920 252 6923
2 3 4 5	Re-digging of pits 45x45x45 cm Filling of pits 45x45x45cm Carriage of plants in P/bags over distance 2 Km uphill/downhill. Planting of P/bag plants Repair of fencing Cost of P/bags plants	Nos. Nos. Rmt.	100 100 100 60	3.18 1.80 1.45 2.63 0.72 19.78	1113 630 507 920 252 6923
2 3 4 5	Re-digging of pits 45x45x45 cm Filling of pits 45x45x45cm Carriage of plants in P/bags over distance 2 Km uphill/downhill. Planting of P/bag plants Repair of fencing Cost of P/bags plants 7th Year Maintenance (10% Beating up)	Nos. Nos. Rmt. Nos.	100 100 100 60 100	3.18 1.80 1.45 2.63 0.72 19.78 Total Or Say	1113 630 507 920 253 6923 10346
2 3 4 5 6	Re-digging of pits 45x45x45 cm Filling of pits 45x45x45cm Carriage of plants in P/bags over distance 2 Km uphill/downhill. Planting of P/bag plants Repair of fencing Cost of P/bags plants 7th Year Maintenance (10% Beating up) Re-digging of pits 45x45x45 cm	Nos. Nos. Rmt. Nos.	100 100 100 60 100	3.18 1.80 1.45 2.63 0.72 19.78 Total Or Say	1113 630 507 920 253 6923 10346
2 3 4 5 6	Re-digging of pits 45x45x45 cm Filling of pits 45x45x45cm Carriage of plants in P/bags over distance 2 Km uphill/downhill. Planting of P/bag plants Repair of fencing Cost of P/bags plants 7th Year Maintenance (10% Beating up) Re-digging of pits 45x45x45 cm Filling of pits 45x45x45cm	Nos. Nos. Rmt. Nos. Nos.	100 100 100 60 100	3.18 1.80 1.45 2.63 0.72 19.78 Total Or Say	1113 630 507 920 253 6923 10346 10350
2 3 4 5 6	Re-digging of pits 45x45x45 cm Filling of pits 45x45x45cm Carriage of plants in P/bags over distance 2 Km uphill/downhill. Planting of P/bag plants Repair of fencing Cost of P/bags plants 7th Year Maintenance (10% Beating up) Re-digging of pits 45x45x45 cm Filling of pits 45x45x45cm Carriage of plants in P/bags over distance 2 Km	Nos. Nos. Rmt. Nos. Nos.	100 100 100 60 100	3.18 1.80 1.45 2.63 0.72 19.78 Total Or Say	1113 630 507 92(25) 692] 1034(10350
2 3 4 5 6	Re-digging of pits 45x45x45 cm Filling of pits 45x45x45cm Carriage of plants in P/bags over distance 2 Km uphill/downhill. Planting of P/bag plants Repair of fencing Cost of P/bags plants 7th Year Maintenance (10% Beating up) Re-digging of pits 45x45x45 cm Filling of pits 45x45x45cm Carriage of plants in P/bags over distance 2 Km uphill/downhill.	Nos. Nos. Rmt. Nos. Nos. Nos. Nos. Nos. Nos.	100 100 100 60 100	3.18 1.80 1.45 2.63 0.72 19.78 Total Or Say	1113 630 507 920 253 6923 10346 10350
2 3 4 5 6	Re-digging of pits 45x45x45 cm Filling of pits 45x45x45cm Carriage of plants in P/bags over distance 2 Km uphill/downhill. Planting of P/bag plants Repair of fencing Cost of P/bags plants 7th Year Maintenance (10% Beating up) Re-digging of pits 45x45x45 cm Filling of pits 45x45x45cm Carriage of plants in P/bags over distance 2 Km uphill/downhill. Planting of P/bag plants	Nos. Nos. Rmt. Nos. Nos. Nos. Nos. Nos. Nos.	100 100 100 60 100	3.18 1.80 1.45 2.63 0.72 19.78 Total Or Say 3.18 1.80 1.45	1113 630 507 926 252 6923 10346 10350
2 3 4 5 6	Re-digging of pits 45x45x45 cm Filling of pits 45x45x45cm Carriage of plants in P/bags over distance 2 Km uphill/downhill. Planting of P/bag plants Repair of fencing Cost of P/bags plants 7th Year Maintenance (10% Beating up) Re-digging of pits 45x45x45 cm Filling of pits 45x45x45cm Carriage of plants in P/bags over distance 2 Km uphill/downhill. Planting of P/bag plants Repair of fencing	Nos. Nos. Rmt. Nos. Nos. Nos. Nos. Nos.	100 100 100 60 100 100 100	3.18 1.80 1.45 2.63 0.72 19.78 Total Or Say 3.18 1.80 1.45	1113 630 507 926 252 692] 10346 10350 111. 636 507
2 3 4 5 6	Re-digging of pits 45x45x45 cm Filling of pits 45x45x45cm Carriage of plants in P/bags over distance 2 Km uphill/downhill. Planting of P/bag plants Repair of fencing Cost of P/bags plants 7th Year Maintenance (10% Beating up) Re-digging of pits 45x45x45 cm Filling of pits 45x45x45cm Carriage of plants in P/bags over distance 2 Km uphill/downhill. Planting of P/bag plants	Nos. Nos. Rmt. Nos. Nos. Nos. Nos. Nos. Nos.	100 100 100 600 100 100 100 100 100	3.18 1.80 1.45 2.63 0.72 19.78 Total Or Say 3.18 1.80 1.45	1113 630 507 926 252 6923 10346 10350 1111 636 507
2 3 4 5 6	Re-digging of pits 45x45x45 cm Filling of pits 45x45x45cm Carriage of plants in P/bags over distance 2 Km uphill/downhill. Planting of P/bag plants Repair of fencing Cost of P/bags plants 7th Year Maintenance (10% Beating up) Re-digging of pits 45x45x45 cm Filling of pits 45x45x45cm Carriage of plants in P/bags over distance 2 Km uphill/downhill. Planting of P/bag plants Repair of fencing	Nos. Nos. Rmt. Nos. Nos. Nos. Nos. Nos. Ros. Rmt. Rmt.	100 100 100 60 100 100 100 100	3.18 1.80 1.45 2.63 0.72 19.78 Total Or Say 3.18 1.80 1.45	1113 630 507 926 253 6923 10346 10350 1111 633 507 926 253 6923

	8th Year Maintenance (10% Beating up) 1 Re-digging of pits 45 45				
		-			
	Thing of Diffs 45v45v46	Nos.	100	3.1	8
3	Carriage of plants in P/harman	Nos.	100	1.8	0 1113.0
-		Nos.	100	1.4	5 630.0
4	1. failting of P/bae plante				307.3
5	Repair of fencing	Nos.	100	2.6.	920.5
6	Cost of P/bags plants	Rmt.	60	0.72	2 252.0
-		Nos.	100	19.78	6923.0
-				Tota	1 10346.0
	9th Year Maintenance (10% Beating up)			Or Say	10350.00
1	The disserting of this any and and				10330,00
2	Filling of pits 45x45x45cm	Nos.	100	3.18	1113.00
3	Carriage of plants in P/hage and ti	Nos.	100	1.80	630.00
		Nos.	100	1.45	507.50
4	Planting of P/bag plants		_		307.50
5	Repair of fencing	Nos.	100	2.63	020.50
6	Cost of P/bags plants	Rmt.	60	0.72	920.50
	prants	Nos.	100	19.78	252.00
				Total	6923.00
	10th year Maint			Or Say	10346.00
ı	10th year Maintenance (10% Beating up)			Or Say	10350.00
2	The digging of bits 45x45x45 cm	Nos.	100	3,18	
	Filling of pits 45x45x45cm	Nos.	100	1.80	1113.00
3	Carriage of plants in P/bags over distance 2 Km uphill/downhill.		100	1.45	630.00
4	partibuowiniii.	Nos.	1 100	1.43	507.50
	Planting of P/bag plants	Nos.	100	2.62	
6	Repair of fencing	Rmt.	60	2.63	920.50
0	COSLOT P/hage plants	Nos.	100	0.72	252.00
		. 103.	100	19.78	6923.00
				Total	10346.00
	Total	D/Malata	-	Or Say	10350.00
otal Co	Total: ost of New Plantation + Maintenance for 1000 place taken for Diversion (In Heaters)	- D/Mainte	nance Cost o	f 10 years	112860.00
trea to b	be taken for Diversion (In Hectare)	ants per H	ectare		222160.00
trea to b	e taken for Compensatory Afforestation (0.7995He	notes V 2 T			0.7995
		ctare X 2 T			1,5990
ree to be	Planted Per Hectare		Or	Say	1.6000
ree to be	Planted In Total Compensatory A fforestation				1000
ost of Co	ompensatory Afforestation	a			1600
otal					355456.00
partmer	ntal Charges @ 17.50%				355456.00
ntigenc	y charges @ 5%.	62204.80			
rand To					17772.80
r Say					435433.60
Juy					
	(Rupees Four Lakhs Thirty Five Th				435440.00

Ringer Brock Range Naggar

มีงหร่องคริเรียกสะกูfficer หมามกระบบภาษาต่อก, Kullu