

CHECK LIST SERIAL NUMBER-17

Full Title of the Project: Diversion of **0.2484 Hectare** of forest land for erection of Tower No: 28 and gantry for loop in loop out arrangement in respect of proposed 132 KV double circuit EHV transmission line from Village- Palauhra (Tehsil-Jawali) to proposed 132 KV Sub Station site at Fatehpur, Distt- Kangra (HP) in favor of Addl. Superintending Engineer, 220 KV Sub Station (ES) Division, HPSEB Ltd. Jassure within the jurisdiction of Nurpur Forest Division, Distt. Kangra (HP).

File No: FP/HP/TRANS/15505/2015

Date of Proposal:

"SCHEME FOR COMPENSATORY AFFORESTATION"

Detailed scheme for Compensatory Afforestation to be carried out in lieu of **0.2484 Hectare** of forest area to be diverted for purpose of erection of Tower No: 28 and gantry for loop in loop out arrangement in respect of proposed 132 KV double circuit EHV transmission line from Village- Palauhra (Tehsil-Jawali) to proposed 132 KV Sub Station site at Fatehpur, Distt- Kangra (HP).

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

District: - **Kangra** Village: -**Bhol**

Tehsil: - **Jawali**

Name of Forest Division: -**Nurpur** Range: **Jawali**

Block/ Compartment/ Survey No: **U77-Bhol-C1, C2**

Area to be afforested: -**0.50 Hectare**

2. **Description of Area:-**

(i) Whether the site selected for Compensatory Afforestation is a land bank or not: YES, **U77-Bhol-C1, C2**

(ii) If the CA site is other than the land bank, reasons be given: - NA

(iii) In case of non-forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary: -NA

(iv) Soil type: Sandy Loam

(v) Topography:-

(a) Undulating

(b) Slope: Gentle

vi) Whether the area is bearing any root stock of vegetation: - YES

3 Plantation Model:-

Copy of the approved Compensatory Afforestation Scheme/ Model showing component wise physical and financial break up to be enclosed.

4 Schedule of Plantation Program:-

Details of year wise break up of requirements of funds are as under:-

Sr. No.	Particulars of Work	No/ Qty	Schedule Rate	Schedule Rate	Increase	Rate	Amount
1	Survey & demarcation of plantation area	0.5	Hact.	102.25	34.08	136.33	68.16
2	Preparation/purchase of RCC fence posts	70	Nos	272.75	90.91	250.00	17500.00
3	Carriage of RCC fence posts up to 2 mt. long over distance 2 Km.	70	Nos	681.75	227.23	908.98	1272.57
4	Preparation/digging of holes 20-30 cm dia & 50 cm deep	70	Nos	906.75	302.22	1208.97	846.28
5	Fixing of RCC fence posts including strutting	70	Nos	696.25	232.06	928.31	649.82
6	Carriage of barbed wire over distance 2 Km.	1.50	Qtls	170.50	56.83	227.33	681.98
7	Stretching & fixing of barbed wire in 4 strands	1200	Rmt	4.75	1.58	6.33	7599.81
8	Preparation of inspection path 60 cms width.	300	Rmt	11.00	3.67	14.67	4399.89
9	Preparation of water retention mounds/trenches.		LS		0.00	0.00	3000.00
10	Interlacing of thorny bushes along the fence.	200	Rmt	4.00	1.33	5.33	1066.64
							37085.15
Planting							
1	Digging of pits 45 x 45 x 45 cm	550	Nos	954.25	318.05	1272.30	6997.66
2	Filling of pits 45x45x45 cm	550	Nos	272.75	90.91	363.66	2000.12
3	Carriage of plants in P/bags over distance 2 Km. uphill	550	Nos	218.00	72.66	290.66	3197.25
4	Planting of entire plant raised in P/bags	550	Nos	218.25	72.74	290.99	1600.46
5	Planting of grass tufts/preparation of strips including sowing in strips 100x30x5 cm for grass sowing along contour	250	Nos	920.00	306.64	1226.64	3066.59
6	Moisture conservation works		LS				5000.00
	Total planting cost						21862.08
MATERIAL							
1	Cost of barbed wire	1.50	Qtls			7000.00	10500.00
2	Cost of Plants	550	Nos			13.00	7150.00
	Total material						17650.00
	Planting Cost						76597.23

Maintenance Cost							
1st Year Maintenance							
1	Re digging of pits 45 x 45 x 45 cm	125	Nos	477.25	159.07	636.32	795.40
2	Filling of pits 45x45x45 cm	125	Nos	272.75	90.91	363.66	454.57
3	Planting of entire plant raised in P/bags	125	Nos	218.25	72.74	290.99	363.74
4	Planting of grass tufts/preparation of strips including sowing in strips 100x30x5 cm for grass sowing along contour	125	Nos	920.00	306.64	1226.64	1533.30
5	Carriage of plants in P/bags over distance 2 Km. uphill	125	Nos	218.00	72.66	290.66	363.32
6	Nursery cost of plants	125	Nos	0	0.00	14.00	1750.00

7	Repair of Fencing	400	Rmt	1.75	0.58	2.33	933.31
8	Repair of inspection path		LS				1000.00
9	Moisture conservation works		LS				2000.00
	Total						9193.64
	2nd Year Maintenance						
1	Re digging of pits 45 x 45 x 45 cm	100	Nos	477.25	159.07	636.32	636.32
2	Filling of pits 45x45x45 cm	100	Nos	272.75	90.91	363.66	363.66
3	Planting of entire plant raised in P/bags	100	Nos	218.25	72.74	290.99	290.99
4	Planting of grass tufts/preparation of strips including sowing in strips 100x30x5 cm for grass sowing along contour	100	Nos	920.00	306.64	1226.64	1226.64
5	Carriage of plants in P/bags over distance 2 Km. uphill	100	Nos	218.00	72.66	290.66	290.66
6	Nursery cost of plants	100	Nos	0	0.00	14.00	1400.00
7	Repair of fencing	400	Rmt	1.75	0.58	2.33	933.31
8	Repair of inspection path		LS				1000.00
9	Moisture conservation works		LS				2000.00
	Total						8141.57
	3rd Year Maintenance						
1	Re digging of pits 45 x 45 x 45 cm	75	Nos	477.25	159.07	636.32	477.24
2	Filling of pits 45x45x45 cm	75	Nos	272.75	90.91	363.66	272.74
3	Planting of entire plant raised in P/bags	75	Nos	218.25	72.74	290.99	218.24
4	Planting of grass tufts/preparation of strips including sowing in strips 100x30x5 cm for grass sowing along contour	75	Nos	920.00	306.64	1226.64	919.98
5	Carriage of plants in P/bags over distance 2 Km. uphill	75	Nos	218.00	72.66	290.66	217.99
6	Nursery cost of plants	75	Nos	0	0.00	15.00	1125.00
7	Repair of fencing	400	Rmt	1.75	0.58	2.33	933.31
8	Repair of inspection path		LS				1000.00
9	Moisture conservation works		LS				1500.00
	Total						6664.51
	4th year Maintenance						
1	Re digging of pits 45 x 45 x 45 cm	50	Nos	477.25	159.07	636.32	318.16
2	Filling of pits 45x45x45 cm	50	Nos	272.75	90.91	363.66	181.83
3	Planting of entire plant raised in P/bags	50	Nos	218.25	72.74	290.99	145.50
4	Planting of grass tufts/ preparation of strips including sowing in strips 100x30x5 cm for grass sowing along contour	50	Nos	920.00	306.64	1226.64	613.32
5	Carriage of plants in P/bags over distance 2 Km. uphill	50	Nos	218.00	72.66	290.66	145.33
6	Nursery cost of plants	50	Nos	0	0.00	16.00	800.00
7	Repair of fencing	400	Rmt	1.75	0.58	2.33	933.31
8	Repair of inspection path		LS				1000.00
9	Moisture conservation works		LS				1500.00
	Total						5637.44

	5 th year Maintenance						
1	Re digging of pits 45 x 45 x 45 cm	50	Nos	477.25	159.07	636.32	318.16
2	Filling of pits 45x45x45 cm	50	Nos	272.75	90.91	363.66	181.83
3	Planting of entire plant raised in P/bags	50	Nos	218.25	72.74	290.99	145.50
4	Planting of grass tufts/preparation of strips including sowing in strips 100x30x5 cm for grass sowing along contour	50	Nos	920.00	306.64	1226.64	613.32
5	Carriage of plants in P/bags over distance 2 Km. uphill	50	Nos	218.00	72.66	290.66	145.33
6	Nursery cost of plants	50	Nos	0	0.00	16.00	800.00
7	Repair of fencing	400	Rmt	1.75	0.58	2.33	933.31
8	Repair of inspection path		LS				1000.00
9	Moisture conservation works		LS				1500.00
	Total						5637.44
	6 th year Maintenance						
1	Re digging of pits 45 x 45 x 45 cm	50	Nos	477.25	159.07	636.32	318.16
2	Filling of pits 45x45x45 cm	50	Nos	272.75	90.91	363.66	181.83
3	Planting of entire plant raised in P/bags	50	Nos	218.25	72.74	290.99	145.50
4	Planting of grass tufts/preparation of strips including sowing in strips 100x30x5 cm for grass sowing along contour	50	Nos	920.00	306.64	1226.64	613.32
5	Carriage of plants in P/bags over distance 2 Km. uphill	50	Nos	218.00	72.66	290.66	145.33
6	Nursery cost of plants	50	Nos	0	0.00	16.00	800.00
7	Repair of fencing	400	Rmt	1.75	0.58	2.33	933.31
8	Repair of inspection path		LS				1000.00
9	Moisture conservation works		LS				1500.00
	Total						5637.44
	7 th year Maintenance						
1	Re digging of pits 45 x 45 x 45 cm	50	Nos	477.25	159.07	636.32	318.16
2	Filling of pits 45x45x45 cm	50	Nos	272.75	90.91	363.66	181.83
3	Planting of entire plant raised in P/bags	50	Nos	218.25	72.74	290.99	145.50
4	Planting of grass tufts/preparation of strips including sowing in strips 100x30x5 cm for grass sowing along contour	50	Nos	920.00	306.64	1226.64	613.32
5	Carriage of plants in P/bags over distance 2 Km. uphill	50	Nos	218.00	72.66	290.66	145.33
6	Nursery cost of plants	50	Nos	0	0.00	16.00	800.00
7	Repair of fencing	400	Rmt	1.75	0.58	2.33	933.31
8	Repair of inspection path		LS				1000.00
9	Moisture conservation works		LS				1500.00
	Total						5637.44
	8 th year Maintenance						
1	Re digging of pits 45 x 45 x 45 cm	50	Nos	477.25	159.07	636.32	318.16
2	Filling of pits 45x45x45 cm	50	Nos	272.75	90.91	363.66	181.83
3	Planting of entire plant raised in P/bags	50	Nos	218.25	72.74	290.99	145.50

4	Planting of grass tufts/preparation of strips including sowing in strips 100x30x5 cm for grass sowing along contour	50	Nos	920.00	306.64	1226.64	613.32
5	Carriage of plants in P/bags over distance 2 Km. uphill	50	Nos	218.00	72.66	290.66	145.33
6	Nursery cost of plants	50	Nos	0	0.00	16.00	800.00
7	Repair of fencing	400	Rmt	1.75	0.58	2.33	933.31
8	Repair of inspection path		LS				1000.00
9	Moisture conservation works		LS				1500.00
Total							5637.44
9 th year Maintenance							
1	Re digging of pits 45 x 45 x 45 cm	50	Nos	477.25	159.07	636.32	318.16
2	Filling of pits 45x45x45 cm	50	Nos	272.75	90.91	363.66	181.83
3	Planting of entire plant raised in P/bags	50	Nos	218.25	72.74	290.99	145.50
4	Planting of grass tufts/preparation of strips including sowing in strips 100x30x5 cm for grass sowing along contour	50	Nos	920.00	306.64	1226.64	613.32
5	Carriage of plants in P/bags over distance 2 Km. uphill	50	Nos	218.00	72.66	290.66	145.33
6	Nursery cost of plants	50	Nos	0	0.00	16.00	800.00
7	Repair of fencing	400	Rmt	1.75	0.58	2.33	933.31
8	Repair of inspection path		LS				1000.00
9	Moisture conservation works		LS				1500.00
Total							5637.44
10 th year Maintenance							
1	Re digging of pits 45 x 45 x 45 cm	50	Nos	477.25	159.07	636.32	318.16
2	Filling of pits 45x45x45 cm	50	Nos	272.75	90.91	363.66	181.83
3	Planting of entire plant raised in P/bags	50	Nos	218.25	72.74	290.99	145.50
4	Planting of grass tufts/preparation of strips including sowing in strips 100x30x5 cm for grass sowing along contour	50	Nos	920.00	306.64	1226.64	613.32
5	Carriage of plants in P/bags over distance 2 Km. uphill	50	Nos	218.00	72.66	290.66	145.33
6	Nursery cost of plants	50	Nos	0	0.00	16.00	800.00
7	Repair of fencing	400	Rmt	1.75	0.58	2.33	933.31
8	Repair of inspection path		LS				1000.00
9	Moisture conservation works		LS				1500.00
Total							5637.44
					Sub Total: -1	199006.27	
Contingency charges @ 5%						9950.31	
					Sub Total: -2	208956.58	
Departmental Charges @ 17.50%						36567.40	
					G. Total: -	245523.99	

Say Rs. 245600.00

Area proposed for Compensatory Afforestation:
Total Area Proposed for Compensatory Afforestation:

U 77-Bhol-C1, C2
0.5 Hectare

Range Forest Officer
Jawar (Kangra) H.P.

Divisional Forests Officer
Nurpur Forest Division

Technical Details:-

- a) Technical details of Compensatory Afforestation Scheme are as follows:-
- b) General Details: -Plantation will be carried out artificially
- c) Spacing: -9 Feet
- d) Species: - Shisham, Khair, Kachnar, Bamboo etc.
- e) Plantation Method: -Through Department
- f) Soil and Moisture Conservation Works: -As per scheme
- g) Protection (Fencing, Watchman, People's Participation etc.) As per scheme
- h) Proposed Monitoring Mechanism: -NA
- i) Any other information: -NA


Range Forest Officer
Jawali (Kangra) H.P.


Divisional Forests Officer
Nurpur Forest Division