

DEPUTY CONSERVATOR OF FOREST, UDAIPUR (NORTH)

DETAILS OF AMOUNT FOR MEDICINAL PLANT

Diversion of 3.3896 hectare Forest Land for Construction of 11 KV HT line from 33/11 KV

Bekariya Substation to Wolkem Industries Ltd.

forest Diversion Proposal - FP/RJ/TRANS/142368/2021 (3.3896 ha.)

DWARF/MEDICINAL PLANTATION MODEL UNDER COMPENSATORY AFFORESTATION PROJECT FOR HIGH VOLTAGE TRANSMISSION POWER LINE OF 46 METER WIDTH								
1.	UNIT-5 (1.1 Km length of transmission line)	5. Wage Rate- 252 per day						
2.	No of plants per Ha. 625 & 1375 med plants	6. Period = 0 year + 11 years						
3.	Spacing 4X4 m for Dwarf plants & 2X2 m for medicinal Plants							
4.	Unit for Model Calculation- 3.3896 Ha.	2000 plants per Hectare						
S. N.	Item of Work	BSR Item No.	Qty.	Unit	Rate in Rs.	Labour Rs.	Material Rs.	Total Rs.
	Year 0 ADVANCE WORK							
1	Survey, demarcation and layout	2.1.1C10:C20	1	Ha.	125	140.79	0	140.789
2	Dividing area in subplots, their marking on ground & preparation of map		1	Ha.	203	228.34	0	228.338
3	Layout for excavation of pits	2.1.3	2000	Nos.	0.79	1869.30	0	1839.3
4	Digging of pits					0.00		
	(i) 0.45x0.45x0.45 cm. Hard Soil upto 10% boulders	4.1.3	625	Nos.	13.15	9205.69	0	9205.69
	(ii) 0.30x0.30x0.30 cm. Hard Soil upto 10% boulders	4.1.3	1375	Nos.	4.20	6473.92	0	6473.92
5	Construction of loose stone check dam in nallahs lead upto 200 m.	3.5.1	50	Cum	255.78	14323.77	0	14323.8
6	Construction of thatched cattle guard hut (one time L.S.)	-	Prorata	-	-	0.0	8025	8025
7	Purchase of tools & plants (one time L.S.)	-	Prorata	-	-	0.0	1070	1070
8	Purchase of water storage tank (one time L. S.)	-	Prorata	-	-	0.0	5350	5350
9	Purchase of sign board and its fixing (one time L. S.)		Prorata	-	-	0.0	535	535
10	Miscellaneous & unforeseen exp.			-	-	0	3826.32	3826.32

		TOTAL				32241.80	18806.3	51048.1
1st Year Operation (Planting year)								
S. N.	Details of Activities		Qty.	Unit	Rate	Labour	Material	Amount
1	Purchase of medicinal/dwarf plants and transportation upto planting site		2200	Nos.	21.4	0.00	47080	47080
2	Treatment of pit soil with insecticide	8.4.1	2000	Nos.	0.47	1064.79	0	1064.79
3	Local transport and planting of Plants (in bags size 15x22.5) with treatment & initial watering.	8.4.3.2.2 + 8.5.1.3 + water charges	2000	Nos.	16.11	36108.17	0	36108.2
4	Marking of crescent shaped thanwala, having 45 cm radius, around planted plants in stony hilly areas	8.4.4.3	2000	Nos.	8.12	18196.06	0	18196.1
5	Fertilizer application urea dose 2 time	8.4.4.5	4000 (2000x 2)	Nos.	0.47	2129.58	0	2129.58
6	Purchase of fertilizer for plants	-	Prorata	-	-	0.00	2140	2140
7	Weeding & Hoeing of plants in plantations (in 45 cm radius and 15 cm depth) hard and bouldary soils 2 times	8.6.1.2	4000 (2000x 2)	Nos.	4.59	20585.92	0	20585.9
8	Watering 3 times except rainy season 30 lit. per plants	8.5.1.3	6000 (2000x 3)	Nos.	5.42	36486.76	0	36486.8
9	Purchase of water @ 300/tanker of 3000 lit.	-	30	Tanker	32.1	0.00	9630	9630
10	Hoeing of plants after every watering	8.6.2	6000 (2000x 3)	Nos.	2.46	16539.72	0	16539.7
11	Purchase of Insecticide		Prorata	-	-	0	3210	3210
12	Watch & Ward for 12 month @ 5538/month (one C.G. for 5 ha.)		12 month	Month	1169.91	15724.56	0	15724.6
13	Miscellaneous exp.			-	-	0	9030.8	9030.8
TOTAL						146835.55	71090.8	217926
2nd Year Operation (1st year Maintenance)								
S. N.	Details of Activities		Qty.	Unit	Rate	Labour	Material	Amount
1	Casualty					0.00	0.00	

	replacement-20%							
	(a) Cost of plants	-	440	Nos.	21.4	0	9416	9416
	(b) Redigging of pits	-						
	(i) .45X.45X.45 Mt.	-	125	Nos.	6.88	964.23	0	964.225
	(ii) 0.30X0.30X0.30 Mt.	-	275	Nos.	2.07	637.69	0	637.69
	(c) Local transport and planting of plants (in bags size 15 x22.5) with treatment & initial watering.	8.4.3.2.2 + 8.5.1.3 + water charges	400	Nos.	16.11	7221.63	0	7221.63
	(d) Soil treatment	8.4.1	400	Nos.	0.47	212.96	0	212.958
2	Weeding & Hoeing of plants in 2 times	8.6.1.2	4000 (2000x2)	Nos.	4.59	20585.92	0	20585.9
3	Watering of plants 4 times	8.5.1.3	8000	Nos.	5.42	48649.01	0	48649
4	Hoeing of plants after each watering (4 times)	8.6.2	8000 (2000x4)	Nos.	2.46	22052.96	0	22053
5	Repair of Thanwla	8.4.4.4	2000	Nos.	1.45	3265.35	0	3265.35
6	Cost of water @ 300/tanker of 3000 ltr.	-	40	Tanker	3.21	0.0	12840	12840
7	Watch & ward (1/5) for 12 months @ 1045x12 month	-	12	month	1169.9	15724.56		15724.6
8	Misc. & unforeseen exp.		-	-	-	0.0	4872.8	4872.78
	TOTAL					119314.31	27128.8	146443

3rd Year Operation (IInd year Maintenance)

S. N.	Details of Activities		Qty.	Unit	Rate	Labour	Material	Amount
1	Watering of plants 3 times	8.5.1.3	6000	Nos.	5.42	32577.46	0	32577.5
2	Hoeing of plants after each watering	8.6.2	6000 (2000x3)	Nos.	2.46	14767.61	0	14767.6
3	Repair of Thanwla once	8.4.4.4	2000	Nos.	1.45	2915.49	0	2915.49
4	Cost of water @ 300/tanker of 3000 ltr.		30	Tanker	321	0.00	9630	9630
5	Watch & ward (1/5) for 12 months @ 15538/5 = 1107.6x12	-	12	Month	1169.91	15724.56	0	15724.6
6	Misc. & unforeseen exp.	-	-	LS	-	0.0	4879.2	4879.2
	TOTAL					72016.39	14509.2	86525.6

4th Year Operation (3rd year Maintenance)

S. N.	Details of Activities		Qty.	Unit	Rate	Labour	Material	Total
1	Watch & ward for 12 months 5538/5 =	-	12	Month	1169.9	15724.563	0	15724.6

	1107.6x12							
2	Misc. & unforeseen exp.	-	-	-	-	0	1562.2	1562.2
TOTAL						15724.563	1562.2	17286.8

5th Year Operation (4th year Maintenance)

S. N.	Details of Activities	Qty.	Unit	Rate	Labour	Material	Total	
1	Watch & ward for 12 months 5538/5 = 1107.6x12	12	Month	1169.9	15724.563	0	15724.6	
2	Misc. & unforeseen exp.	-	-	-	0	1562.2	1562.2	
TOTAL						15724.563	1562.2	17286.8

6th Year Operation (5th year Maintenance)

S. N.	Details of Activities	Qty.	Unit	Rate	Labour	Material	Total	
1	Watch & ward for 12 months 5538/5 = 1107.6x12	12	Month	1169.9	15724.563	0	15724.6	
2	Misc. & unforeseen exp.	-	-	-	0	1562.2	1562.2	
TOTAL						15724.563	1562.2	17286.8

7th Year Operation (6th year Maintenance)

S. N.	Details of Activities	Qty.	Unit	Rate	Labour	Material	Total	
1	Watch & ward for 12 months 5538/5 = 1107.6x12	12	Month	1169.9	15724.563	0	15724.6	
2	Misc. & unforeseen exp.	-	-	-	0	1562.2	1562.2	
TOTAL						15724.563	1562.2	17286.8

8th Year Operation (7th year Maintenance)

S. N.	Details of Activities	Qty.	Unit	Rate	Labour	Material	Total	
1	Watch & ward for 12 months 5538/5 = 1107.6x12	12	Month	1169.91	15724.563	0	15724.6	
2	Misc. & unforeseen exp.	-	-	-	0	1562.2	1562.2	
TOTAL						15724.563	1562.2	17286.8

9th Year Operation (8th year Maintenance)

S. N.	Details of Activities	Qty.	Unit	Rate	Labour	Material	Total	
1	Watch & ward for 12 months 5538/5 = 1107.6x12	12	Month	1169.9	15724.563	0	15724.6	
2	Misc. & unforeseen exp.	-	-	-	0	1562.2	1562.2	
TOTAL						15724.563	1562.2	17286.8

10th Year Operation (9th year Maintenance)

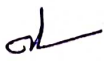
S. N.	Details of Activities	Qty.	Unit	Rate	Labour	Material	Total
1	Watch & ward for 12 months 5538/5 = 1107.6x12	12	Month	1169.9	15724.563	0	15724.6
2	Misc. & unforeseen exp.	-	-	-	0	1562.2	1562.2
TOTAL					15724.563	1562.2	17286.8
11th Year Operation (10th year Maintenance)							
S. N.	Details of Activities	Qty.	Unit	Rate	Labour	Material	Total
1	Watch & ward for 12 months 5538/5 = 1107.6x12	12	Month	1169.9	15724.563	0	15724.6
2	Misc. & unforeseen exp.	-	-	-	0	1562.2	1562.2
TOTAL					15724.563	1562.2	17286.8

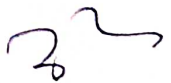
Per ha. Abstract					Total Amount for 3.3896 ha
S.No.	Year	Labour	Material	Total	Amount
1	0 Year (Advance Work)	32241.80	18806.32	51048.1	173032.6397
2	Planting Year	146835.55	71090.8	217926	738681.9696
3	I Year Maintenance	119314.31	27128.78	146443	496383.1928
4	II Year Maintenance	72016.39	14509.2	86525.6	293287.1737
5	III Year Maintenance	15724.563	1562.2	17286.8	58595.3372
6	IV Year Maintenance	15724.563	1562.2	17286.8	58595.3372
7	V Year Maintenance	15724.563	1562.2	17286.8	58595.3372
8	VI Year Maintenance	15724.563	1562.2	17286.8	58595.3372
9	VII Year Maintenance	15724.563	1562.2	17286.8	58595.3372
10	VIII Year Maintenance	15724.563	1562.2	17286.8	58595.3372
11	IX Year Maintenance	15724.563	1562.2	17286.8	58595.3372
12	X Year Maintenance	15724.563	1562.2	17286.8	58595.3372
TOTAL		486204.56	144032.7	640237	21,70,147.6740

Hence Total Medicinal Plant Amount for Construction of 11 KV HT line from 33/11 KV Bekariya Substation to Wolkem Industries Ltd. (FP/RJ/TRANS/142368/2021) will be :

3.3896 x Rs. 6,40,237/- = Rs. 21,70,147.6740/- or say **21,70,200/-** (Twenty one Lacs, Seventy Thousand, Two hundred Rupees Only).

Place: Udaipur
Date: 28.03.2022


सहायक वन संरक्षक,
कोटड़ा


उप वन संरक्षक,
उदयपुर उत्तर