Deputy Conservator of Forest, IGNP Stage-I Chhattargarh (Bikaner)

DETAILS OF AMOUNT FOR MEDICINAL PLANT

Construction of 132 KV S/C Transmission Line for Power Evacuation from 150 MW Chhattargarh Solar Project of NTPC Renewable Energy Limited (A wholly owned subsidiary of NTPC Limited) to 220 KV Chhattargarh Grid Sub Station District-Bikaner in the State of Rajasthan

forest Diversion Proposal - FP/RJ/TRANS/148899/2021 (3.9007 ha.)

DWARF/MEDICINAL PLANTATION MODEL UNDER COMPENSATORY AFFORESTATION PROJECT FOR HIGH VOLTAGE TRANSMISSION POWER LINE		
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	7. Model Cost per Ha. Rs. 640237
4.	Unit for Model Calculation-1 Ha.	

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	-	Prorata	-	-	0.0	1070	1070

S. N.	Details of Activities		Qty.	Unit	Rate	Labour	Material	Amount
	L.S.)							
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	8.6.2	6000	Nos.	2.46	16539.72	0	16539.7

	after every watering		(2000x 3)					
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 (Ist year Maintenance)							
S. N.	Details of Activities		Qty.	Unit	Rate	Labour	Material	Amount
1	Casualty replacement-20%					0.00	0.00	
	(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 (2000x 2)	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 (2000x 4)	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. & unforseen 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 (2000x 3)	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	Tank er	321	0.00	9630	9630
5	Watch & ward (1/5) for 12 months @ 15538/5 = 1107.6x12	-	12	Mont h	1169. 91	15724.56	0	15724.6
6	Misc. & unforseen 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 = 1107.6x12	-	12	Mo nth	1169. 9	15724.563	0	15724.6
2	Misc. & unforseen 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	Mo nth	1169. 9	15724.563	0	15724.6
2	Misc. & unforseen 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	Mo nth	1169. 9	15724.563	0	15724.6
2	Misc. & unforseen 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	Mo nth	1169. 9	15724.563	0	15724.6

S. N.	Details of Activities		Qty.	Unit	Rate	Labour	Material	Total
2	Misc. & unforseen 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	Mo nth	1169. 91	15724.563	0	15724.6
2	Misc. & unforseen 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	Mo nth	1169. 9	15724.563	0	15724.6
2	Misc. & unforseen 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	Mo nth	1169. 9	15724.563	0	15724.6
2	Misc. & unforseen 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	Mo nth	1169. 9	15724.563	0	15724.6
2	Misc. & unforseen exp.		-	-	-	0	1562.2	1562.2
	TOTAL					15724.563	1562.2	17286.8

Per ha. Abstract

S.No.	Year	Labour	Material	Total
1	0 Year (Advance Work)	32241.80	18806.32	51048.1
2	Planting Year	146835.55	71090.8	217926
3	I Year Maintenace	119314.31	27128.78	146443
4	II Year Maintenance	72016.39	14509.2	86525.6

5	III Year Maintenace	15724.563	1562.2	17286.8
6	IV Year Maintenance	15724.563	1562.2	17286.8
7	V Year Maintenance	15724.563	1562.2	17286.8
8	VI Year Maintenance	15724.563	1562.2	17286.8
9	VII Year Maintenance	15724.563	1562.2	17286.8
10	VIII Year Maintenance	15724.563	1562.2	17286.8
11	IX Year Maintenance	15724.563	1562.2	17286.8
12	X Year Maintenance	15724.563	1562.2	17286.8
TOTAL		486204.56	144032.7	640237

Hence Total Medicinal Plant Amount for Construction of 132 KV S/C Transmission Line for Power Evacuation from 150 MW Chhattargarh Solar Project of NTPC Renewable Energy Limited (A wholly owned subsidiary of NTPC Limited) to 220 KV Chhattargarh Grid Sub Station District-Bikaner in the State of Rajasthan (FP/RJ/TRANS/148899/2021) will be :

3.9007 x Rs. 6,40,237/- = Rs. 24,97,372/- (Twenty Four Lakhs, Ninety Seven Thousand, Three Hundred Seventy Two Rupees Only).

Place: Chhattargarh
Date: 08.04.2022

(एस.के. [illegible])
उप वन संरक्षक
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स्टेज [illegible] छत्तरगढ़ (बीकानेर)