

DWARF/MEDICINAL PLANTATION MODEL UNDER COMPENSATORY AFFORESTATION PROJECT FOR HIGH VOLTAGE TRANSMISSION POWER LINE OF 46 METER WIDTH

1	UNIT-5 (1.1Km length of Transmission Line)		5	Wage Rate-213 Per day				
2	No. of Plants/Ha.-625 Dwarf Plants& 1375 Medicinal Plants		6	Period- 0 year +11 years				
3	Spacing-4x4 Mt. Dwarf Plants& 2x2 Mt. Medicinal Plants		7	Model Cost per Ha. Rs 563444				
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.	119	119	0	119
2	Dividing area in subplots, their marking on ground & preparation of map		1	Ha.	193	193	0	193
3	Layout for excavation of pits	2.1.3	2000	Nos.	0.79	1580	0	1580
4	Digging of pits							
	(i) 0.45x0.45x0.45 cm. Hard Soil upto 10% boulders	4.1.3	625	Nos.	12.45	7781	0	7781
	(ii) 0.30x0.30x0.30 cm.Hard Soil upto 10% boulders	4.1.3	1375	Nos.	3.98	5472	0	5472
5	Construction of loose stone check dam in nallahs lead upto 200 m.	3.5.1	50	Cum	242.14	12107	0	12107
6	Construction of thatched cattle guard hut (one time L.S.)	-	Prorata	-	-	0	8025	8025
7	Purchase of tools & plants (one time L.S.)	-	Prorata	-	-	0	1070	1070
8	Purchase of water storage tank (one time L. S.)	-	Prorata	-	-	0	5350	5350
9	Purchase of sign board and its fixing (one time L. S.)	-	Prorata	-	-	0	535	535
10	Miscellaneous & unforeseen exp.	-		-	-	0	3826.32	3826.32
TOTAL						27252	18806.3	46058.3

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Dy. Conservator of Forests
 Banswara (Raj.)

(Priya Ranjan)
 (प्रशासन)
 मुख्य वन संरक्षक, (आयोजना)
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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.	20	0	47080	47080
2	Treatment of pit soil with insecticide	8.4.1	2000	Nos.	0.45	900	0	900
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	2000	Nos.	15.26	30520	0	30520
4	Making of crescent shaped thanwala, having 45 cm radius, around planted plants in stony hilly areas	8.4.4.3	2000	Nos.	7.69	15380	0	15380
5	Fertilizer application urea dose 2 time	8.4.4.5	4000 (2000x2)	Nos.	0.45	1800	0	1800
6	Purchase of fertilizer for plants	-	Prorata	-	-	0	2140	2140
7	Weeding and Hoeing of plants in plantations (in 45 cm radius and 15 cm depth) hard and bouldary soils 2 times	8.6.1.2	4000 (2000x2)	Nos.	4.35	17400	0	17400
8	Watering 3 times except rainy season 30 lit. per plants	8.5.1.3	6000 (2000x3)	Nos.	5.14	30840	0	30840
9	Purchase of water @ 300/tanker of 3000 lit.	-	30	Tanker	300	0	9630	9630
10	Hoeing of plants after every watering	8.6.2	6000 (2000x3)	Nos.	2.33	13980	0	13980
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	1107.6	13291	0	13291
13	Miscellaneous exp.	-	-	-	-	0	9030.8	8440
	TOTAL					124111	71090.8	194611

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2nd Year Operation (1st year Maintenance)								
S.N.	Details of Activities		Qty.	Unit	Rate	Labour	Material	Amount
1	Casualty replacement-20%						0	
	(a) Cost of Plants		440	Nos.	20.00	0	9416	9416
	(b) Redigging of pits						0	
	(i) 0.45x0.45x0.45 Mt.		125	Nos.	6.52	815	0	815
	(ii) 0.30x0.30x0.30 Mt.		275	Nos.	1.96	539	0	509
	(c) 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	400	Nos.	15.26	6104	0	6104
	(d) soil treatment	8.4.1	400	Nos.	0.45	180	0	180
2	Weeding and Hoeing of plants in 2 times	8.6.1.2	4000 (2000x2)	Nos.	4.35	17400	0	17400
3	Watering of Plants 4 times	8.5.1.3	8000	Nos.	5.14	41120	0	41120
4	Hoeing of plants after each watering (4 times)	8.6.2	8000 (2000x4)	Nos.	2.33	18640	0	18640
5	Repair of Thanwla	8.4.4.4	2000	Nos.	1.38	2760	0	2760
6	Cost of water @ 300/tanker of 3000 ltr.	-	40	Tanker	300	0	12840	12840
7	Watch & ward (1/5) for 12 months @ 1045x12 month	-	12	month	1107.6	13291	0	13291
8	Misc. & unforeseen exp.	-	-	-	-	0	4872.78	4872.78
	TOTAL					100849	27128.8	127948
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.	5.14	30840	0	30840
2	Hoeing of plants after each watering	8.6.2	6000 (2000x3)	Nos.	2.33	13980	0	13980
3	Repair of Thanwla once	8.4.4.4	2000	Nos.	1.38	2760	0	2760
4	Cost of water @ 300/tanker of 3000 ltr.	-	30	Tanker	300	0	9630	9630
5	Watch & ward (1/5) for 12 months @ 5538/5 = 1107.6x12	-	12	Month	1107.6	13291	0	13291
6	Misc. & unforeseen exp.	-	-	LS	-	0	4879.2	4879.2
	TOTAL					60871	14509.2	75380.2

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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	Month	1107.6	13291	0	13291
2	Misc. & unforeseen exp.	-	-	-	-	0	1562.2	1562.2
	TOTAL					13291	1562.2	14853.2
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	1107.6	13291	0	13291
2	Misc. & unforeseen exp.	-	-	-	-	0	1562.2	1562.2
	TOTAL					13291	1562.2	14853.2
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	1107.6	13291	0	13291
2	Misc. & unforeseen exp.	-	-	-	-	0	1562.2	1562.2
	TOTAL					13291	1562.2	14853.2
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	1107.6	13291	0	13291
2	Misc. & unforeseen exp.	-	-	-	-	0	1562.2	1562.2
	TOTAL					13291	1562.2	14853.2
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	1107.6	13291	0	13291
2	Misc. & unforeseen exp.	-	-	-	-	0	1562.2	1562.2
	TOTAL					13291	1562.2	14853.2
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	1107.6	13291	0	13291
2	Misc. & unforeseen exp.	-	-	-	-	0	1562.2	1562.2
	TOTAL					13291	1562.2	14853.2

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	1107.6	13291	0	13291
2	Misc. & unforeseen exp.	-	-	-	-	0	1562.2	1562.2
	TOTAL					13291	1562.2	14853.2
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	1107.6	13291	0	13291
2	Misc. & unforeseen exp.	-	-	-	-	0	1562.2	1562.2
	TOTAL					13291	1562.2	14853.2

ABSTRACT OF YEARWISE MODEL COST

S.No	Year	Labour	Material	Total
1	0 Year (Advance Work)	27252	18806.32	46058.3
2	Planting Year	124111	71090.8	195202
3	I Year Maintenance	100849	27128.78	127978
4	II Year Maintenance	60871	14509.2	75380.2
5	III Year Maintenance	13291	1562.2	14853.2
6	IV Year Maintenance	13291	1562.2	14853.2
7	V Year Maintenance	13291	1562.2	14853.2
8	VI Year Maintenance	13291	1562.2	14853.2
9	VII Year Maintenance	13291	1562.2	14853.2
10	VIII Year Maintenance	13291	1562.2	14853.2
11	IX Year Maintenance	13291	1562.2	14853.2
12	X Year Maintenance	13291	1562.2	14853.2
	TOTAL	419411	144032.7	563444

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