

Estimate of Medicinal plant under Transmission Line
220 KV DCRVPL Ajmer
Proposal No. FP/RJ/TRANS/29091/2017

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

1	Unit-5 Ha. (1.1 Km Length of Transmission Line)	5	Wage Rate - 201 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. 530000
4	Unit for Model Calculation - 1 Ha.		

S.N.	Item of Work	Qty.	Unit	Rate in Rs.	Labour Rs.	Material Rs.	Total Rs.
Year 0 - ADVANCE WORK							
1	Survey, demarcation and layout	1	Ha.	112	112	0	112
2	Dividing area in subplots, their marking on ground & preparation of map	1	Ha.	182	182	0	182
3	Layout for excavation of pits	2000	Nos.	0.74	1480	0	1480
4	Digging of pits						
(i)	0.45x0.45x0.45 cm.	625	Nos.	11.75	7344	0	7344
(ii)	0.30x0.30x0.30 cm.	1375	Nos.	3.55	4881	0	4881
5	Construction of loose some check dam in nallahs lead upto 200 m.	50	Cum	228.5	11425	0	11425
6	Construction of thatched cattle guard hut (one time L.S.)	Prorata	-	-	0	7500	7500
7	Purchase of tools & plants (one time L.S.)	Prorata	-	-	0	1000	1000
8	Purchase of water storage tank (one time L. S.)	Prorata	-	-	0	5000	5000
9	Purchase of sign board & its fixing(one time LS)	Prorata	-	-	0	500	500
10	Miscellaneous & unforeseen exp.		-	-	0	3576	3576
	TOTAL				25424	17576	43000

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	44000	44000
2	Treatment of pit soil with insecticide	2000	Nos.	0.42	840	0	840
3	Local transport and planting of Plants(in bags size 15x22.5) with treatment & initial watering.	2000	Nos.	14.4	28800	0	28800
4	Construction of half crescent shaped Thanwala of at least 45 cm Radius.	2000	Nos.	7.25	14500	0	14500
5	Fertilizer application urea dose 2 time (2000x2)	4000	Nos.	0.42	1680	0	1680
6	Purchase of fertilizer for plants	Prorata	-	-	0	2000	2000
7	Weeding & Hoeing work 2 times	4000	Nos.	4.1	16400	0	16400
8	Watering 3 times except rainy season 15 lit. per plants (2000x3)	6000	Nos.	4.85	29100	0	29100
9	Purchase of water @ 300/tanker of 3000 lit.	30	Tanker	300	0	9000	9000
10	Hoeing of plants after every watering	6000	Nos.	2.2	13200	0	13200
11	Purchase of Insecticide	Prorata	-	-	0	3000	3000
12	Watch & Ward for 12 month @ 5226/month (one C.G. for 5 ha.)	12	Month	1045	12540		12540
13	Miscellaneous exp.		-	-	0	8440	8440
	TOTAL				117060	66440	183500

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Casualty replacement-20%

a) Cost of plants	440	Nos.	20	0	8800	8800
(b) Redigging of pits :-						
(i) 0.45x0.45x0.45 Mt.	125	Nos.	6.15	769	0	769
(ii) 0.30x0.30x0.30 Mt.	275	Nos.	1.85	509	0	509
(c) Transportation of plants & Planting including all activities & initial watering for casulty replacement.	400	Nos.	14.4	5760	0	5760
(d) Soil treatment	400	Nos.	0.42	168	0	168
2 Weeding & Hoeing work 2 times	4000	Nos.	4.1	16400	0	16400
3 Watering of plants 4 times	8000	Nos.	4.85	38800	0	38800
4 Hoeing of plants after each watering (4 times) (2000x4)	8000	Nos.	2.2	17600	0	17600
5 Repair of Thanwla	2000	Nos.	1.3	2600	0	2600
6 Cost of water @ 300/tanker of 3000 ltr.	40	Tanker	300	0	12000	12000
7 Watch & ward (1/5) for 12 months @ 1045x12 month	12	month	1045	12540	0	12540
8 Misc. & unforeseen exp.	-	-	-	0	4554	4554
TOTAL				95146	25354	120500

3rd Year Operation (IInd year Maintenance)

S.N.	Details of Activities	Qty.	Unit	Rate	Labour	Material	Amount
1	Watering of plants 3 times.	6000	Nos.	4.85	29100	0	29100
2	Hoeing of plants after each watering	6000	Nos.	2.2	13200	0	13200
3	Repair of Thanwla once	2000	Nos.	1.3	2600	0	2600
4	Cost of water @ 300/tanker of 3000 ltr.	30	Tanker	300	0	9000	9000
5	Watch & ward (1/5) for 12 months @ 1045x12 month	12	Month	1045	12540	0	12540
6	Misc. & unforeseen exp.		LS	-	0	4560	4560
	TOTAL				57440	13560	71000

4th Year Operation (3rd year Maintenance)

S.N.	Details of Activities	Qty.	Unit	Rate	Labour	Material	Total
1	Watch & ward for 12 months 5226/5 = 1045x12	12	Month	1045	12540	0	12540
2	Misc. & unforeseen exp.				0	1460	1460
	TOTAL				12540	1460	14000

5th Year Operation (4th year Maintenance)

S.N.	Details of Activities	Qty.	Unit	Rate	Labour	Material	Total
1	Watch & ward for 12 months 5226/5 = 1045x12	12	Month	1045	12540	0	12540
2	Misc. & unforeseen exp.				0	1460	1460
	TOTAL				12540	1460	14000

6th Year Operation (5th year Maintenance)

S.N.	Details of Activities	Qty.	Unit	Rate	Labour	Material	Total
1	Watch & ward for 12 months 5226/5 = 1045x12	12	Month	1045	12540	0	12540
2	Misc. & unforeseen exp.				0	1460	1460
	TOTAL				12540	1460	14000

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Watch & ward for 12 months 5226/5 = 1045x12	12	Month	1045	12540	0	12540
Misc. & unforeseen exp.				0	1460	1460
TOTAL				12540	1460	14000

8th Year Operation (7th year Maintenance)

S.N.	Details of Activities	Qty.	Unit	Rate	Labour	Material	Total
1	Watch & ward for 12 months 5226/5 = 1045x12	12	Month	1045	12540	0	12540
2	Misc. & unforeseen exp.				0	1460	1460
	TOTAL				12540	1460	14000

9th Year Operation (8th year Maintenance)

S.N.	Details of Activities	Qty.	Unit	Rate	Labour	Material	Total
1	Watch & ward for 12 months 5226/5 = 1045x12	12	Month	1045	12540	0	12540
2	Misc. & unforeseen exp.				0	1460	1460
	TOTAL				12540	1460	14000

10th Year Operation (9th year Maintenance)

S.N.	Details of Activities	Qty.	Unit	Rate	Labour	Material	Total
1	Watch & ward for 12 months 5226/5 = 1045x12	12	Month	1045	12540	0	12540
2	Misc. & unforeseen exp.				0	1460	1460
	TOTAL				12540	1460	14000

11th Year Operation (10th year Maintenance)

S.N.	Details of Activities	Qty.	Unit	Rate	Labour	Material	Total
1	Watch & ward for 12 months 5226/5 = 1045x12	12	Month	1045	12540	0	12540
2	Misc. & unforeseen exp.				0	1460	1460
	TOTAL				12540	1460	14000

ABSTRACT OF YEARWISE MODEL COST

S. No.	Year	Labour	Material	Total
1	0 Year (Advance Work)	25424	17576	43000
2	Planting Year	117060	66440	183500
3	I Year Maintenance	95146	25354	120500
4	II Year Maintenance	57440	13560	71000
5	III Year Maintenance	12540	1460	14000
6	IV Year Maintenance	12540	1460	14000
7	V Year Maintenance	12540	1460	14000
8	VI Year Maintenance	12540	1460	14000
9	VII Year Maintenance	12540	1460	14000
10	VIII Year Maintenance	12540	1460	14000
11	IX Year Maintenance	12540	1460	14000
12	X Year Maintenance	12540	1460	14000
	TOTAL	395390	134610	530000

Medicinal Plant cast

$$= 3.01 \times 5.30.000$$

$$= 15.95.300$$

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