

CA Scheme Detail for 400 KV Ajmer (New) - Ajmer (RVPN)
Power Transmission line.

MODEL COST ESTIMATE FOR COMPENSATORY AFFORESTATION

ON DEGRADED FOREST LAND

UNIT : 50 Ha
PERIMETER: 60 M/Ha.
LABOUR RATE: Rs. 20/-/Day
COST ESTIMATE: in Rs./Ha.

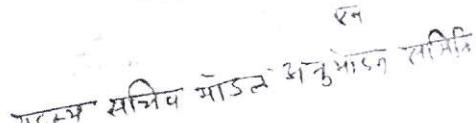
0 YEAR (ADVANCE ACTION)

S.No.	ITEM OF WORK	RATE (Rs.)	LABOUR	MATERIAL	TOTAL
1	Collection of Basic Datas for Microplanning and carrying out joint forest management activities.	516 / ha.	469	47	516
2	Survey of area, layout of contour trenches, burrow pits and making of segments / plots	416 / ha.	369	47	416
3	Fencing by stone wall and or by ditch.				
	a.) Stone wall fencing 1.20 m high 0.80 m at base & 0.60 at top (on an average 30 m/ha.)	201 / rmt	6030	0	6030
	b.) Ditch fencing 1.20m deep, 1.50m wide at top & 0.90m at bottom (on an average 30m/ha.)	219 / rmt	6570	0	6570
4	Cost of raising 770 seedlings	3.57 / plant	1716	1033	2749
5	Digging up 300 rmt Staggered Contour Trenches 45x45cm cross section on middle slopes and V-ditch as per site requirement	25.27 / rmt	7581	0	7581
6	Digging of 300 pits size: $0.45 \times (0.4 + 0.5/2)2$ cum	15.72 / pit	4716	0	4716
7	Cost of collection and purchase of grass and other seeds of trees and shrubs	Prorata	0	183	183
8	Treatment of Nallas by constructing series of Checkdams of dry ramdom trubble / earthan / brushwood	Prorata	586	0	586
9	Construction of Thatched cattle guard hut	Prorata	108	73	181
10	Purchase or construction of water storage tank.	Prorata	64	45	109
11	Labour aminities	Prorata	73	80	153
12	Watch and ward for 4 months @ 13600/-	Prorata	1157	0	1157
13	Purchase of Tools and Plants		0	103	103
14	Construction of 50 mt. long contour dykes of 30X30 cm. cross section on upper slopes and sowing of suitable thorny shrub species seeds along its inner side	27.20 / rmt.	1360	0	1360
15	Construction of the pillars of appropiate size for gate.	Prorata	64	91	155
16	Purchase of signboards & fixing at site	Prorata	25	86	111
17	Misc. and unforeseen expenses including POL for vehicles	Prorata	224	101	325
	TOTAL YEAR 0		31112	1889	33001
19	Administrative charges 10%				3300
				TOTAL	36301

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YEAR I (PLANTING YEAR)

1	Collection of datas regarding impact assessment and strengthening Joint Forest Management.	Prorata	0	68	68
2	Maintenance of 770 seedling in nursery	1.90 / plant	1338	125	1463
3	Digging of 400 pits of size 0.45 (4+5/2)*2 Cum	15.72 / pit	6288	0	6288
4	In situ soil and moisture conservation measures like check dam, nadies, earthen bunds etc.	Prorata	2284	227	2511
5	Digging of 30cmX30 cm cross section trench along inner side of stone wall fencing and seed sowing (60 mt. / ha.)	11.12 per rmt.	649	18	667
6	Sowing/dibbling of seeds of grass /thorny trees species on the mounds of contour trench and ditch fencing etc. (370 m / ha.)	0.53/m	184	12	196
7	Purchase of insecticide and Fertilizers	0.77/ plant	0	539	539
8	Sowing of pellats of grass/piece of seed mud cakes of grass seeds between row of pits by ploughing and furrowing.	Prorata	455	0	455
9	Transportation of 700 plants from nursery to planting site	1.27 / plant	847	42	889
10	Planting of 700 seedlings including Refilling of pits	3.66 / plant	2562	0	2562
11	Watering (if sufficient rains are not there) & application of insecticide in 700 plants at the time of planting.	2.83/ plant	1981	0	1981
12	Restoration of natural regeneration by making crescent shaped mounds on the lower slopes of seedling and sapling and making ring tranches around the natural trees / shrubs (150 plants / ha)	3.66 / plant	549	0	549
13	Making of crescent shaped mounds below planted sapling after planting and dibbing of 3 seeds of thorny tree species. (700 plants / ha)	3.20 / plant	2240	0	2240
14	Weeding and hoeing of 700 plants in 2 time. Repairing of plants mound	3.19 / plant	4466	0	4466
15	Weeding on contour trenches and 'V' ditches and spacement / singling.	Prorata	471	0	471
16	Raising of 70 seedlings in nursery for casualty replacement in year-2 (10% of 700)	3.66 / seedling	162	94	256
17	Watch and ward for 12 months @ Rs 13600/- month	prorata	3471	0	3471
18	Labour aminties and hut repair.	Prorata	291	46	337
19	Construction of approach road / inspection path	Prorata	342	0	342
20	Construction of gate and fixing of sign board	Prorata	455	75	530
21	Micellaneous and unforeseen expenditure	Prorata	138	30	168
TOTAL YEAR 1			29173	1276	30449
22 Admin strative charges 10%					3045
				TOTAL	33494



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FIRST YEAR MAINTENANCE (YEAR 2)

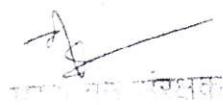
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0	68	68
2	Maintenance of 70 Seedling in nursery for casualty replacement in year-2	1.90 / plant	114	19	133
3	Repair of fencing	Prorata	201	0	201
4	Casualty replacement 70 plants including redigging of pits, transportation planting, watering and application of insecticides	10.34 / plant	688	36	724
5	Weeding and Hoeing in 700 plants in pits two times	3.20 / Plant	4480	0	4480
6	Watch and ward for 12 months @13600/-	prorata / ha	3471	0	3471
7	Misc. and unforeseen expences including (additional watering and forest protection measures etc	prorata	304	222	526
	TOTAL YEAR 2		9258	345	9603
8	Administrative Charges 10%				960
	TOTAL				10563

**SUBSEQUENT MAINTENANCE
(YEAR 3 TO 12)**

1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0	68	68
2	Watch and ward for 12 months @ 13600/-	prorata	3471	0	3471
3	Misc and unforseen expenditure including (repairing of fencing / structures pruning etc.	prorata	618	270	888
4	TOTAL YEAR 3.		4089	338	4427
5	Administrative charges 10%				443
				Total	4870

GRAND TOTAL

0Year	36301
First Year	33494
Second Year	10563
Third Year	4870
Fourth Year	4870
Fifth Year	4870
Sixth year	4870
Seventh year	4870
Eighth year	4870
Ninth Year	4870
Tenth Year	4870
Eleventh Year	4870
Twelth Year	4870
TOTAL	128920
Say	129000/-



CADFL for 400 KV PTL

$$= 6.35 \times 2 \times 129000 \text{ /}$$

$$= 16,38,300 \text{ /}$$