

**MODEL COST ESTIMATES FOR COMPENSATORY AFFORESTATION
ON ALLOTTED NON FOREST LAND**

UNIT : 50 Ha
PERIMETER: 60 M/Ha.
LABOUR RATE: Rs.213/Day
COST ESTIMATE: in Rs./Ha.

ADVANCE ACTION (0 YEAR)

S.No.	ITEMS	RATE (Rs.)	LABOUR COMPONENT	MATERIAL COMPONENT	TOTAL
1	Collection of Basic Datas for Microplanning and carrying out joint forest management activities.	544 / ha	497	50.29	547
2	Survey of area, lay out of contour trenches, burrowpits and making of segments / plots	438/ha	391	50.29	441
3	Fencing by stone wall and or by ditch.			0	
	a.) Stone wall fencing 1.20m high 0.80m at base & 0.60 at top (on an average 30m/ha.)	213/rmt	6390	0	6390
	b.) Ditch fencing 1.20m deep, 1.50m wide at top & 0.90m at bottom (on an average 30m/ha.)	232.1/rmt	6963	0	6963
4	Cost of raising 1210 seedlings in nursery.	3.71/- per	2872	1730.19	4602
5	Digging of 500 pits size: 0.45x(.4+.5/2) ²	16.66/ pit	8330	0	8330
6	Digging up 400 rmt Staggered Contour Trenches 45x45cm cross section on middle slopes and V-ditch as per site requirement	26.78/rmt	10712	0	10712
7	Construction of 15 mt. long contour dykes of 30X30 cm. cross section on upper slopes and sowing of suitable thorny shrub species seeds along its innerside	28.86/ rmt.	433	0	433
8	Treatment of Nallas by construction series of Checkdams of dry random rubble/earthan/brushwood	Prorata	621	0	621
9	Construction of the pillars of appropriate size and fixing of iron pipe gate with four square column	Prorata	68	97.37	165
10	Construction of approach road and inspection path	Prorata	235	0	235
11	Watch and ward @15325 per month for 4 months	Prorata	1226	0	1226
12	Construction of Thatched cattle guard hut.	Prorata	120	78.11	198
13	Cost of grass and other seeds	Prorata	0	24.89	243
14	Labour amenities	Prorata	78	85.6	164
15	Purchase of tools and plants	Prorata	0	110.21	110
16	Purchase or construction of water storage tank.	Prorata	67	48.15	115
17	Purchase of signboards and their fixing	Prorata	27	92.02	119
18	Misc. and unforeseen expenses including running of vehicles.	Prorata	127	162.64	290
	TOTAL YEAR 0		39157	2747.76	41905
19	Administrative charges 10%				4190
	TOTAL				46095

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YEAR I (PLANTING YEAR)

1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0	72.76	73
2	Layout of of staggered/continuous contour trenches, V-ditches, contour dykes and pits etc. by contour survey in 1/4th area	67/ha	67	0	67
3	Digging of 600 pits of size 0.45 (4+5/2)*2 Cum	16.66/ pit.	9996	0	9996
4	Construction of silt detention dams/smal anicut/check dams, etc.	Prorata	2671	255.73	2927
5	Maintenance of 1210 seedling in nursery	2.00 / plant	2101	341.33	2442
6	Restoration of natural regeneration by making crescent shapad mounds on the lower slopes of seedling and sapling and making ring trenches around the natural trees/shrubs. (150 plant/ ha)	3.88/plant	582	0	582
7	Sowing of pellats of grass/pieces of seed mud cakes of grass seeds between row of pits by ploughing and furrowing.	Prorata	832	62.06	894
8	Sowing/dibbling of seeds of shurb species on the mounds of staggered/continuous contour trenches, "V" ditch and ditch fencing including pretreatment of seeds (370 rmt.)	0.56/ rmt.	196	11.77	208
9	Sowing of seeds of shrub spp. on 60 mt. "V" ditch	Prorata	35	3.21	38
10	Transportation of 1100 plants from nursery to planting site	1.34/plant	1410	68.48	1478
11	Planting of 1100 seedlings including Refilling of pits	3.88/plant	4268	0	4268
12	Making of 1100 crescent shaped mounds below planted sapling after planting and dibbling 2 or 3 seeds of shrub species on the mound.	3.39/plant	3729	0	3729
13	Spot watering & application of insecticides in 1100 plants in case of advance planting.	3.00/plant	3300	0	3300
14	Additional watering in case of long drought spell with insecticide.	3.00/plant	3300	0	3300
15	Weeding and hoeing of 1100 plants in 2 times.	3.38/plant	7436	0	7436
16	One additional hoeing of 1100 plants.	1.93/ plant	2123	0	2123
17	Wedding and hoeing on staggered/ continuous contour trenches and 'V' ditch including Singling/spacement in the	Prorata	669	0	669
18	Purchase of insecticide and Fertilizers for 1100 plants.	0.77/plant	0	906.29	906
19	Raising of 110 seedilings in nursery for casualty replacement in year-2 (10% of 1100)	3.71/seedling	261	157.29	418
20	Watch and ward @15325 per month for 12 months	prorata	3678	0	3678
21	Special protection of frost tender species.	Prorata	35	36.38	71
22	Labour aminities.	Prorata	165	23.54	189
23	Repairs of fencing.	193/hact.	195	9.63	205
24	Repairs of check dams.	Prorata	71	5.35	76
25	Micellaneous and unforeseen expenditure.	Prorata	132	117.7	250
TOTAL YEAR 1			47252	2071.52	49324
26	Administrative charges 10%				4932
TOTAL					54256

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First Year Maintenance (year 2)

1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0	72.76	73
2	Maintenance of 110 Seedling in nursery for casualty replacement in 2nd year	2.00 /plant	191	31.03	222
3	Casualty replacement 110 plants including redigging of pits, transportation planting, watering	10.92/plant	1137	69.55	1207
4	Sowing/dibbling of seeds of shurb species on the mounds of staggered/continuous contour trenches, "V" ditch and ditch fencing including pretreatment of seeds (185 m.)	0.58/ rmt	102	5.35	107
5	Weeding and hoeing in 1100 plants in pits two times	3.38/plant	7436	0	7436
6	Wedding and hoeing on staggered/ continuous contour trenches and 'V' ditch including Singling/ spacemnt in the line sowing. (185 rmt.)	3.62/plant	670	0	670
7	Repair of fencing	204/ha.	195	9.63	205
8	Repairing of Check dams	Prorata	136	11.77	148
9	Pruning of Trees species to boost up the growth	Prorata	207	12.84	220
10	Wages of Chowkidar @ Rs.15325/ month (only applicable to work chage employee)	prorata	3678	0	3678
11	Misc. and unforeseen expenditure	prorata	121	67.41	188
TOTAL YEAR 2			13873	280	14153
12	Administrative charges 10%				1415
TOTAL					15569

SUBSEQUENT MAINTENANCE (YEAR 3 TO 12)

1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0	72.76	73
2	Sowing/dibbling of seeds of shurb species on the mounds of staggered/continuous contour trenches, "V" ditch and ditch fencing including pretreatment of seeds (185 m.)	0.58/ rmt.	102	5.35	107
3	Repair of fencing	204/hact.	195	9.63	205
4	Repairing of Check dams	Prorata	7	6.42	13
5	Pruning of Trees species to boost up the growth	Prorata	103	4.28	107
6	Wages of Chowkidar @ Rs. 15325/- month (only applicable to work chage employee)	prorata	3678	0	3678
7	Maintenance of Vehicles	prorata	95	100.58	196
TOTAL YEAR 3.			4180	199	4379
Administrative charges 10%					438
Total					4817

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GRAND TOTAL	
0Year	46095
First Year	54256
Second Year	15569
Third Year	4817
Fourth Year	4817
Fifth Year	4817
Sixth Year	4817
Seventh Year	4817
Eighth year	4817
Ninth Year	4817
Tenth Year	4817
Eleventh Year	4817
Twelfth Year	4817
Total	164089
Say	164100



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