

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

UNIT :
PERIMETER:
LABOUR RATE:
COST ESTIMATE:

50 Ha
60 M/Ha.
Rs.259/Day
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 managment activities.	575 / ha	604.35	50.29	655
2	Survey of area, lay out of contour trenches, burrowpits and making of segments / plots	463/ha	475.44	50.29	526
3	Fencing by stone wall and or by ditch.		0.00	0	
X	a.) Stone wall fencing 1.20m high 0.80m at base & 0.60 at top (on an average 30m/ha.)	225/rmt	7770.00	0	7770
	b.) Ditch fencing 1.20m deep, 1.50m wide at top & 0.90m at bottom (on an average 30m/ha.)	245.16/rmt	8466.75	0	8467
	Cost of raising 1210 seedlings in nursery.	3.93/- per	3492.24	1730.19	5222
5	Digging of 500 pits size: $0.45 \times (.4 + .5/2) \times 2$	17.59/ pit	10128.97	0	10129
6	Digging up 400 rmt Staggered Contour Trenches 45x45cm cross section on middle slopes and V-ditch as per site requirement	28.28/rmt	13025.39	0	13025
A	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	30.46/rmt.	526.51	0	527
8	Treatment of Nallas by construction series of Checkdams of dry ramdom rubble/earthan/brushwood	Prorata	755.11	0	755
9	Construction of the pillars of appropriate size and fixing of iron pipe gate with four square column	Prorata	82.69	97.37	180
10	Construction of approach road and inspection path	Prorata	285.75	0	286
11	Watch and ward @15325 per month for 4 months	Prorata	1490.77	0	1491
12	Construction of Thatched cattle guard hut.	Prorata	145.92	78.11	224
13	Cost of grass and other seeds	Prorata	0.00	242.89	243
14	Labour aminities	Prorata	94.85	85.6	180
15	Purchase of tools and plants	Prorata	0.00	110.21	110
16	Purchase or construction of water storage tank.	Prorata	81.47	48.15	130
17	Purchase of signboards and their fixing	Prorata	32.83	92.02	125
18	Misc. and unforeseen expenses including running of vehicles	Prorata	154.43	162.64	317
	TOTAL YEAR 0		47613.44	2747.76	50361
19	Administrative charges 10%				5036
	TOTAL				55397

12/11/2018

30

YEAP I (PLANTING YEAR)

1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	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	71/ha	81.47	0	81
3	Digging of 600 pits of size 0.45 (4+5/2)*2 Cum	17.59/ pit.	12154.76	0	12155
4	Construction of silt detention dams/smal anicut/check dams, etc.	Prorata	3247.84	255.73	3504
5	Maintenance of 1210 seedling in nursery	2.11/ plant	2554.74	341.33	2896
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)	4.1/plant	707.69	0	708
7	Sowing of pellats of grass/pieces of seed mud cakes of grass seeds between row of pits by ploughing and furrowing.	Prorata	1011.68	62.06	1074
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.)	0.59/ rmt.	238.33	11.77	250
9	Sowing of seeds of shrub spp. on 60 mt. "V" ditch	Prorata	42.56	3.21	46
10	Transportation of 1100 plants from nursery to planting site	1.41/plant	1714.51	68.48	1783
11	Planting of 1100 seedlings including Refilling of pits	3.58/plant	5189.73	0	5190
12	Making of 1100 crescent shaped mounds below planted sapling after planting and dibbling 2 or 3 seeds of shrub species on the mound.	3.16/plant	4534.32	0	4534
13	Spot watering & application of insecticides in 1100 plants in case of advance planting.	3.16/plant	4012.68	0	4013
14	Additional watering in case of long drought spell with insecticide.	3.57/plant	4012.68	0	4013
15	Weeding and hoeing of 1100 plants in 2 times.	2.03/plant	9041.90	0	9042
16	One additional hoeing of 1100 plants.	1.93/ plant	2581.49	0	2581
17	Wedding and hoeing on staggered/ continuous contour trenches and 'v' ditch including Singling/spacement in the	Prorata	813.48	0	813
18	Purchase of insecticide and Fertilizers for 1100 plants.	0.82/plant	0.00	906.29	906
19	Raising of 110 seedilings in nursery for casualty replacement in year-2 (10% of 1100)	3.93/seedling	317.37	157.29	475
20	Watch and ward @15325,per month for 12 months	prorata	4472.31	0	4472
21	Special protection of frost tender species.	Prorata	42.56	36.38	79
22	Labour aminities.	Prorata	200.63	23.54	224
23	Repairs of fencing.	193/hact.	237.11	9.63	247
24	Repairs of check dams.	Prorata	86.33	5.35	92
25	Micellaneous and unforeseen expenditure.	Prorata	160.51	117.7	278
	TOTAL YEAR 1		57456.66	2071.52	59528
26	Administrative charges 10%				5953
	TOTAL				65481

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First Year Maintenance (Year 2)

1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	72.76	73
2	Maintenance of 110 Seedling in nursery for casualty replacement in 2nd year	2.15 /plant	232.25	31.03	263
3	Casualty replacement 110 plants including redigging of pits, transportation planting, watering	11.55/plant	1382.55	69.55	1452
4	Sowing/dibbling of seeds of shrub species on the mounds of staggered/continuous contour trenches, "V" ditch and ditch fencing including pretreatment of seeds (185 m.)	0.61/ rmt.	124.03	5.35	129
5	Weeding and Hoeing in 1200 plants in pits two times	3.57/plant	9041.90	0	9042
6	Wedding and hoeing on staggered/ continuous contour trenches and "V" ditch including Singling/ spacemnt in the line sowing. (185 rmt.)	3.82/plant	814.69	0	815
7	Repair of fencing	216/-ha.	237.11	9.63	247
8	Repairing of Check dams	Prorata	165.37	11.77	177
9	Pruning of Trees species to boost up the growth	Prorata	251.70	12.84	265
10	Wages of Chowkidar @ Rs.15325/ month (only applicable to work chage employee)	prorata	4472.31	0	4472
11	Misc. and unforeseen expenditure	prorata	147.13	67.41	215
TOTAL YEAR 2			16869.05	280	17149
12	Administrative charges 10%				1715
TOTAL					18864

SUBSEQUENT MAINTENANCE (YEAR 3 TO 12)

1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	72.76	73
2	Sowing/dibbling of seeds of shrub species on the mounds of staggered/continuous contour trenches, "V" ditch and ditch fencing including pretreatment of seeds (185 m.)	0.61/ rmt.	124.03	5.35	129
3	Repair of fencing	216/hact.	237.11	9.63	247
4	Repairing of Check dams	Prorata	8.51	6.42	15
5	Pruning of Trees species to boost up the growth	Prorata	125.24	4.28	130
6	Wages of Chowkidar @ Rs. 15325/- month (only applicable to work chage employee)	prorata	4472.31	0	4472
7	Maintenance of Vehicles	prorata	115.52	100.58	216
TOTAL YEAR 3.			5082.72	199	5282
Administrative charges 10%					528
				Total	5810

GRAND TOTAL	
OYear	55397
First Year	65481
Second Year	18864
Third Year	5810
Fourth Year	5810
Fifth Year	5810
Sixth Year	5810
Seventh Year	5810
Eighth year	5810
Ninth Year	5810
Tenth Year	5810
Eleventh Year	5810
Twelth Year	5810
Total	107042
	108000

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 उप वन संरक्षक (प्रशासक)
 प्रधान मुख्य वन संरक्षक
 प्रशिक्षण, अनुसंधान, शिक्षा एवं प्रकाश

(अमर सिंह गोडवाल)
 मुख्य वन संरक्षक (आयोजना),
 राजस्थान, जयपुर