

# MODEL COST ESTIMATES FOR COMPENSATORY AFFORESTATION

ON ALLOTTED NON FOREST LAND

UNIT : 50 Ha  
PERIMETER: 60 M/Ha.  
LABOUR RATE: Rs. 166/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 managment activities.	434 / ha	387	47	434.00
2	Survey of area, lay out of contour trenches, burrowpits and making of segments / plots	352/ha	305	47	352.00
3	Fencing by stone wall and or by ditch.				0.00
	a.) Stone wall fencing 1.20m high 0.80m at base & 0.60 at top (on an average 30m/ha )	166/rmt	4980		4980.00
	b.) Ditch fencing 1.20m deep, 1.50m wide at top & 0.90m at bottom (on an average 30m/ha )	180.76/rmt	5423		5423.00
4	Cost of raising 1210 seedlings in nursery.	3.18/- per	2232	1617	3849.00
5	Digging of 500 pits size: 0.45x(.4+ .5/2)2	12.98/ pit	6490		6490.00
6	Digging up 400 rmt Staggered Contour Trenches 45x45cm cross section on middle slopes and V-ditch as per site requirement	20.87/rmt	8348		8348.00
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	22.47/ rmt.	337		337.00
8	Treatment of Nallas by construction series of Checkdams of dry ramdom rubble/earthan/brushwood	Prorata	484		484.00
9	Construction of the pillars of appropriate size and fixing of iron pipe gate with four square column	Prorata	53	91	144.00
10	Construction of approach road and inspection path	Prorata	183		183.00
11	Watch and ward @9720 per month for 4 months	Prorata	957		957.00
12	Construction of Thatched cattle guard hut.	Prorata	93	73	166.00
13	Cost of grass and other seeds	Prorata		227	227.00
14	Labour amunities	Prorata	61	80	141.00
15	Purchase of tools and plants	Prorata		103	103.00
16	Purchase or construction of water storage tank.	Prorata	52	45	97.00
17	Purchase of signboards and their fixing	Prorata	20	86	106.00
18	Misc. and unforeseen expenses including running of vehicles	Prorata	101	159	260.00
	<b>TOTAL YEAR 0</b>		<b>30506</b>	<b>2575</b>	<b>33081.00</b>
19	Administrative charges 10%				3308.10
	<b>TOTAL</b>				<b>36389.10</b>

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1/3/84 (10/1/84)  
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**YEAR I ( PLANTING YEAR )**

1	Collection of datas regarding impact assesment and strengthening Joint Forest Management	Prorata		68	68.00
2	Layout of of staggered/continuous contour trenches, V-ditches, contour dykes and pits etc. by contour survey in 1/4th area	52/ha	52		52.00
3	Digging of 600 pits of size 0.45 (4+5/2)*2 Cum	12.98/ pit.	7788		7788.00
4	Construction of silt detention dams/smal anicut/check dams, etc.	Prorata	2082	239	2321.00
5	Maintenance of 1210 seedling in nursery	1.61 / plant	1629	319	1948.00
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)	3.03/plant	454		454.00
7	Sowing of pellats of grass/pieces of seed mud cakes of grass seeds between row of pits by ploughing and furrowing.	Prorata	648	58	706.00
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.)	0.45/ rmt.	155	11	166.00
9	Sowing of seeds of shrub spp. on 60 mt. "V" ditch	Prorata	27	3	30.00
10	Transportation of 1100 plants from nursery to planting site	1.07/plant	1108	64	1172.00
11	Planting of 1100 seedlings including Refilling of pits	3.02/plant	3322		3322.00
12	Making of 1100 crescent shaped mounds below planted sapling after planting and dibbling 2 or 3 seeds of shrub species on the mound.	2.64/plant	2904		2904.00
13	Spot watering & application of insecticides in 1100 plants in case of advance planting.	2.34/plant	2574		2574.00
14	Additional watering in case of long drought spell with insecticide.	2.34/plant	2574		2574.00
15	Weeding and hoeing of 1100 plants in 2 times	2.64/plant	5808		5808.00
16	One additional hoeing of 1100 plants.	1.5/ plant	1650		1650.00
17	Wedding and hoeing on staggered/ continuous contour trenches and 'V' ditch including Singling/spacement in the line sowing.	Prorata	521		521.00
18	Purchase of insecticide and Fertilizers for 1100 plants.	0.77/plant		847	847.00
19	Raising of 110 seedilings in nursery for casualty replacement in year-2 (10% of 1100)	3.18/seedling	203	147	350.00
20	Watch and ward @9720 per month for 12 months	prorata	2869		2869.00
21	Special protection of frost tender species	Prorata	27	34	61.00
22	Labour amunities.	Prorata	128	22	150.00
23	Repairs of fencing.	160/hact.	152	9	161.00
24	Repairs of check dams.	Prorata	55	5	60.00
25	Micellaneous and unforeseen expenditure.	Prorata	104	109	213.00
<b>TOTAL YEAR 1</b>			<b>36834</b>	<b>1935</b>	<b>38769.00</b>
26	Administrative charges 10%				3876.90
<b>TOTAL</b>					<b>42645.90</b>

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First Year Maintenance ( year 2)					
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata		68	68.00
2	Maintenance of 110 Seedling in nursery for casualty replacement in 2nd year	1.61 /plant	148	29	177.00
3	Casualty replacement 110 plants including redigging of pits; transportation planting, watering	8.63/plant	885	65	950.00
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.)	0.45/ rmt.	79	5	84.00
5	Weeding and Hoeing in 1100 plants in pits two times	2.64/plant	5808		5808.00
6	Wedding and hoeing on staggered/ continuous contour trenches and 'V' ditch including Singling/ spacement in the line sowing. (185 rmt.)	2.82/plant	521		521.00
7	Repair of fencing	161/-ha.	152	9	161.00
8	Repairing of Check dams	Prorata	105	11	116.00
9	Pruning of Trees species to boost up the growth	Prorata	161	12	173.00
10	Wages of Chowkidar @ Rs. 9720/ month (only applicable to work chage employee)	prorata	2867		2867.00
11	Misc. and unforeseen expenditure	prorata	103	63	166.00
	<b>TOTAL YEAR 2</b>		<b>10829</b>	<b>262</b>	<b>11091.00</b>
12	Administrative charges 10%				1109.10
	<b>TOTAL</b>				<b>12200.10</b>

SUBSEQUENT MAINTENANCE (YEAR 3 TO 12)					
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata		68	68.00
2	Repair of fencing	161/hact.	152	9	161.00
3	Repairing of Check dams	Prorata	5	6	11.00
4	Pruning of Trees species to boost up the growth	Prorata	80	4	84.00
5	Wages of Chowkidar @ Rs. 9720/- month (only applicable to work chage employee)	prorata	2869		2869.00
6	Maintenance of Vehicles	prorata	154	97	251.00
	<b>TOTAL YEAR 3.</b>		<b>3260</b>	<b>184</b>	<b>3444.00</b>
	Administrative charges 10%				344.40
	<b>Total</b>				<b>3788.40</b>

GRAND TOTAL			
0Year	36389.10		
First Year	42645.90		
Second Year	12200.10		
Third Year	3788.40		
Fourth Year	3788.40		
Fifth Year	3788.40		
Sixth Year	3788.40		
Seventh Year	3788.40		
Eighth year	3788.40		
Ninth Year	3788.40		
Tenth Year	3788.40		
Eleventh Year	3788.40		
Twelth Year	3788.40		
<b>Total</b>	<b>129119.10</b>		

Say

$$129150 \times 2.2249 = 286713/-$$

48  
(मनमूल निग)  
उ.व.स. (प.स.)  
म.स.व.स. (वि.म.स.ई.ई.)  
राज. जयपुर

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