

**MODEL COST ESTIMATE FOR COMPENSATORY AFFORESTATION  
ON DEGRADED FOREST LAND**

UNIT : 50 Ha  
PERIMETER: 60 M/Ha.  
LABOUR RATE: Rs. 259/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.	575/ ha	604	50	655
2	Survey of area, layout of contour trenches, burrow pits and making of segments / plots	463 / ha.	475	50	526
3	Fencing by stone wall and or by ditch.		0	0	
	a.) Stone wall fencing 1.20 m high 0.80 m at base & 0.60 at top (on an average 30 m/ha.)	225 / rmt	7770	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	8467	0	8467
4	Cost of raising 770 seedlings	3.93/ plant	2218	1105	3323
5	Digging up 300 rmt Staggered Contour Trenches 45x45cm cross section on middle slopes and V-ditch as per site	28.28 / rmt	9769	0	9769
6	Digging of 300 pits size: 0.45x(0.4+0.5/2)2 cum	17.6 / pit	6077	0	6077
7	Cost of collection and purchase of grass and other seeds of trees and shrubs	Prorata	0	196	196
8	Treatment of Nallas by constructing series of Checkdams of dry random rubble / earthen / brushwood	Prorata	755	0	755
9	Construction of Thatched cattle guard hut	Prorata	140	78	218
10	Purchase or construction of water storage tank.	Prorata	81	48	130
11	Labour amenities	Prorata	95	86	180
12	Watch and ward for 4 months @ 15325/-	Prorata	1491	0	1491
13	Purchase of Tools and Plants		0	110	110
14	Construction of 50 mt. long contour dykes of 30X30 cm. cross section on upper slopes and sowing of suitable thorny shrub	30.46 / rmt	1753	0	1753
15	Construction of the pillars of appropriate size for gate.	Prorata	83	97	180
16	Purchase of signboards & fixing at site	Prorata	33	92	125
17	Misc. and unforeseen expenses including POL for vehicles	Prorata	288	108	396
	<b>TOTAL YEAR 0</b>		40100	2021	42121
19	Administrative charges 10%				4212
	<b>TOTAL</b>				<b>46333</b>

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**YEAR I ( PLANTING YEAR )**

1	Collection of data regarding impact assesment and strengthening Joint Forest Management.	Prorata	0	73	73
2	Maintenance of 770 seedling in nursery	2.11 / plant	1721	134	1854
3	Digging of 400 pits of size 0.45 (4+5/2)*2 Cum	17.73 / pit	8103	0	8103
4	In situ soil and moisture conservation measures like check dam, nadies, earthen bunds etc.	Prorata	2944	243	3187
5	Digging of 30cmX30 cm cross section trench along inner side of stone wall fencing and seed sowing (60 mt./ ha.)	12.43 per rmt	837	19	856
6	Sowing/dibbling of seeds of grass /thorny trees species on the mounds of contour trench and ditch fencing etc. ( 370 m / ha.)	0.59/m	237	13	250
7	Purchase of insecticide and Fertilizers.	0.82/ plant	0	577	577
8	Sowing of pellats of grass/piece of seed mud cakes of grass seeds between row of pits by ploughing and furrowing.	Prorata	586	0	586
9	Transportation of 700plants from nursery to planting site	1.41/ plant	1090	45	1134
10	Planting of 700 seedlings including Refilling of pits	4.09 / plant	3303	0	3303
11	Watering ( if sufficient rains are not there) & application of insecticide in 700 plants at the time of planting.	3.16/ plant	2554	0	2554
12	Restoration of natural regeneration by making crescent shapad mounds on the lower slopes of seedling and sapling and making ring tranches around the natural trees / shrubs. (150 plants / ha)	4.1 / plant	708	0	708
13	Making of crescent shaped mounds below planted sapling after planting and dibbing of 3 seeds of thorny tree species. ( 700 plants / ha)	3.58 / plant	2885	0	2885
14	Weeding and hoeing of 700 plants in 2 time. Repairing of plants mound	3.57/ plant	5754	0	5754
15	Weeding on contour tences and 'V' ditches and spacemnt / singling.	Prorata	608	0	608
16	Raising of 70 seedlings in nursery for casualty replacement in year-2 (10% of 700)	3.94 / seedling	202	101	302
17	Watch and ward for 12 months @.Rs.15325/-- month	prorata	4472	0	4472
18	Labour aminties and hut repair.	Prorata	375	49	424
19	Construction of approach road / inspection path	Prorata	440	0	440
20	Construction of gate and fixing of sign board	Prorata	586	80	666
21	Micellaneous and unforeseen expenditure.	Prorata	179	32	211
	<b>TOTAL YEAR 1</b>		37582	1365	38947
22	Administrative charges 10%				3895
				<b>TOTAL</b>	<b>42842</b>


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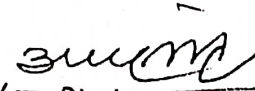
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# FIRST YEAR MAINTENANCE (YEAR 2)

1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0	73	73
2	Maintenance of 70 Seedling in nursery for casualty replacement in year-2	2.11 / plant	147	20	167
3	Repair of fencing	Prorata	259	0	259
4	Casualty replacement 70 plants including redigging of pits, transportation planting, watering and application of insecticides	11.55/ plant	886	39	925
5	Weeding and Hoeing in 700 plants in pits two times	3.57/ Plant	5754	0	5754
6	Watch and ward for 12 months @ 15325/-	prorata / ha	4472	0	4472
7	Misc. and unforeseen expences including (additional watering and forest protection measures etc.	prorata	390	238	628
TOTAL YEAR 2			11909	369	12278
8	Administrative Charges 10%				1228
TOTAL					13506
SUBSEQUENT MAINTENANCE (YEAR 3 TO 12)					
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0	73	73
2	Watch and ward for 12 months @ 15325/-	prorata	4472	0	4472
3	Misc. and unforeseen expenditure including (repairing of fencing / structures pruning etc.	prorata	798	289	1087
TOTAL YEAR 3			5270	362	5632
5	Administrative charges 10%				563
GRAND TOTAL			Total		6195
0Year					
First Year		46333			
Second Year		42842			
Third Year		13506			
Fourth Year		6195			
Fifth Year		6195			
Sixth year		6195			
Seventh year		6195			
Eighth year		6195			
Ninth Year		6195			
Tenth Year		6195			
Eleventh Year		6195			
Twelth Year		6195			
TOTAL		164629			
Say		165000			

  
 सप वन संरक्षक (प्रशासन)  
 प्रधान मुख्य वन संरक्षक  
 प्रशिक्षण, अनुसंधान, शिक्षा एवं वन्य  
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