



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

UNIT : 50 Ha
PERIMETER: 60 M/Ha.
LABOUR RATE: Rs. 225/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.	525	50	575
2	Survey of area, layout of contour trenches, burrow pits and making of segments / plots	463 / ha.	413	50	463
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	6750	0	6750
	b.) Ditch fencing 1.20m deep, 1.50m wide at top & 0.90m at bottom (on an average 30m/ha.)	245.16 / rmt	7355	0	7355
4	Cost of raising 770 seedlings	3.93/ plant	1927	1105	3032
5	Digging up 300 rmt Staggered Contour Trenches 45x45cm cross section on middle slopes and V-ditch as per site	28.28 / rmt	8487	0	8487
6	Digging of 300 pits size: 0.45x(0.4+0.5/2)2 cum	17.6 / pit	5280	0	5280
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	656	0	656
9	Construction of Thatched cattle guard hut	Prorata	121	78	200
10	Purchase or construction of water storage tank.	Prorata	71	48	119
11	Labour amenities	Prorata	82	86	168
12	Watch and ward for 4 months @ 15325/-	Prorata	1295	0	1295
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.	1523	0	1523
15	Construction of the pillars of appropriate size for gate.	Prorata	72	97	169
16	Purchase of signboards & fixing at site	Prorata	29	92	121
17	Misc. and unforeseen expenses including POL for vehicles	Prorata	250	108	358
	TOTAL YEAR 0		34836	2021	36857
19	Administrative charges 10%				3686
				TOTAL	40543



उप वन संरक्षक (प्रशासन)
प्रधान मुख्य वन संरक्षक
प्रशिक्षण, अनुसंधान, शिक्षा एवं पसार
राजस्थान, जयपुर


मुख्य वन संरक्षक, (आर्याजना)
राजस्थान, जयपुर

YEAR I (PLANTING YEAR)


1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0	73	73
2	Maintenance of 770 seedling in nursery	2.11 / plant	1495	134	1628
3	Digging of 400 pits of size 0.45 (4+5/2)*2 Cum	17.73 / pit	7039	0	7039
4	In situ soil and moisture conservation measures like check dam, nadies, earthen bunds etc.	Prorata	2557	243	2800
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.	727	19	746
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	206	13	219
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	509	0	509
9	Transportation of 700 plants from nursery to planting site	1.41/ plant	946	45	991
10	Planting of 700 seedlings including Refilling of pits	4.09 / plant	2869	0	2869
11	Watering (if sufficient rains are not there) & application of insecticide in 700 plants at the time of planting.	3.16/ plant	2218	0	2218
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)	4.1 / plant	615	0	615
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	2507	0	2507
14	Weeding and hoeing of 700 plants in 2 time. Repairing of plants mound	3.57/ plant	4999	0	4999
15	Weeding on contour trenches and 'V' ditches and spacement / singling.	Prorata	528	0	528
16	Raising of 70 seedlings in nursery for casualty replacement in year-2 (10% of 700)	3.94 / seedling	175	101	276
17	Watch and ward for 12 months @ Rs.15325/-- month	prorata	3885	0	3885
18	Labour aminties and hut repair.	Prorata	325	49	375
19	Construction of approach road / inspection path	Prorata	382	0	382
20	Construction of gate and fixing of sign board	Prorata	509	80	589
21	Micellaneous and unforeseen expenditure.	Prorata	155	32	187
TOTAL YEAR 1			32648	1365	34014
22	Administrative charges 10%				3401
			TOTAL		37415



उप वन संरक्षक (प्रशासन)
 प्रधान मुख्य वन संरक्षक
 प्रशिक्षण, अनुसंधान, शिक्षा एवं प्रसार
 राजस्थान, जयपुर


मुख्य वन संरक्षक, (आर्याजना)
 राजस्थान जयपुर

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	128	20	148
3	Repair of fencing	Prorata	225	0	225
4	Casualty replacement 70 plants including redigging of pits, transportation planting, watering and application of insecticides	11.55/ plant	770	39	809
5	Weeding and Hoeing in 700 plants in pits two times	3.57/ Plant	4999	0	4999
6	Watch and ward for 12 months @15325/-	prorata / ha	3885	0	3885
7	Misc. and unforeseen expences including (additional watering and forest protection measures etc.	prorata	339	238	577
TOTAL YEAR 2			10346	369	10715
8	Administrative Charges 10%				1071
TOTAL					11786
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	3885	0	3885
3	Misc. and unforeseen expenditure including (repairing of fencing / structures pruning etc.	prorata	693	289	982
4	TOTAL YEAR 3.		4578	362	4940
5	Administrative charges 10%				494
				Total	5434
GRAND TOTAL					
0Year			40543		
First Year			37415		
Second Year			11786		
Third Year			5434		
Fourth Year			5434		
Fifth Year			5434		
Sixth year			5434		
Seventh year			5434		
Eighth year			5434		
Ninth Year			5434		
Tenth Year			5434		
Eleventh Year			5434		
Twelfth Year			5434		
TOTAL			144082		
Say			144100		


उप वन संरक्षक (प्रशासन)
 प्रधान मुख्य वन संरक्षक
 प्रशिक्षण, अनुसंधान, शिक्षा एवं प्रसार
 राजस्थान, जयपुर


मुख्य वन संरक्षक, (आर्याजना)
 राजस्थान जयपुर