

Model Rate Structure for Compensatory Afforestation Model No. 4

Model rate structure for plantation of mixed tree species with rainfall up to 800 mm and medium quality, medium drained soil with soil depth up to 30cm.

(Aided Natural Regeneration)

Spacement - 4.00 m x 4.00 m
Size of Pits - 0.45 x 0.45 x 0.45m
No. of Seedlings - 400 per ha

Wage Rate -
Rs. 350 per day.
(Amount in Rs.)

(Amount in Rs.)									
Sr.No.	Particulars of works	For 1.00 ha				For 8.05 ha			
		Man days	Wages	Material supply	Total (Rs. Per Ha.)	Man days	Wages	Material supply	Total (Rs. Per Ha.)
A. Pre Monsoon Works (PPO/PYO)									
1	a. Survey and demarcation	1.00	350.00	50.00	400.00	8.05	2817.5	50.00	2867.5
	b. Preparation of treatment map (100 m x 50 m grid)	1.00	350.00	50.00	400.00	8.05	2817.5	50.00	2867.5
	c. Clearing of bushes and preparation of site (As per requirement)	10.00	3500.00	50.00	3550.00	80.5	28175	50.00	28225
2	Soil and moisture conservation works including collection of rubbles from areas upto 30 m etc	31.00	10850.00	0.00	10850.00	249.55	87342.5	0.00	87342.5
3	Digging of Trench cum mound (TCM) of size 1.90 x 0.60 x 1.00 m along the periphery of plantation area including spreading / stacking the excavated soil as directed in 1 m width and 1m height. Length 102 Rmt per Ha (127.50 cum per ha)	82.57	28899.50	50.00	28949.50	664.6885	232641	50.00	232690.98
4	Caunting of gridwise valuable species & applying colour bands	3.50	1225.00	0.00	1225.00	28.175	9861.25	0.00	9861.25
5	Singling of coppices, cut back operation, debuddig, climber cutting & soil working around natural regeneration	10.00	3500.00	0.00	3500.00	80.5	28175	0.00	28175
6	Part Nursery cost for raising 750 seedling per ha in polybags of size 12.50 x 25.00 cm Rs. 10.56 per plant	26.29	9201.50	1320.00	10521.50	211.6345	74072.08	1320.00	75392.075
7	Alignment of pits at 4 x 4 m spacement (Wages 0.13 M.D and M&S Rs. 2.24 per 50 pits.)	1.62	567.00	28.00	595.00	13.041	4564.35	28.00	4592.35
8	Digging of pits of 625 pits per ha (6.60 M.D. per 100 pits)	41.25	14437.50	0.00	14437.50	332.0625	116221.9	0.00	116221.88
Total		208.23	72880.50	1548.00	74428.50	1676.252	586688	1548	588236.03
Contingency 3%				2232.86	2232.86				17647.081
Labour Welfare 4%				2977.14	2977.14				23529.441
Grand Total		208.23	72880.50	6758.00	79638.50				629412.55
B. First Year Operations									
1	Part Nursery cost for maintainance of 750 seedling per ha Rs2.64 per seedling (Wages Rs. 2.20, M & S Rs. 0.44)	6.57	2299.50	330.00	2629.50	52.8885	18510.98	330.00	18840.975
2	Refelling of pits with good quality soil & single super phosphate Rs. 0.96 per pit (1.66 M.D per 100 pits)	10.38	3633.00	600.00	4233.00	8.05	2817.5	600.00	3417.5
3	Planting of agave suckers in 3 rows on TCM. (306 suckers per ha @ Rs. 3 per suckers)	1.00	350.00	918.00	1268.00	8.05	2817.5	918.00	3735.5
4	Transport of seedlings from Nursery to plantation site (including loading & unloading) Rs.1.00 per seedling Wages 0.14 md per 100 seedlings.	1.05	367.50	750.00	1117.50	8.4525	2958.375	750.00	3708.375
5	Planting of 625 seedling (1.5 M.D per 100 seedlings.)	9.38	3283.00	0.00	3283.00	75.509	26428.15	0.00	26428.15
6	Casualty Replacement (20% 125 seedling per ha) (2 M.D. per 100 seedlings)	2.50	875.00	0.00	875.00	20.125	7043.75	0.00	7043.75

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Contingency 3%				404.25	404.25				3254.2125
Labour Welfare 4%				539	539				4338.95
Grand Total		38.50	13475.00	943.25	14418.25				116066.91
H. Seventh Year Operations									
1	Fire tracing	2.00	700	0.00	700	16.1	5635	0.00	5635
2	Watch and ward 12 months -1 watcher per 10.00 ha.	36.50	12775	0.00	12775	293.825	102838.8	0.00	102838.75
Total		38.50	13475	0.00	13475	309.925	108473.8	0	108473.75
Contingency 3%				404.25	404.25				3254.2125
Labour Welfare 4%				539	539				4338.95
Grand Total		38.50	13475.00	943.25	14418.25				116066.91

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Note :- 1. The rates indicated are as per item No.3 of Government of Maharashtra resolution No. MREGS - 2011/F.No. 85/EGS-1, Planning department, EGS division dt.3/11/2011. The rates for item No. 485 of premonsoon works and item No.2 of FYO are as per model No.7.
2. Rubble bunds of size bottom width 1.00 m, top width 0.60 m and height 1.00 m should be constructed wherever digging of TCM is not possible.

Cost per plant RS. 538.02

Sr.No.	Year of Operation	For 1.00 ha														For 8.00 ha	
		Man days	Wages	Material Supply	Total (Rs.)	Other Expenses	Total	Man days	Wages	Material Supply	Total (Rs.)	Other Expenses	Total	Total amount (rounded off)			
1	Pre Monsoon works	208.23	72880.50	1548.00	74428.50	5209.995	79638.50	79638	1676.25	586688.025	1548.00	588236.025	41176.52175	629412.5468	629413		
2	First Year Operation	109.26	38241.00	3290.50	41531.50	2907.205	44438.71	44439	804.03	281411.90	3290.50	284702.4	19929.168	304631.568	304632		
3	Second Year Operation	32.28	11298.00	461.25	11759.25	823.1475	12582.40	12582	259.85	90948.9	461.25	91410.15	6398.7105	97808.8605	97809		
4	Third Year Operation	55.75	19512.50	0.00	19512.50	1365.875	20878.38	20878	448.79	157075.63	0.00	157075.63	10995.29375	168070.9188	168071		
5	Fourth Year Operation	38.50	13475.00	0.00	13475.00	943.25	14418.25	14418	309.93	108473.75	0	108473.75	7593.1625	116066.9125	116067		
6	Fifth Year Operation	38.50	13475.00	0.00	13475.00	943.25	14418.25	14418	309.93	108473.75	0	108473.75	7593.1625	116066.9125	116067		
7	Sixth Year Operation	38.50	13475.00	0.00	13475.00	943.25	14418.25	14418	309.93	108473.75	0	108473.75	7593.1625	116066.9125	116067		
8	Seventh Year Operation	38.50	13475.00	0.00	13475.00	943.25	14418.25	14418	309.93	108473.75	0	108473.75	7593.1625	116066.9125	116067		
Total		559.52	195832.00	5299.75	201131.75	14079.22	215210.97	215210.97	4428.63	1550019.45	5299.75	1555319.20	108872.34	1664191.54	1664192		

Abstract for Model No.4 (Amount in Rupees)

(Sreeakashmi A.)
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