

**Model Rate Structure for Compensatory Afforestation
Improvement to Ambadi to Jawarla Road**

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 30 cm.

Abstract

Sr. No.	Year of Operation	For 1 Ha.				For 8.22 Ha.			
		Mandays	Wages	Material & Supply	Total Rs For 1 Ha	Mandays	Wages	Material & Supply	Total
1	Pre Monsoon Works	208.23	71370.85	1656.36	78023.17	1711.65	586668.24	13615.28	641350.30
2	First Year Operation	109.21	41144.89	3520.84	47545.87	897.71	338210.81	28941.26	390826.83
3	Second Year Operation	32.28	13355.87	493.54	14784.32	265.34	109785.09	4056.88	121526.92
4	Third Year Operation	55.75	25351.20	0.00	27125.78	458.27	208386.84	0.00	222973.92
5	Fourth Year Operation	38.50	19239.61	0.00	20586.38	316.47	158149.55	0.00	169220.02
6	Fifth Year Operation	38.50	21164.61	0.00	22646.13	316.47	173973.05	0.00	186151.17
7	Sixth Year Operation	38.50	23282.11	0.00	24911.86	316.47	191378.90	0.00	204775.43
8	Seventh Year Operation	38.50	25592.11	0.00	27383.56	316.47	210367.10	0.00	225092.80
	Total	559.47	240501.25	5670.73	263007.07	4598.84	1976919.60	46613.42	2161917.39

Cost in words Rs. (Twenty lakhs twenty thousand six hundred thirty eight only)


 Dy. Conservator of Forests
 Nanded.

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Spacement - 4.0 m X 4.0 m

Size of pits - 0.45 X 0.45 X 0.45 m

No. of Seedlings - 625 per Ha.

Gat No. - 85

Area Ha. - 8.22

Daily wage Rate = 342.75

(Amount In Rs.)

Sr. No.		Particulars of Works	For 1 Ha.			For 8.22 Ha.			
			Mandays	Wages	Material & Supply	Mandays	Wages	Material & Supply	Total
Pre Monsoon Works PPO/PYO									
1		a. Survey and Demarcation	1.00	342.75	50.00	8.22	2817.41	411.00	3228.41
		b. Preparation of treatment map (100m x 50 m grid)	1.00	342.75	50.00	8.22	2817.41	411.00	3228.41
		c. Clearing of bushes and preparation of site (As per requirement)	10.00	3427.50	50.00	82.20	28174.05	411.00	28585.05
2		Soil and moisture conservation works including collection of rubbles from areas upto 30 m etc.	31.00	10625.25	0.00	254.82	87339.56	0.00	87339.56
3		"Digging of Trench cum mound (TCM) of size 1.90x0.60x1.00 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 cup per Ha.)	82.57	28300.87	50.00	678.73	232633.13	411.00	233044.13
4		"Caunting of gridwise valuable species & applying colour bands "	3.50	1199.63	0.00	28.77	9860.92	0.00	9860.92
5		"Singling of coppices, cut back operation, debudding, climber cutting & soil working around natural	10.00	3427.50	0.00	82.20	28174.05	0.00	28174.05
6		"Part nursery cost for raising 750 seedlings per ha in polybags of size 12.50 x 25 cm Rs. 10.56 per plant"	26.29	9010.90	1320.00	216.10	74069.58	10850.40	84919.98
7		"Alignment of pits at 4 x 4 m spacement (Wages 0.13 MD and MS R.s. 2.24 per 50 Pits)"	1.62	555.26	28.00	13.32	4564.20	230.16	4794.36
8		Digging of pits f 625 pits per ha (6.60 M.D. per 100 pits.)	41.25	14138.44	0.00	339.08	116217.96	0.00	116217.96
		Total	208.23	71370.85	1548.00	1711.65	586668.24	12724.56	599392.80
		Contingency 3%			46.44			381.74	17981.78
		Labour Welfare 4%			61.92			508.98	23975.71
		Grand Total	208.23	71370.85	1656.36	1711.65	586668.24	13615.28	641350.30

**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 30 cm.

Spacing - 4.0 m X 4.0 m
Size of pits - 0.45 X 0.45 X 0.45 m
No. of Seedlings - 625 per Ha.

Gat No. - 85

Daily wage Rate =

376.75

Area Ha. - **8.22**

(Amount In Rs.)

Sr. No.		Particulars of Works	For 1 Ha.			For 8.22 Ha.				
			Mandays	Wages	Material & Supply	Total Rs For 1 Ha	Mandays	Wages	Material & Supply	Total
First Year Operation										
1	"Part Nursery cost for maintenance of 750 seedlings per Ha. Rs. 2.64 per seedlings (Wages Rs. 2.20, M & S Rs. 0.44)"		6.57	2475.25	330.00	2805.25	54.01	20346.53	2712.60	23059.13
2	Refilling of pits by good quality soil & single super phosphate Rs. 0.96 per pit (1.66 M.D. per 100 pits)"		10.38	3910.67	600.00	4510.67	85.32	32145.67	4932.00	37077.67
3	"Planting of agave suckers in 3 rows on TCM (306 suckers per ha @ Rs. 3 per suckers)"		1.00	376.75	918.00	1294.75	8.22	3096.89	7545.96	10642.85
4	Transport of seedling from nursery to plantation site (including loading & unloading) Rs. 1.00 per seedling Wages 0.14 M.D. per 100 seedlings		1.00	376.75	750.00	1126.75	8.22	3096.89	6165.00	9261.89
5	"Planting of 625 seedlings (1.5 M.D. per 100 seedlings)"		9.38	3533.92	0.00	3533.92	77.10	29048.78	0.00	29048.78
6	"Casualty replacement (20% 125 seedlings per ha (2 M.D. per 100 seedlings)"		2.50	941.88	0.00	941.88	20.55	7742.21	0.00	7742.21
7	"3 seedlings and soil workings (3.50 M.D. per 100 seedlings) fertilizer application Rs. 0.45 per seedlings"		42.00	15823.50	472.50	16296.00	345.24	130069.17	3883.95	133953.12
8	"Part Nursery cost for raising seedling for casualty replacement in SYO. (125 seedlings per ha.) Rs. 10.56 per plant		4.38	1650.17	220.00	1870.17	36.00	13564.36	1808.40	15372.76
9	"Watch and ward (9 months) - watcher per 10 ha."		30.00	11302.50	0.00	11302.50	246.60	92906.55	0.00	92906.55
10	Fire tracing		2.00	753.50	0.00	753.50	16.44	6193.77	0.00	6193.77
	Total		109.21	41144.89	3290.50	44435.39	897.71	338210.81	27047.91	365258.72
	Contingency 3%				98.72	1333.06			811.44	10957.76
	Labour Welfare 4%				131.62	1777.42			1081.92	14610.35
	Grand Total		109.21	41144.89	3520.84	47545.87	897.71	338210.81	28941.26	390826.83


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**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 30 cm.

Spacing - 4.0 m X 4.0 m

Size of pits - 0.45 X 0.45 X 0.45 m

No. of Seedlings - 625 per Ha.

Gat No. - 85

Daily wage Rate =

413.75

Area Ha. - 8.22

(Amount In Rs.)

Sr. No.	Particulars of Works	For 1 Ha.			For 8.22 Ha.			
		Mandays	Wages	Material & Supply	Mandays	Wages	Material & Supply	
Second Year Operation								
1	"Part Nursery cost for seedlings fro casualty replacement (500 seedlings per Ha.)	1.10	455.13	55.00	9.04	3741.13	452.10	4193.23
2	"Transportion of seedlings for causality replacement from nursery to plantation site (including loading and unloading) wages 0.14 M.D. per 125 seedlings	0.18	74.48	125.00	1.48	612.18	1027.50	1639.68
3	"Causality replacement (125 seedlings per Ha.) (2 M.D. per 100 seedlings)	2.50	1034.38	0.00	20.55	8502.56	0.00	8502.56
4	2 weedings and 1 soil working, with fertilizer application at Rs. 0.45 per seedling	26.50	10964.38	281.25	217.83	90127.16	2311.88	92439.04
5	Fire tracing	2.00	827.50	0.00	16.44	6802.05	0.00	6802.05
	Total	32.28	13355.87	461.25	265.34	109785.09	3791.48	113576.56
	Contingency 3%			13.84			113.74	3407.30
	Labour Welfare 4%			18.45			151.66	4543.06
	Grand Total	32.28	13355.87	493.54	265.34	109785.09	4056.88	121526.92


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Spacing - 4.0 m X 4.0 m
Size of pits - 0.45 X 0.45 X 0.45 m
No. of Seedlings - 625 per Ha.

Gat No. - 85

Daily wage Rate =

454.73

Area Ha. - **8.22**

(Amount In Rs.)

Sr. No.		Particulars of Works	For 1 Ha.			For 8.22 Ha.				
			Mandays	Wages	Material & Supply	Total Rs For 1 Ha	Mandays	Wages	Material & Supply	Total
Third Year Operation										
1		"Singlings, cut back operation, debudding, climber cutting & soil working around natural regeneration"	10.00	4547.30	0.00	4547.30	82.20	37378.81	0.00	37378.81
2		"One weeding, (1 m.d. per 100 seedlings)"	6.25	2842.06	0.00	2842.06	51.38	23361.75	0.00	23361.75
3		"Collection and sowing of seeds of Valuable species"	1.00	454.73	0.00	454.73	8.22	3737.88	0.00	3737.88
4		"Watch and ward 12 months-1 watcher per 10.00 ha."	36.50	16597.65	0.00	16597.65	300.03	136432.64	0.00	136432.64
5		Fire tracing	2.00	909.46	0.00	909.46	16.44	7475.76	0.00	7475.76
		Total	55.75	25351.20	0.00	25351.20	458.27	208386.84	0.00	208386.84
		Contingency 3%			0.00	760.54			0.00	6251.61
		Labour Welfare 4%			0.00	1014.05			0.00	8335.47
		Grand Total	55.75	25351.20	0.00	27125.78	458.27	208386.84	0.00	222973.92



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Spacing - 4.0 m X 4.0 m
Size of pits - 0.45 X 0.45 X 0.45 m
No. of Seedlings - 625 per Ha.

Gat No. - 85
Daily wage Rate =

499.73

Area Ha. - 8.22

(Amount In Rs.)

Sr. No.		Particulars of Works	For 1 Ha.			For 8.22 Ha.				
			Mandays	Wages	Material & Supply	Total Rs For 1 Ha	Mandays	Wages	Material & Supply	Total
Fourth Year Operation										
1	"Fire tracing"		2.00	999.46	0.00	999.46	16.44	8215.56	0.00	8215.56
2	"Watch and ward 12 months -1 watcher per 10.00 Ha."		36.50	18240.15	0.00	18240.15	300.03	149933.99	0.00	149933.99
	Total		38.50	19239.61	0.00	19239.61	316.47	158149.55	0.00	158149.55
	Contingency 3%				0.00	577.19			0.00	4744.49
	Labour Welfare 4%				0.00	769.58			0.00	6325.98
	Grand Total		38.50	19239.61	0.00	20586.38	316.47	158149.55	0.00	169220.02

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Spacing - 4.0 m X 4.0 m
Size of pits - 0.45 X 0.45 X 0.45 m
No. of Seedlings - 625 per Ha.

Gat No. - 85

Daily wage Rate =

549.73

Area Ha. - 8.22

(Amount In Rs.)

Sr. No.	Particulars of Works	For 1 Ha.			For 8.22 Ha.				
		Mandays	Wages	Material & Supply	Total Rs For 1 Ha	Mandays	Wages	Material & Supply	Total
Fifth Year Operation									
1	"Fire tracing"	2.00	1099.46	0.00	1099.46	16.44	9037.56	0.00	9037.56
2	"Watch and ward 12 months -1 watcher per 10.00 Ha."	36.50	20065.15	0.00	20065.15	300.03	164935.49	0.00	164935.49
	Total	38.50	21164.61	0.00	21164.61	316.47	173973.05	0.00	173973.05
	Contingency 3%			0.00	634.94			0.00	5219.19
	Labour Welfare 4%			0.00	846.58			0.00	6958.92
	Grand Total	38.50	21164.61	0.00	22646.13	316.47	173973.05	0.00	186151.17

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Spacing - 4.0 m X 4.0 m
Size of pits - 0.45 X 0.45 X 0.45 m
No. of Seedlings - 625 per Ha.

Gat No. - 85

Daily wage Rate =

604.73

Area Ha. - **8.22**

(Amount In Rs.)

Sr. No.		Particulars of Works	For 1 Ha.				For 8.22 Ha.			(Amount in Rs.)
			Mandays	Wages	Material & Supply	Total Rs For 1 Ha	Mandays	Wages	Material & Supply	
Sixth Year Operation										
1		"Fire tracing"	2.00	1209.46	0.00	1209.46	16.44	9941.76	0.00	9941.76
2		"Watch and ward 12 months - 1 watcher per 10.00 Ha."	36.50	22072.65	0.00	22072.65	300.03	181437.14	0.00	181437.14
		Total	38.50	23282.11	0.00	23282.11	316.47	191378.90	0.00	191378.90
		Contingency 3%			0.00	698.46			0.00	5741.37
		Labour Welfare 4%			0.00	931.28			0.00	7655.16
		Grand Total	38.50	23282.11	0.00	24911.86	316.47	191378.90	0.00	204775.43



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Spacing - 4.0 m X 4.0 m
Size of pits - 0.45 X 0.45 X 0.45 m
No. of Seedlings - 625 per Ha.

Gat No. - 85

Daily wage Rate =

664.73

Area Ha. - 8.22

(Amount In Rs.)

Sr. No.	Particulars of Works	For 1 Ha.			For 8.22 Ha.			Total	
		Mandays	Wages	Material & Supply	Total Rs For 1 Ha	Mandays	Wages		Material & Supply
Seventh Year Operation									
1	"Fire tracing"	2.00	1329.46	0.00	1329.46	16.44	10928.16	0.00	10928.16
2	"Watch and ward 12 months -1 watcher per 10.00 Ha."	36.50	24262.65	0.00	24262.65	300.03	199438.94	0.00	199438.94
	Total	38.50	25592.11	0.00	25592.11	316.47	210367.10	0.00	210367.10
	Contingency 3%			0.00	767.76			0.00	6311.01
	Labour Welfare 4%			0.00	1023.68			0.00	8414.68
	Grand Total	38.50	25592.11	0.00	27383.56	316.47	210367.10	0.00	225092.80



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