

Model Rate Structure for Compensatory Afforestation

Model No.4

Model rate Structure for plantation of mixed tree species having rainfall upto 800 mm and medium quality, medium drained soil.
 Range-Ajara
 Round -
 Beat -
 Village -Kirtwade
 Spacement 3m x 3m
 Size of Pits 0.45 x 0.45 x 0.45 m
 No. Of Seedlings 1111 per ha
 Comp. No - 179 FGN 384
 Plantation Area - 1.00 Ha.
 Wage Rate - Rs. 387.23 Per day.
 Total Plants - 11111

Sr. No.	Particulare of works	Per Hectore				Area	As per condition on the spot 1.00 Hectore				Sanction Letter Dt/ Model No./ Item No
		Man days	Weges	Material supply	Total (Rs.Per Ha.)		Man days	Weges	Material supply	Total (Rs.Per Ha.)	
A. Pre Monsoon Works PPO/PYO											
1	(a) Survey and demarcation	1.00	387.23	91.00	478.23	1	1.00	387.23	91.00	478.23	Letter Dt.07/03/2018 Irrigated & fencing Plantation Model no 1 Item No. 1a
	(b) Preparation of treatment map (100m X 50 m grid)	1.00	387.23	91.00	478.23	1	1.00	387.23	91.00	478.23	Item No. 1b
	(c) Digging trial pits of size 0.30 X 0.30 X 0.60 in corner of Grid.	0.40	154.89	0.00	154.89	1	0.40	154.89	0.00	154.89	Item No. 1c
	(d) Fixing 60cm X 0.05cm X 12 cm cement pillars upto 30cm deep in corner of Grid, painting with Grid No. Etc complete (3 pillars, Rs.75/- for each pillars)	0.00	0.00	225.00	225.00	1	0.00	0.00	225.00	225.00	Item No. 3
	(e) Clearing of bushes and preparation of site (As per requirement)	10.00	3872.30	91.00	3963.30	1	10.00	3872.30	91.00	3963.30	Item No. 1e
2	Soil and moisture conservation works including collection of rubbles from areas upto 30 m etc.	31.00	12004.13	0.00	12004.13	1	31.00	12004.13	0.00	12004.13	Item No. 2
3	Providing and fixing chain link fencing, 102 Rmt per ha (With one gate + two wickets gates for one site) (Rs. 1494/- per Rmt of basic rate + 20% for transportation of ave. Leadplus 20% for tribal/remote area (by tender process.) (Rs. 1494+149+149= 1792/- per Rmt (1.60 Rmt heigh with G.I. Chain link size 50mmX50mm & gauge thick and fixed 75mm above	0.00	0.00	182865.60	182865.60	1	0.00	0.00	182865.60	182865.60	As per SSR rates 2017/18 Item No. 1744
4	Alignment of Pits at 3m x 3m spacement. 1111 pits per 100 pits 0.26 M.D. M/S 8.18 per 100 pits	2.89	1119.09	91.00	1210.09	1	2.89	1119.09	91.00	1210.09	Item No. 4
5	Digging of pits of size 0.45 X 0.45 X 0.45m (1111 pits per ha) 6.60 M.D per 100 pits. Note :- As per local conditions provision for mechanized digging can be made	73.33	28395.58	0.00	28395.58	1	73.33	28395.58	0.00	28395.58	Item No. 5
6	Construction of 5.00 Rmt wide Inspection Path 1M.D. Per 100 Rmt	1.00	387.23	0.00	387.23	1	1.00	387.23	0.00	387.23	Item No. 6

Labour Welfare 4%

Grand Total

2313.85

61895.50

2313.85

61896

18

C. Second Year Operations

1	Part nursery cost for seedlings for causality replacement (222 seedlings per ha) labour rate @ Rs. 3.77 and M.S. Rs. 1.82 per seedlings.	2.46	952.59	404.04	1356.63	1	2.46	952.59	404.04	1356.63	Letter Dt.07/03/2018 Irrigated & fencing Plantation Model no 1 Item No. 1 20% instead of 10%
2	Transportation of 222 seedlings for causality replacement from nursery to plantation site (including loading and unloading) wages 0.14 M.D. Per 100 seedling & M.S. Rs. 1.82 per seedlings	0.31	120.04	404.04	524.08	1	0.31	120.04	404.04	524.08	Item no.2 20% Instead of 10%
3	Planting for causality replacement 222 seedlings (2.00 M.D. Per 100 seedlings)	4.44	1719.30	0.00	1719.30	1	4.44	1719.30	0.00	1719.30	Item no.3 20% Instead of 10%
4	2 weedings and 1 soil working, with fertilizer application 2.5 M.D. Per 100 seedlings at M.S. Rs. 0.82 per seedlings	27.77	10753.38	911.02	11664.40	1	27.77	10753.38	911.02	11664.40	Item no.4
5	Watch and ward 12 months - 1 watcher per 10.00 ha	36.50	14133.90	0.00	14133.895	1	36.50	14133.90	0.00	14133.90	Item no.6
6	Fire tracing	2.00	774.46	0.00	774.46	1	2.00	774.46	0.00	774.46	Item no.8
	Total	73.48	28453.66	1719.10	30172.76		73.48	28453.66	1719.10	30172.76	
	Contingency 3%				905.18		0.00	0.00	0.00	905.18	
	Labour Welfare 4%				1206.91		0.00	0.00	0.00	1206.91	
	Grand Total				32284.85		0.00	0.00	0.00	32284.85	

D. Third Year Operations

1	1 st weeding and 1 soil working (1.50 M.D per 100 seedlings) applying fertilizer @ Rs.0.82 per plant.	16.67	6455.12	911.02	7366.14	1	16.67	6455.12	911.02	7366.14	Letter Dt.07/03/2018 Irrigated & fencing Plantation Model no.1 Item No. 1
2	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	14133.90	0.00	14133.895	1	36.50	14133.90	0.00	14133.90	Item no.3
3	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	774.46	25.00	799.46	1	2.00	774.46	25.00	799.46	Item no.5
4	Fire tracing	2.00	774.46	0.00	774.46	1	2.00	774.46	0.00	774.46	Item no.6
	Total	57.17	22137.94	936.02	23073.96		57.17	22137.94	936.02	23073.96	
	Contingency 3%				692.22		0.00	0.00	0.00	692.22	
	Labour Welfare 4%				922.96					922.96	
	Grand Total				24689.14		0.00	0.00	0.00	24689.14	

E. Fourth Year Operations

1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	14133.90	0.00	14133.895	1	36.50	14133.90	0.00	14133.90	Letter Dk 07/03/2018 Irrigated & fencing Plantation Model no 1 Item No 1
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	774.46	25.00	799.46	1	2.00	774.46	25.00	799.46	Item no.2
3	Fire tracing	2.00	774.46	0.00	774.46	1	2.00	774.46	0.00	774.46	Item no.3
	Total	40.50	15682.82	25.00	15707.82		40.50	15682.82	25.00	15707.82	
	Contingency 3%				471.23					471.23	
	Labour Welfare 4%				628.31					628.31	
	Grand Total				16807.36					16807.36	

F. Fifth Year Operations

1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	14133.90	0.00	14133.895	1	36.50	14133.90	0.00	14133.90	Letter Dk 07/03/2018 Irrigated & fencing Plantation Model no 1 Item No 1
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	774.46	25.00	799.46	1	2.00	774.46	25.00	799.46	Item no.2
3	Fire tracing	2.00	774.46	0.00	774.46	1	2.00	774.46	0.00	774.46	Item no.3
	Total	40.50	15682.82	25.00	15707.82		40.50	15682.82	25.00	15707.82	
	Contingency 3%				471.23					471.23	
	Labour Welfare 4%				628.31					628.31	
	Grand Total				16807.36					16807.36	

G. Six Year Operations

1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	14133.90	0.00	14133.895	1	36.50	14133.90	0.00	14133.90	Letter Dk 07/03/2018 Irrigated & fencing Plantation Model no 1 Item No 1
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	774.46	25.00	799.46	1	2.00	774.46	25.00	799.46	Item no.2
3	Fire tracing	2.00	774.46	0.00	774.46	1	2.00	774.46	0.00	774.46	Item no.3
	Total	40.50	15682.82	25.00	15707.82		40.50	15682.82	25.00	15707.82	
	Contingency 3%				471.23					471.23	
	Labour Welfare 4%				628.31					628.31	
	Grand Total				16807.36					16807.36	

II. Seventh Year Operations

1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	14133.90	0.00	14133.895	1	36.50	14133.90	0.00	14133.90	Letter Dt 07/03/2018 Irrigated & fencing Plantation Model no 1 Item No. 1
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	774.46	25.00	799.46	1	2.00	774.46	25.00	799.46	Item no.2
3	Fire tracing	2.00	774.46	0.00	774.46	1	2.00	774.46	0.00	774.46	Item no.3
	Total	40.50	15682.82	25.00	15707.82		40.50	15682.82	25.00	15707.82	
	Contingency 3%				471.23					471.23	
	Labour Welfare 4%				628.31					628.31	
	Grand Total				16807.36					16807.36	

I. Eighth Year Operations

1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	14133.90	0.00	14133.895	1	36.50	14133.90	0.00	14133.90	Letter Dt 07/03/2018 Irrigated & fencing Plantation Model no 1 Item No. 1
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	774.46	25.00	799.46	1	2.00	774.46	25.00	799.46	Item no.2
3	Fire tracing	2.00	774.46	0.00	774.46	1	2.00	774.46	0.00	774.46	Item no.3
	Total	40.50	15682.82	25.00	15707.82		40.50	15682.82	25.00	15707.82	
	Contingency 3%				471.23					471.23	
	Labour Welfare 4%				628.31					628.31	
	Grand Total				16807.36					16807.36	

J. Ninth Year Operations

1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	14133.90	0.00	14133.895	1	36.50	14133.90	0.00	14133.90	Letter Dt 07/03/2018 Irrigated & fencing Plantation Model no 1 Item No. 1
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	774.46	25.00	799.46	1	2.00	774.46	25.00	799.46	Item no.2
3	Fire tracing	2.00	774.46	0.00	774.46	1	2.00	774.46	0.00	774.46	Item no.3
	Total	40.50	15682.82	25.00	15707.82		40.50	15682.82	25.00	15707.82	
	Contingency 3%				471.23					471.23	
	Labour Welfare 4%				628.31					628.31	
	Grand Total				16807.36					16807.36	

K. Tenth Year Operations

1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	14133.90	0.00	14133.895	1	36.50	14133.90	0.00	14133.90	Letter Dt 07/03/2018 Irrigated & fencing Plantation Model no.1 Item No. 1
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	774.46	25.00	799.46	1	2.00	774.46	25.00	799.46	Item no.2
3	Fire tracing	2.00	774.46	0.00	774.46	1	2.00	774.46	0.00	774.46	Item no.3
	Total	40.50	15682.82	25.00	15707.82		40.50	15682.82	25.00	15707.82	
	Contingency 3%				471.23					471.23	
	Labour Welfare 4%				628.31					628.31	
	Grand Total				16807.36					16807.36	

Abstract for Modal No.4

Sr No.	Year of Operation	Man days	Wages	Material supply	Total	Other expenses	Total amount
1	Pre Monsoon works	168.07	65082	193278	258360	18085	276445
2	First Year Operations	133.41	51660	6186	57846	4049	61896
3	Second Year Operations	73.48	28454	1719	30173	2112	32285
4	Third Year Operations	57.17	22138	936	23074	1615	24689
5	Fourth Year Operations	40.50	15683	25	15708	1100	16807
6	Fifth Year Operations	40.50	15683	25	15708	1100	16807
7	Sixth Year Operations	40.50	15683	25	15708	1100	16807
8	Seventh Year Operations	40.50	15683	25	15708	1100	16807
9	Eighth Year Operations	40.50	15683	25	15708	1100	16807
10	Ninth Year Operations	40.50	15683	25	15708	1100	16807
11	Tenth Year Operations	40.50	15683	25	15708	1100	16807
	Total	40.50	277113	202294	479408	33559	512966

Cost per plant Rs. 462

Deputy Conservator of Forests,
Kolhapur Division Kolhapur