

34/1

Principal Chief Conservator of Forest (HoFF),
M. S. Nagpur Letter No. Desk-17/CA/Nodal Cell
/CR-40/1127/2019-20, Date 04/10/2019

Model Rate Structure for Compensatory Afforestation

Model No.5.

Fencing and Irrigated Plantations

Model rate structure for plantation of mixed tree species having rainfall less than 800 mm
and medium quality, medium drained soil.

Spacing - 3m x 3m

Size of Pits - 0.45 x 0.45 x 0.45m

No. of Seedlings - 1111 per ha

wage rate- 413.69 per day

Ca Area= 34.00 hector

Range Indapur

Round Indapur

Beat Kati

village sarafwadi g.no.27,96,97,98,99

Abstract for Model No.5

S. N.	Year of operation	Total
1	Pre Monsoon works	9558893.724
2	First Year Operations	5138625.469
3	Second Year Operations	3818894.035
4	Third Year Operations	2136722.547
5	Fourth Year Operations	610436.2091
6	Fifth Year Operations	610436.2091
7	Sixth Year Operations	610436.2091
8	Seventh Year Operations	610436.2091
9	Eighth Year Operations	610436.2091
10	Ninth Year Operations	610436.2091
11	Tenth Year Operations	610436.2091
	Total	24926189.24

Cost per plant Rs. 659.8768793

(Rahul Patil, IFS)

Deputy Conservator of Forests,
Pune Forest Division, Pune

-	Total	192.45	79678.9985	61569.64	13646.54		6550.1	279968.948	209367.76	31410	507958.511
	Contingency 3%				4184.0						15238.5030
	Labour Welfare 4%				5379.80						27106.3000
	Grand Total	192.45	79678.9985	61569.64	148261.2		6550.1	279968.948	209367.76		5138615.405
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	1617.6774	464	1799.07	Letter Dt. 07/03/2018 Irrigated & fencing Plantation Model no. 1 Item No. 1 causality replacement 20%	83.64	3400.0330	13736		48377.0110
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	128.2439	404.04	525.43	Item No. 2 20% instead of 10%	10.54	4168.3826	14736		14896.2018
3	Planting for causality replacement 222 seedlings (2.90 M.D. per 100 seedlings)	4.44	1836.7816	0	1785.98	Item No. 3 20% instead of 10%	154.86	64410.6424	0		64410.6424
4	2 seedlings and 1 soil working, with fertilizer application 2.5 M.D. per 100 seedlings at M.S. Rs. 1.82 per seedling.	23.73	11488.1713	911.03	12143.98	Item No. 4	944.38	390997.8242	30974.68		421172.3042
5	Watering 1111 seedlings in November, December, January and June 1 time each and in February to May 2 times each total 12 times 5 litre per seedlings, replacing 10% plastic can / marks @Rs.25/- each replacing 111 cans / marks, supplying water @Rs.0.90/- per litre and watering 150 seedlings per M.D.	88.88	16798.7672	161.07	73256.96	Item No. 5	8023.82	1264138.080	21275.95		2677788.083
6	Watch and ward 12 months -1 watcher per 10.00 ha	36.5	15099.685	0	14764.25	Item No. 6	1241	513389.28	0		513389.28
7	Fire tracing	2	809	0	809	Item No. 8	68	27508	0		27508
	Total	162.36	67148.3284	37624.06	162498.67		8420.24	2263443.356	156816.68		2569958.640
	Contingency 3%				3394.96						127071.7854
	Labour Welfare 4%				4179.54						142782.3538
	Grand Total	162.36	67148.3284	37624.06	110743.87		8420.28	2283043.194	156816.68		2818894.033
D. Third Year Operations											
1	1 seedling and 1 soil working (1.50 M.D. per 100 seedlings) applying fertilizer @ Rs.0.82 per plant	16.67	6763.06	801.02	7554.03	Letter Dt. 07/03/2018 Irrigated & fencing Plantation Model no. 1 Item No. 1	966.78	129262.34	30874.68		360217.00
2	Watering 558 seedlings in November, December, January and June 1 time each and February to May 2 times each total 12 times per seedlings 5 litre, water supply @Rs.0.90/- litre and watering 150 seedlings per M.D.	44.48	17992.16	368.83	34072.18	Item No. 2	3512.32	611733.44	587120		1170853.44
3	Watch and ward 12 months 1 watcher per 10.00 ha	36.5	14764.25	0	14764.25	Item No. 3	1241	502884.3	0		502884.3
4	Counting of survival percentage Grid wire and Species wire and to Note the same on Register in May and October	2	809	25	834	Item No. 5	68	27508	800		28358
5	Fire tracing	2	809	0	809	Item No. 6	68	27508	0		27508
	Total	101.65	41117.42	17696.02	58733.44		3406.1	1297992.28	308944.68		2299798.90
	Contingency 3%				1762						53058.1388
	Labour Welfare 4%				2348.33						79677.6788
	Grand Total	101.65	41117.42	17696.02	62844.77		3406.1	1297992.28	308944.68		2379534.547
E. Fourth Year Operations											
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.5	15099.685	0	14764.25	Letter Dt. 07/03/2018 Irrigated & fencing Plantation Model no. 1 Item No. 1	1241	513389.28	0		513389.28
2	Counting of survival percentage Grid wire and Species wire and to Note the same on Register in May and October	2	827.38	25	854	Item No. 2	68	28130.92	800		28980.92
3	Fire tracing	2	827.38	0	809	Item No. 3	68	28130.92	0		28130.92
	Total	40.5	16754.445	25	16407.25		1377	569651.12	800		579951.12
	Contingency 3%				492.21						15215.8338
	Labour Welfare 4%				656.29						21820.0452
	Grand Total	40.5	16754.445	25	17555.75		1377	569651.12	800		620436.2092
F. Fifth Year Operations											
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.5	15099.685	0	14764.25	Letter Dt. 07/03/2018 Irrigated & fencing Plantation Model no. 1 Item No. 1	1241	513389.28	0		513389.28
2	Counting of survival percentage Grid wire and Species wire and to Note the same on Register in May and October	2	827.38	25	854	Item No. 2	68	28130.92	800		28980.92
3	Fire tracing	2	827.38	0	809	Item No. 3	68	28130.92	0		28130.92
	Total	40.5	16754.445	25	16407.25		1377	569651.12	800		579951.12
	Contingency 3%				492.21						15215.8338
	Labour Welfare 4%				656.29						21820.0452
	Grand Total	40.5	16754.445	25	17555.75		1377	569651.12	800		620436.2092
G. Sixth Year Operations											
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.5	15099.685	0	14764.25	Letter Dt. 07/03/2018 Irrigated & fencing Plantation Model no. 1 Item No. 1	1241	513389.28	0		513389.28
2	Counting of survival percentage Grid wire and Species wire and to Note the same on Register in May and October	2	827.38	25	854	Item No. 2	68	28130.92	800		28980.92
3	Fire tracing	2	827.38	0	809	Item No. 3	68	28130.92	0		28130.92
	Total	40.5	16754.445	25	16407.25		1377	569651.12	800		579951.12
	Contingency 3%				492.21						15215.8338
	Labour Welfare 4%				656.29						21820.0452
	Grand Total	40.5	16754.445	25	17555.75		1377	569651.12	800		620436.2092
H. Seventh Year Operations											
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.5	15099.685	0	14764.25	Letter Dt. 07/03/2018 Irrigated & fencing Plantation Model no. 1 Item No. 1	1241	513389.28	0		513389.28
2	Counting of survival percentage Grid wire and Species wire and to Note the same on Register in May and October	2	827.38	25	854	Item No. 2	68	28130.92	800		28980.92

34/4

I. Site Preparing		2	827.38	0	809	Item No. 1	68	28130.92	0	28130.92
Total		40.5	16794.445	25	16407.25		1377	50905.13	850	57050.13
Contingency 3%			0		492.21					4715.8388
Labour Welfare 4%			0		656.29					23838.8452
Grand Total		40.5	16794.445	25	17555.75		1377	50905.13	850	61044.2091
J. Eighth Year Operations										
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.5	15099.683	0	14764.23	Letter Dt. 07/03/2018 Irrigated & Soiling Plantation Model no. 1 Item No. 1	1341	513389.28	0	513389.28
2	Counting of survival percentage Grid wire and Species wire and to Note the same in Register in May and October	2	827.38	25	834	Item No. 2	88	28130.92	850	28860.92
3	Site Preparing	2	827.38	0	809	Item No. 1	68	28130.92	0	28130.92
Total		40.5	16794.445	25	16407.25		1377	50905.13	850	57050.13
Contingency 3%			0		492.21					4715.8388
Labour Welfare 4%			0		656.29					23838.8452
Grand Total		40.5	16794.445	25	17555.75		1377	50905.13	850	61044.2091
K. Ninth Year Operations										
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.5	15099.683	0	14764.23	Letter Dt. 07/03/2018 Irrigated & Soiling Plantation Model no. 1 Item No. 1	1341	513389.28	0	513389.28
2	Counting of survival percentage Grid wire and Species wire and to Note the same in Register in May and October	2	827.38	25	834	Item No. 2	88	28130.92	850	28860.92
3	Site Preparing	2	827.38	0	809	Item No. 1	68	28130.92	0	28130.92
Total		40.5	16794.445	25	16407.25		1377	50905.13	850	57050.13
Contingency 3%			0		492.21					4715.8388
Labour Welfare 4%			0		656.29					23838.8452
Grand Total		40.5	16794.445	25	17555.75		1377	50905.13	850	61044.2091
L. Tenth Year Operations										
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.5	15099.683	0	14764.23	Letter Dt. 07/03/2018 Irrigated & Soiling Plantation Model no. 1 Item No. 1	1341	513389.28	0	513389.28
2	Counting of survival percentage Grid wire and Species wire and to Note the same in Register in May and October	2	827.38	25	834	Item No. 2	88	28130.92	850	28860.92
3	Site Preparing	2	827.38	0	809	Item No. 1	68	28130.92	0	28130.92
Total		40.5	16794.445	25	16407.25		1377	50905.13	850	57050.13
Contingency 3%			0		492.21					4715.8388
Labour Welfare 4%			0		656.29					23838.8452
Grand Total		40.5	16794.445	25	17555.75		1377	50905.13	850	61044.2091

1. Rates of chain linked fencing derived from SSR-2017-18 with addition for area difference and transportation cost.

2. Plantation M.D. and M.S. component derived from rate structure as approved by PCCF (HdP) M. S. M. S. Nagare Letter No. Dink-17CA/Notul Cell/CR-48/1123/2019-20, Dated 04/18/2019


 (Rajul Patil, JFS)
 Deputy Conservator of Forests,
 Pune Forest Division, Pune