

Model Rate Structure For Compensatory Afforestation
Model No. 4

Model rate structure of plantation of mixed tree species/Medicinal Plants /Bamboo etc. in areas with medium density having natural regeneration to some extent.

(Aided Natural Regener

Taluka : CHIPIUN
VILLAGE:Furus
Size of Pits
No of Seedlings

045x0.45x0.45m
625 per ha

Net Area :14.93
Survey no: 875-2
Wages Rate-308.33

Sr. N	Particulars of Works	1 ha Area				14.93 ha Area			
		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	308.33	50	358.33	14.93	4603.3669	746.5	5349.8669
2	b. Preparation of treatment map (100mX50m arid)	1	308.3	50	358.3	14.93	4603.3669	746.5	5349.8669
	c. Clearing of bushes and preparation of Site (As per requirement)	10	3083	50	3133	149.3	46033.669	746.5	46780.169
2	Soil and moisture conservation works including collection of rubbles from areas upto 30 m etc	31	9557.3	0	9557.3	462.83	142704.3739	0	142704.3739

3	Digging of Treench 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 1 M height. Length 102 Rmt per Ha (127.50 cum per ha)	82.57	25456.331	50	25506.331	1232.77	380100.0049	746.5	380846.5049
4	Caunting of gridwise valuable species & applying colour bands.	3.5	1079.05	0	1079.05	52.255	16111.78415	0	16111.78415
5	Singling of coppices, cut back operation, debudding, climber cutting & soil working around natural regeneration	10	3083	0	3083	149.3	46033.669	0	46033.669
6	Part nursery cost for raising 750 seedlings per ha in polybags of size 12.50x25 cm Rs. 10.56 per plant	26.29	8105.207	1320	9425.207	392.5097	121022.5158	19707.6	140730.1158
7	Allignment of pits at 4x4 m spacement (Wages 0.13 M.D. and Ms. Rs. 2.24 per 50 pits)	1.62	499.446	28	527.446	24.1866	7457.454378	418.04	7875.494378
8	Digging of pits 625 pits per ha (6.60 M.D per 100 pits)	41.25	12717.375	0	12717.375	615.8625	189888.8846	0	189888.8846
	Total	208.23	64197.339	1548	65745.339	3108.874	958559.0896	23111.64	981670.7296
	Contingency 3%			1972.36017	1972.36017			29450.12	29450.12189
	Labour Welfare 4 %			2629.81356	2629.81356			39266.83	39266.82918
	Grand Total	208.23	64197.34	6150.1737	70347.51273	3108.87	958559.09	91828.6	1050387.68
B. First Year Operations									
	Part Nursery cost for maintainace of 750 seedlings per ha Rs. 2.64 per seedling (Wages Rs. 2.20 , M & Rs. 0.44)	6.57	2025.7281	330	2355.7281	98.0901	30244.12053	4926.9	35171.02053
2	Refilling of pits with good quality soil & single super phosphate Rs. 0.96 per pit (1.66 M.D per 100 pits)	10.38	3200.4654	600	3800.4654	154.9734	47782.94842	8958	56740.94842

3	Planting of agava suckers in 3 rows on TCM (306 suckers per ha @ Rs. 3 per suckers)	1	308.33	918	1226.33	14.93	4603.3669	13705.74	18309.1069
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	323.7465	750	1073.7465	15.6765	4833.535245	11197.5	16031.03525
5	Planting of 625 seedlings (1.5 M.D. per 100 seedlings)	9.38	2892.1354	0	2892.1354	140.0434	43179.58152	0	43179.58152
6	Causality replacement (20% 125 seedling per ha) (2 M.D per 100 seedlings)	2.5	770.825	0	770.825	37.325	11508.41725	0	11508.41725
7	3 weedings and 2 soil workings (3.50 M.D per 100 seedlings) fertilizer application Rs. 0.45 per seedling)	42	12949.86	472.5	13422.36	627.06	193341.4098	7054.425	200395.8348
8	Part Nursery Cost for raising seedling for causality replacement in SYO. (125 seedlings per ha.) Rs. 10.56 per plant.	4.38	1350.4854	220	1570.4854	65.3934	20162.74702	3284.6	23447.34702
9	ha	30	9249.9	0	9249.9	447.9	138101.007	0	138101.007
10	Fire tracing	2	616.66	0	616.66	29.86	9206.7338	0	9206.7338
	Total	109.26	33688.136	3290.5	36978.6358	1631.252	502963.8675	49127.17	552091.0325
	Contingency 3 %			1109.35907	1109.359074			16562.73	16562.73097
	Labour Welfare 4%			1479.14543	1479.145432			22083.64	22083.6413
	Grand Total	109.26	33688.14	5879.0045	39567.14031	1631.25	502963.867	87773.5	590737.405
C. Second Year Operations									
1	Part nursery cost for seedlings for causality replacement (500 seedlings per ha)	1.1	330.363	55	385.363	16.423	5063.70359	821.15	5884.85359
2	Transportation of seedlings for causality replacement from nursery to plantation site (including loading and unloading) wages 0.14 M.D per 125 seedling	0.18	54.0594	125	179.0594	2.6874	828.606042	1866.25	2694.856042
3	Causality replacement (125 seedling per ha) 2 M.D per 100 seedling	2.5	750.825	0	750.825	37.325	11508.41725	0	11508.41725

1	Fire Tracing	2	616.66	0	616.66	29.86	9206.7338	0	9206.7338
2	Watch and ward 12 months-	36.5	11254.045	0	11254.045	544.945	168022.8919	0	168022.8919
	1 watcher per 10.00 ha					0	0	0	0
	Total	38.5	11870.705	0	11870.705	574.805	177229.6257	0	177229.6257
	Contingency 3 %			356.12115	356.12115			5316.889	5316.88877
	Labour Welfare 4 %			474.8282	474.8282			7089.185	7089.185026
	Grand Total	38.5	11870.71	830.94935	11870.705	574.805	177229.626	12406.1	189635.699
G - Sixth Year Operations									
1	Fire Tracing	2	616.66	0	616.66	29.86	9206.7338	0	9206.7338
2	Watch and ward 12 months	36.5	11254.045	0	11254.045	544.945	168022.8919	0	168022.8919
	1 watcher per 10.00 ha					0	0	0	0
	Total	38.5	11870.705	0	11870.705	574.805	177229.6257	0	177229.6257
	Contingency 3 %			356.12115	356.12115			5316.889	5316.88877
	Labour Welfare 4 %			474.8282	474.8282			7089.185	7089.185026
	Grand Total	38.5	11870.71	830.94935	11870.705	574.805	177229.626	12406.1	189635.699
H - Seventh Year Operations									
1	Fire Tracing	2	616.66	0	616.66	29.86	9206.7338	0	9206.7338
2	Watch and ward 12 months -	36.5	11254.045	0	11254.045	544.945	168022.8919	0	168022.8919
	1 watcher per 10.00 ha					0	0	0	0
	Total	38.5	11870.705	0	11870.705	574.805	177229.6257	0	177229.6257
	Contingency 3 %			356.12115	356.12115			5316.889	5316.88877
	Labour Welfare 4 %			474.8282	474.8282			7089.185	7089.185026
	Grand Total	38.5	11870.71	830.94935	11870.705	574.805	177229.626	12406.1	189635.699

Abstract for Model No. 4

(Amount in Rupees)

Sr. No.	Year of operation	Man days	Wages	Material supply	Total	Other expenses	Total	Total Amount (Rounded)
1	Pre Monsoon works	3108.87	958559.09	23111.64	981670.73	68716.95	1050387.681	1050388
2	First Year Operations	1631.25	502963.31	49127.17	552090.4825	38646.37	590736.8525	590737
3	Second Year Operations	481.94	148596.56	6886.463	155483.0232	10883.82	166366.8432	166367
4	Third Year Operations	832.348	256637.86	0	256637.8588	17964.64	274602.4998	274602
5	Fourth Year Operations	574.805	177229.63	0	177229.6257	12406.07	189635.6997	189636
6	Fifth Year Operations	574.805	177229.63	0	177229.6257	12406.07	189635.6997	189636
7	Sixth Year Operations	574.805	177229.63	0	177229.6257	12406.07	189635.6997	189636
8	Seventh Year Operations	574.805	177229.63	0	177229.6257	12406.07	189635.6997	189636
	Total	8353.63	2575675	79125.273	2654800.597	185836	2840636.68	2840637


Range Forest Officer
Chiplun


Divisional Forest Officer
Chiplun