

Model No. 4

Model rate structure for plantation of Mixed tree species/Medicinal Plants/Bamboo etc. in areas with medium density having natural (Aided Natural Regeneration)

Detailed scheme for creation and maintenance of plantation of dwarf species (Preferably medicinal plants) Compensatory Afforestation Scheme For the Diversion of forest land proposal of Rehabilitation and up-gradation of NH-66 from Km 406/030 to Km 450/170 [Kalmath to Zarap section] to four -lane with paved shoulder in the state of Maharashtra under NHDP-IV

Village- Amboli(Nagartash), Range- Amboli Division-Sawantwadi, Survey No.271,273,275, Compartement No. 172 Area 6.00 ha. Details as per Annexure-I

Spacment - 4.00m x 4.00m

Size of pits - 0.45 x 0.45 x 0.45 m

No. of seedlings - 400 per ha.

Wage Rate

Rs. 308.33 per day

Sr. No.	Particulars of works	Expenditure per ha.			Expenditure for 6 ha.			Total (Rs. Per Ha.)	
		Man days	Wages +	Material supply	Man days	Wages	Material supply		
A. Pre Monsoon Works (PPO/PYO)									
1	a. Survey and demarcation	1.00	308.33	50.00	358.33	6.0000	1849.98	300.00	2149.98
	b. Preparation of treatment map (100 m 50 m grid)	1.00	308.33	50.00	358.33	6.0000	1849.98	300.00	2149.98
	c. Clearing of bushes and preparation of site (As per requirement)	10.00	3083.30	50.00	3133.30	60.0000	18499.80	300.00	18799.80
2	Soil and moisture conservation works including collection of rubbles from area upto 30 m etc.	31.00	9558.23	0.00	9558.23	186.0000	57349.38	0.00	57349.38

(Signature)
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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 1 M height. Length 102 Rmt per Ha (127.50 cum per	82.57	25458.81	50.00	25503.81	495.4200	152752.85	300.00	153052.85
4	Counting of gridwise valuable species & applying colour bands	3.50	1079.16	0.00	1079.16	21.0000	6474.93	0.00	6474.93
5	Singling of coppices, cut back operation, debudding, climber cutting & soil working around natural regeneration	10.00	3083.30	0.00	3083.30	60.0000	18499.80	0.00	18499.80
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	8106.00	1320.00	9426.00	157.7400	48635.97	7920.00	56555.97
7	Alignment of pits at 4 x 4 m spacement (Wages 0.13 M.D and MS. Rs. 2.24 per 50	1.62	499.49	28.00	527.49	9.7200	2996.97	168.00	3164.97
8	Digging of 625 pits per ha (6.60 M.D Per 100 pits)	41.25	12718.61	0.00	12718.61	247.5000	76311.68	0.00	76311.68
	Total	208.23	64203.56	1548.00	65751.56	1249.38	385221.34	9288.00	394509.34
	Contingency 3%			1972.55	1972.55			11835.28	11835.28
	Labour Welfare 4%			2630.06	2630.06			15780.37	15780.37
	Grand Total	208.23	52309.46	6150.61	70354.16	1249.38	385221.34	36903.65	422124.99
B. First Year Operation									
1	Part Nursery cost for maintenance of 750 seedlings per ha. Rs. 2.64 per seedling (Wages Rs. 2.20, M & S Rs. 0.44)	6.57	2025.73	330.00	2355.73	39.42	12154.37	1980.00	14134.37

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	3200.47	600.00	3800.47	62.28	19202.79	3600.00	22802.79
3	Planting of agave suckers in 3 rows on TCM (306 suckers per ha @ Rs. 3 per suckers)	1.00	308.33	918.00	1226.33	6.00	1849.98	5508.00	7357.98
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	323.75	750.00	1073.75	6.30	1942.48	4500.00	6442.48
5	Planting of seedlings 625 seedlings (1.5 M.D per 100 seedlings)	9.38	2892.14	0.00	2892.14	56.28	17352.81	0.00	17352.81
6	Casualty replacement (20% 125 seedling per ha) (2 M.D per 100 seedlings)	2.50	770.83	0.00	770.83	15.00	4624.95	0.00	4624.95
7	3 weeding and 2 soil workings (3.50 M.D per 100 seedlings) fertilizer application Rs. 0.45 per seedling	42.00	12949.86	472.50	13422.36	252.00	77699.16	2835.00	80534.16
8	Part Nursery Cost for raising seedling for casualty replacement in SYO. (125 seedlings per ha.) Rs. 10.56 per plant.	4.38	1350.49	220.00	1570.49	26.28	8102.91	1320.00	9422.91
9	Watch and ward (9 months) 1 watcher per 10 ha	30.00	7536.30	0.00	7536.30	180.00	55499.40	0.00	55499.40
10	Fire tracing	2.00	616.66	0.00	616.66	12.00	3699.96	0.00	3699.96
	Total	109.26	31974.54	3290.50	35265.04	655.56	202128.81	19743.00	221871.81
	Contingency 3%		0.00	1057.95	1057.95		0.00	6656.15	6656.15
	Labour Welfare 4%		0.00	1410.60	1410.60		0.00	8874.87	8874.87
	Grand Total	109.26	31974.54	5759.05	37733.59	655.56	202128.81	35274.03	237402.84

C. Second Year Operation

1	Part Nursery cost for seedlings for casualty replacement (500 seedlings per ha)	1.10	339.16	55.00	394.16	6.6	2034.98	330.00	2364.98
2	Transportation of seedlings for casualty replacement from nursery to plantation site (including loading & unloading) Wages 0.14 M.D per 125 seedlings.	0.18	55.50	125.00	180.50	1.08	333.00	750.00	1083.00
3	Casualty replacement (125 seedling per ha) (2 M.D per 100 seedlings)	2.50	770.83	0.00	770.83	15	4624.95	0.00	4624.95
4	2 weeding and 1 soil working, with fertilizer application at Rs. 0.45 per seedling	26.50	8170.75	281.25	8452.00	159	49024.47	1687.50	50711.97
5	Fire tracing	2.00	616.66	0.00	616.66	12	3699.96	0.00	3699.96
	Total	32.28	9952.89	461.25	10414.14	193.68	59717.35	2767.50	62484.85
	Contingency 3%		0.00	312.42	312.42		0.00	1874.55	1874.55
	Labour Welfare 4%		0.00	416.57	416.57		0.00	2499.39	2499.39
	Grand Total	32.28	9952.89	1190.24	11143.13	193.68	59717.35	7141.44	66858.79

D. Third Year Operations

1	Singling, Cut back operation, debudding, Climber cutting and Soil working for natural regeneration.	10.00	3083.30	0.00	3083.30	60	18499.80	0.00	18499.80
2	Onè weeding (1 m.d. per 100 seedlings)	6.25	1927.06	0.00	1927.06	37.5	11562.38	0.00	11562.38
3	Collection and sowing of seeds of Valuable species	1.00	308.33	0.00	308.33	6	1849.98	0.00	1849.98
4	Watch and ward 12 months 1 watcher 10.00 ha	36.50	11254.05	0.00	11254.05	219	67524.27	0.00	67524.27
5	Fire trenching	2.00	616.66	0.00	616.66	12	3699.96	0.00	3699.96
	Total	55.75	17189.40	0.00	17189.40	334.50	103136.39	0.00	103136.39

Contingency 3%			0.00	515.68	515.68		0.00	3094.09	3094.09
Labour Welfare 4%			0.00	687.58	687.58		0.00	4125.46	4125.46
Grand Total			55.75	17189.40	1203.26	18392.66	334.50	103136.39	7219.55
E. Fourth Year Operations									
1 Fire trenching		2.00	616.66	0.00	616.66		12	3699.96	3699.96
2 Watch and ward 12 months 1 watcher 10.00 ha		36.50	11254.05	0.00	11254.05		219	67524.27	67524.27
Total		38.50	11870.71	0.00	11870.71	231.00		71224.23	0.00
Contingency 3%			0.00	356.12	356.12			0.00	2136.73
Labour Welfare 4%			0.00	474.83	474.83			0.00	2848.97
Grand Total		38.50	11870.71	830.95	12701.65	231.00		71224.23	4985.70
F. Fifth Year Operations									
1 Fire trenching		2.00	616.66	0.00	616.66		12	3699.96	3699.96
2 Watch and ward 12 months 1 watcher 10.00 ha		36.50	11254.05	0.00	11254.05		219	67524.27	67524.27
Total		38.50	11870.71	0.00	11870.71	231.00		71224.23	0.00
Contingency 3%			0.00	356.12	356.12			0.00	2136.73
Labour Welfare 4%			0.00	474.83	474.83			0.00	2848.97
Grand Total		38.50	11870.71	830.95	12701.65			71224.23	4985.70
G. Sixth Year Operations.									
1 Fire trenching		2.00	616.66	0.00	616.66		12	3699.96	3699.96
2 Watch and ward 12 months 1 watcher 10.00 ha		36.50	11254.05	0.00	11254.05		219	67524.27	67524.27
Total		38.50	11870.71	0.00	11870.71	231.00		71224.23	0.00
Contingency 3%			0.00	356.12	356.12			0.00	2136.73
Labour Welfare 4%			0.00	474.83	474.83			0.00	2848.97
Grand Total		38.50	11870.71	830.95	12701.65			71224.23	4985.70
G. Sixth Year Operations.									
1 Fire trenching		2.00	616.66	0.00	616.66		12	3699.96	3699.96
2 Watch and ward 12 months 1 watcher 10.00 ha		36.50	11254.05	0.00	11254.05		219	67524.27	67524.27
Total		38.50	11870.71	0.00	11870.71	231.00		71224.23	0.00
Contingency 3%			0.00	356.12	356.12			0.00	2136.73
Labour Welfare 4%			0.00	474.83	474.83			0.00	2848.97
Grand Total		38.50	11870.71	830.95	12701.65			71224.23	4985.70

H. Seventh Year Operations

1 Fire trenching		2.00	616.66		616.66	12	3699.96	0.00	3699.96
2 Watch and ward 12 months 1 watcher 10.00 ha		36.50	11254.05	0.00	11254.05	219	67524.27	0.00	67524.27
Total		38.50	11870.71	0.00	11870.71	231.00	71224.23	0.00	71224.23
Contingency 3%			0.00	356.12	356.12		0.00	2136.73	2136.73
Labour Welfare 4%			0.00	474.83	474.83		0.00	2848.97	2848.97
Grand Total		38.50	11870.71	830.95	12701.65	231.00	71224.23	4985.70	76209.93


 Deputy Conservator of Forests
 Forest Division - Sawantwadi

(Amount
in Rupees)

Sr. No.	Year of operation	Man days	Wages	in Rupees)								Total amt (rounded off)
				Material supply	Total	Man days	Wages	Material supply	Total	Other expenses	Total	
1	Pre Monsoon works	208.23	64203.56	1548.00	65751.56	1249.38	385221.34	9288.00	394509.34	27615.65	422124.99	422125
2	First Year Operations	109.26	31974.54	3290.50	35265.04	655.56	202128.81	9288.00	211416.81	15531.03	226947.84	226948
3	Second Year Operations	32.28	9952.89	461.25	10414.14	193.68	59717.35	9288.00	69005.35	4373.94	73379.29	73379
4	Third Year Operations	55.75	17189.40	0.00	17189.40	334.50	103136.39	9288.00	112424.39	7219.55	119643.93	119644
5	Fourth Year Operations	38.50	11870.71	0.00	11870.71	231.00	71224.23	9288.00	80512.23	4985.70	85497.93	85498
6	Fifth Year Operations	38.50	11870.71	0.00	11870.71	231.00	71224.23	9288.00	80512.23	4985.70	85497.93	85498
7	Sixth Year Operations	38.50	11870.71	0.00	11870.71	231.00	71224.23	9288.00	80512.23	4985.70	85497.93	85498
8	Seventh Year Operations	38.50	11870.71	0.00	11870.71	231.00	71224.23	9288.00	80512.23	4985.70	85497.93	85498
	Total	559.52	170803.20	5299.75	176102.95	3357.12	1035100.81	74304.00	1109404.81	74682.95	1184087.76	1184088

Cost per plant Rs.	493.37
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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-I, Planning department, EGS division dt. 03/11/2011. The rates for item No. 4 & 5 of pre monsoon works and item No. 2 of FYO Are as per Model No. 7.

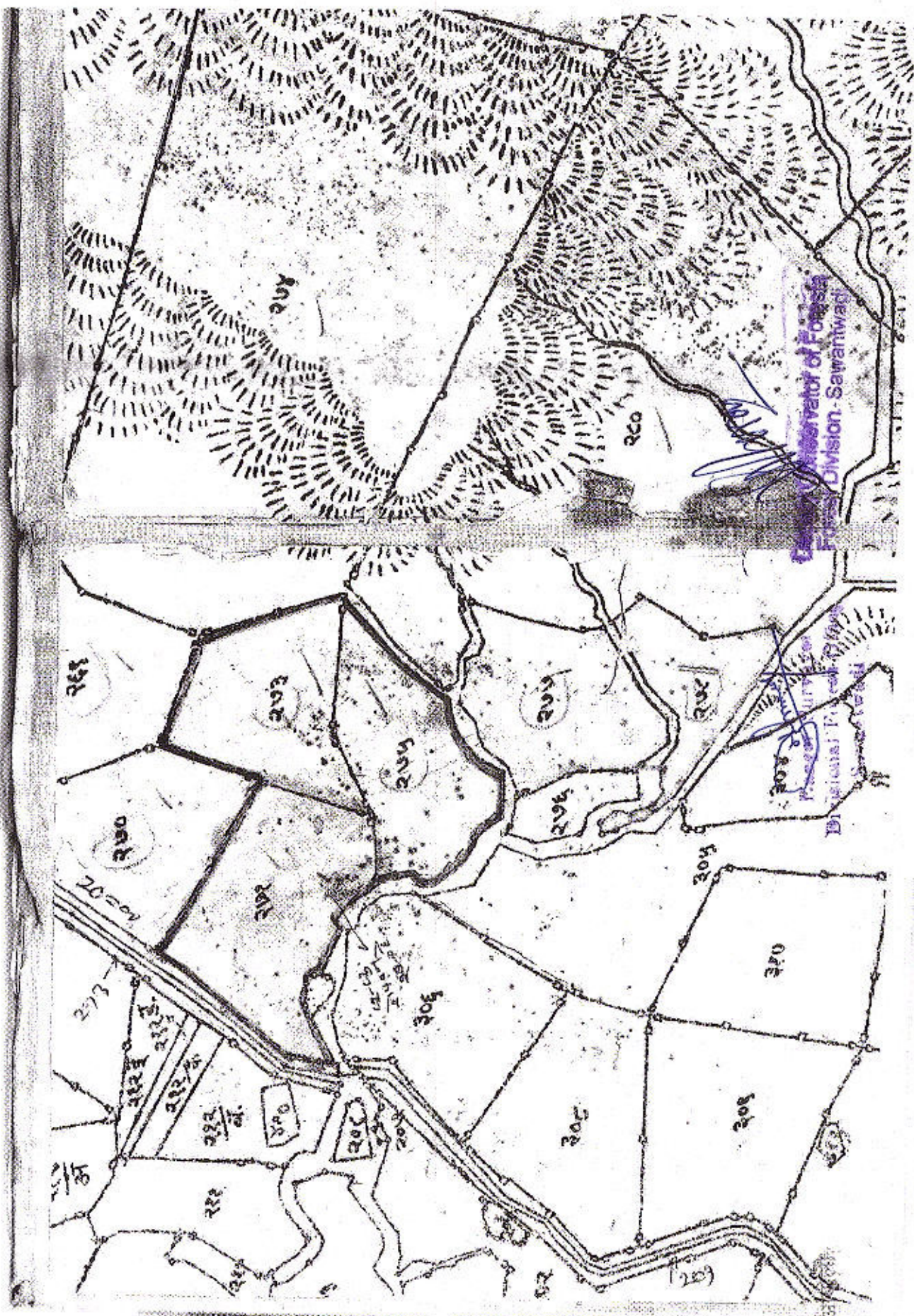
2. Special technical works includes application of improved technology in nursery & plantation, irrigation as per requirement and site condition, additional SMC works, creation of waterholes, Soil replacement in pits, application of biofertilizers, micro nutrients etc.

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उपाध्यक्ष आबोलो
प्रमाणित पत्र
12/05/2020

[Signature]
Deputy Conservator of Forests
Forest Division - Sawantwadi

खोन- 209, 203, 204



Conservator of Forests
Forest Division, Sawanwadi

वमक्षेत्रपाल