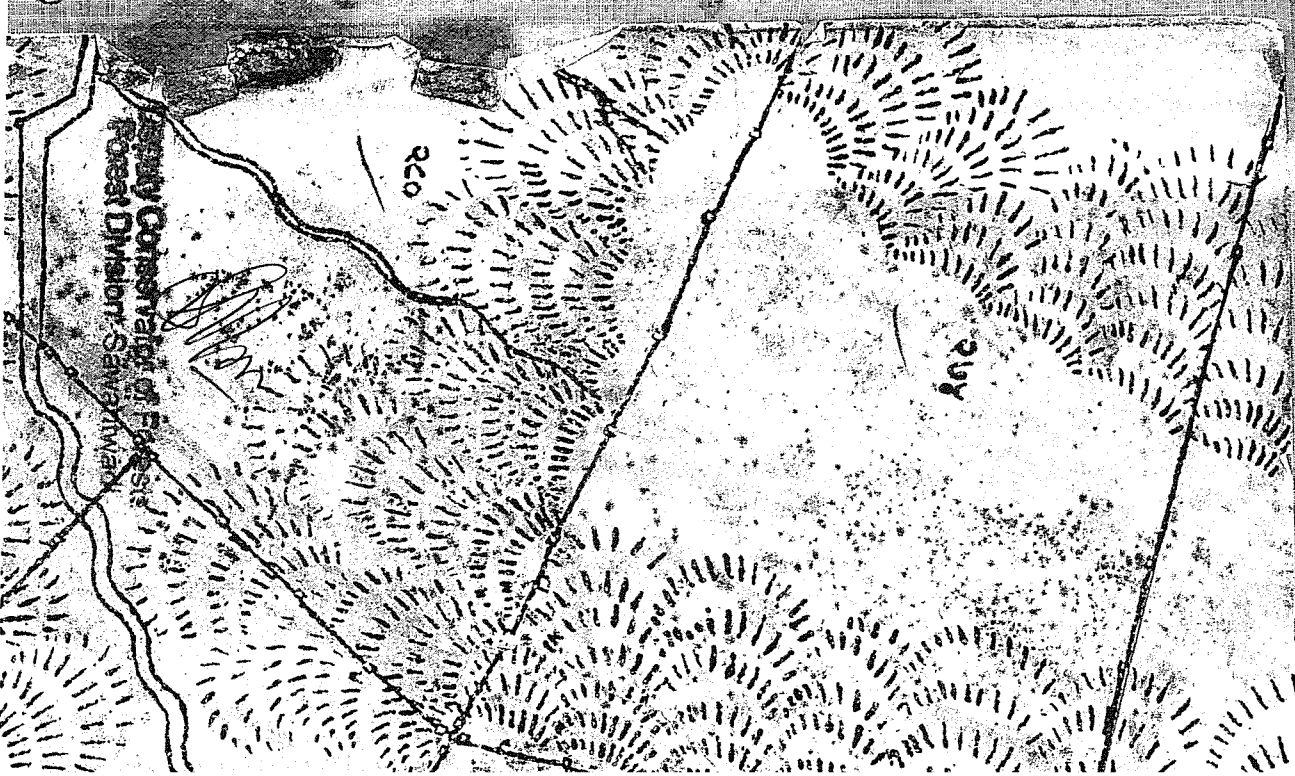
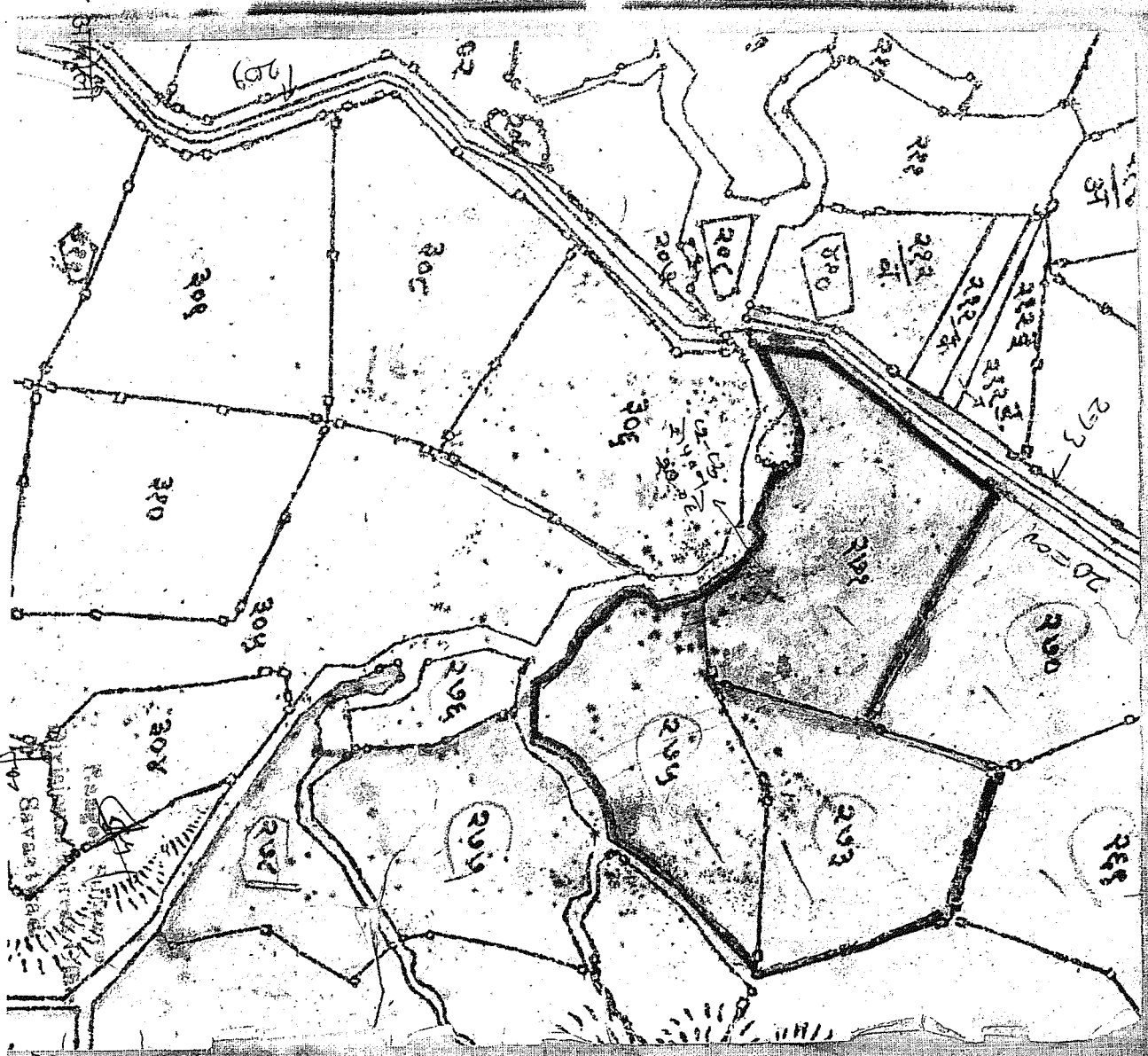


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वनक्षेत्रपाल
८५

Joint Conservator of Forests
Forest Division, Sawai Madhopur

Model No. 4

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

Detailed scheme for creation and maintenance of plantation of dwarf species (Preferably medicinal plants) Compensatory Afforestation Scheme For the Division of forest land proposal of Rehabilitation and up-gradation of NH-66-from [Talegaon To Kalmath 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 7.00 ha.

Details as per Annexure-I

Spacement - 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 7 ha.				
		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	1.00	308.33	50.00	358.33	7.0000	2158.31	350.00	2508.31
	b. Preparation of treatment map (100 m 50 m grid)	1.00	308.33	50.00	358.33	7.0000	2158.31	350.00	2508.31
	c. Clearing of bushes and preparation of site (As per requirement)	10.00	3083.30	50.00	3133.30	70.0000	21583.10	350.00	21933.10
2	Soil and moisture conservation works including collection of rubbles from area upto 30 m etc.	31.00	9558.23	0.00	9558.23	217.0000	66907.61	0.00	66907.61
3	Digging of Trench cum mound (TCM) of size 1.90 x 0.70 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 ha)	82.57	25458.81	50.00	25508.81	577.9900	178211.65	350.00	178561.65
4	Counting of gridwise valuable species & applying colour bands	3.50	1079.15	0.00	1079.15	24.5000	7554.08	0.00	7554.08
5	Singling of coppices, cut back operation, debudding, climber cutting & soil working around natural regeneration	10.00	3083.30	0.00	3083.30	70.0000	21583.10	0.00	21583.10
7	Part nursery cost for raising 750 seedlings per ha in polybags of size 12.50 x 25 cm Rs. 10.57 per plant	26.29	8105.99	1320.00	9425.99	184.0300	56741.97	9240.00	65981.97

Range Officer
Divisional Forest Officer
Sawantwadi

Deputy Conservator of Forests
Forest Division-Sawantwadi

alignment of pits at 4 x 4 m spacement (Wages @ 13 M.D and MS. Rs. 2.24 per 50 pits)		1.62	499.49	28.00	527.49	11.3400	3496.46	196.00	3692.46
8 Digging of 725 pits per ha (7.70 M.D Per 100 pits)		41.25	12718.61	0.00	12718.61	288.7500	89030.29	0.00	89030.29
Total		208.23	64203.54	1548.00	65751.54	1457.61	449424.88	10836.00	460260.88
Contingency 3%				1972.54	1972.54			13807.82	13807.82
Labour Welfare 4%				2630.04	2630.04			18410.43	18410.43
Grand Total		208.23	64203.54	6150.58	70354.12	1457.61	449424.88	43054.25	492479.13
B. First Year Operation									
1 Part Nursery cost for maintenance of 750 seedlings per ha. Rs. 2.74 per seedling (Wages Rs. 2.20, M & S Rs. 0.44)		6.57	2025.72	330.00	3800.47	45.99	14180.00	321.93	14501.93
2 Refilling of pits with good quality soil & single super phosphate Rs. 0.97 per pit (1.77 M.D per 100 pits)		10.38	3200.47	600.00	3800.47	72.66	22403.26	4200.00	26603.26
3 Planting of agave suckers in 3 rows on TCM (307 suckers per ha @ Rs. 3 per suckers)		1.00	308.33	918.00	1226.33	7.00	2158.31	6426.00	8584.31
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	7.35	2266.23	5250.00	7516.23
5 Planting of seedlings 725 seedlings (1.5 M.D per 100 seedlings)		9.38	2892.14	0.00	2892.14	65.66	20244.95	0.00	20244.95
7 Casualty replacement (20% 125 seedling per ha) (2 M.D per 100 seedlings)		2.50	770.83	0.00	770.83	17.50	5395.78	0.00	5395.78
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	294.00	90649.02	3307.50	93956.52
8 Part Nursery Cost for raising seedling for casualty replacement in SYO. (125 seedlings per ha.) Rs. 10.57 per plant.		4.38	1350.49	220.00	1570.49	30.66	9453.40	1540.00	10993.40
9 Watch and ward (9 months) 1 watcher per 10 ha		30.00	9249.90	0.00	9249.90	210.00	64749.30	0.00	64749.30
10 Fire tracing		2.00	616.66	0.00	616.66	14.00	4316.62	0.00	4316.62
Total		109.26	33688.13	3290.50	38423.37	764.82	235816.85	21045.43	256862.28
Contingency 3%			0.00	922.09	1152.70		9.00	7705.86	7705.86
Labour Welfare 4%			0.00	12229.46	1536.93		0.00	10274.49	10274.49
Grand Total		109.27	33688.13	5442.05	41113.00	764.82	235816.85	39026.08	274842.63

For
Divisional Forest Officer
Sawantwadi

Deputy Conservator of Forests
Forest Division, Sawantwadi

2nd Year Operation

1 Part Nursery cost for seedlings for casualty replacement (500 seedlings per ha)	1.10	339.16	55.00	394.16	7.7	2374.14	385.00	2759.14
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	1.26	388.50	875.00	1263.50
3 Casualty replacement (125 seedling per ha) (2 M.D per 100 seedlings)	2.50	770.83	0.00	770.83	17.5	5395.78	0.00	5395.78
4 2 weeding and 1 soil working, with fertilizer application at Rs. 0.45 per seedling	26.50	8170.74	281.25	8451.99	185.5	57195.21	1968.75	59163.96
5 Fire tracing	2.00	616.66	0.00	616.66	14	4316.62	0.00	4316.62
Total	32.28	9952.89	461.25	10414.14	225.96	69670.24	3228.75	72898.99
Contingency 3%		0.00	312.42	312.42		0.00	2186.96	2186.96
Labour Welfare 4%		0.00	416.56	416.56		0.00	2915.95	2915.95
Grand Total	32.28	9952.89	1190.23	11143.12	225.96	69670.24	8331.66	78001.90

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	70	21583.10	0.00	21583.10
2 One weeding. (1 m.d. per 100 seedlings)	6.25	1927.06	0.00	1927.06	43.75	13489.43	0.00	13489.43
3 Collection and sowing of seeds of Valuable species	1.00	308.33	0.00	308.33	7	2158.31	0.00	2158.31
4 Watch and ward 12 months 1 watcher 10.00 ha	36.50	11254.04	0.00	11254.04	255.5	78778.30	0.00	78778.30
5 Fire trenching	2.00	616.66	0.00	616.66	14	4316.62	0.00	4316.62
Total	55.75	17189.39	0.00	17189.39	390.25	120325.76	0.00	120325.76
Contingency 3%		0.00				0.00	3609.77	3609.77
Labour Welfare 4%		0.00				0.00	4813.03	4813.03
Grand Total	55.75	17189.39	0.00	17189.39	390.25	120325.76	8422.80	128748.56

E. Fourth Year Operations

1 Fire trenching	2.00	616.66	0.00	616.66	14	4316.62	0.00	4316.62
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Watch and ward 12 months 1 watcher 10.00 ha	36.50	11254.04	0.00	11254.04	255.5	78778.31	0.00	78778.31
Total	38.50	11870.70	0.00	11870.70	255.50	78778.31	0.00	78778.31
Contingency 3%		0.00	356.12	356.12		0.00	2363.34	2363.34
Labour Welfare 4%		0.00	474.82	474.82		0.00	3115.13	3115.13
Grand Total	38.50	11870.70	830.94	12701.64	255.50	78778.31	5478.47	84256.78

F. Fifth Year Operations

1 Fire trenching	2.00	616.66	0.00	616.66	14	4316.62	0.00	4316.62
2 Watch and ward 12 months 1 watcher 10.00 ha	36.50	11254.04	0.00	11870.70	255.5	78778.31	0.00	78778.31
Total	38.50	11870.70	0.00	12487.36	269.50	83094.93	0.00	83094.93
Contingency 3%		0.00		0.00		0.00	2492.84	2492.84
Labour Welfare 4%		0.00		0.00		0.00	3323.79	3323.79
Grand Total	38.50	11870.70	0.00	12487.36	269.50	83094.93	5816.63	88911.56

G. Sixth Year Operations.

1 Fire trenching	2.00	616.66	0.00	616.66	14	4316.62	0.00	4316.62
2 Watch and ward 12 months 1 watcher 10.00 ha	36.50	11254.04	0.00	11254.04	255.5	78778.31	0.00	78778.31
Total	38.50	11870.70	0.00	11870.70	269.50	83094.93	0.00	83094.93
Contingency 3%		0.00	356.12	356.12		0.00	2492.84	2492.84
Labour Welfare 4%		0.00	474.83	474.83		0.00	3323.79	3323.79
Grand Total	38.50	11870.70	830.95	12701.65	269.50	83094.93	5816.63	88911.56

H. Seventh Year Operations

1 Fire trenching	2.00	616.66	0.00	616.66	14	4316.62	0.00	4316.62
2 Watch and ward 12 months 1 watcher 10.00 ha	36.50	11254.04	0.00	11254.04	255.5	78778.31	0.00	78778.31
Total	38.50	11870.70	0.00	11870.70	269.50	83094.93	0.00	83094.93
Contingency 3%		0.00	356.12	356.12		0.00	2492.84	2492.84
Labour Welfare 4%		0.00	474.83	474.83		0.00	3323.79	3323.79
Grand Total	38.50	11870.70	830.95	12701.65	269.50	83094.93	5816.63	88911.56

Deputy Conservator of Forests
Forest Division, Sawantwadi

Deputy Conservator of Forests
Forest Division, Sawantwadi

Sr	Year of operation	Man days	Wages	Material supply	Total	Man days	Wages	Material supply	Total ha.	Total amt (rounded off)
N										
1	Pre Monsoon works	208.23	6403.54	6150.58	70354.12	1457.61	449424.88	43054.25	492479.13	492479.00
2	First Year Operations	109.27	33688	5442.05	41113.00	764.82	235816.95	39026.08	274843.03	274843.00
3	Second Year Operations	32.28	9952.89	1190.23	11143.12	225.96	69670.24	8331.66	78001.90	78002.00
4	Third Year Operations	55.57	17189.39	0.00	17189.39	390.25	120325.76	8422.80	128748.56	128749.00
5	Fourth Year Operations	38.50	11870.70	830.94	12701.64	255.50	78778.31	5478.47	84256.78	84257.00
7	Fifth Year Operations	38.50	11870.70	0.00	12484.36	269.50	83094.93	5816.63	88911.56	88912.00
7	Sixth Year Operations	38.50	11870.70	830.95	12701.65	269.50	83094.93	5816.63	88911.56	88912.00
8	Seventh Year Operations	38.50	11870.70	830.95	12701.65	269.50	83094.93	5816.63	88911.56	88912.00
	Total	559.35	114716.75	15275.70	190388.93	3902.64	1203300.93	121763.15	1325064.08	1325066.00

No 1. The rates indicated are as per item No. 3 of Government of Maharashtra resolution No. MREGS-2011/F.No. 85/EGS-1, Planning department, EGS division dt. 03/11/2011. The rates for item No. 4 & 5 of pre monsoon works and item No. 2 of F.Y.O Are as per Model No. 7.

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Deputy Conservator of Forests
Forest Division, Sawantwadi