Name of Project: Diversion of 0.467 ha. Forest land for Construction of approach road towards Private Non Foret land passing through Private Forest land of village Asangaon and Protected Forests of village Kalambhe, Taluka Shahapur, Dist. Thane.

Compensatory Afforestation Scheme
Model No. 3

Model rate structure for plantation of mixed tree species with rainfall upto 800 mm and medium quality, medium drained soil with depth up to 30 cm.

Location: Range - Shahapur, Round - Atgaon, Beat - Asangaon

Village: Kalambhe, Gut No. 220pt., S.No. 94/A, Area - 1.00 ha.

Spacement - 3.0 m x 3.0 m

Size of Pits - 0.45 x 0.45 x 0.45 m

No. of Seedings - 1111 per ha

Wages Rate - Rs. 303.44 per day

(Amount in Rs.)

Sr. No.	Particulars of works	Man days	Wages	Material supply	Total (Rs. Per Ha.)
A. Pre Monsoon Works (PPO/PYO)					
1	a. Survey and demarcation	1.00	303.44	50.00	353.44
	b. Preparation of treatment map (100m X 50m grid)	1.00	303.44	50.00	353.44
	c. Clearing of bushes and preparation of site (As per requirement)	10.00	3034.4	50.00	3084.40
2	Soil and moisture conservation works including collection of rubbles from areas upto 30m etc.	31.00	9406.64	0.00	9406.64
3	Alignment of 1200 rmt of CCT at 8.00m spacement (0.25 M.D. per 100 rmt and M & S Rs. 40 Per 100 rmt)	3.00	910.32	96.00	1006.32
4	Digging of CCT of size 60 cm width and 45 cm depth including stacking of soil at down word slope (1200 rmt per ha. 0.15 per rmt)	183.60	55711.584	0.00	55711.58
5	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 ha)	82.57	25055.041	50.00	25105.04
6	Alignment of pits at 3.0 x 3.0 m spacement 1111 pits per ha (0.13 M.D. and M & S Rs. 2.24 per 50 pits.)	2.86	867.8384	49.77	917.61
7	Digging of pits of 0.45 x 0.45 x 0.45 m size 1111 pits per ha (6.60 M.D. per 100 pits.)	73.33	22251.255	0.00	22251.26
8	Part Nursery cost for raising 1333 seeding per ha (including 20% casuality replacement) in polybag of size 12.50 x 25.00 cm (Wages Rs. 8.80 and M & S Rs. 1.76 per plant)	28.63	8687.4872	2346.08	11033.57
	Total	416.99	126531.45	2691.85	129223.30
	Contingency 3%			3876.70	3876.70
	Labour Welfare 4%			5168.93	5168.93
	Grand Total	416.99	126531.45	11737.48	138268.93

B. First Year Operations					
1	Part Nursery cost for maintance of 1333 seeding per ha Rs. 1.55 per seeding (Wages Rs. 1.11 M & S Rs. 0.44)	11.68	3544.1792	586.52	4130.70
2	Refilling of pits with good quality soil a) Wages 1.66 M.D. per 100 pits b) 20% soil replacement 20 cum per ha. Rs. 300/- per cum. C) Filling 5% farm yard manure in pits. 5 cum per has. Rs. 700/- per cum	18.44	5595.4336	9500.00	15095.43
3	Transportation of 1333 seedings from Nursery to plantation site including loading and unloading (0.14 M.D per 100 seedings and M. S. Rs. 1 per seedings)	1.55	470.332	1333.00	1803.33
4	Plantation of agave suckers in 3 rows on TCM. (306 suckers per ha @ Rs. 500 per kg.)	1.00	303.44	981.00	1284.44
5	Sowing of seeds on CCT. 1200 rmt. 5 kg. per has @ Rs. 50 per kg.	12.00	3641.28	250.00	3891.28
6	Removal of weeds from CCT (1.20 M.D. per 100 rmt)	14.40	4369.536	0.00	4369.54
7	Planting of seeding 1111 per ha (1.00 M.D. Per 100 seedings.)	19.11	5798.7384	0.00	5798.74
8	3 weedings and 2 soil workings (3.50 M.D per 100 seedings) fertilizer application Rs. 0.45 per seeding.	38.88	11797.747	500.00	12297.75
9	Causality replacement (20% 222 seeding per ha) (2 M.D per 100 seedings)	4.44	1347.2736	0.00	1347.27
10	Part Nursery cost for casuality replacement in SYO (222 seedlings per ha.)(wages Rs. 8.80 and material supply Rs. 1.76 total Rs. 10.56 per seeding.)	7.78	2360.7632	390.72	2751.48
11	Watcch and ward (10 months - 1 watcher per 10 ha)	30.00	9103.2	0.00	9103.20
12	Fire tracing	2.00	606.88	0.00	606.88
	Total	161.28	48938.803	13541.24	62480.04
	Contingency 3%		0.00	1874.40	1874.40
	Labour Welfare 4%		0.00	2499.20	2499.20
	Grand Total	161.28	48938.80	17914.84	66853.65
C. Secong Year Operations					
1	Part nursery cost for seedings for causality replacement (222 seedings per ha)	1.95	591.708	97.67	689.38
2	Transportation of 222 seedings for casuality replacement including loading and unloading (0.14 M.D and M. S. Rs. 1 per 100 seedings)	0.31	94.0664	222.00	316.07
3	Planting for casuality replacement 222 seedings (2.00 M.C per 100 seedings)	4.14	1256.2416	0.00	1256.24
4	2 weedings and 1 soil working, with fertilizer application at Rs. 0.45 per seedings	27.77	8426.5288	500.00	8926.53
5	Watcch and ward 12 months - 1 watcher per 10.00 ha	36.50	11075.56	0.00	11075.56
6	Fire tracing	2.00	606.88	0.00	606.88
	Total	72.67	22050.98	819.67	22870.65

	Contingency 3%		0.00	686.12	686.12
	Labour Welfare 4%		0.00	914.83	914.83
	Grand Total	72.67	0.00	2420.62	24471.60
D. Third Year Operations					
1	1 weedings and 1 soil working, (1.50 M.D per 100 seedings)	16.67	5058.3448	0.00	5058.34
2	Watch and ward 12 months - 1 watcher per 10.00 ha	36.50	11075.56	0.00	11075.56
3	Fire tracing	2.00	606.88		606.88
	Total	55.17	16740.78	0.00	16740.78
	Contingency 3%		0.00	502.22	502.22
	Labour Welfare 4%		0.00	669.63	669.63
	Grand Total	55.17	16740.78	1171.85	17912.64
E. Fourth Year Operations					
1	Fire tracing	2.00	606.88	0.00	606.88
2	Watch and ward 12 months - 1 watcher per 10.00 ha	36.50	11075.56	0.00	11075.56
	Total	38.50	11682.44	0.00	11682.44
	Contingency 3%		0.00	350.47	350.47
	Labour Welfare 4%		0.00	467.30	467.30
	Grand Total	38.50	11682.44	817.77	12500.21
F. Fifth Year Operations					
1	Fire tracing	2.00	606.88	0.00	606.88
2	Watch and ward 12 months - 1 watcher per 10.00 ha	36.50	11075.56	0.00	11075.56
	Total	38.50	11682.44	0.00	11682.44
	Contingency 3%		0.00	350.47	350.47
	Labour Welfare 4%		0.00	467.30	467.30
	Grand Total	38.50	11682.44	817.77	12500.21
G. Sixth Year Operations					
1	Fire tracing	2.00	606.88	0.00	606.88
2	Watch and ward 12 months - 1 watcher per 10.00 ha	36.50	11075.56	0.00	11075.56
	Total	38.50	11682.44	0.00	11682.44
	Contingency 3%		0.00	350.47	350.47
	Labour Welfare 4%		0.00	467.30	467.30
	Grand Total	38.50	0.00	817.77	12500.21
H. Seventh Year Operations					
1	Fire tracing	2.00	606.88	0.00	606.88
2	Watch and ward 12 months - 1 watcher per 10.00 ha	36.50	11075.56	0.00	11075.56
	Total	38.50	11682.44	0.00	11682.44
	Contingency 3%		0.00	350.47	350.47
	Labour Welfare 4%		0.00	467.30	467.30
	Grand Total	38.50	11682.44	817.77	12500.21

(D. P. Nikam)
Dy. Conservator of Forests
Shahapur Forest Division, Shahapur

Abstract for Model No. 3

Sr. No.	Year of operation	Man days	Wages	Material supply	Total	Other expenses	Total	Total amount (rounded off)
1	Pre Monsoon works	416.99	126531.45	2691.85	129223.30	9045.63	138268.93	138269
2	First Year Operations	161.28	48938.80	13541.24	62480.04	4373.60	66853.64	66854
3	Second Year	72.67	22050.98	819.67	22870.65	1600.95	24471.60	24472
4	Third Year Operations	55.17	16470.78	0.00	16470.78	1171.85	17642.63	17643
5	Forth Year Operations	38.50	11682.44	0.00	11682.44	817.77	12500.21	12500
6	Fifth Year Operations	38.50	11682.44	0.00	11682.44	817.77	12500.21	12500
7	Sixth Year Operations	38.50	11682.44	0.00	11682.44	817.77	12500.21	12500
8	Seventh Year Operations	38.50	11682.44	0.00	11682.44	817.77	12500.21	12500
	Total	**860.11**	**260721.77**	**17052.76**	**277774.53**	**19463.11**	**297237.64**	**297238**

(D. P. Nikam)
Dy. Conservator of Forests
Shahapur Forest Division, Shahapur