

Section Documents On Compensatory Afforestation

9

Description Of Land For Compensatory Afforestation (C.A.)

Sr.	Name of Tahsil	Name of Village	Name of Range	Comp. No.	Survey No/ Gut No.	Area Proposed C.A. Land
1.	Khandar	Shiradhon	Nanded	572 a/1	34 Pt / 64	67.00
Total Area						67.00

(R.A. Satelikar)

Deputy Conservator, of Forests
Nanded Division Nanded

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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.

Spacement
Size of Pits
No. of Seedlings

- 3m x 3m
- 0.45 x 0.45 x
- 1111 per ha

VILLAGE
TALUKA
Range
Shiradhon
Khandar
Nanded

Compt.No
S.N./Gut N
572 a/1
32 Pt / 64
Wage Rate
Ha.
387.23
67.00

Sr.N o	Particulars of works	Per Ha.				67.00	Ha.				
		Man days	Wages	Material supply	Total (Rs. Per Ha.)			Man days	Wages	Material supply	Total (Rs. Per Ha.)
<u>A. Pre Monsoon Works PPO/PYO</u>											
1	(a) Survey and demarcation	1	387.23	91	478.23	67	25944.41	6097	32041.41		
	(b) Preparation of treatment map (100 m x 50 m grid)	1	387.23	91	478.23	67	25944.41	6097	32041.41		
	(c) Digging trial pits of size 0.30x0.30x0.60 in corner of Grid.	0.40	154.89	0	154.89	26.8	10377.764	0	10377.76		
	(d) Fixing 60cm x 0.05cm x12cm cement pillars upto 30cm deep in corner of Grid, painting with Grid No. etc complete (3 pillars, Rs.75/- for each pills)	0	0.00	225	225.00	0	0	15075	15075.00		
	(e) Clearing of bushes and preparation of site (As per requirement)	10	3872.3	91	3963.30	670.00	259444.10	0	259444.10		
2	Soil and moisture conservation works including collection of rubbles from areas upto 30 m etc	31	12004.13	0	12004.13	2077	804276.71	0	804276.71		
3	Providing and fixing chain link fencing, 102 Rmt per ha (With one gate + two wickets gates for one site) (Rs.1494/- per Rmt of basic rate + 20% for transportation of ave. leadplus 20% for tribal/remote area (by tender process.) (Rs.1494+149+149=1792/- p	0	0	182865.6	182865.60	0	0	12251995.2	12251995.20		
4	Alignment of pits at 3m x 3m spacement. 1111 pits per Ha (0.25	2.78	1076.50	49.77	1126.27	186.26	72125.4598	3334.59	75460.0498		
5	Digging of pits of size 0.45 x 0.45 x 0.45 m (1111 pits per ha) 6.60 M.D per 100 pits. Note :- As per local conditions provision for mechanized digging can be made.	73.33	28395.58	0	28395.58	4913.11	1902503.59	0.00	1902503.59		
6	Construction of 5.00 Rmt wide Inspection Path I.M.D. per 100 Rmt	1	387.23	0	387.23	67.00	25944.41	0	25944.41		

7	Enumeration of all valuable plant species at plantation site and grid wise counting and providing color band and recording the same in Register (0.75 M.D.) per 100 plants	0.75	290.42	25	315.42	50.25	19458.31	1675	21133.31
8	Providing and fixing (4 feet x 3 feet) information board each per site	0	0	5000	5000.00	0	0.00	335000.00	335000.00
9	Part Nursery cost of raising 1333 seedlings per ha (including 20% casualty replacement) in polygons of size 12.50 x 25.00 cm (Wages Rs.11.90 and M & S Rs.3.62 per plant)	46.71	18087.513	4825.46	22912.97	3129.57	0.00	335000.00	335000.00
	Total	167.97	65043.02	193263.83	258306.85	11253.99	3146019.16	12954273.79	16100292.95
	Contingency 3%		0	7749.21	7749.21	0	0	519196.77	519196.77
	Labour Welfare 4%		0	10332.27	10332.27	0	0	692262.37	692262.37
	Grand Total	167.97	65043.02	211345.31	276388.3328	11254	3146019.157	14165732.93	17311752.09

B. First Year Operations

1	Part Nursery cost for maintenance of 1333 seedling per ha Rs. 3.77 per seedling (Wages Rs.2.69, M & S Rs. 0.81)	14.80	5731.00	1079.73	6810.73	991.6	383977.268	72341.91	456319.178
2	Refilling of pits by good quality soil including application of single super phosphate (1.66 MD per 100 pits)	18.44	7140.5212	1944.25	9084.77	1235.48	478414.9204	130264.75	608679.67
3	Transportation of 1333 seedlings from Nursery to plantation site including loading & unloading (0.14 M.D. per 100 seedlings & M.S. Rs.1.82 Per seedlings)	1.87	724.12	2426.00	3150.12	125.29	48516.0467	162542	211058.05
4	Planting of 1111 seedlings (1.0 M.D per 100 seedlings)	11.11	4302.13	0	4302.13	744.37	288242.3951	0	288242.40
5	3 seedlings (1 Rmt circular) and 2 soil workings (4.00 M.D per 100 seedlings) fertilizer application Rs.0.82 per seedling	44.44	17208.501	911.02	18119.52	2977.48	1152969.58	61038.34	1214007.92
6	Watering 1111 seedlings November and December 1 time each, January to March 2 times each per seedlings 5 litre water, purchase of 1111 plastic can of 5 litre / matka @Rs.25/- each and 100 litre capacity 11 drums @Rs.400/- each for supplying water and waste	59.25	22943.378	54395.00	77338.38	3969.75	1537206.293	3644465	5181671.29
7	Casualty replacement (20% 222 Seedlings per ha.) (2 M.D. per 100 seedlings)	4.44	1719.3012	0	1719.30	297.48	115193.1804	0	115193.18
8	Part Nursery cost for causality replacement in SYO (222 seedlings per ha.) (wages Rs. 11.90 and material supply Rs.3.62 total Rs.12.55 per seedling.)	7.77	3008.78	803.64	3812.42	520.59	201588.0657	53843.88	255431.9457
9	Watch and ward (10 months – 1 watcher per 10 ha)	27.38	10602.36	0	10602.36	1834.46	710357.95	0.00	710357.95
10	Soil working for naturally grower plants and singling (1.15 M.D.	1.15	445.31	10	455.31	77.05	29836.0715	670	30506.0715
11	Fire tracing	2.00	774.46	0	774.46	134	51888.82	0	51888.82
	Total	192.65	74599.86	61569.64	136169.50	12907.55	4998190.59	4125165.88	9123356.47
	Contingency 3%		0	4085.084985	4085.08	0.00	0.00	273700.694	273700.69
	Labour Welfare 4%		0	5446.77998	5446.78	0	0	364934.2587	364934.26

Grand Total	192.65	74599.86	71101.50	145701.36	12907.55	4998190.59	4763800.83	9761991.42
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	952.5858	404.00	1356.5858	165	63823.2486	27068	90891.2486
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	120.0413	404.04	524.0813	21	8042.7671	27070.68	35113.4471
3 Planting for causality replacement 222 seedlings (2.00 M.D. per 100 seedlings)	4.44	1719.301	0.00	1719.3012	297	115193.1804	0	115193.1804
4 2 weedings and 1 soil working, with fertilizer application 2.5 M.D. per 100 seedlings at M.S. Rs. 0.82 per seedling	27.77	10753.38	911.02	11664.3971	1861	720476.2657	61038.34	781514.6057
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 / matka @Rs.25/- each replacing 111 cans / matka, supplying water @Rs.0.50/- per litre and watering 150 seedlings per M.D.	88.88	34417	36105	70522.0024	5955	2305939.161	2419035	4724974.161
6 Watch and ward 12 months -1 watcher per 10.00 ha	36.50	14133.9	0	14133.895	2446	946970.965	0	946970.965
7 Fire tracing	2	774.46	0	774.46	134	51888.82	0	51888.82
Total	162.36	62870.66	37824.06	100694.7228	10878.12	4212334.408	2534212.02	6746546.428
Contingency 3%		0	3020.8417	3020.842			202396.3928	202396.39
Labour Welfare 4%		0	4027.7889	4027.789			269861.8571	269861.86
Grand Total	162.36	62870.66	44872.691	107743.3534	10878.12	4212334.408	3006470.27	7218804.678
D. Third Year Operations								
1 1 weeding and 1 soil working (1.50 M.D. per 100 seedlings) applying fertilizer @ Rs.0.82 per plant.	16.67	6455.1241	911.02	7366.1441	1117	432493.3147	61038.34	493532
2 Watering 556 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.0.50/- litre and watering 150 seedlings per M.D.	44.48	17223.99	16680	33903.9904	2980	1154007.357	1117560	2271567
3 Watch and ward 12 months 1 watcher per 10.00 ha	36.50	14133.895	0	14133.895	2446	946970.965	0	946971
4 Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	774.46	25.00	799.46	134	51888.82	1675	53564
5 Fire tracing	2.00	774.46	0	774.46	134	51888.82	0	51889
Total	101.65	39361.93	17616.02	56977.9495	6811	2637249.277	1180273.34	3817523
Contingency 3%		0	1709.3385				114525.6785	114526
Labour Welfare 4%		0	2279.118				152700.9047	152701

Grand Total		101.65	39361.93	21604.48	56977.95	6810.55	2637249.28	1447499.92	4084749.20
E. Fourth Year Operations									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	14133.895	0	14133.895	2446	946970.965	0	946971
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	774.46	25	799.46	134	51888.82	1675	53564
3	Fire tracing	2.00	774.46	0	774.46	134	51888.82	0	51889
Total		40.50	15682.815	25	15707.815	2713.5	1050748.605	1675	1052424
Contingency 3%			0	471.23445			31572.70815		31573
Labour Welfare 4%			0	628.3126			42096.9442		42097
Grand Total		40.50	15682.815	1124.5471	15707.815	2713.5	1050748.605	75344.65235	1126093
F. Fifth Year Operations									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	14133.895	0	14133.895	2446	946970.965	0	946971
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	774.46	25	799.46	134	51888.82	1675	53564
3	Fire tracing	2.00	774.46	0	774.46	134	51888.82	0	51889
Total		40.50	15682.815	25.00	15707.815	2713.5	1050748.605	1675	1052424
Contingency 3%			0	471.23445			31572.70815		31572.70815
Labour Welfare 4%			0	628.3126			42096.9442		42096.9442
Grand Total		40.50	15682.815	1124.5471	15707.815	2713.5	1050748.605	75344.65235	1126093
G. Sixth Year Operations									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	14133.895	0	14133.895	2446	946970.965	0	946971
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	774.46	25	799.46	134	51888.82	1675	53564
3	Fire tracing	2.00	774.46	0	774.46	134	51888.82	0	51889
Total		40.50	15682.815	25	15707.815	2713.5	1050748.605	1675	1052424
Contingency 3%			0	471.23445			31572.70815		31573
Labour Welfare 4%			0	628.3126			42096.9442		42097
Grand Total		40.5	15682.815	1124.5471	15707.815	2713.5	1050748.605	75344.65235	1126093
H. Seventh Year Operations									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	14133.895	0	14133.895	2446	946970.965	0	946971
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	774.46	25	799.46	134	51888.82	1675	53564
3	Fire tracing	2.00	774.46	0	774.46	134	51888.82	0	51889
Total		40.50	15682.815	25	15707.815	2713.5	1050748.605	1675	1052424
Contingency 3%			0	471.23445			31572.70815		31573
Labour Welfare 4%			0	628.3126			42096.9442		42097
Grand Total		40.5	15682.815	1124.5471	15707.815	2713.5	1050748.605	75344.65235	1126093
I. Eighth Year Operations									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	14133.895	0	14133.895	2446	946970.965	0	946971
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	774.46	25	799.46	134	51888.82	1675	53564
3	Fire tracing	2.00	774.46	0	774.46	134	51888.82	0	51889
Total		40.50	15682.815	25	15707.815	2713.5	1050748.605	1675	1052424
Contingency 3%			0	471.23445			31572.70815		31573
Labour Welfare 4%			0	628.3126			42096.9442		42097
Grand Total		40.50	15682.815	1124.5471	15707.815	2713.5	1050748.605	75344.65235	1126093

Grand Total		101.65	39361.93	21604.48	56977.95	6810.55	2637249.28	1447499.92	4084749.20
E. Fourth Year Operations									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	14133.895	0	14133.895	2446	946970.965	0	946971
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	774.46	25	799.46	134	51888.82	1675	53564
3	Fire tracing	2.00	774.46	0	774.46	134	51888.82	0	51889
Total		40.50	15682.815	25	15707.815	2713.5	1050748.605	1675	1052424
Contingency 3%			0	471.23445					31573
Labour Welfare 4%			0	628.3126					42097
Grand Total		40.50	15682.815	1124.5471	15707.815	2713.5	1050748.605	75344.65235	1126093
F. Fifth Year Operations									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	14133.895	0	14133.895	2446	946970.965	0	946971
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	774.46	25	799.46	134	51888.82	1675	53564
3	Fire tracing	2.00	774.46	0	774.46	134	51888.82	0	51889
Total		40.50	15682.815	25.00	15707.815	2713.5	1050748.605	1675	1052424
Contingency 3%			0	471.23445					31572.70815
Labour Welfare 4%			0	628.3126					42096.9442
Grand Total		40.50	15682.815	1124.5471	15707.815	2713.5	1050748.605	75344.65235	1126093
G. Sixth Year Operations									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	14133.895	0	14133.895	2446	946970.965	0	946971
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	774.46	25	799.46	134	51888.82	1675	53564
3	Fire tracing	2.00	774.46	0	774.46	134	51888.82	0	51889
Total		40.50	15682.815	25	15707.815	2713.5	1050748.605	1675	1052424
Contingency 3%			0	471.23445					31572.70815
Labour Welfare 4%			0	628.3126					42097
Grand Total		40.5	15682.815	1124.5471	15707.815	2713.5	1050748.605	75344.65235	1126093
H. Seventh Year Operations									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	14133.895	0	14133.895	2446	946970.965	0	946971
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	774.46	25	799.46	134	51888.82	1675	53564
3	Fire tracing	2.00	774.46	0	774.46	134	51888.82	0	51889
Total		40.50	15682.815	25	15707.815	2713.5	1050748.605	1675	1052424
Contingency 3%			0	471.23445					31573
Labour Welfare 4%			0	628.3126					42097
Grand Total		40.5	15682.815	1124.5471	15707.815	2713.5	1050748.605	75344.65235	1126093
I. Eighth Year Operations									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	14133.895	0	14133.895	2446	946970.965	0	946971
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	774.46	25	799.46	134	51888.82	1675	53564
3	Fire tracing	2.00	774.46	0	774.46	134	51888.82	0	51889
Total		40.50	15682.815	25	15707.815	2713.5	1050748.605	1675	1052424
Contingency 3%			0	471.23445					31573
Labour Welfare 4%			0	628.3126					42097
Grand Total		40.50	15682.815	1124.5471	15707.815	2713.5	1050748.605	75344.65235	1126093

Labour Welfare 4%		0	628.3126				42096.9442	42097
Grand Total	40.50	15682.815	1124.5471	15707.815	2713.5	1050748.605	75344.65235	1126093

I. Eighth Year Operations

1 Watch and ward 12 months 1 watcher per 10.00 ha	36.50	14133.895	0	14133.895	2446	946970.965	0	946971
2 Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	774.46	25	799.46	134	51888.82	1675	53564
3 Fire tracing	2.00	774.46	0	774.46	134	51888.82	0	51889
Total	40.50	15682.82	25	15707.815	2713.5	1050748.605	1675	1052424
Contingency 3%		0	471.23445				31572.70815	31573
Labour Welfare 4%		0	628.3126				42096.9442	42097
Grand Total	40.50	15682.82	1124.5471	15707.815	2713.5	1050748.605	75344.65235	1126093

J. Ninth Year Operations

1 Watch and ward 12 months 1 watcher per 10.00 ha	36.50	14133.895	0	14133.895	2446	946970.965	0	946971
2 Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	774.46	25	799.46	134	51888.82	1675	53564
3 Fire tracing	2.00	774.46	0	774.46	134	51888.82	0	51889
Total	40.50	15682.815	25	15707.815	2713.5	1050748.605	1675	1052424
Contingency 3%		0	471.23445				31572.70815	31573
Labour Welfare 4%		0	628.3126				42096.9442	42097
Grand Total	40.50	15682.815	1124.5471	15707.815	2713.5	1050748.605	75344.65235	1126093

K. Tenth Year Operations

1 Watch and ward 12 months 1 watcher per 10.00 ha	36.50	14133.895	0	14133.895	2446	946970.965	0	946971
2 Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	774.46	25	799.46	134	51888.82	250	52139
3 Fire tracing	2.00	774.46	0	774.46	134	51888.82	0	51889
Total	40.50	15682.815	25	15707.815	2714	1050748.605	250	1050999
Contingency 3%		0	471.23445				31572.70815	31530
Labour Welfare 4%		0	628.3126				42096.9442	42040
Grand Total	40.50	15682.82	1124.55	15707.82	2713.50	1050748.61	73919.65	1124569

नंदीव
नांदेड.

वनपरिक्षेत्र अधिकारी (प्रा.)

(R.A. Satelkar)
Deputy Conservator, of forests
Nanded Division Nanded