

Model Rate Structure for Compensatory Afforestation Model No.4

Model rate structure for plantation of mixed tree species in areas with rainfall 800 mm and medium quality, medium drained soil

Spacement - 3m x 3m

Size of Pits - 0.45 x 0.45 x 0.45 M

No. of Seedlings - 1100 per ha.

Division Alibag
Plantation Site Village - Adharane, Reserve Forest C.No.503
Range Pen

Round Gagode
Beat Adharne
Area :- 1.00 Hector

No. of Seedlings - 1100 per ha.		DAILY WAGES RATE		438.42		Area :-					1.00 hectore	
Particulars of works		Mandays	Wages	Material supply	Total	Wages	Material supply	Total	Material supply	Total		
Sr. No.												
P.P.O + P.Y.O.WORKS												
1	(a) Survey & Demarcation	1.00	438.42	91.00	529.42	438.42	91.00	529.42	91.00	529.42		
	(b) Preparation of treatment map (100 m x 50 m grid)	1.00	438.42	91.00	529.42	438.42	91.00	529.42	91.00	529.42		
	(c) Digging trial pits of size 0.30X0.30X0.60 in corner of Grid.	0.40	175.37	0.00	175.37	175.37	0.00	175.37	0.00	175.37		
	(d) Fixing 60 cm X0.05cmx0.12cm cement pillars upto 30cm deep in corner of Grid, painting with grid No etc complete (3 pillars, Rs. 75/- for each pillars)	0.00	0.00	225.00	225.00	0.00	225.00	225.00	225.00	225.00		
	(e) Clearing of bushes and preparation of site (As per requirement)	10.00	4384.20	91.00	4475.20	4384.20	91.00	4475.20	91.00	4475.20		
2	Soil and moisture Conservation work - Tincluding collection of rubbles from areas upto 30 m etc.	31.00	13591.02	0.00	13591.02	13591.02	0.00	13591.02	0.00	13591.02		
3	Providing and fixing chain link fencing 400 Rmt. Pre Ha. (with one gate+two wickets gates for on site) (Rs. 1494 per Rmt of basic rate +20% for transportation of ave lead plus 20% for trasporation tribal/remote area (by tender process) (Rs. 1494+149+149=1792/- pre Rmt (1.60 Rmt height with G.I. Chain link size 50mmx50mm 8 gauge thick and fixed 75 mm above groun gevel completer as per SSR item No. 1744 for 2017-18) Total Fencing 3600Rmt.	0.00	0.00	1686588.00	1686588.00	0.00	1686588.00	1686588.00	1686588.00	1686588.00		
4	Alignment of pits at 3 Om x 3 Om spacement 1111pits per ha)	2.89	1267.03	91.00	1358.03	1267.03	91.00	1358.03	91.00	1358.03		
5	100 pits 0.26 M.D. M&S 8.18 per 100 pits	73.33	32149.34	0.00	32149.34	32149.34	0.00	32149.34	0.00	32149.34		
6	Digging of pits of size 0.45x0.45x0.45m 1111 pits per ha. 660 M.D. per 100 pits	1.00	438.42	0.00	438.42	438.42	0.00	438.42	0.00	438.42		
	Construction of 5.00 Rmt wide inspection Path I M D per 10 Rmt.											

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7	Enumeration of all valuable plant species at plantation site and grid wise counting and providing colour band and recording the same in Register (0.75 M.D.) per 100 plants.	0.75	328.82	25.00	353.82	328.82	25.00	353.82
8	Providing and fixing (4 feet x3feet) information board each per site)	0.00	0.00	5000.00	5000.00	0.00	5000.00	5000.00
9	Part Nursery cost for raising of 1333 seedlings per ha. (ncluding 20% casualty replacement) in polybag of size 12.50cmx25.00cm (Wage Rs 11 90 + M.S. Rs. 3.62 per plant)	46.70	20474.21	4798.80	25273.01	20474.21	4798.80	25273.01
	TOTAL :-	168.07	73685.25	1697000.80	1770686.05	73685.25	1697000.80	1770686.05
	Contingency 3%				53120.58	2210.56	50910.02	53120.58
	Labour welfare 4%				70827.44	2947.41	67880.03	70827.44
	TOTAL :-		73685.25	1697000.80	1894634.07	78843.22	1815790.85	1894634.07
	SAY AS TOTAL :-				1894634			1894634

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DAILY WAGES RATE 438.42

Sr. No.	Particulars of works	Mandays	Wages	Material supply	Total	Wages	Material supply	Total
First Year Operation								
1	Part nursery cost for maintenance of 1333 seedlings per ha. Rs 2.64 per seedling (Wages Rs. 2.69 M & S Rs. 0.81)	14.80	5026.23	1079.73	6105.96	5026.23	1079.73	6105.96
2	Refilling of pits by good quality soil including application of single super phosphate (1.66 MD per 100 pits)	18.44	8084.46	1944.25	10028.71	8084.46	1944.25	10028.71
3	Transportation of 1333 seedlings from nursery to planting site including loading & unloading Rs. 0.14 M.D. per 100 plant and M.S. Rs. 1.82 per seedling	1.87	819.85	2426.00	3245.85	819.85	2426.00	3245.85
4	Planting of 1111 seedlings (1.0 M.D. per 100 seedling)	11.11	4870.85	0.00	4870.85	4870.85	0.00	4870.85
5	3 seedlings (1 Rmt circular) and 2 soil working (4.00 M.D. per 100 seedlings) fertilizer application Rs. 0.82 per seedling	44.44	19483.38	911.02	20394.40	19483.38	911.02	20394.40
6	Casualty replacement (20X 222 seedlings per ha.) (2 M.D. per 100 seedlings)	4.44	1946.58	0.00	1946.58	1946.58	0.00	1946.58
7	Part nursery cost for casualty replacement in SYO (222 seedlings per ha.) (wages Rs. 11.90 and material supply Rs. 3.62 total Rs. 12.55 per seedling)	7.78	3410.91	803.64	4214.55	3410.91	803.64	4214.55
8	Watch and ward (9 months-1 watcher)	234.00	102590.28	0.00	102590.28	102590.28	0.00	102590.28
9	Soil working for naturally grower plants and singling (1.15 M.D. per 100 plants)	1.15	504.18	10.00	514.18	504.18	10.00	514.18
10	Fire tracing	2.00	876.84	0.00	876.84	876.84	0.00	876.84
	TOTAL :-	340.03	147613.57	7174.64	154788.21	147613.57	7174.64	154788.21
	Contingency 3%				4643.65	4428.41	215.24	4643.65
	Labour welfare 4%				6191.53	5904.54	286.99	6191.53
	Grand TOTAL :-		147613.57	7174.64	165623.38	157946.52	7676.86	165623.38
	SAY AS TOTAL :-				165623			165623

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DAILY WAGES RATE 438.42

Sr. No.	Particulars of works	Mandays	Wages	Material supply	Total	Wages	Material supply	Total
Second Year Operation								
1	Part Nursery cost for seedlings for casualty replacement (222 seedlings per ha.) labour rate @ 3.77 and M S 1.82 per seedling	2.46	1078.51	404.04	1482.55	1078.51	404.04	1482.55
2	Transportation of 222 seedlings for casualty 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	404.04	320.00	724.04	404.04	320.00	724.04
3	Planting for casualty replacement 222 seedlings (2 M.D. per 100 seedling)	4.44	1946.58	0.00	1946.58	1946.58	0.00	1946.58
4	2 weeding and 1 soil working, with fertilizer application 2.5 M.D. per 100 seedlings at M.S Rs. 0.82 per seedling	27.77	12174.92	911.02	13085.94	12174.92	911.02	13085.94
5	Watch and ward 12 months-1 full time watcher for plantation.	312.00	136787.04	0.00	136787.04	136787.04	0.00	136787.04
6	Fire tracing	2.00	876.84	0.00	876.84	876.84	0.00	876.84
	TOTAL :-	348.98	153267.94	1635.06	154903.00	153267.94	1635.06	154903.00
	Contingency 3%				4647.09	4598.04	49.05	4647.09
	Labour welfare (Medi & water) 4%				6196.12	6130.72	65.40	6196.12
	TOTAL :-		153267.94	1635.06	165746.21	163996.70	1749.51	165746.21
	SAY AS TOTAL :-				165746			165746


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DAILY WAGES RATE 438.42

Sr. No.	Particulars of works	Mandays	Wages	Material supply	Total	Wages	Material supply	Total
Third Year Operation								
1	1 Weeding and 1 soil working (1.50 M.D. per 100 seedling) applying fertilizer @ Rs. 0.82 per plant.	16.67	7308.46	911.02	8219.48	7308.46	911.02	8219.48
2	Watch and ward 12 months-1 full time watcher for plantation.	312.00	136787.04	0.00	136787.04	136787.04	0.00	136787.04
3	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October	2.00	876.84	0.00	876.84	876.84	0.00	876.84
	TOTAL :-	330.67	144972.34	911.02	145883.36	144972.34	911.02	145883.36
	Contingency 3%				4376.50	4349.17	27.33	4376.50
	Labour welfare 4%				5835.33	5798.89	36.44	5835.33
	TOTAL :-		144972.34	911.02	156095.20	155120.41	974.79	156095.20
	SAY AS TOTAL :-				156095			156095

DAILY WAGES RATE 438.42

Sr.	Particulars of works	Mandays	Wages	Material	Total	Wages	Material	Total
Fourth Year Operation								
1	Watch and ward 12 months-1 full time watcher for plantation.	312.00	136787.04	0.00	136787.04	136787.04	0.00	136787.04
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October	2.00	876.84	0.00	876.84	876.84	0.00	876.84
3	Fire tracing	2.00	876.84	0.00	876.84	876.84	0.00	876.84
	TOTAL :-	316.00	138540.72	0.00	138540.72	138540.72	0.00	138540.72
	Contingency 3%				4156.22	4156.22	0.00	4156.22
	Labour welfare 4%				5541.63	5541.63	0.00	5541.63
	TOTAL :-		138540.72	0.00	148238.57	148238.57	0.00	148238.57
	SAY AS TOTAL :-				148239			148239

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DAILY WAGES RATE 438.42

Sr. No.	Particulars of works	Mandays	Wages	Material supply	Total	Wages	Material supply	Total
Fifth Year Operation								
1	Watch and ward 12 months-1 full time watcher for plantaion,	312.00	136787.04	0.00	136787.04	136787.04	0.00	136787.04
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October	2.00	876.84	0.00	876.84	876.84	0.00	876.84
3	Fire tracing	2.00	876.84	0.00	876.84	876.84	0.00	876.84
	TOTAL :-	316.00	138540.72	0.00	138540.72	138540.72	0.00	138540.72
	Contingancy 3%				4156.22	4156.22	0.00	4156.22
	Labour welfare (Medi & water) 4%				5541.63	5541.63	0.00	5541.63
	TOTAL :-		138540.72	0.00	148238.57	148238.57	0.00	148238.57
	SAY AS TOTAL :-				148239			148239
DAILY WAGES RATE 438.42								
Sr. No.	Particulars of works	Mandays	Wages	Material supply	Total	Wages	Material supply	Total
Sixth Year Operation								
1	Watch and ward 12 months-1 full time watcher for plantaion,	312.00	136787.04	0.00	136787.04	136787.04	0.00	136787.04
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October	2.00	876.84	0.00	876.84	876.84	0.00	876.84
3	Fire tracing	2.00	876.84	0.00	876.84	876.84	0.00	876.84
	TOTAL :-	316.00	138540.72	0.00	138540.72	138540.72	0.00	138540.72
	Contingancy 3%				4156.22	4156.22	0.00	4156.22
	Labour welfare (Medi & water) 4%				5541.63	5541.63	0.00	5541.63
	TOTAL :-		138540.72	0.00	148238.57	148238.57	0.00	148238.57
	SAY AS TOTAL :-				148239			148239

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DAILY WAGES RATE 438.42

Sr. No.	Particulars of works	Mandays	Wages	Material supply	Total	Wages	Material supply	Total
Seventh Year Operation								
1	Watch and ward 12 months-1 full time watcher for plantation,	312.00	136787.04	0.00	136787.04	136787.04	0.00	136787.04
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October	2.00	876.84	0.00	876.84	876.84	0.00	876.84
3	Fire tracing	2.00	876.84	0.00	876.84	876.84	0.00	876.84
	TOTAL :-	316.00	138540.72	0.00	138540.72	138540.72	0.00	138540.72
	Contingency 3%				4156.22	4156.22	0.00	4156.22
	Labour welfare (Medi & water) 4%				5541.63	5541.63	0.00	5541.63
	TOTAL :-		138540.72	0.00	148238.57	148238.57	0.00	148238.57
	SAY AS TOTAL :-				148239			148239

DAILY WAGES RATE 438.42

Sr. No.	Particulars of works	Mandays	Wages	Material supply	Total	Wages	Material supply	Total
Eighth Year Operation								
1	Watch and ward 12 months-1 full time watcher for plantation,	312.00	136787.04	0.00	136787.04	136787.04	0.00	136787.04
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October	2.00	876.84	0.00	876.84	876.84	0.00	876.84
3	Fire tracing	2.00	876.84	0.00	876.84	876.84	0.00	876.84
	TOTAL :-	316.00	138540.72	0.00	138540.72	138540.72	0.00	138540.72
	Contingency 3%				4156.22	4156.22	0.00	4156.22
	Labour welfare (Medi & water) 4%				5541.63	5541.63	0.00	5541.63
	TOTAL :-		138540.72	0.00	148238.57	148238.57	0.00	148239
	SAY AS TOTAL :-				148239			148239

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DAILY WAGES RATE 438.42

Sr. No.	Particulars of works	Mandays	Wages	Material supply	Total	Wages	Material supply	Total
Ninth Year Operation								
1	Watch and ward 12 months-1 full time watcher for plantation,	312.00	136787.04	0.00	136787.04	136787.04	0.00	136787.04
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October	2.00	876.84	0.00	876.84	876.84	0.00	876.84
3	Fire tracing	2.00	876.84	0.00	876.84	876.84	0.00	876.84
	TOTAL :-	316.00	138540.72	0.00	138540.72	138540.72	0.00	138540.72
	Contingency 3%				4156.22	4156.22	0.00	4156.22
	Labour welfare (Medi & water) 4%				5541.63	5541.63	0.00	5541.63
	TOTAL :-		138540.72	0.00	148238.57	148238.57	0.00	148238.57
	SAY AS TOTAL :-				148239			148239

DAILY WAGES RATE 438.42

Sr. No.	Particulars of works	Mandays	Wages	Material supply	Total	Wages	Material supply	Total
Tenth Year Operation								
1	Watch and ward 12 months-1 full time watcher for plantation,	312.00	136787.04	0.00	136787.04	136787.04	0.00	136787.04
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October	2.00	876.84	0.00	876.84	876.84	0.00	876.84
3	Fire tracing	2.00	876.84	0.00	876.84	876.84	0.00	876.84
	TOTAL :-	316.00	138540.72	0.00	138540.72	138540.72	0.00	138540.72
	Contingency 3%				4156.22	4156.22	0.00	4156.22
	Labour welfare (Medi & water) 4%				5541.63	5541.63	0.00	5541.63
	TOTAL :-		138540.72	0.00	148238.57	148238.57	0.00	148238.57
	SAY AS TOTAL :-				148239			148239



**Range Forest Officer
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ALIBAG FOREST DIVISION

RATE STRUCTURE FOR COMPENSTORY AFFORESTATION ON WORKS IN ZONE II & III HEAVY RAIN FALL AREA (1100 PLANTS/Ha.)

DAILY WAGES RATE incriseing 10% per year **Area :-** **1,000 Hector**

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Sr. No.	Partifulars of works	Mandays	Wages	Material supply	Total	Wages	Material supply	Total
1)	PPO + PYO	168.07	73685	1697001	1894634	78843	1815791	1894634
2)	First Year Operation	340.03	147614	7175	165623	157947	7677	165623
3)	Second Year Operation	348.98	153268	1635	165746	163997	1750	165746
4)	Third Year Operation	330.67	144972	911	156095	155120	975	156095
5)	Fourth Year Operation	316.00	138541	0	148239	148239	0	148239
6)	Fifth Year Operation	316.00	138541	0	148239	148239	0	148239
7)	Sixth Year Operation	316.00	138541	0	148239	148239	0	148239
8)	Seventh Year Operation	316.00	138541	0	148239	148239	0	148239
9)	Eighth Year Operation	316.00	138541	0	148239	148239	0	148239
10)	Ninth Year Operation	316.00	138541	0	148239	148239	0	148239
11)	Tenth Year Operation	316.00	138541	0	148239	148239	0	148239
	Total :-	3399.75	1489324	1706722	3419769	1593577	1826192	3419769

Range Forest Officer
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Ashish Thakare
ASHISH THAKARE
Deputy Conservator of Forests
Alibag