

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

Spacing - 3m x 3m Division Alibag Range pen

Size of Pits - 0.45 x 0.45 x 0.45 M Plantation Site Chavana Chavana survey no. 1/0

No. of Seedlings - 1111 per ha. Round chawana beat- Chawana

DAILY WAGES RATE 413.69

Area :- 1.00 Hector

Sr. No.	Particulars of works	Mandays	Wages	Material supply	Total	Wages	Material supply	Total
P.P.O + P.Y.O.WORKS								
1	(a) Survey & Demarcation	1.00	413.69	91.00	504.69	413.69	91.00	504.69
	(b) Preparation of treatment map (100 m x 50 m)	1.00	413.69	91.00	504.69	413.69	91.00	504.69
	(c) Digging trial pits of size 0.30X0.30X0.60 in	0.40	165.48	0.00	165.48	165.48	0.00	165.48
	(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
	(e) Clearing of bushes and preparation of site (As per requirement)	10.00	4136.90	91.00	4227.90	4136.90	91.00	4227.90
2	Soil and moisture Conservation work - Including collection of rubbles from areas upto 30 m etc.	31.00	12824.39	0.00	12824.39	12824.39	0.00	12824.39
3	Providing and fixing chain link fencing 102 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 transportation 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 ground level	0.00	0.00	430080.00	430080.00	0.00	430080.00	430080.00

4	Alignment of pits at 3.0m x 3.0m spacement. 1111pits per ha) 100 pits 0.26 M.D. M&S 8.18 per 100 pits	2.89	1195.56	91.00	1286.56	1195.56	91.00	1286.56
5	Digging of pits of size 0.45x0.45x0.45m 1111 pits per ha. 6.60 M.D. per 100 pits	73.33	30335.89	0.00	30335.89	30335.89	0.00	30335.89
6	Construction of 5.00 Rmt wide inspection Path I.M.D. per 10 Rmt.	1.00	413.69	0.00	413.69	413.69	0.00	413.69
7	Enumeration of all valuable plant species at plantation iste and grid wise counting and providing colour band and recording the same in Register (0.75 M.D.) per 100 plants.	0.75	310.27	25.00	335.27	310.27	25.00	335.27
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 Nusery cost for raising of 1333 seedlings per ha. (ncluding 20% casualty replacement) in polybag of size12.50cmx25.00cm (Wage Rs.11.90 +M.S. Rs. 3.62 per plant)	46.70	49319.32	4798.80	24118.12	19319.32	4798.80	24118.12
TOTAL :-		168.07	69528.88	440492.80	510021.68	69528.88	440492.80	510021.68
	Contingancy 3%				15300.65	2085.87	13214.78	15300.65
	Labour welfare 4%				20400.87	2781.16	17619.71	20400.87
TOTAL :-			69528.88	440492.80	545723.20	74395.90	471327.30	545723.20
SAY AS TOTAL :-					545723			545723

DAILY WAGES RATE 455.06

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	6734.87	1079.73	7814.60	6734.87	1079.73	7814.60
2	Refilling of pits by good quality soil including application of single super phosphate (1.66 MD per 100 pits)	18.44	8391.29	1944.25	10335.54	8391.29	1944.25	10335.54
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	850.96	2426.00	3276.96	850.96	2426.00	3276.96
4	Planting of 1111 seedlings (1.0 M.D. per 100	11.11	5055.71	0.00	5055.71	5055.71	0.00	5055.71
5	3 seedlings (1 Rmt circular) and 2 soil working (4.00 M.D. per 100 seedlings) fertilizer application	44.44	20222.82	911.02	21133.84	20222.82	911.02	21133.84
6	Casualty replacement (20X 222 seedlings per ha.) (2 M.D. per 100 seedlings)	4.44	2020.46	0.00	2020.46	2020.46	0.00	2020.46
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	7.78	3540.36	803.64	4344.00	3540.36	803.64	4344.00
8	Watch and ward (9 months-1 watcher)	27.38	12459.52	0.00	12459.52	12459.52	0.00	12459.52
9	Soil working for naturally grower plants and singling (1.15 M.D. per 100 plants)	1.15	523.32	10.00	533.32	523.32	10.00	533.32
10	Fire tracing	2.00	910.12	0.00	910.12	910.12	0.00	910.12
	TOTAL :-	133.41	60709.42	7174.64	67884.06	60709.42	7174.64	67884.06
	Contingency 3%				2036.52	1821.28	215.24	2036.52
	Labour welfare 4%				2715.36	2428.38	286.99	2715.36
	Grand TOTAL :-		60709.42	7174.64	72635.95	64959.08	7676.86	72635.95
	SAY AS TOTAL :-				72636			72636

DAILY WAGES RATE 500.56

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	1231.39	404.04	1635.43	1231.39	404.04	1635.43
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	155.18	320.00	475.18	155.18	320.00	475.18
3	Planting for casualty replacement 222 seedlings (2 M.D. per 100 seedling)	4.44	2222.51	0.00	2222.51	2222.51	0.00	2222.51
4	2 weeding and 1 soil working, with fertilizer applicaton 2.5 M.D. per 100 seedlings at M.S.Rs. 0.82 per seedling	27.77	13900.69	911.02	14811.71	13900.69	911.02	14811.71
5	Watch and ward 12 months-1 full time watcher for plantaion,	36.50	18270.62	0.00	18270.62	18270.62	0.00	18270.62
6	Fire tracing	2.00	1001.13	0.00	1001.13	1001.13	0.00	1001.13
	TOTAL :-	73.48	36781.51	1635.06	38416.57	36781.51	1635.06	38416.57
	Contingancy 3%				1152.50	1103.45	49.05	1152.50
	Labour welfare (Medi &water) 4%				1536.66	1471.26	65.40	1536.66
	TOTAL :-		36781.51	1635.06	41105.73	39356.21	1749.51	41105.73
	SAY AS TOTAL :-				41106			41106

DAILY WAGES RATE 500.56

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	1231.39	404.04	1635.43	1231.39	404.04	1635.43
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	155.18	320.00	475.18	155.18	320.00	475.18
3	Planting for casualty replacement 222 seedlings (2 M.D. per 100 seedling)	4.44	2222.51	0.00	2222.51	2222.51	0.00	2222.51
4	2 weeding and 1 soil working, with fertilizer applicaton 2.5 M.D. per 100 seedlings at M.S.Rs. 0.82 per seedling	27.77	13900.69	911.02	14811.71	13900.69	911.02	14811.71
5	Watch and ward 12 months-1 full time watcher for plantaion.	36.50	18270.62	0.00	18270.62	18270.62	0.00	18270.62
6	Fire tracing	2.00	1001.13	0.00	1001.13	1001.13	0.00	1001.13
	TOTAL :-	73.48	36781.51	1635.06	38416.57	36781.51	1635.06	38416.57
	Contingancy 3%				1152.50	1103.45	49.05	1152.50
	Labour welfare (Medi &water) 4%				1536.66	1471.26	65.40	1536.66
	TOTAL :-		36781.51	1635.06	41105.73	39356.21	1749.51	41105.73
	SAY AS TOTAL :-				41106			41106

DAILY WAGES RATE 550.62

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	9178.86	911.02	10089.88	9178.86	911.02	10089.88
2	2 Watch and ward 12 months-1 full time watcher for plantaion,	36.50	20097.68	0.00	20097.68	20097.68	0.00	20097.68
3	3 Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October	2.00	1101.24	0.00	1101.24	1101.24	0.00	1101.24
	TOTAL :-	55.17	30377.78	911.02	31288.80	30377.78	911.02	31288.80
	Contingancy 3%				938.66	911.33	27.33	938.66
	Labour welfare 4%				1251.55	1215.11	36.44	1251.55
	TOTAL :-		30377.78	911.02	33479.02	32504.23	974.79	33479.02
	SAY AS TOTAL :-				33479			33479

DAILY WAGES RATE 605.68

Sr.	Particulars of works	Mandays	Wages	Material	Total	Wages	Material	Total
Fourth Year Operation								
1	1 Watch and ward 12 months-1 full time watcher for	36.50	22107.45	0.00	22107.45	22107.45	0.00	22107.45
2	2 Counting of survival percentage Grid wise and Species wise and to Note the same on Register in	2.00	1211.37	0.00	1211.37	1211.37	0.00	1211.37
3	3 Fire tracing	2.00	1211.37	0.00	1211.37	1211.37	0.00	1211.37
	TOTAL :-	40.50	24530.18	0.00	24530.18	24530.18	0.00	24530.18
	Contingancy 3%				735.91	735.91	0.00	735.91
	Labour welfare 4%				981.21	981.21	0.00	981.21
	TOTAL :-		24530.18	0.00	26247.30	26247.30	0.00	26247.30
	SAY AS TOTAL :-				26247			26247

DAILY WAGES RATE 666.25

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,	36.50	24318.19	0.00	24318.19	24318.19	0.00	24318.19
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October	2.00	1332.50	0.00	1332.50	1332.50	0.00	1332.50
3	Fire tracing	2.00	1332.50	0.00	1332.50	1332.50	0.00	1332.50
	TOTAL :-	40.50	26983.20	0.00	26983.20	26983.20	0.00	26983.20
	Contingancy 3%				809.50	809.50	0.00	809.50
	Labour welfare (Medi &water) 4%				1079.33	1079.33	0.00	1079.33
	TOTAL :-		26983.20	0.00	28872.03	28872.03	0.00	28872.03
	SAY AS TOTAL :-				28872			28872

DAILY WAGES RATE 732.88

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,	36.50	26750.01	0.00	26750.01	26750.01	0.00	26750.01
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in	2.00	1465.75	0.00	1465.75	1465.75	0.00	1465.75
3	Fire tracing	2.00	1465.75	0.00	1465.75	1465.75	0.00	1465.75
	TOTAL :-	40.50	29681.52	0.00	29681.52	29681.52	0.00	29681.52
	Contingancy 3%				890.45	890.45	0.00	890.45
	Labour welfare (Medi &water) 4%				1187.26	1187.26	0.00	1187.26
	TOTAL :-		29681.52	0.00	31759.23	31759.23	0.00	31759.23
	SAY AS TOTAL :-				31759			31759

DAILY WAGES RATE 806.16

Sr. No.	Partifulars 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,	36.50	29425.01	0.00	29425.01	29425.01	0.00	29425.01
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October	2.00	1612.33	0.00	1612.33	1612.33	0.00	1612.33
3	Fire tracing	2.00	1612.33	0.00	1612.33	1612.33	0.00	1612.33
	TOTAL :-	40.50	32649.67	0.00	32649.67	32649.67	0.00	32649.67
	Contingancy 3%				979.49	979.49	0.00	979.49
	Labour welfare (Medi &water) 4%				1305.99	1305.99	0.00	1305.99
	TOTAL :-		32649.67	0.00	34935.15	34935.15	0.00	34935.15
	SAY AS TOTAL :-				34935			34935

DAILY WAGES RATE 886.78

Sr. No.	Partifulars 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	36.50	32367.52	0.00	32367.52	32367.52	0.00	32367.52
2		2.00	1773.56	0.00	1773.56	1773.56	0.00	1773.56
3	Fire tracing	2.00	1773.56	0.00	1773.56	1773.56	0.00	1773.56
	TOTAL :-	40.50	35914.64	0.00	35914.64	35914.64	0.00	35914.64
	Contingancy 3%				1077.44	1077.44	0.00	1077.44
	Labour welfare (Medi &water) 4%				1436.59	1436.59	0.00	1436.59
	TOTAL :-		35914.64	0.00	38428.67	38428.67	0.00	38428.67
	SAY AS TOTAL :-				38429			38429

DAILY WAGES RATE 975.46

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 plantaion,	36.50	35604.27	0.00	35604.27	35604.27	0.00	35604.27
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October	2.00	1950.92	0.00	1950.92	1950.92	0.00	1950.92
3	Fire tracing	2.00	1950.92	0.00	1950.92	1950.92	0.00	1950.92
	TOTAL :-	40.50	39506.10	0.00	39506.10	39506.10	0.00	39506.10
	Contingancy 3%				1185.18	1185.18	0.00	1185.18
	Labour welfare (Medi &water) 4%				1580.24	1580.24	0.00	1580.24
	TOTAL :-		39506.10	0.00	42271.53	42271.53	0.00	42271.53
	SAY AS TOTAL :-				42272			42272

DAILY WAGES RATE 1073.01

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	36.50	39164.69	0.00	39164.69	39164.69	0.00	39164.69
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in	2.00	2146.01	0.00	2146.01	2146.01	0.00	2146.01
3	Fire tracing	2.00	2146.01	0.00	2146.01	2146.01	0.00	2146.01
	TOTAL :-	40.50	43456.72	0.00	43456.72	43456.72	0.00	43456.72
	Contingancy 3%				1303.70	1303.70	0.00	1303.70
	Labour welfare (Medi &water) 4%				1738.27	1738.27	0.00	1738.27
	TOTAL :-		43456.72	0.00	46498.69	46498.69	0.00	46498.69
	SAY AS TOTAL :-				46499			46499

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

Abstact

Sr. No.	Partifulars of works	Mandays	Wages	Material supply	Total	Wages	Material supply	Total
1)	PPO + PYO	168.07	69529	440493	545723	74396	471327	545723
2)	First Year Operation	133.41	60709	7175	72636	64959	7677	72636
3)	Second Year Operation	73.48	36782	1635	41106	39356	1750	41106
4)	Third Year Operation	55.17	30378	911	33479	32504	975	33479
5)	Fourth Year Operation	40.50	24530	0	26247	26247	0	26247
6)	Fifth Year Operation	40.50	26983	0	28872	28872	0	28872
7)	Sixth Year Operation	40.50	29682	0	31759	31759	0	31759
8)	Seventh Year Operation	40.50	32650	0	34935	34935	0	34935
9)	Eighth Year Operation	40.50	35915	0	38429	38429	0	38429
10)	Nineth Year Operation	40.50	39506	0	42272	42272	0	42272
11)	Tenth Year Operation	40.50	43457	0	46499	46499	0	46499
	Total :-	713.63	430120	450214	941956	460228	481728	941956

Ashish
(ASHISH THAKARE IFS)
Deputy Conservator of Forests
Alibag

Range forest officer
Pen