

Enclosure to Principal Chief Conservator of Forest (Hort), M.S. Nagpur District.

Model No. 4 Compensatory Afforestation

Size of Pits- 0.45 x 0.45 x 0.415m

Spacement- 3m x 3m

Range :- Aundha (Na.)

Village - Jalalhaba

No of Seedlings - 1111 per Ha.

Compt.No./Survey No. 59

Beate :-

ABSTRACT

Sr. No.		Year of Operation	For 1.00 ha Expenditure				Total 10.00 ha Expenditure			
			Man Days	Wages	Material Supply	Total	Man Days	Wages	Material Supply	Total
1		PPO	168.07	95009.97	394765.98	489775.95	1677.20	950099.71	2134271.58	3084371.29
2		FYO	133.41	75416.67	64988.56	140405.23	1334.10	754166.73	129560.32	883727.05
3		SYO	73.48	41538.24	31999.24	73537.48	734.80	415382.44	47471.14	462853.58
4		TYO	57.17	32318.20	23624.28	55942.48	571.70	323182.01	23624.28	346806.29
5		4th YO	40.50	20813.36	1483.68	22297.04	263.25	135286.81	9496.83	144783.63
6		5th YO	40.50	20813.36	1483.68	22297.04	263.25	135286.81	9496.83	144783.63
7		6th YO	40.50	20813.36	1483.68	22297.04	263.25	135286.81	9496.83	144783.63
8		7th YO	40.50	20813.36	1483.68	22297.04	263.25	135286.81	9496.83	144783.63
9		8th YO	40.50	20813.36	1483.68	22297.04	263.25	135286.81	9496.83	144783.63
10		9th YO	40.50	20813.36	1483.68	22297.04	263.25	135286.81	9496.83	144783.63
11		10th YO	40.50	20813.36	1483.68	22297.04	263.25	135286.81	9496.83	144783.63
Grand Total			715.63	389976.57	525763.85	915740.43	6160.55	3389838.54	2401405.10	5791243.65

Deputy Conservator of Forest

Gondia Division Gondia

Compensatory Afforestation (Gail India Ltd.)

Model No. 4

Model rate structure for plantation of mixed tree species having rainfall upto 800 mm and medium quality, medium drained soil

Range :- Aundha (Na.)

Round :-

Beate :-

Spacement- 3m x 3m Size of Pits- 0.45 x 0.45 x 0.415m Wages Rate 565.30 Per Day
Village - Jalalhaba Area 10.00 Ha.

Compt.No./Survey No. 59 No of Seedlings - 1111 per Ha.

Sr. No.		Particulars of Works	Per Ha.				10.00 Ha.			
			Man days	Wages	Material supply	Total (Rs per Ha.)	Man days	Wages	Material supply	Total (Rs 10.00 Ha.)
Pre Monsoon Works PPO										
1	a) Survey and Demarcation		1.00	565.30	91.00	656.30	6.50	5653.00	910.00	6563.00
	b) Preparation of Treatment Map (100 m x 50 m Grid)		1.00	565.30	91.00	656.30	10.00	5653.00	910.00	6563.00
	c) Digging trial pits of size 0.30x0.30x0.60 in corner of Grid		0.40	226.12	0.00	226.12	4.00	2261.20	0.00	2261.20
	d) Foxing 60cm x 0.05cm x 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	0.00	2250.00	2250.00
	e) Clearing of bushes and preparation of site (As per Requirement)		10.00	5653.00	91.00	5744.00	100.00	56530.00	910.00	57440.00
2	Soil Moisture Conservation works including collection of rubbles from areas upto 30m etc.		31.00	17524.30	0.00	17524.30	310.00	175243.00	0.00	175243.00
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 basis rate + 20% for transportation of ave. Leadplus 20% for tribal/remote area (by tender process) (Rs.1494+149+149= 1792/- per Rmt (1.60Rmt height with G.I. Chain link size 50mmx50m, 8 gauge thick and fixed 75mm above ground level complete as per SSR item No.1744 for 2017-18)		0.00	0.00	182865.60	182865.60	0.00	0.00	1828656.00	1828656.00
4	Alignment of pits at 3m x 3m spacement.1111 pits per 100 pits 0.26 M.D, 1/1/S 8.18 per 100 pits		2.89	1633.72	91.00	1724.72	28.90	16337.17	910.00	17247.17
5	Digging of pits of size 0.45 x 0.45 x 0.45 m (1 11 I pits per ha) 6.60 M.D per 100 pits. Note- As per local conditions provision for mechanized digging can be made.		73.33	41453.45	0.00	41453.45	733.30	414534.49	0.00	414534.49
6	Construction of 5.00 Rmt wide inspection Path I M.D.per 100 Rmt.		1.00	565.30	0.00	565.30	10.00	5653.00	0.00	5653.00

	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	423.98	25.00	448.98	7.50	4239.75	250.00	
8	Providing and fixing (4 feet x 3 feet) information board each per site	0.00	0.00	5000.00	5000.00	0.00	0.00	50000.00	50000.00
9	Part Nursery cost of raising 1333 seedlings per ha (including 200% casualty replacement) in polygons of size 12.50 x 25.00 cm (Wages Rs.11.90 and M & S Rs.3.62 per plant)	46.70	26399.51	4798.80	31198.31	467.00	263995.10	47988.00	311983.10
	Total	168.07	95009.97	193278.40	288288.37	1677.20	950099.71	1932784.00	2878393.96
	Contingency 3%	0.00	0.00	86351.82	86351.82	0.00	0.00	86351.82	86351.82
	Labour Welfare 4%	0.00	0.00	115135.76	115135.76	0.00	0.00	115135.76	115135.76
	Grand Total	168.07	95009.97	394765.98	489775.95	1677.20	950099.71	2134271.58	3079881.54

Fist Year Operation FYO

1	Part Nursery cost for maintenance of 3000 seedling per ha (wages Rs.2.97, M & S Rs.0.81)	14.80	8366.44	1079.73	9446.17	148.00	83664.40	10797.30	94461.70
2	Refilling of pits by good quality soil including application of single super phosphate (1.66 MD per 100 pits)	18.44	10424.13	1944.25	12368.38	184.40	104241.32	19442.50	123683.82
3	Transportation of 1333 seedlings from Nursery to plantation site including loading & unloading (0.14 MD per 100 seedling & M.S. Rs.1.82 per seedlings)	1.87	1057.11	2426.00	3483.11	18.70	10571.11	24260.00	34831.11
4	Planting of 1111 seedlings (1.1 M.D. Per 100 seedlings)	11.11	6280.48	0.00	6280.48	111.10	62804.83	0.00	62804.83
5	3 seedlings (1 Rmt circular) and 2 soil workings (4.00 M.D. Per 100 seedlings) fertilizer application Rs.0.82 per seedlings)	44.44	25121.93	911.02	26032.95	444.40	251219.32	9110.20	260329.52
6	Casualty replacement (20% 222 Seedlings per ha.) (2 M.D. Per 100 seedlings)	4.44	2509.93	0.00	2509.93	44.40	25099.32	0.00	25099.32
7	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 seedlings)	7.78	4398.03	803.64	5201.67	77.80	43980.34	8036.40	52016.74
8	Watch and ward (10 months - 1 watcher per 10 ha.)	27.38	15477.91	0.00	15477.91	273.80	154779.14	0.00	154779.14
	Soil working for naturally grower plants and singling (1.15 M.D. Per 100 Plants)	1.15	650.10	10.00	660.10	11.50	6500.95	100.00	6600.95
9	Fire tracing	2.00	1130.60	0.00	1130.60	20.00	11306.00	0.00	11306.00
	Total	133.41	75416.67	7174.64	82591.31	1334.10	754166.73	71746.40	825913.13
	Contingency 3%	0.00	0.00	24777.39	24777.39	0.00	0.00	24777.39	24777.39
	Labour Welfare 4%	0.00	0.00	33036.53	33036.53	0.00	0.00	33036.53	33036.53
	Grand Total	133.41	75416.67	64988.56	140405.23	1334.10	754166.73	129560.32	883727.05

Second Year Operations SYO

1	Part Nursery cost for seedlings for causality replacement (222 seedlings per ha) labour rate @ Rs.2.97 and M.S. Rs.1.82 per seedlings.	2.46	1390.64	404.04	1794.68	24.60	13906.38	4040.40	17946.78
2	Transportation of 222 seedlings for causality replacement from nursery to plantation site (including loading and unloading) wages 0.14 M.D. per 100 seedlings & M.S. Rs.1.82 per seedlings.	0.31	175.24	404.04	579.28	3.10	1752.43	4040.40	5792.83
3	Planting for causality replacement 222 seedlings (2.00 M.D. Per 100 seedlings)	4.44	2509.93	0.00	2509.93	44.40	25099.32	0.00	25099.32
4	2 Weedings and 1 soil working with fertilizer application at 2.5 M.D. Per 100 seedlings M.S. Rs.0.82 per seedlings	27.77	15698.38	911.02	16609.40	277.70	156983.81	9110.20	166094.01
5	Watch and ward (12 months - 1 watcher per 10 ha.)	36.50	20633.45	0.00	20633.45	365.00	206334.50	0.00	206334.50
6	Fire tracing	2.00	1130.60	0.00	1130.60	20.00	11306.00	0.00	11306.00
	Total	73.48	41538.24	1719.10	43257.34	734.80	415382.44	17191.00	432573.44
	Contingency 3%	0.00	0.00	12977.20	12977.20	0.00	0.00	12977.20	12977.20
	Labour Welfare 4%	0.00	0.00	17302.94	17302.94	0.00	0.00	17302.94	17302.94
	Grand Total	73.48	41538.24	31999.24	73537.48	734.80	415382.44	47471.14	462853.58

Third Year Operations TYO

1	1 Weedings and 1 soil working (1.50 M.D. Per 100 seedlings) applying fertilizer @ Rs.0.82 per plant.	16.67	9423.55	911.02	10334.57	166.70	94235.51	911.02	95146.53
2	Watch and ward (12 months - 1 watcher per 10 ha.)	36.50	20633.45	0.00	20633.45	365.00	206334.50	0.00	206334.50
3	Counting of survival percentage Grid wise and species wise and to Note the same on Register in May and October.	2.00	1130.60	25.00	1155.60	20.00	11306.00	25.00	11331.00
4	Fire tracing	2.00	1130.60	0.00	1130.60	20.00	11306.00	0.00	11306.00
	Total	57.17	32318.20	936.02	33254.22	571.70	323182.01	936.02	324118.03
	Contingency 3%	0.00	0.00	9723.54	9723.54	0.00	0.00	9723.54	9723.54
	Labour Welfare 4%	0.00	0.00	12964.72	12964.72	0.00	0.00	12964.72	12964.72
	Grand Total	57.17	32318.20	23624.28	55942.48	571.70	323182.01	23624.28	346806.29

Fourth Year Operations

2	Watch and ward (12 months - 1 watcher per 10 ha.)	36.50	20633.45	0.00	20633.45	365.00	206334.50	0.00	206334.50
3	Counting of survival percentage Grid wise and species wise and to Note the same on Register in May and October.	2.00	1130.60	25.00	1155.60	20.00	11306.00	25.00	11331.00
4	Fire tracing	2.00	1130.60	0.00	1130.60	20.00	11306.00	0.00	11306.00
	Total	40.50	22894.65	25.00	22919.65	405.00	228946.50	25.00	228971.50
	Contingency 3%	0.00	0.00	6869.15	6869.15	0.00	0.00	6869.15	6869.15
	Labour Welfare 4%	0.00	0.00	9158.86	9158.86	0.00	0.00	9158.86	9158.86
	Grand Total	40.50	22894.65	16053.01	38947.66	405.00	228946.50	16053.01	244999.51

Fifth Year Operations

2	Watch and ward (12 months - 1 watcher per 10 ha.)	36.50	20633.45	0.00	20633.45	365.00	206334.50	0.00	206334.50
3	Counting of survival percentage Grid wise and species wise and to Note the same on Register in May and October.	2.00	1130.60	25.00	1155.60	20.00	11306.00	25.00	11331.00
4	Fire tracing	2.00	1130.60	0.00	1130.60	20.00	11306.00	0.00	11306.00
	Total	40.50	22894.65	25.00	22919.65	405.00	228946.50	25.00	228971.50
	Contingency 3%	0.00	0.00	6869.15	6869.15	0.00	0.00	6869.15	6869.15
	Labour Welfare 4%	0.00	0.00	9158.86	9158.86	0.00	0.00	9158.86	9158.86
	Grand Total	40.50	22894.65	16053.01	38947.66	405.00	228946.50	16053.01	244999.51

Six Year Operations

2	Watch and ward (12 months - 1 watcher per 10 ha.)	36.50	20633.45	0.00	20633.45	365.00	206334.50	0.00	206334.50
3	Counting of survival percentage Grid wise and species wise and to Note the same on Register in May and October.	2.00	1130.60	25.00	1155.60	20.00	11306.00	25.00	11331.00
4	Fire tracing	2.00	1130.60	0.00	1130.60	20.00	11306.00	0.00	11306.00
	Total	40.50	22894.65	25.00	22919.65	405.00	228946.50	25.00	228971.50
	Contingency 3%	0.00	0.00	6869.15	6869.15	0.00	0.00	6869.15	6869.15
	Labour Welfare 4%	0.00	0.00	9158.86	9158.86	0.00	0.00	9158.86	9158.86
	Grand Total	40.50	22894.65	16053.01	38947.66	405.00	228946.50	16053.01	244999.51

en Year Operations

2	Watch and ward (12 months - 1 watcher per 10 ha.)	36.50	20633.45	0.00	20633.45	365.00	206334.50	0.00	206334.50
* 3	Counting of survival percentage Grid wise and species wise and to Note the same on Register in May and October.	2.00	1130.60	25.00	1155.60	20.00	11306.00	25.00	11331.00
4	Fire tracing	2.00	1130.60	0.00	1130.60	20.00	11306.00	0.00	11306.00
	Total	40.50	22894.65	25.00	22919.65	405.00	228946.50	25.00	228971.50
	Contingency 3%	0.00	0.00	6869.15	6869.15	0.00	0.00	6869.15	6869.15
	Labour Welfare 4%	0.00	0.00	9158.86	9158.86	0.00	0.00	9158.86	9158.86
	Grand Total	40.50	22894.65	16053.01	38947.66	405.00	228946.50	16053.01	244999.51

Eight Year Operations

2	Watch and ward (12 months - 1 watcher per 10 ha.)	36.50	20633.45	0.00	20633.45	365.00	206334.50	0.00	206334.50
3	Counting of survival percentage Grid wise and species wise and to Note the same on Register in May and October.	2.00	1130.60	25.00	1155.60	20.00	11306.00	25.00	11331.00
4	Fire tracing	2.00	1130.60	0.00	1130.60	20.00	11306.00	0.00	11306.00
	Total	40.50	22894.65	25.00	22919.65	405.00	228946.50	25.00	228971.50
	Contingency 3%	0.00	0.00	6869.15	6869.15	0.00	0.00	6869.15	6869.15
	Labour Welfare 4%	0.00	0.00	9158.86	9158.86	0.00	0.00	9158.86	9158.86
	Grand Total	40.50	22894.65	16053.01	38947.66	405.00	228946.50	16053.01	244999.51

Nine Year Operations

2	Watch and ward (12 months - 1 watcher per 10 ha.)	36.50	20633.45	0.00	20633.45	365.00	206334.50	0.00	206334.50
3	Counting of survival percentage Grid wise and species wise and to Note the same on Register in May and October.	2.00	1130.60	25.00	1155.60	20.00	11306.00	25.00	11331.00
4	Fire tracing	2.00	1130.60	0.00	1130.60	20.00	11306.00	0.00	11306.00
	Total	40.50	22894.65	25.00	22919.65	405.00	228946.50	25.00	228971.50
	Contingency 3%	0.00	0.00	6869.15	6869.15	0.00	0.00	6869.15	6869.15
	Labour Welfare 4%	0.00	0.00	9158.86	9158.86	0.00	0.00	9158.86	9158.86
	Grand Total	40.50	22894.65	16053.01	38947.66	405.00	228946.50	16053.01	244999.51

Ten Year Operations

2	Watch and ward (12 months - 1 watcher per 10 ha.)	36.50	20633.45	0.00	20633.45	365.00	206334.50	0.00	206334.50
3	Counting of survival percentage Grid wise and species wise and to Note the same on Register in May and October.	2.00	1130.60	25.00	1155.60	20.00	11306.00	25.00	11331.00
4	Fire tracing	2.00	1130.60	0.00	1130.60	20.00	11306.00	0.00	11306.00
	Total	40.50	22894.65	25.00	22919.65	405.00	228946.50	25.00	228971.50
	Contingency 3%	0.00	0.00	6869.15	6869.15	0.00	0.00	6869.15	6869.15
	Labour Welfare 4%	0.00	0.00	9158.86	9158.86	0.00	0.00	9158.86	9158.86
	Grand Total	40.50	22894.65	16053.01	38947.66	405.00	228946.50	16053.01	244999.51