Rate Structure for Compensatory Afforestation

Model No.5

Fencing and Irrigated Plantations

Model rate strucure for plantation of mixed tree species having rainfall less than 800 mm and medium quality,medium draindeded soil

Spacement 3m x 3m
Size of Pits - 0.45 x 0.45 x (0.45 m wages Rate 371.15 per day
No of Seedlings 1111 per ha

(Amount in Rs.)

Sr.No	Particulars of works	Man days	Wages	Material supply	Total (Rs Per Ha.)	Man days	Wages	Material supply	Total (Rs. Per Ha.)
		for 1 ha				for 11.34 HA			
A. Pre Monsoon Works (PPO/PYO)									
1	a. Survey and demarcation	1.00	371.15	91.00	463.15	11.34	4208.84	1031.94	5240.78
	b. Preparation of treatment map (100 m x 50 m grid)	1.00	371.15	91.00	463.15	11.34	4208.84	1031.94	5240.78
	C.Digging trail pits of size 0.30x0.30x0.60 in corner of grid	0.40	148.46	0.00	148.86	4.54	1683.54	0.00	1683.54
	d.Fixing 60cmx0.05cmx12cm cement pillars upto 30cm deep in corner of Grid,painting with Grid No.etc complate (3 pillars,Rs.75/- for each pillers)	0.00	0.00	225.00	225.00	0.00	0.00	2551.50	2551.50
	e.Clearing of Bushes and preparation of site (As per requirment)	10.00	3711.50	91.00	3812.50	113.40	42088.41	1031.94	43120.35
2	Soil and moisture conservation works including collection of rubbles from areas upto 30 m etc	31.00	11505.65	0.00	11536.65	351.54	130474.07	0.00	130474.07

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/- per Rmt (1.60 Rm 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	2073695.90	2073695.90
4	Alingment of pits at 3 x 3 m spacement1111 pits per 100 pits 0.26M.D,M/S 8.18 per 100 pits.	2.78	1031.80	49.77	1084.35	31.53	11700.58	564.39	12264.97
5	Digging of pits of size 0.45x0.45x0.45m(per ha 1111 pits) (6.60 M.D Per 100 pits)	73.33	27216.43	0.00	27289.76	831.56	308634.31	0.00	308634.31
6	Construction of 5.00 Rmt wide Insepection Path 1M.D,per 100 Rmt	1.00	371.15	0.00	372.15	11.34	4208.84	0.00	4208.84
7	Enumeration of all valuble 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	278.36	25.00	304.11	8.51	3156.63	283.50	3440.13
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	56700.00	56700.00
9	Part nursery cost for raising 1333 seedling per hs (including 20% casualty replacement) inpolybags of size 12.50 x 25 cm (wages Rs.11.90 and M & S Rs.3.62 per plant)	46.71	17336.42	4825.46	22208.59	529.69	196594.96	54720.72	251315.68
	Total	**167.97**	**62342.07**	**193263.83**	**255773.87**	**1904.78**	**706959.02**	**2191611.83**	**2898570.85**
	Contingency 3%			7673.22	7673.22	0.00	0.00	86957.13	86957.13
	Labour Welfare 4%			10230.95	10230.95	0.00	0.00	115942.83	115942.83
	Grand Total	**167.97**	**62342.07**	**211168.00**	**273678.04**	**1904.78**	**706959.02**	**2394511.79**	**3101470.81**

B. First Year Operations

1	Part Nursery cost for maintainace of 1333 seedlings per ha Rs. 2.64 per seedling (Wages Rs.2.69, M & S Rs. 0.81)	14.80	5493.02	1079.73	6572.75	167.83	62290.85	12244.14	74534.99
2	Refiliing of pits with good quality soil & single super phosphate (1.66 M.D per 100 pits)	18.44	6844.01	1944.25	8788.26	209.11	77611.03	22047.80	99658.82
3	Transport of1333 seedlings from nursery to plantation site (including loading & unloading seedling Wages 0.14 md per 100 seedlings & M.S.Rs.1.82 per seedling	1.87	694.05	2426.00	3120.05	21.21	7870.53	27510.84	35381.37
4	Planting of 1111 seedling (1.0 md per 100 seedlings	11.11	4123.48	0.00	4123.48	125.99	46760.22	0.00	46760.22
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	16493.91	991.02	17484.93	503.95	187040.89	11238.17	198279.06
6	Watering 1111 seedlings November and December 1time 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 durms @400/- each for supplying water and water supply at @Rs.0.05 per litre and wages for watring 1 M.D.for 150 seedlings.	59.25	21990.64	54395.00	76385.64	671.90	249373.83	616839.30	866213.13
7	Causality replacement (20% 222 seedling per ha) 2 M.D per 100 seedling	4.44	1647.91	0.00	1647.91	50.35	18687.25	0.00	18687.25
8	Part Nursery Cost for raising seedling for casuality replacement in SYO. (222 seedlings per ha.)(wages Rs. 11.90 and material supply Rs.3.62 total 12.55 per seedling)	7.77	2883.84	803.64	3687.48	88.11	32702.69	9113.28	41815.97
9	Watch and ward (10 months-1 watcher per 10 ha)	27.38	10162.09	0.00	10162.09	310.49	115238.07	0.00	115238.07
			0.00			0.00	0.00	0.00	0.00

10	Soil Working for natually grower plants and singling (1.15 M.D.per 100 plants)	1.15	426.82	10.00	436.82	13.04	4840.17	113.40	4953.57
11	Fire tracing	2.00	742.30	0.00	742.30	22.68	8417.68	0.00	8417.68
	Total	**192.65**	**71502.05**	**61649.64**	**133151.69**	**2184.65**	**810833.22**	**699106.92**	**1509940.14**
	Contingency 3%	0.00		3994.55	3994.55	0.00	0.00	45298.20	45298.20
	Labour Welfare 4%			5326.07	5326.07	0.00	0.00	60397.61	60397.61
	Grand Total	**192.65**	**71502.05**	**70970.26**	**142472.31**	**2184.65**	**810833.22**	**804802.73**	**1615635.95**

C. Second Year Operations

1	Part nursery cost for seedlings for causality replacement (222 seedlings per ha)labur rate @ Rs.3.77 and M.S.Rs.1.82 per seedling	2.46	913.03	404.00	1317.03	27.90	10353.75	4581.36	14935.11
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 seddling	0.31	115.06	404.04	519.10	3.52	1304.74	4581.81	5886.55
3	planting for casualty replacement 222 seedlings (2.00 M.D.per 100 seedlings)	4.44	1647.91	0.00	1647.91	50.35	18687.25	0.00	18687.25
4	2 weedings and 1 soil working, with fertilizer application 2.5 M.D.per 100 seedling at M.S.Rs.0.82 per seedling	27.77	10306.84	911.02	11217.86	314.91	116879.51	10330.97	127210.48
5	Watering 1111 seedlings November and December January and June 1 times each and February to May 2 times each total 12 times 5 litre per seedlings,replacing 10% plastic can/matka @Rs.25/-each replacing 111 canes/matka supplying water @RS.0.50/-per litre and watering 150 seedlings per M.D. 5	88.88	32987.81	36105.00	69092.81	1007.90	374081.79	409430.70	783512.49
6	Watch and ward 12 months - 1 watcher per	36.50	13546.98	0.00	13546.98	413.91	153622.70	0.00	153622.70
7	Fire tracing	2.00	742.30	0.00	742.30	22.68	8417.68	0.00	8417.68
	Total	**162.36**	**60259.91**	**37824.06**	**98083.97**	**1841.16**	**683347.42**	**428924.84**	**1112272.27**
	Contingency 3%			2942.52	2942.52	0.00	0.00	33368.17	33368.17
	Labour Welfare 4%	0.00	0.00	3923.36	3923.36	0.00	0.00	44490.89	44490.89
	Grand Total	**162.36**	**60259.91**	**44689.94**	**104949.85**	**1841.16**	**683347.42**	**506783.90**	**1190131.32**

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	6187.07	911.02	7098.09	189.04	70161.38	10330.97	80492.35
2	Watering 556 seedlingsin November, December January and June 1 times 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	16508.75	16680.00	33188.75	504.40	187209.25	189151.20	376360.45
3	Watch and ward 12 months - 1 watcher per 10 ha.	36.50	13546.98	0.00	13546.98	413.91	153622.70	0.00	153622.70
4	Counting of survival percentage Gird wise and Species wise and to Note the same on Register in May and October	2.00	742.30	25.00	767.30	22.68	8417.68	283.50	8701.18
5	Fire tracing	2.00	742.30	0.00	742.30	22.68	8417.68	0.00	8417.68
	Total	**101.65**	**37727.40**	**17616.02**	**55343.42**	**1152.71**	**427828.69**	**199765.67**	**627594.35**
	Contingency 3%	0.00	0.00	1660.30	1660.30	0.00	0.00	18827.83	18827.83
	Labour Welfare 4%	0.00	0.00	2213.74	2213.74	0.00	0.00	25103.77	25103.77
	Grand Total	**101.65**	**37727.40**	**21490.06**	**59217.46**	**1152.71**	**427828.69**	**243697.27**	**671525.96**

E. Fourth Year Operations

1	Watch and ward 12 months - 1 watcher per 10 ha.	36.50	13546.98	0.00	13546.98	413.91	153622.70	0.00	153622.70
2	Counting of survival percentage Gird wise and Species wise and to Note the same on Register in May and October	2.00	742.30	25.00	767.30	22.68	8417.68	283.50	8701.18
3	Fire tracing	2.00	742.30	0.00	742.30	22.68	8417.68	0.00	8417.68
	Total	**40.50**	**15031.58**	**25.00**	**15056.58**	**459.27**	**170458.06**	**283.50**	**170741.56**
	Contingency 3%	0.00	0.00	451.70	451.70	0.00	0.00	5122.25	5122.25
	Labour Welfare 4%	0.00	0.00	602.26	602.26	0.00	0.00	6829.66	6829.66
	Grand Total	**40.50**	**15031.58**	**1078.96**	**16110.54**	**459.27**	**170458.06**	**12235.41**	**182693.47**

F. Fifth Year Operations

1	Watch and ward 12 months - 1 watcher per 10 ha.	36.50	13546.98	0.00	13546.98	413.91	153622.70	0.00	153622.70
2	Counting of survival percentage Gird wise and Species wise and to Note the same on Register in May and October	2.00	742.30	25.00	767.30	22.68	8417.68	283.50	8701.18

3	Fire tracing	2.00	742.30	0.00	742.30	22.68	8417.68	0.00	8417.68
	Total	**40.50**	**15031.58**	**25.00**	**15056.58**	**459.27**	**170458.06**	**283.50**	**170741.56**
	Contingency 3%	0.00	0.00	451.70	451.70	0.00	0.00	5122.25	5122.25
	Labour Welfare 4%	0.00	0.00	602.26	602.26	0.00	0.00	6829.66	6829.66
	Grand Total	**40.50**	**15031.58**	**1078.96**	**16110.54**	**459.27**	**170458.06**	**12235.41**	**182693.47**
	G. Sixth Year Operations								
1	Watch and ward 12 months - 1 watcher per 10 ha.	36.50	13546.98	0.00	13546.98	413.91	153622.70	0.00	153622.70
2	Counting of survival percentage Gird wise and Species wise and to Note the same on Register in May and October	2.00	742.30	25.00	767.30	22.68	8417.68	283.50	8701.18
3	Fire tracing	2.00	742.30	0.00	742.30	22.68	8417.68	0.00	8417.68
	Total	**40.50**	**15031.58**	**25.00**	**15056.58**	**459.27**	**170458.06**	**283.50**	**170741.56**
	Contingency 3%			451.70	451.70	0.00	0.00	5122.25	5122.25
	Labour Welfare 4%			602.26	602.26	0.00	0.00	6829.66	6829.66
	Grand Total	**40.50**	**15031.58**	**1078.96**	**16110.54**	**459.27**	**170458.06**	**12235.41**	**182693.47**

H. Seventh Year Operations

1	Watch and ward 12 months - 1 watcher per 10 ha.	36.50	13546.98	0.00	13546.98	413.91	153622.70	0.00	153622.70
2	Counting of survival percentage Gird wise and Species wise and to Note the same on Register in May and October	2.00	742.30	25.00	767.30	22.68	8417.68	283.50	8701.18
3	Fire tracing	2.00	742.30	0.00	742.30	22.68	8417.68	0.00	8417.68
	Total	**40.50**	**15031.58**	**25.00**	**15056.58**	**459.27**	**170458.06**	**283.50**	**170741.56**
	Contingency 3%	0.00	0.00	451.70	451.70	0.00	0.00	5122.25	5122.25
	Labour Welfare 4%	0.00	0.00	602.26	602.26	0.00	0.00	6829.66	6829.66
	Grand Total	**40.50**	**15031.58**	**1078.96**	**16110.54**	**459.27**	**170458.06**	**12235.41**	**182693.47**
	I. Eighth Year Operations								
1	Watch and ward 12 months - 1 watcher per 10 ha.	36.50	13546.98	0.00	13546.98	413.91	153622.70	0.00	153622.70
2	Counting of survival percentage Gird wise and Species wise and to Note the same on Register in May and October	2.00	742.30	25.00	767.30	22.68	8417.68	283.50	8701.18
3	Fire tracing	2.00	742.30	0.00	742.30	22.68	8417.68	0.00	8417.68
	Total	**40.50**	**15031.58**	**25.00**	**15056.58**	**459.27**	**170458.06**	**283.50**	**170741.56**
	Contingency 3%			451.70	451.70	0.00	0.00	5122.25	5122.25

	Labour Welfare 4%			602.26	602.26	0.00	0.00	6829.66	6829.66
	Grand Total	**40.50**	**13754.21**	**1078.96**	**16110.54**	**459.27**	**170458.06**	**12235.41**	**182693.47**
	J. Nineth Year Operations								
1	Watch and ward 12 months - 1 watcher per 10 ha.	36.50	13546.98	0.00	13546.98	413.91	153622.70	0.00	153622.70
2	Counting of survival percentage Gird wise and Species wise and to Note the same on Register in May and October	2.00	742.30	25.00	767.30	22.68	8417.68	283.50	8701.18
3	Fire tracing	2.00	742.30	0.00	742.30	22.68	8417.68	0.00	8417.68
	Total	**40.50**	**13754.21**	**25.00**	**15056.58**	**459.27**	**170458.06**	**283.50**	**170741.56**
	Contingency 3%			451.70	451.70	0.00	0.00	5122.25	5122.25
	Labour Welfare 4%			602.26	602.26	0.00	0.00	6829.66	6829.66
	Grand Total	**40.50**	**13754.21**	**1078.96**	**16110.54**	**459.27**	**170458.06**	**12235.41**	**182693.47**
	K. Tenth Year Operations								
1	Watch and ward 12 months - 1 watcher per 10 ha.	36.50	13546.98	0.00	13546.98	413.91	153622.70	0.00	153622.70
2	Counting of survival percentage Gird wise and Species wise and to Note the same on Register in May and October	2.00	742.30	25.00	767.30	22.68	8417.68	283.50	8701.18
3	Fire tracing	2.00	742.30	0.00	742.30	22.68	8417.68	0.00	8417.68
	Total	**40.50**	**13754.21**	**25.00**	**15056.58**	**459.27**	**170458.06**	**283.50**	**170741.56**
	Contingency 3%			451.70	451.70	0.00	0.00	5122.25	5122.25
	Labour Welfare 4%			602.26	602.26	0.00	0.00	6829.66	6829.66
	Grand Total	**40.50**	**13754.21**	**1078.96**	**16110.54**	**459.27**	**170458.06**	**12235.41**	**182693.47**

Range Forest Officer
Chiplun

Divisional Forest Officer
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ABSTRACT for Model No.5					
SR. NO		Wages	Material supply	other expenses	Total Amount
1	Pre Monsoon works	706959.00	2191611.83	202900.00	3101470.83
2	Firest Year operations	810833.00	699106.92	105696.00	1615635.92
3	Second year opoerations	683347.00	428924.84	77859.00	1190130.84
4	Third Year operations	427829.00	199765.67	43932.00	671526.67
5	Fourth Year operations	170458.00	283.50	11952.00	182693.50
6	Fifth Year operations	170458.00	283.50	11952.00	182693.50
7	Sixth Year operations	170458.00	283.50	11952.00	182693.50
8	Seventh Year operations	170458.00	283.50	11952.00	182693.50
9	Eight Year operations	170458.00	283.50	11952.00	182693.50
10	Nineth Year operations	170458.00	283.50	11952.00	182693.50
11	Tenth Year operations	170458.00	283.50	11952.00	182693.50
	Total	3822174.00	3521393.75	514051.00	7857618.75

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