

Abstract for Model No. 5

Sr. No.	Year of operation	Man days	Wages	Material supply	Total	Man days	Wages	Material supply	Total	Other expenses	Total	Total amt (R/off)
1	Pre Monsoon works	422.50	106136.23	171674.00	277810.23	24510.92	7557450.42	9959495.44	17516945.86	1226186.21	18743132.07	18743132
2	First Year Operations	175.51	44089.87	69978.00	121158.87	10182.04	3139427.51	4059703.69	7199131.20	503939.18	7703070.39	7703070
3	Second Year Operations	83.00	20850.43	10281.00	38222.43	4815.16	1484658.90	596441.93	2081100.83	145677.06	2226777.89	2226778
4	Third Year Operations	96.38	24211.62	10281.00	34492.62	5591.39	1723993.07	596441.93	2320435.00	162430.45	2482865.45	2482865
5	Fouth Year Operations	38.50	9671.59	0.00	9671.59	2233.54	688667.08	0.00	688667.08	48206.70	736873.78	736874
6	Fifth Year Operations	38.50	9671.59	0.00	9671.59	2233.54	688667.08	0.00	688667.08	48206.70	736873.78	736874
7	Sixth Year Operations	38.50	9671.59	0.00	9671.59	2233.54	688667.08	0.00	688667.08	48206.70	736873.78	736874
8	Seventh Year Operations	38.50	9671.59	0.00	9671.59	2233.54	688667.08	0.00	688667.08	48206.70	736873.78	736874
	Total	931.39	233974.48	262214.00	510370.48	54033.66	16660198.22	15212083.00	31872281.22	2231059.69	34103340.90	34103341

Cost per plant Rs. 940.55

- Not e:- 1. The rates indicated are as per item No. 3 of Government of Maharashtra resolution No. MREGS-2011/F.No. 85/EGS-1, Planning department, EGS division dt. 03/11/2011. The rates for item No. 4 & 5 of pre monsoon works and item No. 2 of FYO Are as per Model No. 7.
2. Special technical works includes application of improved technology in nursery & plantation, irrigation as per requirement and site condition, additional SMC works, creation of waterholes, Soil replacement in pits, application of biofertilizers, micro nutrients etc.
3. The above estimate is prepared as per present wage rate.


Dy. Conservator of Forests,
Wardha Forest Division Wardha

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Nagpur Forest Division
NAGPUR

**Afforestation Scheme against diversion of 29.007 ha. forest land for Rehabilitation and upgradation of NH-353D Nagpur-Umred Sec.
Package-IA (Km.7.300 to 48.000) in f/o Project Director, National Highways Authority of India, Nagpur of Maharashtra State.**

Compensatory Afforestation Site : -

Comptt. No. 403-RF, Tal. Umred, Dist. Nagpur.

Area : 58.014 ha. Range : North Umred, Round - Champa, Beat - Uti.

Model No. 5

Model rate structure of intensive irrigated plantation on degraded areas with 18 month old seedlings (Voluntarily accepted by user agency. Undertaking of the user agency is mandatory.)

Spacing - 4.00m x 4.00m
Size of pits - 0.60 x 0.60 x 0.60 m
No. of seedlings - 625 per ha.

Wage Rate -
Rs. 251.21
per day

Wage Rate -
Rs. 308.33 per
day

Sr. No.	Particulars of works	Man days	Wages	Material supply	Total (Rs. Per Ha.)	Man days	Wages	Material supply	Total (Rs. for 4.71 Ha.)
A. Pre Monsoon Works (PPO/PYO)									
1	a. Survey and demarcation	1.00	251.21	50.00	301.21	58.01	17887.46	2900.70	20788.16
	b. Preparation of treatment map (100 m 50 m grid)	1.00	251.21	50.00	301.21	58.01	17887.46	2900.70	20788.16
	c. Clearing of bushes and preparation of site (As per requirement)	10.00	2512.10	50.00	2562.10	580.14	178874.57	2900.70	181775.27
2	Soil and moisture conservation works including collection of rubbles from area upto 30 m etc.	31.00	7787.51	0.00	7787.51	1798.43	554511.16	0.00	554511.16
3	Providing chain link fencing around plantation area. 102 rmt per ha Rs. 2100/- per rmt.	170.00	42705.70	171496.00	214201.70	9862.38	3040867.63	9949168.94	12990036.57
4	Alignment of pits at 5m x 5m spacemnt. 625 pits per Ha. (0.13 M.D. per 50 pits) M&S @ Rs. 2.24 per 50 pits.	1.62	406.96	28.00	434.96	93.98	28977.68	1624.39	30602.07
5	Digging of pits of zise 0.60 x 0.60 x 0.66 m (625 pits per ha) 36.26 M.D. per 100 pits	207.88	52221.53	0.00	52221.53	12059.95	3718444.48	0.00	3718444.48
	Total	422.50	106136.23	171674.00	277810.23	24510.92	7557450.42	9959495.44	17516945.86
	Contingency 3%			8334.31	8334.31			525508.38	525508.38
	Labour Welfare 4%			11112.41	11112.41			700677.83	700677.83
	Grand Total	422.50	106136.23	191120.72	297256.94	24510.92	2096523.30	11185681.65	18743132.07

B. First Year Operation

1	Purchase of selected seedlings 687 seedlings per ha (50% fruit bearing species) Rs. 50 per seedling	0.00	0.00	34350.00	34350.00	0.00	0.00	1992780.90	1992780.90
2	Refiling of pits by good quality soil(2.5M.D per 50pits) a) 30% soil replacement 40.50 cum per ha Rs.300/-per cum. b) Filling 10% farm yard manure 13.50 cum per ha Rs. 700/- per cum.	31.25	7850.31	21600.00	29450.31	1812.94	558983.02	1253102.40	1812085.42
3	Transport of seedlings from nursery to plantation site (including loading & unloading) wages 1.00 md per 55 seedlings and M& S Rs. 300/- per 55 seedlings	12.49	3137.61	3747.00	6884.61	724.59	223414.33	217378.46	440792.79
4	Planting of seedlings 625 seedlings (2.01 M.D per 50 seedlings)	25.13	6312.91	0.00	6312.91	1457.89	449511.78	0.00	449511.78
5	Planting for 10% sacualty replacement (2.00 M. D per 100 seedlings)	1.26	316.52	0.00	316.52	73.10	22538.20	0.00	22538.20
6	3 weeding and 2 soil workings (3.40 M.D per 50 seedlings) fertilizer application Rs. 0.45 per seedling	42.50	10676.43	281.00	10957.43	2465.60	760216.91	16301.93	776518.84
7	Watering the plants 4 times from Oct to March (20 litre per 100 plants (As per Govt. Resolution EGS 28 dt. 09/11/2009)	30.88	7757.36	0.00	7757.36	1791.47	552364.66	0.00	552364.66
8	Water supply to plantation site by tanker and material supply as tanks, pipes etc.	0.00	0.00	10000.00	10000.00	0.00	0.00	580140.00	580140.00
9	Watch and ward (10 months- 1 watcher per 10 ha)	30.00	7536.30	0.00	7536.30	1740.42	536623.70	0.00	536623.70
10	Fire tracing	2.00	502.42	0.00	502.42	116.03	35774.91	0.00	35774.91
11	Special techical works				7091.00	0.00	0.00	0.00	0.00
	Total	175.51	44089.87	69978.00	121158.87	10182.04	3139427.51	4059703.69	7199131.20
	Contingency 3%			3634.77	3634.77			215973.94	215973.94
	Labour Welfare 4%			4846.35	4846.35			287965.25	287965.25
	Grand Total	175.51	44089.87	78459.12	129639.99		3139427.51	4563642.88	7703070.39
C. Second Year Operation									
1	3 weeding and soil workings (3.40 M.D per 50 seedlings) fertilizer application Rs. 0.45 per plant.	42.50	10676.43	281.00	10957.43	2465.60	760216.91	16301.93	776518.84
2	Watering the plants 5 times (20 litre per 100 plants (As per Govt. Resolution EGS 28 dt. 09/11/2009)	38.50	9671.59	0.00	9671.59	2233.54	688667.08	0.00	688667.08

3	Water supply to plantation site by tanker and material supply as tanks, pipes etc.			10000.00	10000.00	0.00	0.00	580140.00	580140.00
4	Fire tracing	2.00	502.42	0.00	502.42	116.03	35774.91	0.00	35774.91
5	Special techical works			0.00	7091.00	0.00	0.00	0.00	0.00
	Total	83.00	20850.43	10281.00	38222.43	4815.16	1484658.90	596441.93	2081100.83
	Contingency 3%		0.00	1146.67	1146.67		0.00	62433.03	62433.03
	Labour Welfare 4%		0.00	1528.90	1528.90		0.00	83244.03	83244.03
	Grand Total	83.00	20850.43	12956.57	40898.00		1484658.90	742118.99	2226777.89
D. Third Year Operations									
1	3 weeding and soil workings (3.40 M.D per 50 seedlings) fertilizer application Rs. 0.45 per plant.	42.50	10676.43	281.00	10957.43	2465.60	760216.91	16301.93	776518.84
2	Watering the plants 5 times (20 litre per 100 plants (As per Govt. Resolution EGS 28 dt. 09/11/2009)	15.38	3863.61	0.00	3863.61	892.26	275109.08	0.00	275109.08
3	Water supply to plantation site by tanker and material supply as tanks, pipes etc.			10000.00	10000.00	0.00	0.00	580140.00	580140.00
4	Watch and ward 12 months 1 watcher 10.00 ha	36.50	9169.17	0.00	9169.17	2117.51	652892.17	0.00	652892.17
5	Fire trenching	2.00	502.42	0.00	502.42	116.03	35774.91	0.00	35774.91
	Total	96.38	24211.62	10281.00	34492.62	5591.39	1723993.07	596441.93	2320435.00
	Contingency 3%		0.00	1034.78	1034.78		0.00	69613.05	69613.05
	Labour Welfare 4%		0.00	1379.70	1379.70		0.00	92817.40	92817.40
	Grand Total	96.38	24211.62	12695.48	36907.10		1723993.07	758872.38	2482865.45
E. Fourth Year Operations									
1	Fire trenching	2.00	502.42	0.00	502.42	116.03	35774.91	0.00	35774.91
2	Watch and ward 12 months 1 watcher 10.00 ha	36.50	9169.17	0.00	9169.17	2117.51	652892.17	0.00	652892.17
	Total	38.50	9671.59	0.00	9671.59	2233.54	688667.08	0.00	688667.08
	Contingency 3%		0.00	290.15	290.15		0.00	20660.01	20660.01
	Labour Welfare 4%		0.00	386.86	386.86		0.00	27546.68	27546.68
	Grand Total	38.50	9671.59	677.01	10348.60		688667.08	48206.70	736873.78

F. Fifth Year Operations									
1	Fire trenching	2.00	502.42	0.00	502.42	116.03	35774.91	0.00	35774.91
2	Watch and ward 12 months 1 watcher 10.00 ha	36.50	9169.17	0.00	9169.17	2117.51	652892.17	0.00	652892.17
	Total	38.50	9671.59	0.00	9671.59	2233.54	688667.08	0.00	688667.08
	Contingency 3%		0.00	290.15	290.15		0.00	20660.01	20660.01
	Labour Welfare 4%		0.00	386.86	386.86		0.00	27546.68	27546.68
	Grand Total	38.50	9671.59	677.01	10348.60		688667.08	48206.70	736873.78
G. Sixth Year Operations.									
1	Fire trenching	2.00	502.42	0.00	502.42	116.03	35774.91	0.00	35774.91
2	Watch and ward 12 months 1 watcher 10.00 ha	36.50	9169.17	0.00	9169.17	2117.51	652892.17	0.00	652892.17
	Total	38.50	9671.59	0.00	9671.59	2233.54	688667.08	0.00	688667.08
	Contingency 3%		0.00	290.15	290.15		0.00	20660.01	20660.01
	Labour Welfare 4%		0.00	386.86	386.86		0.00	27546.68	27546.68
	Grand Total	38.50	9671.59	677.01	10348.60		688667.08	48206.70	736873.78
H. Seventh Year Operations									
1	Fire trenching	2.00	502.42	0.00	502.42	116.03	35774.91	0.00	35774.91
2	Watch and ward 12 months 1 watcher 10.00 ha	36.50	9169.17	0.00	9169.17	2117.51	652892.17	0.00	652892.17
	Total	38.50	9671.59	0.00	9671.59	2233.54	688667.08	0.00	688667.08
	Contingency 3%		0.00	290.15	290.15		0.00	20660.01	20660.01
	Labour Welfare 4%		0.00	386.86	386.86		0.00	27546.68	27546.68
	Grand Total	38.50	9671.59	677.01	10348.60		688667.08	48206.70	736873.78



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