Certificate No.:- 19

Compensatory Afforestation scheme prepared by Dy.CF

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Date :- 16 / ~~10~~ 11 / **2018**

Amravati.

(Harishchandra Waghmode),MFS.
Deputy Conservator of Forest,
Amravati Forest Division,
Amravati

Model Rate Structure for Compensatory Afforestation

Model No.3

Site Selection (Year)
Working Circle
Source of Funding
Target Seedling :

Round :
Felling Series
Area 30.00 Ha.
Wage Rate 313.00

Village
Category of Funding
Special Drive Target Seedling

Sr. No.	Model Keys	For 1 Ha. Area				For 30.00 Ha. Area			
		Mandays	Wages	Material	Total(in Rs.)	Mandays	Material	Wages	Total(in Rs.)
1	2	3		5	6	7	9		10
	Pre Plantation Operation (PPO)								
1	a.Survey & Demarcation (4 layer stone mount)	1.00	313.00	50.00	363.00	30.00	1500.00	9390.00	10890.00
	b.Preparation of Treatment map (100x50 m grids)	1.00	313.00	50.00	363.00	30.00	1500.00	9390.00	10890.00
	C.Clearing of bushes and preparation(as per requirement)	10.00	3130.00	50.00	3180.00	300.00	1500.00	93900.00	95400.00
2	Soil & Moisture Conservation works: works including collection of rubbles from areas upto 30 m etc	31.00	9703.00	0.00	9703.00	930.00	0.00	291090.00	291090.00
3	Alignment of 1200 rmt of CCT at 8.00 m spacement (0.25 MD per 100 rmt and M&S Rs.40 Per 100 rmt)	3.00	939.00	96.00	1035.00	90.00	2880.00	28170.00	31050.00
4	Digging of CCT of size 60 cm width and 45 cm depth including stacking of soil at down word slope (1200 rmt per ha.-0.15 per rmt)	183.60	57466.80	0.00	57466.80	5508.00	0.00	1724004.00	1724004.00
5	Digging of Trench cum mound (TCM) of size 1.90 X 0.60 X1.00 m along the periphery of plantation area including spreading /stacking the excavated soil as directed in 1 m width and 1 M height .Legth 102 Rmt pe Ha.(127.50 cum per ha)	82.57	25844.41	50	25894.41	2477.10	1500.00	775332.30	776832.30
6	Aliigment of pits at 3.0 x 3.0 m spacement 1111 pits per ha (0.13 M.D and M& S Rs.2.24 per 50 pits per 100 pits	2.89	904.57	49.77	954.34	86.70	1493.10	27137.10	28630.20
7	Digging of pits of 0.45 x 0.45 x 0.45 m size 111 pits pea ha (6.60 M.D. Per 100 pits	73.33	22952.29	0	22952.29	2199.90	0.00	688568.70	688568.70
8	Part Nursery cost for raising 1333 seedling per ha (including 20% casuality seedling per ha (including 20% casuality replacement) in polybag of size 12.50 x 25.00 cm (Wages Rs.8.80 and M & S Rs.1.76 per plant	38.63	12091.19	2346.08	14437.27	1158.90	70382.40	362735.70	433118.10
	Tatal	427.02	133657.26	2691.85	136349.11	12810.60	80755.50	4009717.80	4090473.30
	Contingency 3%				4090.47				122714.20
	Labour Welfare 4%				5453.96				163618.93
	Tatal				145893.55				4376806.43

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Sr. No.	Model Keys	For 1 Hq. Area				For 4.71 Hq. Area			
		Mandays	Wages	Material	Total(in Rs.)	Mandays	Material	Wages	Total(in Rs.)
1	2	3		5	6	7	9		10
B. First Year Operations									
1	Part Nursery cost for maintainace of 1333 seedling per ha Rs.1.55 per seedling (Wages Rs.1.11,M&S Rs.0.44)	11.68	3655.84	586.52	4242.36	350.40	17595.60	109675.20	127270.80
2	Refilling of pits with good quality soil a).Wages 1.66 M.D per 100 pits B) 20% soil replacement. 20 cum per ha. Rs 300/- per cum C) Filling 5 % farm yard manure in pits cum per ha.Rs.700/-per cum	18.44	5771.72	9500.0	15271.72	553.20	285000.00	173151.60	458151.60
3	Transportion of 1333 seedlings from Nursery to plantation site including loading & unloading (0.14 M.D per 100 seedling & M.S Rs.1 per seedling)	1.55	485.15	1333.00	1818.15	46.50	39990.00	14554.50	54544.50
4	Plantation of agave suckers in 3 rows on TCM (306 suckers per ha @ Rs.500 per kg.)	1.00	313.00	981.00	1294.00	30.00	29430.00	9390.00	38820.00
5	Sowing of seeds on CCT 1200 rmt 5 ha @ Rs.50 per kg	12.00	3756.00	250.00	4006.00	360.00	7500.00	112680.00	120180.00
6	Removal of seeds from CCT (1.20 M.D per 100 rmt)	14.40	4507.20	0.00	4507.20	432.00	0.00	135216.00	135216.00
7	Planting of seedling 1111 per ha (1.00 M.D per 100 seedlings.)	11.11	3477.43	0.00	3477.43	333.30	0.00	104322.90	104322.90
8	3 weedling and 2 soil working (3.50 M.D per 100 seedling) fertilizer application Rs.0.45 per seedling.	38.88	12169.44	500	12669.44	1166.40	15000.00	365083.20	380083.20
9	Casuality replacement (20 % 222 seedling per ha) (2 MD per 100 seedlings.	4.44	1389.72	0.00	1389.72	133.20	0.00	41691.60	41691.60
10	Part Nursery cost for casuality replacement in SYO (222 seedlings per ha) (Wages Rs.8.80 and material supply Rs.1.76 total Rs.10.56 per seedling)	7.78	2435.14	390.72	2825.86	233.40	11721.60	73054.20	84775.80
11	Watch and ward (10 months - 1 watcher per 10 ha)	30.00	9390.00	0.00	9390.00	900.00	0.00	281700.00	281700.00
12	Fire Tracing	2.00	626.00	0.00	626.00	60.00	0.00	18780.00	18780.00
	Tatal	**153.28**	**47976.64**	**13541.24**	**61517.88**	**4598.40**	**406237.20**	**1439299.20**	**1845536.40**
	Contingency 3%	**0.00**			**1845.54**				**55366.09**
	Labour Welfare 4%	**0.00**			**2460.72**				**73821.46**
	Tatal				**65824.13**				**1974723.95**

Sr. No.	Model Keys	For 1 Hq. Area				For 4.71 Hq. Area			
		Mandays	Wages	Material	Total(in Rs.)	Mandays	Material	Wages	Total(in Rs.)
1	2	3		5	6	7	9		10
SECOND YEAR OPERATION (SYO)									
1	Part nursery cost for seedlings for causality replacement (222 seedlings per ha.	1.95	610.35	97.67	708.02	58.50	2930.10	18310.50	21240.60
2	Transportion of 222 seedlings for Casuality replacement including loadings & unloading (0.14 M.D per 100 seedling & M.S Rs.1 per seedling)	0.31	97.03	222.00	319.03	9.30	6660.00	2910.90	9570.90
3	Planting for casuality replacement 222 seedlings (2.00 M.D per 100 seedlings)	4.44	1389.72	0.00	1389.72	133.20	0.00	41691.60	41691.60
4	2 Weedlings and 1 soil working with fertilizer application at Rs.0.45 per seedling	27.77	8692.01	500.00	9192.01	833.10	15000.00	260760.30	275760.30
5	Watch and ward 12 months - 1 watcher per 10.00 ha	36.50	11424.50	0.00	11424.50	1095.00	0.00	342735.00	342735.00
6	Fire Tracing	2.00	626.00	0.00	626.00	60.00	0.00	18780.00	18780.00
	Tatal	**72.97**	**22839.61**	**819.67**	**23659.28**	**2189.10**	**24590.10**	**685188.30**	**709778.40**
	Contingency 3%	**0.00**			**709.78**				**21293.35**
	Labour Welfare 4%	**0.00**			**946.37**				**28391.14**
	Tatal				**25315.43**				**759462.89**
THIRD YEAR OPERATION (SYO)									
1	1 weedling and 1 soil working (1.50 M.D per 100 seedlings)	16.67	5217.71	0.00	5217.71	500.10	0.00	156531.30	156531.30
2	Watch and ward 12 months - 1 watcher per 10.00 ha	36.50	11424.50	0.00	11424.50	1095.00	0.00	342735.00	342735.00
3	Fire Tracing	2.00	626.00	0.00	626.00	60.00	0.00	18780.00	18780.00
	Tatal	**55.17**	**17268.21**	**0.00**	**17268.21**	**1655.10**	**0.00**	**518046.30**	**518046.30**
	Contingency 3%	**0.00**			**518.05**				**15541.39**
	Labour Welfare 4%	**0.00**			**690.73**				**20721.85**
	Tatal				**18476.98**				**554309.54**
Forth Year Operation									
1	Fire Tracing	2.00	626.00	0.00	626.00	60.00	0.00	18780.00	18780.00
2	Watch and ward 12 months - 1 watcher per 10.00 ha	36.50	11424.50	0.00	11424.50	1095.00	0.00	342735.00	342735.00
	Tatal	**38.50**	**12050.50**	**0.00**	**12050.50**	**1155.00**	**0.00**	**361515.00**	**361515.00**
	Contingency 3%	**0.00**			**361.52**				**10845.45**
	Labour Welfare 4%	**0.00**			**482.02**				**14460.60**
	Tatal				**12894.04**				**386821.05**

Sr. No.	Model Keys	For 1 Hq. Area				For 4.71 Hq. Area			
		Mandays	Wages	Material	Total(in Rs.)	Mandays	Material	Wages	Total(in Rs.)
1	2	3		5	6	7	9		10
Fifth Year Operation									
1	Fire Tracing	2.00	626.00	0.00	626.00	60.00	0.00	18780.00	18780.00
2	Watch and ward 12 months - 1 watcher per 10.00 ha	36.50	11424.50	0.00	11424.50	1095.00	0.00	342735.00	342735.00
	Tatal	38.50	12050.50	0.00	12050.50	1155.00	0.00	361515.00	361515.00
	Contingency 3%	0.00			361.52				10845.45
	Labour Welfare 4%	0.00			482.02				14460.60
	Tatal				12894.04				386821.05
Sixth Year Operation									
1	Fire Tracing	2.00	626.00	0.00	626.00	60.00	0.00	18780.00	18780.00
2	Watch and ward 12 months - 1 watcher per 10.00 ha	36.50	11424.50	0.00	11424.50	1095.00	0.00	342735.00	342735.00
	Tatal	38.50	12050.50	0.00	12050.50	1155.00	0.00	361515.00	361515.00
	Contingency 3%	0.00			361.52				10845.45
	Labour Welfare 4%	0.00			482.02				14460.60
	Tatal				12894.04				386821.05
Seventh Year Operation									
1	Fire Tracing	2.00	626.00	0.00	626.00	60.00	0.00	18780.00	18780.00
2	Watch and ward 12 months - 1 watcher per 10.00 ha	36.50	11424.50	0.00	11424.50	1095.00	0.00	342735.00	342735.00
	Tatal	38.50	12050.50	0.00	12050.50	1155.00	0.00	361515.00	361515.00
	Contingency 3%	0.00			361.52				10845.45
	Labour Welfare 4%	0.00			482.02				14460.60
	Tatal				12894.04				386821.05

Obstract

Sr.No	Year	Mandays	Wages	Material Supply\	Total	Wages	Material Supply\	Other Expenditure	Total amount
1	Pre Plantation Operation (PPO)	427.02	133657.26	2691.85	136349.11	4009718	80756	286333	4376806
2	First Year Operations	153.28	47976.64	13541.24	61517.88	1439299	406237	129188	1974724
3	Second Year Operations	72.97	22839.61	819.67	23659.28	685188	24590	49684	759463
4	Third Year Operations	55.17	17268.21	0.00	17268.21	518046	0	36263	554310
5	Fourth Year Operations	38.50	12050.50	0.00	12050.50	361515	0	25306	386821
6	Fifth Year Operations	38.50	12050.50	0.00	12050.50	361515	0	25306	386821
7	Sixth Year Operations	38.50	12050.50	0.00	12050.50	361515	0	25306	386821
8	Seventh Year Operations	38.50	12050.50	0.00	12050.50	361515	0	25306	386821
	Total	**862.44**	**269943.72**	**17052.76**	**286996.48**	**8098312**	**511583**	**602693**	**8609894**

Executive Engineer
National Highway Division,
Amravati

Dy. Conservator of Forests
Amravati Division, Amravati

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