YAVATMAL FOREST DIVISION, YAVATMAL.

Tahsil : Yavatmal District : Yavatmal

Enclouser to Principal Chief Conservator of Forest (HoFF), M.S. Nagpur Letter No.Desk-17/CA/Nodal Cell/CR-40/1127/2019-20, Date 4.11.2019

Model Rate Structure for Compensatory Afforestation Model No.5

Fencing and Irrigated Plantations

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

Division : Yavatmal	Area of Land :- 1.20	Plantation area : 1 Ha.
Range : Yavatmal	Village : Darwha	Rate : 387.23 /-
Round : Darwha	No. of Plants : / ha.	Compartmnet No. : 112
Beat : South Darwha	Spacement :- 3m x 3m	Size of pits :- 0.45x0.45x0.45m.
	No. of Seedlings :- 1111 per Ha.	

P.P.O. + P.Y.O.

Sr. No.	Particular of Work	Mandays	Wages	Material Supply	Total	Mandays	Wages	Material supply	Total
1	2	3	4	5	6	7	8	9	10
A)	**Pre Monsoon Works PPO / PYO**								
1	a) Survey of demarcation	1.00	387.23	91.00	478.23	1.00	387.23	91.00	478.23
	b) Preparation of treatment map (100m x 50m.grid)	1.00	387.23	91.00	478.23	1.00	387.23	91.00	478.23
	c) Digging trial pits of size 0.30x0.30x0.60 in corner of Grid.	0.40	154.89	0.00	154.89	0.00	154.89	0.00	154.89
	d) Fixing 60 cm x 0.05 cm x 12 cm 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	225.00	225.00
	e) Clearing of bushes and preparation of site (As per requirement.)	10.00	3872.30	91.00	3963.30	10.00	3872.30	91.00	3963.30
2	Soil and moisture conservation works including collection of rubbles from areas upto 30 mtr. Etc.	31.00	12004.13	0.00	12004.13	31.00	12004.13	0.00	12004.13
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. Lead plus 20% for tribal / remote area (by tender process). (Rs.1494+149+149=1792) per Rmt. (1.60 Rmt. height with G.I. Chain link size 50mm x 50m, 8 gauge thick and fixed 75 mm 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	182865.60	182865.60
4	Alignment of pits at 3m x 3 m spacement. 1111 pits per Ha. (0.25 per 100 pits and M&S @ Rs. 2.24 per 50 pits.)	2.78	1076.50	49.77	1126.27	3.00	1076.50	49.77	1126.27

Sr. No.	Particular of Work	Mandays	Wages	Material Supply	Total	Mandays	Wages	Material supply	Total
1	2	3	4	5	6	7	8	9	10
5	Digging of pits of size 0.45 x 0.45 x 0.45 m (1111 pits per ha.) 6.60 M.D. Per 100 pits Note :- As per local conditions provision for mechanized digging can be made.	73.33	28395.58	0.00	28395.58	73.00	28395.58	0.00	28395.58
6	Construction of 5.00 Rmt. Wide Inspection Path 1M.D. Per 100 Rmt.	1.00	387.23	0.00	387.23	1.00	387.23	0.00	387.23
7	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	290.42	25.00	315.42	1.00	290.42	25.00	315.42
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	5000.00	5000.00
9	Part Nursery cost of rising 1333 seedlings per ha (including 20% casualty replacement) in polygons of size 12.50 x 25.00 cm. (Wages Rs. 11.90 and M&S Rs. 3.63 per plant)	46.71	18087.51	4825.46	22912.97	47.00	18087.51	4825.46	22912.97
	TOTAL :	**167.97**	**65043.02**	**193263.83**	**258306.85**	**168.00**	**65043.02**	**193263.83**	**258306.85**
	Equipment and contigency charges 3% :				**7749.21**				**7749.21**
	Labour Welfare charges 4% :				**10332.27**				**10332.27**
	Grand Total :				**276388.33**				**276388.33**

वनपरिक्षेत्र अधिकारी
दारव्हा (प्रा)

Sub-Divisional Forest Officer
Darwha

ESTIMATE FOR FIRST YEAR OPERATION

Sr. No.	Particular of Work	Mandays	Wages	Material Supply	Total	Mandays	Wages	Material supply	Total
1	2	3	4	5	6	7	8	9	10
B)	**First Year Operation**								
1	Part Nursery cost for maintenance of 1333 seedlings per ha Rs. 3.77 per seedling (Wages Rs. 2.69, M&S Rs.0.81)	14.80	5731.00	1079.73	6810.73	15.00	5731.00	1079.73	6810.73
2	Refilling of pits by good quality soil including application of sinle super phosphate (1.66 MD per 100 pits.	18.44	7140.52	1944.25	9084.77	18.00	7140.52	1944.25	9084.77
3	Transportation of 1333 seedlings from Nursery to Plantation site including loading and unloading (0.14 MD per 100 seedlings and M.S. Rs. 1.82 per seedlings.)	1.87	724.12	2426.00	3150.12	2.00	724.12	2426.00	3150.12
4	Planting of 1111 seedlings (1.00 MD per 100 seedlings.)	11.11	4302.13	0.00	4302.13	11.00	4302.13	0.00	4302.13
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	17208.50	911.02	18119.52	44.00	17208.50	911.02	18119.52
6	Watering 1111 seedlings Novermber and December 1 time each, January to March 2 time each per seedlings 5 liter water, purchase of 1111 plastig can of 5 litre / matka @ Rs.25/- each and 100 liter capacity 11 drums @ Rs.400/- each for supplyingg water an dwater supply at @ Rs. 0.05 per liter and wages for watering 1 M.D. for 150 seedlings.)	59.25	22943.38	54395.00	77338.38	59.00	22943.38	54395.00	77338.38
7	Casualty replacement (20% 222 seedlings per Ha.) (2 M.D. Per 100 seedlings.)	4.44	1719.30	0.00	1719.30	4.00	1719.30	0.00	1719.30

Sr. No.	Particular of Work	Mandays	Wages	Material Supply	Total	Mandays	Wages	Material supply	Total
1	2	3	4	5	6	7	8	9	10
8	Part Nursery cost for maintenance in SYO (222 seedlings per ha.) (wages Rs. 11.90 and material supply Rs.3.62 total Rs. 12.55 per seedlings.)	7.77	3008.78	803.64	3812.42	8.00	3008.78	803.64	3812.42
9	Watch and ward (10 months - 1 watcher per 10 Ha.)	27.38	10602.36	0.00	10602.36	27.00	10602.36	0.00	10602.36
10	Soil workign for naturally grower plants and singling (1.15 M.D. Per 100 plants.)	1.15	445.31	10.00	455.31	1.00	445.31	10.00	455.31
11	Fire tracing.	2.00	774.46	0.00	774.46	2.00	774.46	0.00	774.46
	TOTAL :	**192.65**	**74599.86**	**61569.64**	**136169.50**	**191.00**	**74599.86**	**61569.64**	**136169.50**
	Equipment and contigency charges 3% :				**4085.08**				**4085.09**
	Labour Welfare charges 4% :				**5446.78**				**5446.78**
	Grand Total :				**145701.36**				**145701.37**

वनपरिक्षेत्र अधिकारी
दारदहा (प्रा)

ESTIMATE FOR SECOND YEAR OPERATION

Sr. No.	Particular of Work	Mandays	Wages	Material Supply	Total	Mandays	Wages	Material supply	Total
1	2	3	4	5	6	7	8	9	10
C)	Second Year Operation								
1	Part Nursery cost for seedlings for causality replacement (222 seedling per ha.) labour rate @ Rs. 3.77 and M.S. Rs. 1.82 per seedlings.	2.46	1047.96	404.00	1451.96	2.00	1047.96	404.00	1451.96
2	Transportation of 222 seedlings for causality replacement from nursery to plantation site (including loading an unloading) wages 0.14 M.D. Per 100 seedling and M.S. Rs. 1.82 per seedlings	0.31	132.06	404.04	536.10	0.00	132.06	404.04	536.10
3	Planting for casualty replacement 222 seedlings (2.00 M.D. Per 100 seedlings)	4.44	1891.44	0.00	1891.44	4.00	1891.44	0.00	1891.44
4	2 weedings and 1 soil working, with frtilizer application 2.5 M.D. Per 100 seedlings at M.S. Rs. 0.82 per seedling.	27.77	11830.02	911.02	12741.04	28.00	11830.02	911.02	12741.04
5	Watering 111 seedlings in Novembr, December, January and June1 time 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 cans / matka, supplying water @ Rs.0.50/- per litre and watering 150	88.88	37862.88	36105.00	73967.88	89.00	37862.88	36105.00	73967.88
6	Watch and ward 12 months - 1 watcher per 10.00 Ha	36.50	15549.00	0.00	15549.00	37.00	15549.00	0.00	15549.00
7	Fire Trecing.	2.00	852.00	0.00	852.00	2.00	852.00	0.00	852.00
	TOTAL :	162.36	69165.36	37824.06	106989.42	162.00	69165.36	37824.06	106989.42
8	Equipment and contigency charges 3% :				3209.68				3209.68
9	Labour Welfare charges 4% :				4279.58				4279.58
10	Grand Total :				114478.68				114478.68

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वनपरिक्षेत्र अधिकारी

ESTIMATE FOR THIRD YEAR OPERATION

Sr. No.	Particular of Work	Mandays	Wages	Material Supply	Total	Mandays	Wages	Material supply	Total
1	2	3	4	5	6	7	8	9	10
D)	Third Year Operation								
1	1 weeding and 1 soil working (1.50 M.D. Per 100 seedlings) applying fertilizer @ Rs. 0.82 per plant.	16.67	7811.56	911.02	8722.58	17.00	7811.56	911.02	8722.58
2	Watering 556 seedlings in November, December, January and June 1 time each and February to May 2 times each total 12 time per seedlings 5 litre, water supply @ Rs.0.50/- litre and watering 150 seedlings per M.D.	44.48	20843.33	16680.00	37523.33	44.00	20843.33	16680.00	37523.33
3	Watch and ward 12 months 1 watcher per 10.00 Ha.	36.50	17103.90	0.00	17103.90	37.00	17103.90	0.00	17103.90
4	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	937.20	25.00	962.20	2.00	937.20	25.00	962.20
5	Fire tracing	2.00	937.20	0.00	937.20	2.00	937.20	0.00	937.20
	TOTAL :	**101.65**	**47633.19**	**17616.02**	**65249.21**	**102.00**	**47633.19**	**17616.02**	**65249.21**
6	Equipment and contigency charges 3% :				1957.48				1957.48
7	Labour Welfare charges 4% :				2609.97				2609.97
8	Grand Total :				69816.66				69816.66

वनप्रक्षेत्र अधिकारी
दारहा (प्रा)

ESTIMATE FOR FORTH YEAR OPERATION

Sr. No.	Particular of Work	Mandays	Wages	Material Supply	Total	Mandays	Wages	Material supply	Total
1	2	3	4	5	6	7	8	9	10
E)	**Fourth Year Operations**								
1	Watch and Ward 12 months 1 watcher per 10.00 Ha.	36.50	18815.75	0.00	18815.75	37.00	18815.75	0.00	18815.75
2	Counting of survival percentage Grid wise and species wise and to Note the same on Register in May and October	2.00	1031.00	25.00	1056.00	2.00	1031.00	25.00	1056.00
3	Fire Tracing.	2.00	1031.00	0.00	1031.00	2.00	1031.00	0.00	1031.00
	TOTAL :	**40.50**	**20877.75**	**25.00**	**20902.75**	**41.00**	**20877.75**	**25.00**	**20902.75**
4	Equipment and contigency charges 3% :				627.08				**627.08**
5	Labour Welfare charges 4% :				836.11				**836.11**
6	Grand Total :				22365.94				**22365.94**

वनपरिक्षेत्र अधिकारी
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ESTIMATE FOR FIFTH YEAR OPERATION

Sr. No.	Particular of Work	Mandays	Wages	Material Supply	Total	Mandays	Wages	Material supply	Total
1	2	3	4	5	6	7	8	9	10
F)	Fifth Year Operations								
1	Watch and Ward 12 months 1 watcher per 10.00 Ha.	36.50	20699.15	0.00	20699.15	37.00	20699.15	0.00	20699.15
2	Counting of survival percentage Grid wise and species wise and to Note the same on Register in May and October	2.00	1134.20	25.00	1159.20	2.00	1134.20	25.00	1159.20
3	Fire Tracing.	2.00	1134.20	0.00	1134.20	2.00	1134.20	0.00	1134.20
	TOTAL :	**40.50**	**22967.55**	**25.00**	**22992.55**	**41.00**	**22967.55**	**25.00**	**22992.55**
	Equipment and contigency charges 3% :				**689.78**				**689.78**
	Labour Welfare charges 4% :				**919.70**				**919.70**
	Grand Total :				**24602.03**				**24602.03**

ESTIMATE FOR SIXTH YEAR OPERATION

Sr. No.	Particular of Work	Mandays	Wages	Material Supply	Total	Mandays	Wages	Material supply	Total
1	2	3	4	5	6	7	8	9	10
G)	Sixth Year Operations								
1	Watch and Ward 12 months 1 watcher per 10.00 Ha.	36.50	22768.70	0.00	22768.70	37.00	22768.70	0.00	22768.70
2	Counting of survival percentage Grid wise and species wise and to Note the same on Register in May and October	2.00	1247.60	25.00	1272.60	2.00	1247.60	25.00	1272.60
3	Fire Tracing.	2.00	1247.60	0.00	1247.60	2.00	1247.60	0.00	1247.60
	TOTAL :	**40.50**	**25263.90**	**25.00**	**25288.90**	**41.00**	**25263.90**	**25.00**	**25288.90**
	Equipment and contigency charges 3% :								**758.67**
	Labour Welfare charges 4% :								**1011.56**
	Grand Total :								**27059.13**

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दारव्हा (प्रा)

ESTIMATE FOR SEVENTH YEAR OPERATION

Sr. No.	Particular of Work	Mandays	Wages	Material Supply	Total	Mandays	Wages	Material supply	Total
1	2	3	4	5	6	7	8	9	10
H)	Seventh Year Operations								
1	Watch and Ward 12 months 1 watcher per 10.00 Ha.	36.50	25046.30	0.00	25046.30	37.00	25046.30	0.00	25046.30
2	Counting of survival percentage Grid wise and species wise and to Note the same on Register in May and October	2.00	1372.40	25.00	1397.40	2.00	1372.40	25.00	1397.40
3	Fire Tracing.	2.00	1372.40	0.00	1372.40	2.00	1372.40	0.00	1372.40
	TOTAL :	**40.50**	**27791.10**	**25.00**	**27816.10**	**41.00**	**27791.10**	**25.00**	**27816.10**
	Equipment and contigency charges 3% :				834.48				834.48
	Labour Welfare charges 4% :				1112.64				1112.64
	Grand Total :				29763.22				29763.22

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वनखंडा (प्रा)

ESTIMATE FOR EIGHT YEAR OPERATION

Sr. No.	Particular of Work	Mandays	Wages	Material Supply	Total	Mandays	Wages	Material supply	Total
1	2	3	4	5	6	7	8	9	10
H)	Eight Year Operations								
1	Watch and Ward 12 months 1 watcher per 10.00 Ha.	36.50	27550.20	0.00	27550.20	37.00	27550.20	0.00	27550.20
2	Counting of survival percentage Grid wise and species wise and to Note the same on Register in May and October	2.00	1509.60	25.00	1534.60	2.00	1509.60	25.00	1534.60
3	Fire Tracing.	2.00	1509.60	0.00	1509.60	2.00	1509.60	0.00	1509.60
	TOTAL :	**40.50**	**30569.40**	**25.00**	**30594.40**	**41.00**	**30569.40**	**25.00**	**30594.40**
	Equipment and contigency charges 3% :				**917.83**				**917.83**
	Labour Welfare charges 4% :				**1223.78**				**1223.78**
	Grand Total :				**32736.01**				**32736.01**

वनपरिक्षेत्र अधिकारी
दारदहा (प्रा)

ESTIMATE FOR NINE YEAR OPERATION

Sr. No.	Particular of Work	Mandays	Wages	Material Supply	Total	Mandays	Wages	Material supply	Total
1	2	3	4	5	6	7	8	9	10
H)	Nine Year Operations								
1	Watch and Ward 12 months 1 watcher per 10.00 Ha.	36.50	30305.95	0.00	30305.95	37.00	30305.95	0.00	30305.95
2	Counting of survival percentage Grid wise and species wise and to Note the same on Register in May and October	2.00	1660.60	25.00	1685.60	2.00	1660.60	25.00	1685.60
3	Fire Tracing.	2.00	1660.60	0.00	1660.60	2.00	1660.60	0.00	1660.60
	TOTAL :	40.50	33627.15	25.00	33652.15	41.00	33627.15	25.00	33652.15
	Equipment and contigency charges 3% :				1009.56				1009.56
	Labour Welfare charges 4% :				1346.09				1346.09
	Grand Total :				36007.80				36007.80

वनपरिक्षेत्र अधिकारी
वारसेवा (प्रा)

ESTIMATE FOR TEN YEAR OPERATION

Sr. No.	Particular of Work	Mandays	Wages	Material Supply	Total	Mandays	Wages	Material supply	Total
1	2	3	4	5	6	7	8	9	10
H)	Ten Year Operations								
1	Watch and Ward 12 months 1 watcher per 10.00 Ha.	36.50	33335.45	0.00	33335.45	37.00	33335.45	0.00	33335.45
2	Counting of survival percentage Grid wise and species wise and to Note the same on Register in May and October	2.00	1826.60	25.00	1851.60	2.00	1826.60	25.00	1851.60
3	Fire Tracing.	2.00	1826.60	0.00	1826.60	2.00	1826.60	0.00	1826.60
	TOTAL :	**40.50**	**36988.65**	**25.00**	**37013.65**	**41.00**	**36988.65**	**25.00**	**37013.65**
	Equipment and contigency charges 3% :				**1110.41**				**1110.41**
	Labour Welfare charges 4% :				**1480.55**				**1480.55**
	Grand Total :				**39604.61**				**39604.61**

वनपरिक्षेत्र अधिकारी
दारव्हा (प्रा)

ABSTRACT

Sr. No	Particular of Work	Mandays	Rate per mandays	Wages	Material Supply	Total	Area in Ha.	Total Mandays	Total Wages	Total M.S.	Grand Total
1	2	3	4	5	6	7	8	9	10	11	12
1	P.P.O. + P.Y.O.	167.97	387.23	65043.02	193263.83	258306.85	1.00	168.00	65043.02	193263.83	258306.85
2	First Year Operation	192.65	387.23	74599.86	61569.64	136169.50	1.00	193.00	74599.86	61569.64	136169.50
3	Second Year Operation	162.36	426.00	69165.36	37824.06	106989.42	1.00	162.00	69165.36	37824.06	106989.42
4	Thirtd Year Operation	101.65	468.60	47633.19	17616.02	65249.21	1.00	102.00	47633.19	17616.02	65249.21
5	Forth Year Operation	40.50	515.50	20877.75	25.00	20902.75	1.00	41.00	20877.75	25.00	20902.75
6	Fifth Year Operation	40.50	567.10	22967.55	25.00	22992.55	1.00	41.00	22967.55	25.00	22992.55
7	Sixth Year Operation	40.50	623.80	25263.90	25.00	25288.90	1.00	41.00	25263.90	25.00	25288.90
8	Seventh Year Operation	40.50	686.20	27791.10	25.00	27816.10	1.00	41.00	27791.10	25.00	27816.10
9	Eighth Year Operation	40.50	754.80	30569.40	25.00	30594.40	1.00	41.00	30569.40	25.00	30594.40
10	Nineth Year Operation	40.50	830.30	33627.15	25.00	33652.15	1.00	41.00	33627.15	25.00	33652.15
11	Ten Year Operation	40.50	913.30	36988.65	25.00	37013.65	1.00	41.00	36988.65	25.00	37013.65
	TOTAL :	908.13		454526.93	310448.55	764975.48		912.00	454526.93	310448.55	764975.48
		Equipment and contigency charges 3% :				22949.26					22949.26
			Labour Welfare charges 4% :			30599.02					30599.02
				Grand Total :		818523.76					818523.76

Rupees eight lakhs eighteen thousand five hundred twenty-four and paise nil only — Say Rs. 818524

Note :-

1) Rate of chain linked fencing derivd from SSR 2017-18 with additiona for area ifference and transportation lead.
2) Plantation M.D. And M.S. Component derived from rate structure as approved by PCCF (HOFF) M.S. Vide letter No.Desk-1/EGS/CR-10/2282/ 2017-18/Nagpur,Date 7.3.2018

Range Forest Officer (T)
वनक्षेत्र अधिकारी
दारव्हा (प्रा)

Sub-Divisional Forest Officer
Darwha

(K. J. Weble)
Dy. Conservator of Forest
Yavatmal Division, Yavatmal
Dy.Conservator of Forest
Yavatmal Division,Yavatmal