

Compensatory Afforestation Scheme for Diversion of 5.733 ha Restored Private Forest land at village Kalote Mokashi Taluka Khalapur Dist. Rajgad by Mr. Govind Vaghant

Enclosure to Principal Chief Conservator of Forest (HoFF), M. S. Nagpur Letter No. Desk-17/CA/Nodal Cell/CR-40/1127/2019-20, Date 04/10/2019

Model Rate Structure for Compensatory Afforestation Model No.4.

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

Compensatory Afforestation Site : Survey No. 15 total area 6.605 ha of Village Nigudwadi Tauka Sangmeshwar, District Ratnagiri Area : 5.733 ha.

Spacing		wage rate		Rs. 413.69		Rs. 413.69 (year 2022)				
3m x 3m		0.45 x 0.45 x 0.45m								
Size of Pits		1111 per ha				For 5.733 ha.				
Sr. No	Particulars of works	Man days	Wages	Material supply	Total (Rs. Per Ha.)	Sanction Letter Dt. /Model No. /Item No.	Man days	Wages	Material supply	Total (Rs. For 5.733 Ha.)
A. Pre Monsoon Works PPO/PYO										
1	(a) Survey and demarcation	1.00	413.69	91.00	504.69	Letter Dt. 07/03/2018 Irrigated & fencing Plantation Model no. 1 Item No. 1a	6	2372	522	2893
	(b) Preparation of treatment map (100 m x 50 m grid)	1.00	413.69	91.00	504.69	Item No. 1b	6	2372	522	2893
	(c) Digging trial pits of size 0.30x0.30x0.60 in corner of Grid.	0.40	165.48	36.40	201.88	Item No. 1c	2	949	209	1157
	(d) Fixing 60cm x 0.05cm x12cm 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	0.00	0.00	Item No. 1d	0	0	0	0
	(e) Clearing of bushes and preparation of site (As per requirement)	10.00	4136.90	910.00	5046.90	Item No. 1e	57	23717	5217	28934
2	Soil and moisture conservation works including collection of rubbles from areas upto 30 m etc	31.00	12824.39	2821.00	15645.39	Item No. 2	178	73522	16173	89695

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. length 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 50mmx50mm, 8 gauge thick and fixed 75mm above ground level complete as per SSR item No.1744 for 2017-18)	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0
4	Alignment of pits at 3m x 3m spacement. 1111 pits per 100 pits 0.26 M.D, M/S 8.18 per 100 pits	2.89	1195.56	262.99	1458.55	Item No. 4	17	6854	1508		8362
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	30335.89	6673.03	37008.92	Item No. 5	420	173916	38256		212172
6	Construction of 5.00 Rmt wide Inspection Path 1M.D. per 100 Rmt	1.00	413.69	91.00	504.69	Item No. 6	6	2372	522		2893
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	310.27	68.25	378.52	Item No. 7	4	1779	391		2170
8	Providing and fixing (4 feet x 3 feet) information board each per site	0.00	0.00	0.00	0.00	Item No. 8	0	0	0		0
9	Part Nursery cost of raising 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.3.62 per plant)	46.70	19319.32	4249.70	23569.02	Item No. 9 20% Casualty replacement in place of 10%	268	110758	24364		135121
	Total	168.07	69528.88	15294.37	84823.25		964	398609	87683		486292
	Contingency 3%		0.00	2544.70	2544.70			0	14589		14589
	Labour Welfare 4%		0.00	3392.93	3392.93			0	19452		19452
	Grand Total	168.07	69528.88	21232.00	90760.88		964	398609	87683		520332

B. First Year Operations

1	Part Nursery cost for maintenance of 1333 seedling per ha Rs. 3.77 per seedling (Wages Rs.2.69, M & S Rs. 0.81)	14.80	6122.61	1346.80	7469.41	Letter Dt. 07/03/2018 Irrigated & fencing Plantation Model no. 1 Item No. 1 casualty replacement 20%	85	33916	7721	41638
2	Refilling of pits by good quality soil including application of single super phosphate (1.66 MD per 100 pits)	18.44	7628.44	1678.04	9306.48	Item No. 2	106	42258	9620	51878
3	Transportation of 1333 seedlings from Nursery to plantation site including loading & unloading (0.14 M.D. per 100 seedlings & M.S. Rs.1.82 Per seedlings)	1.87	773.60	170.17	943.77	Item No. 3 10% Extra Plants to be transported	11	4285	976	5261
4	Planting of 1111 seedlings (1.0 M.D per 100 seedlings)	11.11	4596.10	1011.01	5607.11	Item No. 4	64	25460	5796	31256
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	18384.38	4044.04	22428.42	Item No. 5	255	101841	23184	125026
6	Casualty replacement (20% 222 Seedlings per ha.) (2 M.D. per 100 seedlings)	4.44	1836.78	404.04	2240.82	Item No. 6 20% instead of 10%	25	10175	2316	-12491
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 seedling.)	7.78	3218.51	707.98	3926.49	Item No. 8 20% instead of 10%	45	17829	4059	21888
8	Watch and ward (10 months-1 watcher per 10 ha)	27.38	11326.83	2491.58	13818.41	Item No. 9	157	62745	14284	77030
9	Soil working for naturally grower plants and singling (1.15 M.D. per 100 plants)	1.15	475.74	104.65	580.39	Item No. 10	7	2635	600	3235
10	Fire tracing	2.00	827.38	182.00	1009.38	Item No. 12	11	4583	1043	5627
	Total	133.41	55190.38	12140.31	67330.69		764.84	305729.31	69600.40	375329.70
	Contingency 3%		0.00	2019.92	2019.92			0.00	11259.89	11259.89
	Labour Welfare 4%		0.00	2693.23	2693.23			0.00	15013.19	15013.19
	Grand Total	133.41	55190.38	7174.64	72043.84		764.84	305729.31	69600.40	401602.78

C. Second Year Operations

1	Part nursery cost for seedlings for causality replacement (222 seedlings per ha) labour rate @ Rs.3.77 and M.S. Rs.1.82 per seedlings.	2.46	1017.68	223.86	1241.54	Letter Dt. 07/03/2018 Irrigated & fencing Plantation Model no. 1 Item No. 1 causality replacement 20%	14	5637	1283	6921
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 seedlings	0.31	128.24	28.21	156.45	Item No. 2 20% instead of 10%	2	710	162	872
3	Planting for causality replacement 222 seedlings (2.00 M.D. per 100 seedlings)	4.44	1836.78	404.04	2240.82	Item No. 3 20% instead of 10%	25	10175	2316	12491
4	2 weedings and 1 soil working, with fertilizer application 2.5 M.D. per 100 seedlings at M.S. Rs. 0.82 per seedling	27.77	11488.17	2527.07	14015.24	Item No. 4	159	63639	14488	78127
5	Watch and ward 12 months -1 watcher per 10.00 ha.	36.50	15099.69	3321.50	18421.19	Item No. 6	209	83645	19042	102687
6	Fire tracing	2.00	827.38	182.00	1009.38	Item No. 8	11	4583	1043	5627
	Total	73.48	30397.94	6686.68	37084.62		421.26	168390.60	38334.74	206725.33
	Contingency 3%		0.00	1112.54	1112.54			0.00	6201.76	6201.76
	Labour Welfare 4%		0.00	1483.38	1483.38			0.00	8269.01	8269.01
	Grand Total	73.48	30397.94	1719.06	39680.54		421.26	168390.60	38334.74	221196.11

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	6896.21	1516.97	8413.18	Letter Dt. 07/03/2018 Irrigated & fencing Plantation Model no. 1 Item No. 1	96	38202	8697	46899
2	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	15099.69	3321.50	18421.19	Item No. 3	209	83645	19042	102687
3	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	827.38	182.00	1009.38	Item No. 5	11	4583	1043	5627
4	Fire tracing	2.00	827.38	182.00	1009.38	Item No. 6	11	4583	1043	5627
	Total	57.17	23650.66	5202.47	28853.13		327.76	131013.75	29825.76	160839.51
	Contingency 3%		0.00	865.59	865.59			0.00	4825.19	4825.19
	Labour Welfare 4%		0.00	1154.13	1154.13			0.00	6433.58	6433.58
	Grand Total	57.17	23650.66	936.02	30872.85		327.76	131013.75	29825.76	172098.28

E. Fourth Year Operations

1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	15099.69	3321.50	18421.19	Letter Dt. 07/03/2018 Irrigated & fencing Plantation Model no. 1 Item No. 1	209	83645	19042	102687
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	827.38	182.00	1009.38	Item No. 2	11	4583	1043	5627
3	Fire tracing	2.00	827.38	182.00	1009.38	Item No. 3	11	4583	1043	5627
	Total	40.50	16754.45	3685.50	20439.95		232.19	92811.91	21128.97	113940.88
	Contingency 3%		0.00	613.20	613.20			0.00	3418.23	3418.23
	Labour Welfare 4%		0.00	817.60	817.60			0.00	4557.64	4557.64
	Grand Total	40.50	16754.45	25.00	21870.74		232.19	92811.91	21128.97	121916.74

F. Fifth Year Operations

1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	15099.69	3321.50	18421.19	Letter Dt. 07/03/2018 Irrigated & fencing Plantation Model no. 1 Item No. 1	209	83645	19042	102687
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	827.38	182.00	1009.38	Item No. 2	11	4583	1043	5627
3	Fire tracing	2.00	827.38	182.00	1009.38	Item No. 3	11	4583	1043	5627
	Total	40.50	16754.45	3685.50	20439.95		232.19	92811.91	21128.97	113940.88
	Contingency 3%		0.00	613.20	613.20			0.00	3418.23	3418.23
	Labour Welfare 4%		0.00	817.60	817.60			0.00	4557.64	4557.64
	Grand Total	40.50	16754.45	25.00	21870.74		232.19	92811.91	21128.97	121916.74

G. Sixth Year Operations

1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	15099.69	3321.50	18421.19	Letter Dt. 07/03/2018 Irrigated & fencing Plantation Model no. 1 Item No. 1	209	83645	19042	102687
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	827.38	182.00	1009.38	Item No. 2	11	4583	1043	5627
3	Fire tracing	2.00	827.38	182.00	1009.38	Item No. 3	11	4583	1043	5627
	Total	40.50	16754.45	3685.50	20439.95		232.19	92811.91	21128.97	113940.88
	Contingency 3%		0.00	613.20	613.20			0.00	3418.23	3418.23
	Labour Welfare 4%		0.00	817.60	817.60			0.00	4557.64	4557.64
	Grand Total	40.50	16754.45	25.00	21870.74		232.19	92811.91	21128.97	121916.74

H) Seventh Year Operation.

1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	15099.69	3321.50	18421.19	Letter Dt. 07/03/2018 Irrigated & fencing Plantation Model no. 1 Item No. 1	209	83645	19042	102687
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	827.38	182.00	1009.38	Item No. 2	11	4583	1043	5627
3	Fire tracing	2.00	827.38	182.00	1009.38	Item No. 3	11	4583	1043	5627
	Total	40.50	16754.45	3685.50	20439.95		232.19	92811.91	21128.97	113940.88
	Contingency 3%		0.00	613.20	613.20			0.00	3418.23	3418.23
	Labour Welfare 4%		0.00	817.60	817.60			0.00	4557.64	4557.64
	Grand Total	40.50	16754.45	25.00	21870.74		232.19	92811.91	21128.97	121916.74
I. Eighth Year Operations										
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	15099.69	3321.50	18421.19	Letter Dt. 07/03/2018 Irrigated & fencing Plantation Model no. 1 Item No. 1	209	83645	19042	102687
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	827.38	182.00	1009.38	Item No. 2	11	4583	1043	5627
3	Fire tracing	2.00	827.38	182.00	1009.38	Item No. 3	11	4583	1043	5627
	Total	40.50	16754.45	3685.50	20439.95		232.19	92811.91	21128.97	113940.88
	Contingency 3%		0.00	613.20	613.20			0.00	3418.23	3418.23
	Labour Welfare 4%		0.00	817.60	817.60			0.00	4557.64	4557.64
	Grand Total	40.50	16754.45	25.00	21870.74		232.19	92811.91	21128.97	121916.74
J. Ninth Year Operations										
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	15099.69	3321.50	18421.19	Letter Dt. 07/03/2018 Irrigated & fencing Plantation Model no. 1 Item No. 1	209	83645	19042	102687
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	827.38	182.00	1009.38	Item No. 2	11	4583	1043	5627
3	Fire tracing	2.00	827.38	182.00	1009.38	Item No. 3	11	4583	1043	5627
	Total	40.50	16754.45	3685.50	20439.95		232.19	92811.91	21128.97	113940.88
	Contingency 3%		0.00	613.20	613.20			0.00	3418.23	3418.23
	Labour Welfare 4%		0.00	817.60	817.60			0.00	4557.64	4557.64
	Grand Total	40.50	16754.45	25.00	21870.74		232.19	92811.91	21128.97	121916.74

K. Tenth Year Operations

1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	15099.69	3321.50	18421.19	Letter Dt. 07/02/2018 Irrigated & Fencing Plantation Model no. 1 Item No. 1	209	83645	19042	102687
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	827.38	182.00	1009.38	Item No. 2	11	4583	1043	5627
3	Fire tracing	2.00	827.38	182.00	1009.38	Item No. 3	11	4583	1043	5627
	Total	40.50	16754.45	3685.50	20439.95		232.19	92811.91	21128.97	113940.88
	Contingency 3%		0.00	613.20	613.20			0.00	3418.23	3418.23
	Labour Welfare 4%		0.00	817.60	817.60			0.00	4557.64	4557.64
	Grand Total	40.50	16754.45	25.00	21870.74		232.19	92811.91	21128.97	121916.74


Range Forest Officer Ratnagiri
Range Forest Officer
Ratnagiri


(D.P. Khade)
Divisional Forest Officer
Ratnagiri Forest Division (Chiplun)

Compensatory Afforestation Scheme for Diversion of 7.33 ha Restored Private forest land at village Kalote Mokashi Taluka Khalapur Dist. Raigad

Abstract for Model No.4

S. N.	Year of operation	Man days	Wages	Material supply	Total	Man days	Wages	Material supply	Total
1	Pre Monsoon works	168	69529	21232	90761	964	398609	87683	520332
2	First Year Operations	133	55190	7175	72044	765	305729	69600	401603
3	Second Year Operations	73	30398	1719	39681	421	168391	38335	221196
4	Third Year Operations	57	23651	936	30873	328	131014	29826	172098
5	Fourth Year Operations	41	16754	25	21871	232	92812	21129	121917
6	Fifth Year Operations	41	16754	25	21871	232	92812	21129	121917
7	Sixth Year Operations	41	16754	25	21871	232	92812	21129	121917
8	Seventh Year Operations	41	16754	25	21871	232	92812	21129	121917
9	Eighth Year Operations	41	16754	25	21871	232	92812	21129	121917
10	Ninth Year Operations	41	16754	25	21871	232	92812	21129	121917
11	Tenth Year Operations	41	16754	3686	20440	232	92812	21129	121917
Total		716	296049	34897	385022	4103	1653426	373346	2168646

Cost per plant 346.55

1. Rates of chain linked fencing derived from SSR-2017-18 with addition for area difference 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-10/22282/2017-18/Nagpur, Dated 07/03/2018.

C.S.

(Signature)
(ASHISH THAKARE IFS)
 Deputy Conservator of Forests
 Alibag

(Signature)
Range Forest Officer
Range Forest Officer
 Ratnagiri

(Signature)
Divisional Forest Officer
 Ratnagiri Forest Division (Chiplum)