

Compensatory Afforestation Scheme for 2.40 ha. Degraded forest land in RF Compartment No. 403 of Babupeth Beat, Round Chandrapur, Range Chandrapur in Chandrapur Forest Division against diversion of 1.19039 Ha. forest land for Laying Optical Fiber Cable of Telesonic Network Limited Project within RoW of Existing Road NH 930 Ajaypur to Chandrapur (Km. Ch. 251/820 To 271/420), MDR -21 Chiroli To Ajaypur (Km.34/30 to 19/00) & NH-930 Mul to Janala (Km.230/850 to 239/250) in District Chandrapur in the State of Maharashtra.

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.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.

Compensatory Afforestation Site : in RF Compartment No. 403 of Babupeth Beat, Round Chandrapur, Range Chandrapur in Chandrapur Forest Division
Area : 2.40 ha.

Spacing		3m x 3m						Rs. 418.93 (year 2021)		
Size of Pits		0.45 x 0.45 x 0.45m								
No. of Seedlings		1111 per ha			wage rate	Rs. 339.61		For 2.40 ha.		
					(Amount in Rs.)					
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 3.84 Ha.)
A. Pre Monsoon Works PPO/PYO										
1	(a) Survey and demarcation	1.00	339.61	91.00	430.61	Letter Dt. 07/03/2018 Irrigated & fencing Plantation Model no. 1 Item No. 1a	2.40	1005.43	218.40	1223.83
	(b) Preparation of treatment map (100 m x 50 m grid)	1.00	339.61	91.00	430.61	Item No. 1b	2.40	1005.43	218.40	1223.83
	(c) Digging trial pits of size 0.30x0.30x0.60 in corner of Grid.	0.40	135.84	0.00	135.84	Item No. 1c	0.96	402.17	0.00	402.17
	(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	225.00	225.00	Item No. 1d	0.00	0.00	540.00	540.00

	(c) Clearing of bushes and preparation of site (As per requirement)	10	3396.10	91.00	3487.10	10	24.00	10054.32	218.40	10272.72
2	Soil and moisture conservation works including collection of rubbles from areas upto 30 m etc	31.00	10527.91	0.00	10527.91	Item No. 2	74.40	31168.39	0.00	31168.39
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 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	182865.60	182865.60	As per SSR rates 201718 Item No. 1744	0.00	0.00	438877.44	438877.44
4	Alignment of pits at 3m x 3m spacement. 1111 pits per Ha (0.25 per 100 pits and M&S @ Rs. 2.24 per 50 pits.	2.78	944.12	49.77	993.89	Item No. 4	6.67	2795.10	119.45	2914.55
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	24903.60	0.00	24903.60	Item No. 5	175.99	73728.33	0.00	73728.33
6	Construction of 5.00 Rmt wide Inspection Path 1M.D. per 100 Rmt	1.00	339.61	0.00	339.61	Item No. 6	2.40	1005.43	0.00	1005.43
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	254.71	25.00	279.71	Item No. 7	1.80	754.07	60.00	814.07
8	Providing and fixing (4 feet x 3 feet) information board each per site	0.00	0.00	5000.00	5000.00	Item No. 8	0.00	0.00	12000.00	12000.00
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)	46.71	15863.18	4825.46	20688.64	Item No. 9 20% Casualty replacement in place of 10%	112.10	46963.73	11581.10	58544.83
	Total	167.97	57044.29	193263.83	250308.12		403.13	168882.41	463833.19	632715.61
	Contingency 3%		0.00	7509.24	7509.24			0.00	18981.47	18981.47
	Labour Welfare 4%		0.00	10012.32	10012.32			0.00	25308.62	25308.62
	Grand Total	167.97	57044.29	193263.83	267829.69		403.13	168882.41	463833.19	677005.70

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	5062.23	1079.73	6141.96	Letter Dt. 07/03/2018 Irrigated & fencing Plantation Model no. 1 Item No. 1 casualty replacement	35.52	14880.39	2591.35	17471.75
2	Refilling of pits by good quality soil including application of single super phosphate (1.66 MD per 100 pits)	18.44	6262.41	1944.25	8206.66	Item No. 2	44.26	18540.17	4666.20	23206.37
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	635.07	2426.00	3061.07	Item No. 3 10% Extra Plants to be transported	4.49	1880.16	5822.40	7702.56
4	Planting of 1111 seedlings (1.0 M.D per 100 seedlings)	11.11	3773.07	0.00	3773.07	Item No. 4	26.66	11170.35	0.00	11170.35
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	15092.27	911.02	16003.29	Item No. 5	106.66	44681.40	2186.45	46867.85
6	Watering 1111 seedlings November and December 1 time 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 drums @Rs.400/- each for supplying water and water supply at @Rs.0.05 per litre and wages for watering 1 M.D. for 150 seedlings.	59.25	20121.89	54395.00	74516.89	Item No. 7	142.20	59571.85	130548.00	190119.85
7	Casualty replacement (20% 222 Seedlings per ha.) (2 M.D. per 100 seedlings)	4.44	1507.87	0.00	1507.87	Item No. 6 20% instead of 10%	10.66	4464.12	0.00	4464.12
8	Part Nursery cost for casualty replacement in SYO (222 seedlings per ha.) (wages Rs. 11.90 and material supply Rs.3.62 total Rs.12.55 per seedling.)	7.77	2638.77	803.64	3442.41	Item No. 8 20% instead of 10%	18.65	7812.21	1928.74	9740.94
9	Watch and ward (10 months-1 watcher per 10 ha)	27.38	9298.52	0.00	9298.52	Item No. 9	65.71	27528.73	0.00	27528.73
10	Soil working for naturally grower plants and singling (1.15 M.D. per 100 plants)	1.15	390.55	10.00	400.55	Item No. 10	2.76	1156.25	24.00	1180.25
11	Fire tracing	2.00	679.22	0.00	679.22	Item No. 12	4.80	2010.86	0.00	2010.86
	Total	192.65	65461.87	61569.64	127031.51		462.36	193696.47	147767.14	341463.61
	Contingency 3%		0.00	3810.95	3810.95			0.00	10243.91	10243.91
	Labour Welfare 4%		0.00	5081.26	5081.26			0.00	13658.54	13658.54
	Grand Total	192.65	65461.87	61569.64	135923.72		462.36	193696.47	147767.14	365366.06

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	835.44	404.00	1239.44	Letter Dt. 07/03/2018 Irrigated & fencing Plantation Model no. 1 Item No. 1 causality replacement 20%	5.90	2473.36	969.60	3442.96
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	105.28	404.04	509.32	Item No. 2 20% instead of 10%	0.74	311.68	969.70	1281.38
3	Planting for causality replacement 222 seedlings (2.00 M.D. per 100 seedlings)	4.44	1507.87	0.00	1507.87	Item No. 3 20% instead of 10%	10.66	4464.12	0.00	4464.12
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	9430.97	911.02	10341.99	Item No. 4	66.65	27920.85	2186.45	30107.29
5	Watering 1111 seedlings in November, December, January and June 1 time each and in 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 seedlings per M.D.	88.88	30184.54	36105.00	66289.54	Item No. 5	213.31	89362.80	86652.00	176014.80
6	Watch and ward 12 months -1 watcher per 10.00 ha.	36.50	12395.77	0.00	12395.77	Item No. 6	87.60	36698.27	0.00	36698.27
7	Fire tracing	2.00	679.22	0.00	679.22	Item No. 8	4.80	2010.86	0.00	2010.86
	Total	162.36	55139.08	37824.06	92963.14		389.66	163241.94	90777.74	254019.68
	Contingency 3%		0.00	2788.89	2788.89			0.00	7620.59	7620.59
	Labour Welfare 4%		0.00	3718.53	3718.53			0.00	10160.79	10160.79
	Grand Total	162.36	55139.08	37824.06	99470.56		389.66	163241.94	90777.74	271801.06

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	5661.30	911.02	6572.32	Letter Dt. 07/03/2018 Irrigated & fencing Plantation Model no. 1 Item No. 1	40.01	16760.55	2186.45	18947.00
2	Watering 556 seedlings in November, December, January and June 1 time 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	15105.85	16680.00	31785.85	Item No. 2	106.75	44721.62	40032.00	84753.62

3	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	12395.77	0.00	12395.77	Itc Jo. 3	87.60	36698.27	0.00	36698.27
4	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	679.22	25.00	704.22	Item No. 5	4.80	2010.86	60.00	2070.86
5	Fire tracing	2.00	679.22	0.00	679.22	Item No. 6	4.80	2010.86	0.00	2010.86
	Total	101.65	34521.36	17616.02	52137.38		243.96	102202.16	42278.45	144480.61
	Contingency 3%		0.00	1564.12	1564.12			0.00	4334.42	4334.42
	Labour Welfare 4%		0.00	2085.50	2085.50			0.00	5779.22	5779.22
	Grand Total	101.65	34521.36	17616.02	55787.00		243.96	102202.16	42278.45	154594.25

E. Fourth Year Operations

1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	12395.77	0.00	12395.77	Letter Dt. 07/03/2018 Irrigated & fencing Plantation Model no. 1 Item No. 1	87.60	36698.27	0.00	36698.27
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	679.22	25.00	704.22	Item No. 2	4.80	2010.86	60.00	2070.86
3	Fire tracing	2.00	679.22	0.00	679.22	Item No. 3	4.80	2010.86	0.00	2010.86
	Total	40.50	13754.21	25.00	13779.21		97.20	40720.00	60.00	40780.00
	Contingency 3%		0.00	413.38	413.38			0.00	1223.40	1223.40
	Labour Welfare 4%		0.00	551.17	551.17			0.00	1631.20	1631.20
	Grand Total	40.50	13754.21	25.00	14743.75		97.20	40720.00	60.00	43634.60

F. Fifth Year Operations

1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	12395.77	0.00	12395.77	Letter Dt. 07/03/2018 Irrigated & fencing Plantation Model no. 1 Item No. 1	87.60	36698.27	0.00	36698.27
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	679.22	25.00	704.22	Item No. 2	4.80	2010.86	60.00	2070.86
3	Fire tracing	2.00	679.22	0.00	679.22	Item No. 3	4.80	2010.86	0.00	2010.86
	Total	40.50	13754.21	25.00	13779.21		97.20	40720.00	60.00	40780.00
	Contingency 3%		0.00	413.38	413.38			0.00	1223.40	1223.40
	Labour Welfare 4%		0.00	551.17	551.17			0.00	1631.20	1631.20
	Grand Total	40.50	13754.21	25.00	14743.75		97.20	40720.00	60.00	43634.60

G. Sixth Year Operations

1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	12395.77	0.00	12395.77	Letter Dt. 07/03/2018 Irrigated & fencing Plantation Model no. 1 Item No. 1	87.60	36698.27	0.00	36698.27
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	679.22	25.00	704.22	Item No. 2	4.80	2010.86	60.00	2070.86
3	Fire tracing	2.00	679.22	0.00	679.22	Item No. 3	4.80	2010.86	0.00	2010.86
	Total	40.50	13754.21	25.00	13779.21		97.20	40720.00	60.00	40780.00
	Contingency 3%		0.00	413.38	413.38			0.00	1223.40	1223.40
	Labour Welfare 4%		0.00	551.17	551.17			0.00	1631.20	1631.20
	Grand Total	40.50	13754.21	25.00	14743.75		97.20	40720.00	60.00	43634.60

H. Seventh Year Operations

1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	12395.77	0.00	12395.77	Letter Dt. 07/03/2018 Irrigated & fencing Plantation Model no. 1 Item No. 1	87.60	36698.27	0.00	36698.27
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	679.22	25.00	704.22	Item No. 2	4.80	2010.86	60.00	2070.86
3	Fire tracing	2.00	679.22	0.00	679.22	Item No. 3	4.80	2010.86	0.00	2010.86
	Total	40.50	13754.21	25.00	13779.21		97.20	40720.00	60.00	40780.00
	Contingency 3%		0.00	413.38	413.38			0.00	1223.40	1223.40
	Labour Welfare 4%		0.00	551.17	551.17			0.00	1631.20	1631.20
	Grand Total	40.50	13754.21	25.00	14743.75		97.20	40720.00	60.00	43634.60

I. Eighth Year Operations

1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	12395.77	0.00	12395.77	Letter Dt. 07/03/2018 Irrigated & fencing Plantation Model no. 1 Item No. 1	87.60	36698.27	0.00	36698.27
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	679.22	25.00	704.22	Item No. 2	4.80	2010.86	60.00	2070.86
3	Fire tracing	2.00	679.22	0.00	679.22	Item No. 3	4.80	2010.86	0.00	2010.86
	Total	40.50	13754.21	25.00	13779.21		97.20	40720.00	60.00	40780.00
	Contingency 3%		0.00	413.38	413.38			0.00	1223.40	1223.40
	Labour Welfare 4%		0.00	551.17	551.17			0.00	1631.20	1631.20
	Grand Total	40.50	13754.21	25.00	14743.75		97.20	40720.00	60.00	43634.60

J. Ninth Year Operations

1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	12395.77	0.00	12395.77	Letter Dt. 07/03/2018 Irrigated & fencing Plantation Model no. 1 Item No. 1	87.60	36698.27	0.00	36698.27
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	679.22	25.00	704.22	Item No. 2	4.80	2010.86	60.00	2070.86
3	Fire tracing	2.00	679.22	0.00	679.22	Item No. 3	4.80	2010.86	0.00	2010.86
	Total	40.50	13754.21	25.00	13779.21		97.20	40720.00	60.00	40780.00
	Contingency 3%		0.00	413.38	413.38			0.00	1223.40	1223.40
	Labour Welfare 4%		0.00	551.17	551.17			0.00	1631.20	1631.20
	Grand Total	40.50	13754.21	25.00	14743.75		97.20	40720.00	60.00	43634.60
K. Tenth Year Operations										
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	12395.77	0.00	12395.77	Letter Dt. 07/03/2018 Irrigated & fencing Plantation Model no. 1 Item No. 1	87.60	36698.27	0.00	36698.27
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	679.22	25.00	704.22	Item No. 2	4.80	2010.86	60.00	2070.86
3	Fire tracing	2.00	679.22	0.00	679.22	Item No. 3	4.80	2010.86	0.00	2010.86
	Total	40.50	13754.21	25.00	13779.21		97.20	40720.00	60.00	40780.00
	Contingency 3%		0.00	413.38	413.38			0.00	1223.40	1223.40
	Labour Welfare 4%		0.00	551.17	551.17			0.00	1631.20	1631.20
	Grand Total	40.50	13754.21	25.00	14743.75		97.20	40720.00	60.00	43634.60


Range Forest Officer
Chandrapur


Asst. Conservator of Forests
Chandrapur


(Deepesh Malhotra)
Divisional Forests Officer,
Chandrapur Division, Chandrapur

Compensatory Afforestation Scheme for 2.40 ha. Degraded forest land in RF Compartment No. 403 of Babupeth Beat, Round Chandrapur, Range Chandrapur in Chandrapur Forest Division against diversion of 1.19039 Ha. forest land for Laying Optical Fiber Cable of Telesonic Network Limited Project within RoW of Existing

Abstract for Model No.5

S. N.	Year of operation	Man days	Wages	Material supply	Total	Other expenses	Total amt (rounded off)	Man days	Wages	Material supply	Total	Other expenses	Total	Total amt (rounded off)
1	Pre Monsoon works	167.97	57044.29	193263.83	250308.12	17521.57	267830	403.13	168882.41	463853.19	632715.61	44290.09	677005.70	1069958
2	First Year Operations	192.65	65425.87	61569.64	126995.51	8892.21	135888	462.36	193696.47	147767.14	341463.61	23902.45	365366.06	569388
3	Second Year Operations	162.36	55139.08	37824.06	92963.14	6507.42	99471	389.66	163241.94	90777.74	254019.68	17781.38	271801.06	422074
4	Third Year Operations	101.65	34521.36	17616.02	52137.38	3649.62	55787	243.96	102202.16	42278.45	144480.61	10113.64	154594.25	239332
5	Fourth Year Operations	40.50	13754.21	25.00	13779.21	964.54	14744	97.20	40720.00	60.00	40780.00	2854.60	43634.60	66620
6	Fifth Year Operations	40.50	13754.21	25.00	13779.21	964.54	14744	97.20	40720.00	60.00	40780.00	2854.60	43634.60	66620
7	Sixth Year Operations	40.50	13754.21	25.00	13779.21	964.54	14744	97.20	40720.00	60.00	40780.00	2854.60	43634.60	66620
8	Seventh Year Operations	40.50	13754.21	25.00	13779.21	964.54	14744	97.20	40720.00	60.00	40780.00	2854.60	43634.60	66620
9	Eighth Year Operations	40.50	13754.21	25.00	13779.21	964.54	14744	97.20	40720.00	60.00	40780.00	2854.60	43634.60	66620
10	Ninth Year Operations	40.50	13754.21	25.00	13779.21	964.54	14744	97.20	40720.00	60.00	40780.00	2854.60	43634.60	66620
11	Tenth Year Operations	40.50	13754.21	25.00	13779.21	964.54	14744	97.20	40720.00	60.00	40780.00	2854.60	43634.60	66620
Total		908.13	308410.03	310448.55	618858.58	43322.62	662181	2179.512	913062.962	745076.52	1658139.482	116069.76	1774209.25	2767092
							Cost per plant							
							596.02							
							Cost per plant							
							665.49							

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-10/2282/2017-18/Nagpur. Dated 07/03/2018.


Range Forest Officer
Chandrapur


Asst. Conservator of Forests
Chandrapur


(Deepesh Malhotra)
Divisional Forests Officer,
Chandrapur Division, Chandrapur