

[PROPOSAL NO. : FP/MH/ROAD/39684/2019] Proposal for diversion of 17.01 Ha. Forest land under Forest (Conservation) Act, 1980 for Rehabilitation and Up-gradation of Section - I - Shahpur Patgaon (KM 0+000 to KM 20+130) under Shahapur Forest Division part of NH-3 Shahpur - Murbad - Mhasa - Karjat - Khopoli-NH4 section of newly declared NH-548 A in the state of Maharashtra on Engineering, Procurement & Construction (EPC) Basis Contract"

Compensatory Afforestation Scheme

(As per Model Rate Structure for Compensatory Afforestation Model No. 6)

Model rate structure for plantation of tree species in degraded areas having medium quality, medium drained soil.

Name of Division :- Shahapur
Name of Round :- Birwadi
Name of Village :-Kukambe
Spacement of pits - 2.00 m x 2.00 m
Size of pits - 0.45 x 0.45 x 0.45 m
No.of Seedlings per ha - 2500 per ha.

Name of Range :- Shahapur
Name of Beat :- Birwadi
Protected Forest Survey No. 36/1 (Old 684)
Total Area of Patch:- 22.60 Ha. Workable Area :- 14.02 Ha.
Wage Rate:- 375.57

Sr. No.	Particulars of works	Mandays	Rate per Hectare			Rate for 14.02 Hectare		
			Wages Rs.	M&S Rs.	Total Rs.	Wages Rs.	M&S Rs.	Total Rs.
A. Pre Monsoon Works P.P.O./ P.Y.O.								
1	a.Survey & Demarcation	1.00	375.57	91.00	466.57	5265.49	1275.82	6541.31
	b.Preparation of treatment map (100m x 50m grid)	1.00	375.57	91.00	466.57	5265.49	1275.82	6541.31
	c. Digging trial pits of size 0.30 x 0.30 x 0.60 in corner of Grid	0.40	150.23	0.00	150.23	2106.20	0.00	2106.20
	d. Fixing 60cm x 0.05 cm x 12cm cement pillars upto 30cm deep in corner of Grid, painting with Grid No. etc complete (3 pillars, Rs. 75/- for each pillar)	0.00	0.00	225.00	225.00	0.00	3154.50	3154.50
	e. cleaning of bushes & preparation of site (as per requirement)	10.00	3755.70	91.00	3846.70	52654.91	1275.82	53930.73
2	Soil & Moisture Conservation work including collection of Rubbles from areas up to 30 m.etc.	31.00	11642.67	0.00	11642.67	163230.23	0.00	163230.23
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 50mm x 50m, 8 gauge thick and fixed 75mm above ground level complete as per SSR item No. 1744 for 2017-18)	0.00	0.00	182865.00	182865.00	0.00	2563767.30	2563767.30

4	Alignment of pits at spacement of 2m x 2m spacement 2500 pits per Ha 0.25 Per 100 pits & M&S @ Rs.2.24 per 50 pits.	6.25	2347.31	112.00	2459.31	87.63	32909.32	1570.24	34479.56
5	Digging of pits of size 0.45 x 0.45 x 0.45 m (2500 pits per ha) 6.60 M.D per 100 pits Note:- As per local conditions provision for mechanized digging can be made	165.00	61969.05	0.00	61969.05	2313.30	868806.08	0.00	868806.08
6	Construction of 5.00 Rmt wide Inspection Path 1 M.D. per 100 Rmt	1.00	375.57	0.00	375.57	14.02	5265.49	0.00	5265.49
7	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	70100.00	70100.00
8	Part Nursery cost of raising 3000 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)	105.00	39434.85	10860.00	50294.85	1472.10	552876.60	152257.20	705133.80
	Total	320.65	120426.52	199335.00	319761.52	4495.51	1688379.82	2794676.70	4483056.52
	Contengency 3%	0.00	0.00	9592.85	9592.85	0.00	0.00	134491.70	134491.70
	Labour welfare 4%	0.00	0.00	12790.46	12790.46	0.00	0.00	179322.26	179322.26
	Grand Total	320.65	120426.52	221718.31	342144.83	4495.51	1688379.82	3108490.66	4796870.47
B. First Year Operations									
1	Part Nursery cost of maintenance of 3000 seedlings per ha. (Wages Rs. 2.69, M&S Rs. 0.81)	33.30	12506.48	2430.00	14936.48	466.87	175340.86	34068.60	209409.46
2	Refilling of pits by good quality soil including application of single super phosphate (1.66 MD per 100 pits) @ 1.75	41.50	15586.16	4375.00	19961.16	581.83	218517.89	61337.50	279855.39
3	Transport of 3000 seedlings from Nursery to plantation site including loading & unloading (0.14 MD per 100 seedlings & M&S Rs. 1.82 per seedlings)	4.20	1577.39	5460.00	7037.39	58.88	22115.06	76549.20	98664.26
4	Planting of 2500 seedlings (1.0 MD per 100 seedlings)	25.00	9389.25	0.00	9389.25	350.50	131637.29	0.00	131637.29
5	3 seedlings (1 Rmt circular) and 2 soil workings (4.00 M.D per 100 seedlings) fertilizer application Rs.0.82 per seedling	100.00	37557.00	2050.00	39607.00	1402.00	526549.14	28741.00	555290.14
6	Watering 2500 seedlings November and December 1 time each, January to March 2 times each per seedlings 5 litre/ matka @ Rs. 25/- each and 100 litre capacity 25 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.	133.33	50074.75	122500.00	172574.75	1869.29	702047.97	1717450.00	2419497.97

7	Casualty replacement (20% 500 Seedlings per ha.) (2 M.D. per 100 seedlings)	10.00	3755.70	0.00	3755.70	140.20	52654.91	0.00	52654.91
8	Part Nursery cost for casualty replacement in SYO (500 seedlings per ha.) (Wages Rs. 11.90 and material supply Rs. 3.62 Total Rs. 12.55 per seedling)	17.50	6572.48	1810.00	8382.48	245.35	92146.10	25376.20	117522.30
9	Watch and ward (9 months -1 watcher per 10 ha.)	27.38	10283.11	0.00	10283.11	383.87	144169.15	0.00	144169.15
10	Fire tracing	2.00	751.14	0.00	751.14	28.04	10530.98	0.00	10530.98
	Total	394.21	148053.45	138625.00	286678.45	5526.82	2075709.36	1943522.50	4019231.86
	Contengency 3%	0.00	0.00	8600.35	8600.35	0.00	0.00	120576.96	120576.96
	Labour welfare 4%	0.00	0.00	11467.14	11467.14	0.00	0.00	160769.27	160769.27
	Grand Total	394.21	148053.45	158692.49	306745.94	5526.82	2075709.36	2224868.73	4300578.10
C. Second Year Operations									
1	Part Nursery cost for seedlings for casualty replacement (500 seedlings per ha) labour rate @ Rs. 3.77 and M.S. Rs. 1.82 per seedlings.	5.55	2084.41	910.00	2994.41	77.81	29223.48	12758.20	41981.68
2	Transportation of 500 seedlings for casualty replacement from nursery to plantation site (including loading and unloading) wages 0.14 M.D. per 100 seedlings & M.S. Rs. 1.82 per seedling	0.70	262.90	910.00	1172.90	9.81	3685.84	12758.20	16444.04
3	Planting for casualty replacement 500 seedlings (2.00 M.D. per 100 seedlings)	10.00	3755.70	0.00	3755.70	140.20	52654.91	0.00	52654.91
4	2 Weedings and 1 soil working with fertilizer application at 2.5 M.D. per 100 seedlings M.S. Rs. 0.82 per seedling	62.50	23473.13	2050.00	25523.13	876.25	329093.21	28741.00	357834.21
5	Watering 2500 seedlings November, December, January and June 1 time each and in February to May 2 times each total 12 times 5 litre per seedling, replacing 10% plastic can/ matka @ Rs. 25/- each replacing 250 cans, supplying water @Rs. 0.50/- per litre and watering 150 seedlings per M.D.	200.00	75114.00	81250.00	156364.00	2804.00	1053098.28	1139125.00	2192223.28
4	Watch and ward (12 months) -1 watcher per 10 ha	36.50	13708.31	0.00	13708.31	511.73	192190.44	0.00	192190.44
5	Fire tracing	2.00	751.14	0.00	751.14	28.04	10530.98	0.00	10530.98
	Total	317.25	119149.58	85120.00	204269.58	4447.85	1670477.15	1193382.40	2863859.55
	Contengency 3%	0.00	0.00	6128.09	6128.09	0.00	0.00	85915.79	85915.79
	Labour welfare 4%	0.00	0.00	8170.78	8170.78	0.00	0.00	114554.38	114554.38
	Grand Total	317.25	119149.58	99418.87	218568.45	4447.85	1670477.15	1393852.57	3064329.71

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	37.50	14083.88	2050.00	16133.88	525.75	197455.93	28741.00	226196.93
2	Watering 1250 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.	100.00	37557.00	37500.00	75057.00	1402.00	526549.14	525750.00	1052299.14
3	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	13708.31	0.00	13708.31	511.73	192190.44	0.00	192190.44
4	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October	2.00	751.14	25.00	776.14	28.04	10530.98	350.50	10881.48
5	Fire tracing	2.00	751.14	0.00	751.14	28.04	10530.98	0.00	10530.98
	Total	178.00	66851.46	39575.00	106426.46	2495.56	937257.47	554841.50	1492098.97
	Contengency 3%	0.00	0.00	3192.79	3192.79	0.00	0.00	44762.97	44762.97
	Labour welfare 4%	0.00	0.00	4257.06	4257.06	0.00	0.00	59683.96	59683.96
	Grand Total	178.00	66851.46	47024.85	113876.31	2495.56	937257.47	659288.43	1596545.90
E. Fourth Year Operation									
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	13708.31	0.00	13708.31	511.73	192190.44	0.00	192190.44
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October	2.00	751.14	25.00	776.14	28.04	10530.98	350.50	10881.48
3	Fire Tracing	2.00	751.14	0.00	751.14	28.04	10530.98	0.00	10530.98
	Total	40.50	15210.59	25.00	15235.59	567.81	213252.40	350.50	213602.90
	Contengency 3%	0.00	0.00	457.07	457.07	0.00	0.00	6408.09	6408.09
	Labour welfare 4%	0.00	0.00	609.42	609.42	0.00	0.00	8544.12	8544.12
	Grand Total	40.50	15210.59	1091.49	16302.08	567.81	213252.40	15302.70	228555.10
F. Fifth Year Operation									
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	13708.31	0.00	13708.31	511.73	192190.44	0.00	192190.44
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October	2.00	751.14	25.00	776.14	28.04	10530.98	350.50	10881.48
3	Fire Tracing	2.00	751.14	0.00	751.14	28.04	10530.98	0.00	10530.98
	Total	40.50	15210.59	25.00	15235.59	567.81	213252.40	350.50	213602.90
	Contengency 3%	0.00	0.00	457.07	457.07	0.00	0.00	6408.09	6408.09
	Labour welfare 4%	0.00	0.00	609.42	609.42	0.00	0.00	8544.12	8544.12
	Grand Total	40.50	15210.59	1091.49	16302.08	567.81	213252.40	15302.70	228555.10

G. Sixth Year Operation											
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	13708.31	0.00	13708.31	511.73	192190.44	0.00	192190.44		
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October	2.00	751.14	25.00	776.14	28.04	10530.98	350.50	10881.48		
3	Fire Tracing	2.00	751.14	0.00	751.14	28.04	10530.98	0.00	10530.98		
	Total	40.50	15210.59	25.00	15235.59	567.81	213252.40	350.50	213602.90		
	Contengency 3%	0.00	0.00	457.07	457.07	0.00	0.00	6408.09	6408.09		
	Labour welfare 4%	0.00	0.00	609.42	609.42	0.00	0.00	8544.12	8544.12		
	Grand Total	40.50	15210.59	1091.49	16302.08	567.81	213252.40	15302.70	228555.10		
H. Seventh Year Operation											
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	13708.31	0.00	13708.31	511.73	192190.44	0.00	192190.44		
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October	2.00	751.14	25.00	776.14	28.04	10530.98	350.50	10881.48		
3	Fire Tracing	2.00	751.14	0.00	751.14	28.04	10530.98	0.00	10530.98		
	Total	40.50	15210.59	25.00	15235.59	567.81	213252.40	350.50	213602.90		
	Contengency 3%	0.00	0.00	457.07	457.07	0.00	0.00	6408.09	6408.09		
	Labour welfare 4%	0.00	0.00	609.42	609.42	0.00	0.00	8544.12	8544.12		
	Grand Total	40.50	15210.59	1091.49	16302.08	567.81	213252.40	15302.70	228555.10		
I. Eighth Year Operation											
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	13708.31	0.00	13708.31	511.73	192190.44	0.00	192190.44		
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October	2.00	751.14	25.00	776.14	28.04	10530.98	350.50	10881.48		
3	Fire Tracing	2.00	751.14	0.00	751.14	28.04	10530.98	0.00	10530.98		
	Total	40.50	15210.59	25.00	15235.59	567.81	213252.40	350.50	213602.90		
	Contengency 3%	0.00	0.00	457.07	457.07	0.00	0.00	6408.09	6408.09		
	Labour welfare 4%	0.00	0.00	609.42	609.42	0.00	0.00	8544.12	8544.12		
	Grand Total	40.50	15210.59	1091.49	16302.08	567.81	213252.40	15302.70	228555.10		

J. Ninth Year Operation										
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	13708.31	0.00	13708.31	511.73	192190.44	0.00	192190.44	
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October	2.00	751.14	25.00	776.14	28.04	10530.98	350.50	10881.48	
3	Fire Tracing	2.00	751.14	0.00	751.14	28.04	10530.98	0.00	10530.98	
	Total	40.50	15210.59	25.00	15235.59	567.81	213252.40	350.50	213602.90	
	Contingency 3%	0.00	0.00	457.07	457.07	0.00	0.00	6408.09	6408.09	
	Labour welfare 4%	0.00	0.00	609.42	609.42	0.00	0.00	8544.12	8544.12	
	Grand Total	40.50	15210.59	1091.49	16302.08	567.81	213252.40	15302.70	228555.10	
K. Tenth Year Operation										
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	13708.31	0.00	13708.31	511.73	192190.44	0.00	192190.44	
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October	2.00	751.14	25.00	776.14	28.04	10530.98	350.50	10881.48	
3	Fire Tracing	2.00	751.14	0.00	751.14	28.04	10530.98	0.00	10530.98	
	Total	40.50	15210.59	25.00	15235.59	567.81	213252.40	350.50	213602.90	
	Contingency 3%	0.00	0.00	457.07	457.07	0.00	0.00	6408.09	6408.09	
	Labour welfare 4%	0.00	0.00	609.42	609.42	0.00	0.00	8544.12	8544.12	
	Grand Total	40.50	15210.59	1091.49	16302.08	567.81	213252.40	15302.70	228555.10	

(P. R. Chaudhari)
Range Forest Officer
(P. R. Chaudhari)
Range Forest Officer,
Shahapur (T.)

(R. H. Patil)
Assistant Conservator of Forests
(FILE & S&D) Shahapur
Shahapur

(V. T. Ghule)
Deputy Conservator of Forests
Shahapur Forest Division, Shahapur
Shahapur

Abstract

Sr. No.	Year of Operation	Rate per Hectare				Rate for 14.02 Hectare			
		Mandays	Wages	Material Supply	Total	Mandays	Wages	Material Supply	Total
1	Pre-monsoon Operations	320.65	120426.52	221718.31	342144.83	4495.51	1688379.82	3108490.66	4796870.47
2	First Year Operations	394.21	148053.45	158692.49	306745.94	5526.82	2075709.36	2224868.73	4300578.10
3	Second Year Operations	317.25	119149.58	99418.87	218568.45	4447.85	1670477.15	1393852.57	3064329.71
4	Third Year Operations	178.00	66851.46	47024.85	113876.31	2495.56	937257.47	659288.43	1596545.90
5	Fourth Year Operations	40.50	15210.59	1091.49	16302.08	567.81	213252.40	15302.70	228555.10
6	Fifth Year Operations	40.50	15210.59	1091.49	16302.08	567.81	213252.40	15302.70	228555.10
7	Sixth Year Operations	40.50	15210.59	1091.49	16302.08	567.81	213252.40	15302.70	228555.10
8	Seventh Year Operations	40.50	15210.59	1091.49	16302.08	567.81	213252.40	15302.70	228555.10
9	Eighth Year Operations	40.50	15210.59	1091.49	16302.08	567.81	213252.40	15302.70	228555.10
10	Ninth Year Operations	40.50	15210.59	1091.49	16302.08	567.81	213252.40	15302.70	228555.10
11	Tenth Year Operations	40.50	15210.59	1091.49	16302.08	567.81	213252.40	15302.70	228555.10
Total		1372.11	515323.35	531220.48	1046543.84	19236.98	7224833.40	7447711.20	14672544.60


(P. R. Choudhari)
 Range Forest Officer
 Shahapur
(P. R. Choudhari)
 Range Forest Officer,
 Shahapur (T.)




(R. H. Patil)
 Assistant Conservator of Forests
 (FLCS & CAMPA) Shahapur
Asstt. Conservator of Forest
(FLCS & CAMPA)
 Shahapur


(V. T. Ghule)
 Deputy Conservator of Forests
 Deputy Conservator of Forests,
 Shahapur Forest Division, Shahapur

[PROPOSAL NO. : FP/MH/ROAD/39684/2019] Proposal for diversion of 17.01 Ha. Forest land under Forest (Conservation) Act, 1980 for Rehabilitation and Up-gradation of Section – I – Shahpur Patgaon (KM 0+000 to KM 20+130) under Shahapur Forest Division part of NH-3 Shahpur – Murbad – Mhasa – Karjat – Khopoli-NH4 section of newly declared NH-548 A in the state of Maharashtra on Engineering, Procurement & Construction (EPC) Basis Contract”

Compensatory Afforestation Scheme

(As per Model Rate Structure for Compensatory Afforestation Model No. 6)

Model rate structure for plantation of tree species in degraded areas having medium quality, medium drained soil.

Name of Division :- Shahapur

Name of Range :- Dhasai

Name of Round :- Nadgaon

Name of Beat :- Hiv

Name of Village :- Ras

Protected Forest Survey No. 57, 69

Spacement of pits - 2.00 m x 2.00 m

Total Area of Patch:- 25.00 Ha. Workable Area :- 20.00 Ha.

Size of pits - 0.45 x 0.45 x 0.45 m

Wage Rate:- 375.57

No. of Seedlings per ha - 2500 per ha.

Sr. No.	Particulars of works	Mandays	Rate per Hectare		Mandays	Rate for 20.00 Hectare	
			Wages Rs.	M&S Rs.		Total Rs.	Wages Rs.
A. Pre Monsoon Works P.P.O./ P.Y.O.							
1	a. Survey & Demarcation	1.00	375.57	91.00	20.00	7511.40	9331.40
	b. Preparation of treatment map (100m x 50m grid)	1.00	375.57	91.00	20.00	7511.40	9331.40
	c. Digging trial pits of size 0.30 x 0.30 x 0.60 in corner of Grid	0.40	150.23	0.00	8.00	3004.56	3004.56
	d. Fixing 60cm x 0.05 cm x 12cm cement pillars upto 30cm deep in corner of Grid, painting with Grid No. etc complete (3 pillars, Rs. 75/- for each pillar)	0.00	0.00	225.00	0.00	0.00	4500.00
	e. cleaning of bushes & preparation of site (as per requirement)	10.00	3755.70	91.00	200.00	75114.00	76934.00
2	Soil & Moisture Conservation work including collection of Rubbles from areas up to 30 m.etc.	31.00	11642.67	0.00	620.00	232853.40	232853.40
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 50mm x 50m, 8 gauge thick and fixed 75mm above ground level complete as per SSR item No. 1744 for 2017-18)	0.00	0.00	182865.00	0.00	0.00	3657300.00

4	Alignment of pits at spacement of 2m x 2m spacement 2500 pits per Ha 0.25 Per 100 pits & M&S @ Rs.2.24 per 50 pits.	6.25	2347.31	112.00	2459.31	125.00	46946.25	2240.00	49186.25
5	Digging of pits of size 0.45 x 0.45 x 0.45 m (2500 pits per ha) 6.60 M.D per 100 pits Note:- As per local conditions provision for mechanized digging can be made	165.00	61969.05	0.00	61969.05	3300.00	1239381.00	0.00	1239381.00
6	Construction of 5.00 Rmt wide Inspection Path 1 M.D. per 100 Rmt	1.00	375.57	0.00	375.57	20.00	7511.40	0.00	7511.40
7	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	100000.00	100000.00
8	Part Nursery cost of raising 3000 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)	105.00	39434.85	10860.00	50294.85	2100.00	788697.00	217200.00	1005897.00
Total		320.65	120426.52	199335.00	319761.52	6413.00	2408530.41	3986700.00	6395230.41
Contingency 3%		0.00	0.00	9592.85	9592.85	0.00	0.00	191856.91	191856.91
Labour welfare 4%		0.00	0.00	12790.46	12790.46	0.00	0.00	255809.22	255809.22
Grand Total		320.65	120426.52	221718.31	342144.83	6413.00	2408530.41	4434366.13	6842896.54
B. First Year Operations									
1	Part Nursery cost of maintenance of 3000 seedlings per ha. (Wages Rs. 2.69, M&S Rs. 0.81)	33.30	12506.48	2430.00	14936.48	666.00	250129.62	48600.00	298729.62
2	Refilling of pits by good quality soil including application of single super phosphate (1.66 MD per 100 pits) @ 1.75	41.50	15586.16	4375.00	19961.16	830.00	311723.10	87500.00	399223.10
3	Transport of 3000 seedlings from Nursery to plantation site including loading & unloading (0.14 MD per 100 seedlings & M&S Rs. 1.82 per seedlings)	4.20	1577.39	5460.00	7037.39	84.00	31547.88	109200.00	140747.88
4	Planting of 2500 seedlings (1.0 MD per 100 seedlings)	25.00	9389.25	0.00	9389.25	500.00	187785.00	0.00	187785.00
5	3 seedlings (1 Rmt circular) and 2 soil workings (4.00 M.D per 100 seedlings) fertilizer application Rs.0.82 per seedling	100.00	37557.00	2050.00	39607.00	2000.00	751140.00	41000.00	792140.00
6	Watering 2500 seedlings November and December 1 time each, January to March 2 times each per seedlings 5 litre/ matka @ Rs. 25/- each and 100 litre capacity 25 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.	133.33	50074.75	122500.00	172574.75	2666.60	1001494.96	2450000.00	3451494.96

7	Casualty replacement (20% 500 Seedlings per ha.) (2 M.D. per 100 seedlings)	10.00	3755.70	0.00	3755.70	200.00	75114.00	0.00	75114.00
8	Part Nursery cost for casualty replacement in SYO (500 seedlings per ha.) (Wages Rs. 11.90 and material supply Rs. 3.62 Total Rs. 12.55 per seedling)	17.50	6572.48	1810.00	8382.48	350.00	131449.50	36200.00	167649.50
9	Watch and ward (9 months - 1 watcher per 10 ha.)	27.38	10283.11	0.00	10283.11	547.60	205662.13	0.00	205662.13
10	Fire tracing	2.00	751.14	0.00	751.14	40.00	15022.80	0.00	15022.80
	Total	394.21	148053.45	138625.00	286678.45	7884.20	2961068.99	2772500.00	5733568.99
	Contingency 3%	0.00	0.00	8600.35	8600.35	0.00	0.00	172007.07	172007.07
	Labour welfare 4%	0.00	0.00	11467.14	11467.14	0.00	0.00	229342.76	229342.76
	Grand Total	394.21	148053.45	158692.49	306745.94	7884.20	2961068.99	3173849.83	6134918.82
C. Second Year Operations									
1	Part Nursery cost for seedlings for casualty replacement (500 seedlings per ha) labour rate @ Rs. 3.77 and M.S. Rs. 1.82 per seedlings.	5.55	2084.41	910.00	2994.41	111.00	41688.27	18200.00	59888.27
2	Transportation of 500 seedlings for casualty replacement from nursery to plantation site (including loading and unloading) wages 0.14 M.D. per 100 seedlings & M.S. Rs. 1.82 per seedling	0.70	262.90	910.00	1172.90	14.00	5257.98	18200.00	23457.98
3	Planting for casualty replacement 500 seedlings (2.00 M.D. per 100 seedlings)	10.00	3755.70	0.00	3755.70	200.00	75114.00	0.00	75114.00
4	2 Weedings and 1 soil working with fertilizer application at 2.5 M.D. per 100 seedlings M.S. Rs. 0.82 per seedling	62.50	23473.13	2050.00	25523.13	1250.00	469462.50	41000.00	510462.50
5	Watering 2500 seedlings November, December, January and June 1 time each and in February to May 2 times each total 12 times 5 litre per seedling, replacing 10% plastic can/ matka @ Rs. 25/- each replacing 250 cans, supplying water @Rs. 0.50/- per litre and watering 150 seedlings per M.D.	200.00	75114.00	81250.00	156364.00	4000.00	1502280.00	1625000.00	3127280.00
4	Watch and ward (12 months) - 1 watcher per 10 ha	36.50	13708.31	0.00	13708.31	730.00	274166.10	0.00	274166.10
5	Fire tracing	2.00	751.14	0.00	751.14	40.00	15022.80	0.00	15022.80
	Total	317.25	119149.58	85120.00	204269.58	6345.00	2382991.65	1702400.00	4085391.65
	Contingency 3%	0.00	0.00	6128.09	6128.09	0.00	0.00	122561.75	122561.75
	Labour welfare 4%	0.00	0.00	8170.78	8170.78	0.00	0.00	163415.67	163415.67
	Grand Total	317.25	119149.58	99418.87	218568.45	6345.00	2382991.65	1988377.42	4371369.07

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	37.50	14083.88	2050.00	16133.88	750.00	281677.50	41000.00	322677.50
2	Watering 1250 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.	100.00	37557.00	37500.00	75057.00	2000.00	751140.00	750000.00	1501140.00
3	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	13708.31	0.00	13708.31	730.00	274166.10	0.00	274166.10
4	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October	2.00	751.14	25.00	776.14	40.00	15022.80	500.00	15522.80
5	Fire tracing	2.00	751.14	0.00	751.14	40.00	15022.80	0.00	15022.80
	Total	178.00	66851.46	39575.00	106426.46	3560.00	1337029.20	791500.00	2128529.20
	Contingency 3%	0.00	0.00	3192.79	3192.79	0.00	0.00	63855.88	63855.88
	Labour welfare 4%	0.00	0.00	4257.06	4257.06	0.00	0.00	85141.17	85141.17
	Grand Total	178.00	66851.46	47024.85	113876.31	3560.00	1337029.20	940497.04	2277526.24
E. Fourth Year Operation									
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	13708.31	0.00	13708.31	730.00	274166.10	0.00	274166.10
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October	2.00	751.14	25.00	776.14	40.00	15022.80	500.00	15522.80
3	Fire Tracing	2.00	751.14	0.00	751.14	40.00	15022.80	0.00	15022.80
	Total	40.50	15210.59	25.00	15235.59	810.00	304211.70	500.00	304711.70
	Contingency 3%	0.00	0.00	457.07	457.07	0.00	0.00	9141.35	9141.35
	Labour welfare 4%	0.00	0.00	609.42	609.42	0.00	0.00	12188.47	12188.47
	Grand Total	40.50	15210.59	1091.49	16302.08	810.00	304211.70	21829.82	326041.52
F. Fifth Year Operation									
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	13708.31	0.00	13708.31	730.00	274166.10	0.00	274166.10
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October	2.00	751.14	25.00	776.14	40.00	15022.80	500.00	15522.80
3	Fire Tracing	2.00	751.14	0.00	751.14	40.00	15022.80	0.00	15022.80
	Total	40.50	15210.59	25.00	15235.59	810.00	304211.70	500.00	304711.70
	Contingency 3%	0.00	0.00	457.07	457.07	0.00	0.00	9141.35	9141.35
	Labour welfare 4%	0.00	0.00	609.42	609.42	0.00	0.00	12188.47	12188.47
	Grand Total	40.50	15210.59	1091.49	16302.08	810.00	304211.70	21829.82	326041.52

G. Sixth Year Operation									
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	13708.31	0.00	13708.31	730.00	274166.10	0.00	274166.10
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October	2.00	751.14	25.00	776.14	40.00	15022.80	500.00	15522.80
3	Fire Tracing	2.00	751.14	0.00	751.14	40.00	15022.80	0.00	15022.80
	Total	40.50	15210.59	25.00	15235.59	810.00	304211.70	500.00	304711.70
	Contingency 3%	0.00	0.00	457.07	457.07	0.00	0.00	9141.35	9141.35
	Labour welfare 4%	0.00	0.00	609.42	609.42	0.00	0.00	12188.47	12188.47
	Grand Total	40.50	15210.59	1091.49	16302.08	810.00	304211.70	21829.82	326041.52
H. Seventh Year Operation									
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	13708.31	0.00	13708.31	730.00	274166.10	0.00	274166.10
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October	2.00	751.14	25.00	776.14	40.00	15022.80	500.00	15522.80
3	Fire Tracing	2.00	751.14	0.00	751.14	40.00	15022.80	0.00	15022.80
	Total	40.50	15210.59	25.00	15235.59	810.00	304211.70	500.00	304711.70
	Contingency 3%	0.00	0.00	457.07	457.07	0.00	0.00	9141.35	9141.35
	Labour welfare 4%	0.00	0.00	609.42	609.42	0.00	0.00	12188.47	12188.47
	Grand Total	40.50	15210.59	1091.49	16302.08	810.00	304211.70	21829.82	326041.52
I. Eighth Year Operation									
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	13708.31	0.00	13708.31	730.00	274166.10	0.00	274166.10
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October	2.00	751.14	25.00	776.14	40.00	15022.80	500.00	15522.80
3	Fire Tracing	2.00	751.14	0.00	751.14	40.00	15022.80	0.00	15022.80
	Total	40.50	15210.59	25.00	15235.59	810.00	304211.70	500.00	304711.70
	Contingency 3%	0.00	0.00	457.07	457.07	0.00	0.00	9141.35	9141.35
	Labour welfare 4%	0.00	0.00	609.42	609.42	0.00	0.00	12188.47	12188.47
	Grand Total	40.50	15210.59	1091.49	16302.08	810.00	304211.70	21829.82	326041.52

J. Ninth Year Operation									
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	13708.31	0.00	13708.31	730.00	274166.10	0.00	274166.10
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October	2.00	751.14	25.00	776.14	40.00	15022.80	500.00	15522.80
3	Fire Tracing	2.00	751.14	0.00	751.14	40.00	15022.80	0.00	15022.80
	Total	40.50	15210.59	25.00	15235.59	810.00	304211.70	500.00	304711.70
	Contingency 3%	0.00	0.00	457.07	457.07	0.00	0.00	9141.35	9141.35
	Labour welfare 4%	0.00	0.00	609.42	609.42	0.00	0.00	12188.47	12188.47
	Grand Total	40.50	15210.59	1091.49	16302.08	810.00	304211.70	21829.82	326041.52
K. Tenth Year Operation									
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	13708.31	0.00	13708.31	730.00	274166.10	0.00	274166.10
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October	2.00	751.14	25.00	776.14	40.00	15022.80	500.00	15522.80
3	Fire Tracing	2.00	751.14	0.00	751.14	40.00	15022.80	0.00	15022.80
	Total	40.50	15210.59	25.00	15235.59	810.00	304211.70	500.00	304711.70
	Contingency 3%	0.00	0.00	457.07	457.07	0.00	0.00	9141.35	9141.35
	Labour welfare 4%	0.00	0.00	609.42	609.42	0.00	0.00	12188.47	12188.47
	Grand Total	40.50	15210.59	1091.49	16302.08	810.00	304211.70	21829.82	326041.52


 (S. C. Toradmal)
 Range Forest Officer
 Dhasai
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Dhasai.

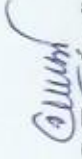

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 Assistant Conservator of Forests
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Asstt. Conservator of Forest
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 (V. T. Ghale)
 Deputy Conservator of Forests
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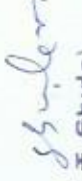
Abstract

Sr. No.	Year of Operation	Rate per Hectare				Rate for 20.00 Hectare			
		Mandays	Wages	Material Supply	Total	Mandays	Wages	Material Supply	Total
1	Pre-monsoon Operations	320.65	120426.52	221718.31	342144.83	6413.00	2408530.41	4434366.13	6842896.54
2	First Year Operations	394.21	148053.45	158692.49	306745.94	7884.20	2961068.99	3173849.83	6134918.82
3	Second Year Operations	317.25	119149.58	99418.87	218568.45	6345.00	2382991.65	1988377.42	4371369.07
4	Third Year Operations	178.00	66851.46	47024.85	113876.31	3560.00	1337029.20	940497.04	2277526.24
5	Fourth Year Operations	40.50	15210.59	1091.49	16302.08	810.00	304211.70	21829.82	326041.52
6	Fifth Year Operations	40.50	15210.59	1091.49	16302.08	810.00	304211.70	21829.82	326041.52
7	Sixth Year Operations	40.50	15210.59	1091.49	16302.08	810.00	304211.70	21829.82	326041.52
8	Seventh Year Operations	40.50	15210.59	1091.49	16302.08	810.00	304211.70	21829.82	326041.52
9	Eighth Year Operations	40.50	15210.59	1091.49	16302.08	810.00	304211.70	21829.82	326041.52
10	Ninth Year Operations	40.50	15210.59	1091.49	16302.08	810.00	304211.70	21829.82	326041.52
11	Tenth Year Operations	40.50	15210.59	1091.49	16302.08	810.00	304211.70	21829.82	326041.52
Total		1372.11	515323.35	531220.48	1046543.84	27442.20	10306467.05	10624409.69	20930876.75


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