

Plantation of mixed tree species having rainfall upto 800mm and medium quantity, medium drained soil.

Spacement - 3 m x 3 m Round- Year Beat- Panchpakhadi Survey No. Borivade. 418 Comp. No.1144
 Size of Pits - 0.45 x 0.45 x 0.45 m
 No. of Seedlings - 1111 per ha
 Plantation Area - 3.0 Ha

(Amount in Rs.)

Sr. No.	Particulars of works	1 Hactare				3.00 Hactare				Sanction Letter Dt./Model No./Item No.
		Man days	Wages	Material Supply	Total (Rs. Per Ha.)	Man days	Wages	Material Supply	Total (Rs. Per Ha.)	
A. Pre Monsoon Works PPO/PYO										
1	(a) Survey and demarcation	1.00	339.61	91.00	430.61	3.00	1018.83	273.00	1291.83	Letter Dt.07/03/2018 Irrigated & fencing Plantation Model No.1 Item No. 1a
	(b) Preparation of treatment map (100 m x 50 m grid)	1.00	339.61	91.00	430.61	3.00	1018.83	273.00	861.22	Item No. 1b
	(c) Digging trial pits of size 0.30x0.30x0.60 in corner of Grid.	0.40	135.84	0.00	135.84	1.20	163.01	0.00	497.52	Item No. 1c
	(d) Fixing 60cm x 0.05cm x 12cm cement pillars upto 30cm deep in corner of Grid, painting with Grid No. etc complete (3 pillars. Rs.75/- french pillars)	0.00	0.00	225.00	225.00	0.00	0.00	0.00	675.00	Item No. 3
	(e) Clearing of bushes and preparation of site (As per requirement)	10.00	3396.10	91.00	3487.10	30.00	101883.00	2730.00	10461.30	Item No. 1e
2	Soil and moisture conservation works including collection of rubbles from areas upto 30 m etc.	31.00	10527.91	0.00	10527.91	93.00	979095.63	0.00	11583.73	Item No. 12
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. land 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	182865.00	182865.0	0.00	0.00	0.00	518396.80	As per SSR rates 2017/18 Item No.1744

4	Alignment of pits at 3m x 3m spacing. 1111 pits per 100 pits 0.26 M.D. M & S Rs. 18 per 100 pits	2.89	981.47	91.00	1072.47	8.67	2944.41	273.00	3217.41	Item No.4
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	24903.6	219.99	74716.80	0.00	74716.80	Item No.5
6	Construction of 5.00 Rmt wide Inspection Path 1M.D. per 100 Rmt	1.00	339.61	0.00	339.61	3.00	1018.83	0.00	1018.83	Item No.6
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	2.25	764.13	75.00	839.13	Item No.7
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	15000.00	15000.00	Item No.8
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.3.60 per plant)	46.70	15859.79	4798.80	20658.59	140.10	47579.37	14396.40	61975.77	Item No.9 20% casualty instead of 10%
Total		168.07	57078.25	193277.80	250356.65	504.21	1210196.84	33020.40	750639.34	
Contingency 3%		0.00	0.00	5798.33	7510.70	0.00	0.00	990.61	22519.18	
Labour Welfare 4%		0.00	0.00	7731.11	10014.27	0.00	0.00	1320.82	30025.57	
Grand Total		168.07	57078.25	206807.25	267881.62	504.21	1210196.84	35331.83	803184.09	
B. First Year Operations										
1	Part Nursery cost for maintenance of 1333 seedling per ha Rs.2.64 per seedling (Wages Rs.2.69, M & S Rs. 0.81)	14.80	5026.23	1079.73	6105.96	44.40	15078.69	3239.19	18317.88	Letter Dt. 07/03/2018 Irrigated & forwring Plantation Model No.1 Item No.1 20% instead of 10%
2	Refilling of pits by good quality soil including application of single super phosphate (1.66 M.D per 100 pits)	18.44	6262.41	1944.25	8206.66	53.32	18787.23	5832.75	24619.98	Item No.2
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	2061.07	3.61	1985.21	7278.00	9183.21	Item No.3 15% plant instead of 12%
4	Planting of 1111 seedlings (1.0 M.D. per 100 seedlings)	11.11	3773.07	0.00	3773.07	33.53	11319.21	0.00	11319.21	Item No.4
5	2 seedlings of 1 Rmt circular and 2 soil workings (4.00 M.D. per seedlings) fertilizer application Rs.0.82 per seedling	44.44	15002.27	4011.02	19013.29	11.12	24070.41	2715.00	26785.41	

1	1 weeding and 1 soil working (1.50 M.L. per 100 seedlings) applying fertilizer @ Rs.0.82 per plant	10.67	5601.30	911.02	6572.32	50.01	16983.90	2713.06	19716.96	Letter Dt. 07/03/2018 Irrigated & fencing Plantation Model No.1 Item No.1
2	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	12395.77	0.00	12395.77	109.50	37187.31	0.00	37187.31	Item No.3
3	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	6.00	2037.66	75.00	2112.66	Item No.5
4	Fire tracing	2.00	679.22	0.00	679.22	6.00	2037.66	0.00	2037.66	Item No.6
	Total	57.17	19415.50	936.02	20351.52	171.51	58246.53	2808.06	61054.59	
	Contingency 3%		0.00	28.08	610.55		0.00	84.24	1831.64	
	Labour Welfare 4%		0.00	37.44	814.06		0.00	112.32	2442.18	
	Grand Total	57.17	19415.50	1001.54	21776.13	171.51	58246.53	3004.62	65328.41	
F. Fourth Year Operations										
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	12395.77	0.00	12395.77	109.50	37187.31	0.00	37187.31	Letter Dt. 07/03/2018 Irrigated & fencing Plantation Model No.1 Item No.1
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	6.00	2037.66	75.00	2112.66	Item No.2
3	Fire tracing	2.00	679.22	0.00	679.22	6.00	2037.66	0.00	2037.66	Item No.3
	Total	40.50	13754.21	25.00	13779.21	121.50	41262.63	75.00	41337.63	
	Contingency 3%		0.00	0.75	413.38	0.00	0.00	2.25	1240.13	
	Labour Welfare 4%		0.00	1.00	551.17	0.00	0.00	3.00	1653.51	
	Grand Total	40.50	13754.21	26.75	14743.75	121.50	41262.63	80.25	44231.26	
F. Fifth Year Operations										
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	12395.77	0.00	12395.77	109.50	37187.31	0.00	37187.31	Letter Dt. 07/03/2018 Irrigated & fencing Plantation Model No.1 Item No.1
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	6.00	2037.66	75.00	2112.66	Item No.2
3	Fire tracing	2.00	679.22	0.00	679.22	6.00	2037.66	0.00	2037.66	Item No.3
	Total	40.50	13754.21	25.00	13779.21	121.50	41262.63	75.00	41337.63	
	Contingency 3%		0.00	0.75	413.38	0.00	0.00	2.25	1240.13	
	Labour Welfare 4%		0.00	1.00	551.17	0.00	0.00	3.00	1653.51	
	Grand Total	40.50	13754.21	26.75	14743.75	121.50	41262.63	80.25	44231.26	
G. Sixth Year Operations										

1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	12395.77	0.00	12395.77	109.50	37187.31	0.00	37187.31	Letter Dt. 07/03/2018 Irrigated & fencing Plantation Model No. 1 Item No.1
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	6.00	2037.66	75.00	2112.66	Item No.2
3	Fire tracing	2.00	679.22	0.00	679.22	6.00	2037.66	0.00	2037.66	Item No.3
	Total	40.50	13754.21	25.00	13779.21	121.50	41262.63	75.00	41337.63	
	Contingency 3%		0.00	0.75	413.38	0.00	0.00	2.25	1210.13	
	Labour Welfare 4%		0.00	1.00	551.17	0.00	0.00	3.00	1653.51	
	Grand Total	40.50	13754.21	26.75	14743.75	121.50	41262.63	80.25	44231.26	
II. Seventh Year Operations										
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	12395.77	0.00	12395.77	109.50	37187.31	0.00	37187.31	Letter Dt. 07/03/2018 Irrigated & fencing Plantation Model No.1 Item No.1
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	6.00	2037.66	75.00	2112.66	Item No.2
3	Fire tracing	2.00	679.22	0.00	679.22	6.00	2037.66	0.00	2037.66	Item No.3
	Total	40.50	13754.21	25.00	13779.21	121.50	41262.63	75.00	41337.63	
	Contingency 3%		0.00	0.75	413.38	0.00	0.00	2.25	1210.13	
	Labour Welfare 4%		0.00	1.00	551.17	0.00	0.00	3.00	1653.51	
	Grand Total	40.50	13754.21	26.75	14743.75	121.50	41262.63	80.25	44231.26	
I. Eighth Year Operations										
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	12395.77	0.00	12395.77	109.50	37187.31	0.00	37187.31	Letter Dt. 07/03/2018 Irrigated & fencing Plantation Model No.1 Item No.1
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	6.00	2037.66	75.00	2112.66	Item No.2
3	Fire tracing	2.00	679.22	0.00	679.22	6.00	2037.66	0.00	2037.66	Item No.3
	Total	40.50	13754.21	25.00	13779.21	121.50	41262.63	75.00	41337.63	
	Contingency 3%		0.00	0.75	413.38	0.00	0.00	2.25	1210.13	
	Labour Welfare 4%		0.00	1.00	551.17	0.00	0.00	3.00	1653.51	
	Grand Total	40.50	13754.21	26.75	14743.75	121.50	41262.63	80.25	44231.26	
J. Ninth Year Operations										

The rates adopted are as per...

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1	Watch and ward 12 months 1 watcher per 10.00 ha	16.50	12495.77	0.00	12495.77	109.50	17187.41	0.00	17187.41	Letter Dr 07/03/2018 Irrigated & fencing Plantation Model No 1 Item No 1
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	701.22	6.00	2037.66	75.00	2112.66	Item No 2
	Fire tracing	2.00	679.22	0.00	679.22	6.00	2037.66	0.00	2037.66	Item No 3
	Total	40.50	13754.21	25.00	13779.21	121.50	41262.63	75.00	41337.63	
	Contingency 1%		0.00	0.75	113.38	0.00	0.00	2.25	1240.13	
	Labour Welfare 4%		0.00	1.00	551.17	0.00	0.00	1.00	1651.51	
	Grand Total	40.50	13754.21	26.75	14743.75	121.50	41262.63	80.25	44231.26	
5. Fenth Vent Operations										
1	Water and ward 12 months 1 watcher per 10.00 ha	16.50	12495.77	0.00	12495.77	109.50	17187.41	0.00	17187.41	Letter Dr 07/03/2018 Irrigated & fencing Plantation Model No 1 Item No 1
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	701.22	6.00	2037.66	75.00	2112.66	Item No 2
	Fire tracing	2.00	679.22	0.00	679.22	6.00	2037.66	0.00	2037.66	Item No 3
	Total	40.50	13754.21	25.00	13779.21	121.50	41262.63	75.00	41337.63	
	Contingency 1%		0.00	0.75	113.38	0.00	0.00	2.25	1240.13	
	Labour Welfare 4%		0.00	1.00	551.17	0.00	0.00	1.00	1651.51	
	Total	40.50	13754.21	26.75	14743.75	121.50	41262.63	80.25	44231.26	
	Grand Total	715.61	243035.13	217512.34	477560.57	2143.89	1768830.74	67447.11	1431130.91	


Conservator of Forests & Director
Sanjay Gandhi National Park
Borivali


Range Forest Officer
Year