

**Develoment of Vododara Mumbai Expressway (Phase-II SPUR) from KM 0+000 to KM 79+783 in the State of Maharastra Area
119.4411 ha.**

Compensatory Afforestation Scheme
(As per Model Rate Structure for Compensatory Afforestation Model No.5)

Name of Division :- Shahapur
Name of Round :- Sakadbav
Name of Village :- Sakadbav
Spacement of pits - 3.00 m x 3.00 m
Size of pits - 0.45 x 0.45 x 0.56 m
No.of Seedlings per ha - 1100 per ha.

Name of Range :- Washala
Name of Beat :- Sakadbav
Reserve Forest Com. No. 624
Area in Ha:- 30
Daily Wage Rate:- 418.96

Sr. No.	Particulars of works	Mandays	Rate per Hectare			Mandays	Rate for 30 Hectare		
			Wages Rs.	M&S Rs.	Total Rs.		Wages Rs.	M&S Rs.	Total Rs.
	P.P.O.+ P.Y.O. WORKS								
	a.Survey & Demarcation	1.00	418.96	91.00	509.96	30.00	12568.80	2730.00	15298.80
	b.Preparation of treatment map (100m x 50m grid)	1.00	418.96	91.00	509.96	30.00	12568.80	2730.00	15298.80
	c. Digging trial of size 0.30x0.30x0.60 in corner of grid	0.40	167.58	0.00	167.58	12.00	5027.52	0.00	5027.52
	d.Fixing 60cmx0.05cmx12cm cement pillars upto 30cm deep in corner of Grid,painting with Grid No.etc Complete (3 Pillers Rs.75/-for each pillers)	0.00	0.00	225.00	225.00	0.00	0.00	6750.00	6750.00
	e.Clearing of bushes and preparation of site(As per requirement)	10.00	4189.60	91.00	4280.60	300.00	125688.00	2730.00	128418.00
2	Soil & Moisture Conservation work including collection of Rubbles from areas up to 30 m.etc.	31.00	12987.76	0.00	12987.76	930.00	389632.80	0.00	389632.80
3	Providing and Fixing chain link fencing 102Rmt per ha (With one gate+two wickets gates for one site) (Rs.1494/- per Rmt of basic rate + 20% for transporation of ave leadplus 20% for tribble/remote area (by tender process)(Rs.1494+149+149=1792/- per Rmt(1.60 Rmt height with G.I Chain link size 50mmx50m, 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	0.00	5485950.00	5485950.00
4	Alignment of pits at at 3mx3m spacement 1111 pits per Ha (0.25 per 100 pits and M&S@Rs.2.24 per 50pits)	2.78	1164.71	49.77	1214.48	83.40	34941.26	1493.10	36434.36

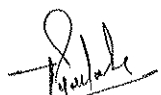
Sr. No.	Particulars of works	Mandays	Rate per Hectare			Mandays	Rate for 30 Hectare		
			Wages Rs.	M&S Rs.	Total Rs.		Wages Rs.	M&S Rs.	Total Rs.
7	Fire tracing	2.00	837.92	0.00	837.92	60.00	25137.60	0.00	25137.60
	Total	162.36	68022.35	37824.06	105846.41	4870.80	2040670.37	1134721.80	3175392.17
	Contengency 3%	0.00	0.00	3175.39	3175.39	0.00	0.00	95261.77	95261.77
	Labour welfare 4%	0.00	0.00	4233.86	4233.86	0.00	0.00	127015.69	127015.69
	Grand Total	162.36	68022.35	45233.31	113255.65	4870.80	2040670.37	1356999.25	3397669.62
	Third Year Operation								
1	1 Weedings and 1 soil working (1.50 M.D per 100 plants) applying fertilizer @ Rs. 0.82 per plant	16.67	6984.06	911.02	7895.08	500.10	209521.90	27330.60	236852.50
2	Watering 556 seedlings November and December January and June 1 times each and February to May 2 times each total 12 times per seedling 5 Litre ra supplying water @Rs.0.50/- per litre and watering 150 seedlings per M.D	44.48	18635.34	16680.00	35315.34	1334.40	559060.22	500400.00	1059460.22
3	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	15292.04	0.00	15292.04	1095.00	458761.20	0.00	458761.20
4	Counting of suvival percentage grid wise and species wise and to note the same on Register in May and October	2.00	837.92	25.00	862.92	60.00	25137.60	750.00	25887.60
5	Fire tracing	2.00	837.92	0.00	837.92	18.00	7541.28	540.00	8081.28
	Total	101.65	42587.28	17616.02	60203.30	3007.50	1260022.20	529020.60	1789042.80
	Contengency 3%	0.00	0.00	1806.10	1806.10	0.00	0.00	53671.28	53671.28
	Labour welfare 4%	0.00	0.00	2408.13	2408.13	0.00	0.00	71561.71	71561.71
	Grand Total	101.65	42587.28	21830.25	64417.54	3007.50	1260022.20	654253.60	1914275.80
	Fourth Year Operation								
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	15292.04	0.00	15292.04	1095.00	458761.20	0.00	458761.20
2	Counting of suvival percentage grid wise and species wise and to note the same on Register in May and	2.00	837.92	25.00	862.92	60.00	25137.60	750.00	25887.60
3	Fire tracing	2.00	837.92	0.00	837.92	60.00	25137.60	0.00	25137.60
	Total	40.50	16967.88	25.00	16992.88	1215.00	509036.40	750.00	509786.40
	Contengency 3%	0.00	0.00	509.79	509.79	0.00	0.00	15293.59	15293.59
	Labour welfare 4%	0.00	0.00	679.72	679.72	0.00	0.00	20391.46	20391.46
	Grand Total	40.50	16967.88	1214.50	18182.38	1215.00	509036.40	36435.05	545471.45
	Fifth Year Operation								
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	15292.04	0.00	15292.04	1095.00	458761.20	0.00	458761.20
2	Counting of suvival percentage grid wise and species wise and to note the same on Register in May and	2.00	837.92	25.00	862.92	60.00	25137.60	750.00	25887.60
3	Fire tracing	2.00	837.92	0.00	837.92	60.00	25137.60	0.00	25137.60
	Total	40.50	16967.88	25.00	16992.88	1215.00	509036.40	750.00	509786.40
	Contengency 3%	0.00	0.00	509.79	509.79	0.00	0.00	15293.59	15293.59
	Labour welfare 4%	0.00	0.00	679.72	679.72	0.00	0.00	20391.46	20391.46
	Grand Total	40.50	16967.88	1214.50	18182.38	1215.00	509036.40	36435.05	545471.45

Sr. No.	Particulars of works	Mandays	Rate per Hectare			Mandays	Rate for 30 Hectare		
			Wages Rs.	M&S Rs.	Total Rs.		Wages Rs.	M&S Rs.	Total Rs.
5	Digging of pits of size 0.45x0.45x0.45 m (1111 pits per ha)6.60 M.D per 100 pits Note - As per local condition provision for mechanized digging can be made	73.33	30722.34	0.00	30722.34	2199.90	921670.10	0.00	921670.10
6	Construction of 5.00Rmt wide Inspection Path 1 MD per 100 Rmt	1.00	418.96	0.00	418.96	30.00	12568.80	0.00	12568.80
7	Enumeration of all valuable plant species at plantation site and grid wise counting and providing colour band and recording the same in Register(0.75 M.D) per 100 plants	0.75	314.22	25.00	339.22	22.50	9426.60	750.00	10176.60
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	150000.00	150000.00
9	Part Nursery cost of raising 1333 seedling per ha (including 20% casualty replacement) in polygons of size 12.50x25.00cm(Wages Rs.11.90 and M&S Rs 3.62 per plant)	46.71	19569.62	4825.46	24395.08	1401.30	587088.65	144763.80	731852.45
	Total	167.97	70372.71	193263.23	263635.94	5039.10	2111181.34	5797896.90	7909078.24
	Contengency 3%	0.00	0.00	7909.08	7909.08	0.00	0.00	237272.35	237272.35
	Labour welfare 4%	0.00	0.00	10545.44	10545.44	0.00	0.00	316363.13	316363.13
	Grand Total	167.97	70372.71	211717.75	282090.46	5039.10	2111181.34	6351532.38	8462713.71
	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	6200.61	1079.73	7280.34	444.00	186018.24	32391.90	218410.14
2	Refilling of pits by good quality soil including application of single super phosphate(1.60MD per 100 pits)	18.44	7725.62	1944.25	9669.87	553.20	231768.67	58327.50	290096.17
3	Transportation of 1333 seedlings from nursery to plantation site including loading & uploading (0.14 MD per 100 seedlings & M.S Rs.1.82 Per seedlings)	1.87	783.46	2426.00	3209.46	56.10	23503.66	72780.00	96283.66
4	Planting of seedlings 1111 seedlings (1 M.D per 100 seedlings)	11.11	4654.65	0.00	4654.65	333.30	139639.37	0.00	139639.37
5	3 seedlings(1 Rmt circular) and 2 soil working (4.00 M.D per 100 seedlings) fertilizer application Rs.0.82 per seedling	44.44	18618.58	911.02	19529.60	1333.20	558557.47	27330.60	585888.07

Sr. No.	Particulars of works	Mandays	Rate per Hectare			Mandays	Rate for 30 Hectare		
			Wages Rs.	M&S Rs.	Total Rs.		Wages Rs.	M&S Rs.	Total Rs.
	Sixth Year Operation								
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	15292.04	0.00	15292.04	1095.00	458761.20	0.00	458761.20
2	Counting of suvival percentage grid wise and species wise and to note the same on Register in May and	2.00	837.92	25.00	862.92	60.00	25137.60	750.00	25887.60
3	Fire tracing	2.00	837.92	0.00	837.92	60.00	25137.60	0.00	25137.60
	Total	40.50	16967.88	25.00	16992.88	1215.00	509036.40	750.00	509786.40
	Contengency 3%	0.00	0.00	509.79	509.79	0.00	0.00	15293.59	15293.59
	Labour welfare 4%	0.00	0.00	679.72	679.72	0.00	0.00	20391.46	20391.46
	Grand Total	40.50	16967.88	1214.50	18182.38	1215.00	509036.40	36435.05	545471.45
	Seventh Year Operation								
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	15292.04	0.00	15292.04	1095.00	458761.20	0.00	458761.20
2	Counting of suvival percentage grid wise and species wise and to note the same on Register in May and	2.00	837.92	25.00	862.92	60.00	25137.60	750.00	25887.60
3	Fire tracing	2.00	837.92	0.00	837.92	60.00	25137.60	0.00	25137.60
	Total	40.50	16967.88	25.00	16992.88	1215.00	509036.40	750.00	509786.40
	Contengency 3%	0.00	0.00	509.79	509.79	0.00	0.00	15293.59	15293.59
	Labour welfare 4%	0.00	0.00	679.72	679.72	0.00	0.00	20391.46	20391.46
	Grand Total	40.50	16967.88	1214.50	18182.38	1215.00	509036.40	36435.05	545471.45
	Eighth Year Operation								
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	15292.04	0.00	15292.04	1095.00	458761.20	0.00	458761.20
2	Counting of suvival percentage grid wise and species wise and to note the same on Register in May and	2.00	837.92	25.00	862.92	60.00	25137.60	750.00	25887.60
3	Fire tracing	2.00	837.92	0.00	837.92	60.00	25137.60	0.00	25137.60
	Total	40.50	16967.88	25.00	16992.88	1215.00	509036.40	750.00	509786.40
	Contengency 3%	0.00	0.00	509.79	509.79	0.00	0.00	15293.59	15293.59
	Labour welfare 4%	0.00	0.00	679.72	679.72	0.00	0.00	20391.46	20391.46
	Grand Total	40.50	16967.88	1214.50	18182.38	1215.00	509036.40	36435.05	545471.45
	Ninth Year Operation								
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	15292.04	0.00	15292.04	1095.00	458761.20	0.00	458761.20
2	Counting of suvival percentage grid wise and species wise and to note the same on Register in May and	2.00	837.92	25.00	862.92	60.00	25137.60	750.00	25887.60
3	Fire tracing	2.00	837.92	0.00	837.92	60.00	25137.60	0.00	25137.60
	Total	40.50	16967.88	25.00	16992.88	1215.00	509036.40	750.00	509786.40
	Contengency 3%	0.00	0.00	509.79	509.79	0.00	0.00	15293.59	15293.59
	Labour welfare 4%	0.00	0.00	679.72	679.72	0.00	0.00	20391.46	20391.46
	Grand Total	40.50	16967.88	1214.50	18182.38	1215.00	509036.40	36435.05	545471.45
	Tenth Year Operation								

Sr. No.	Particulars of works	Mandays	Rate per Hectare			Mandays	Rate for 30 Hectare		
			Wages Rs.	M&S Rs.	Total Rs.		Wages Rs.	M&S Rs.	Total Rs.
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@400/- each for supplying water and water supply at @Rs0.05 per Litre and wages for watering 1 M.D for 150 seedlings	59.25	24823.38	54395.00	79218.38	1777.50	744701.40	1631850.00	2376551.40
7	Casualty replacement(20% 222 Seedling per Ha)(2 MD per 100 Seedling)	4.44	1860.18	0.00	1860.18	133.20	55805.47	0.00	55805.47
8	Part Nursery cost for casualty replacement SYO(222 seedlings per ha)(wages Rs.11.90 and material supply Rs.3.62 total Rs.12.55 per seedlings)	7.77	3255.32	803.64	4058.96	233.10	97659.58	24109.20	121768.78
9	Watch and ward 10 months -1 watcher per 10.00 ha	27.38	11471.12	0.00	11471.12	821.40	344133.74	0.00	344133.74
10	Soil working for naturally grower plants and singling (1.15 M.D per 100 plants)	1.15	481.80	10.00	491.80	34.50	14454.12	300.00	14754.12
11	Fire tracing	2.00	837.92	0.00	837.92	60.00	25137.60	0.00	25137.60
	Total	192.65	80712.64	61569.64	142282.28	5779.50	2421379.32	1847089.20	4268468.52
	Contengency 3%	0.00	0.00	4268.47	4268.47	0.00	0.00	128054.06	128054.06
	Labour welfare 4%	0.00	0.00	5691.29	5691.29	0.00	0.00	170738.74	170738.74
	Grand Total	192.65	80712.64	71529.40	152242.04	5779.50	2421379.32	2145882.00	4567261.32
	Second Year Operations								
1	Part Nursery cost for seedling for casualty replacement (222 seedling per ha) labour rate@ Rs.3.77 and M.S Rs.1.82	2.46	1030.64	404.00	1434.64	73.80	30919.25	12120.00	43039.25
2	Transportation of 222 seedlings from nursery to plantation site including loading & uploading (0.14 MD per 100 seedlings & M.S Rs.1.82 Per seedlings)	0.31	129.88	404.04	533.92	9.30	3896.33	12121.20	16017.53
3	Planting for Casualty replacement 222 seedlings (2.00 M.D per 100 seedling)	4.44	1860.18	0.00	1860.18	133.20	55805.47	0.00	55805.47
4	2 weeding and 1 soil working with fertilzer application 2.5 M.D per 100 seedling at M.S Rs. 0.82 per seedling	27.77	11634.52	911.02	12545.54	833.10	349035.58	27330.60	376366.18
5	Watering 1111 seedlings November and December January and June 1 times each and February to May 2 times each total 12 times 5 Litre per seedling replacing 10% plastic can/matka @25/- each replacing 111 can/matka supplying water @Rs.0.50/- per litre and watering 150 seedlings per M.D	88.88	37237.16	36105.00	73342.16	2666.40	1117114.94	1083150.00	2200264.94
6	Watch and ward (12 months) -1 watcher per 10 ha	36.50	15292.04	0.00	15292.04	1095.00	458761.20	0.00	458761.20

Sr. No.	Particulars of works	Mandays	Rate per Hectare			Mandays	Rate for 30 Hectare		
			Wages Rs.	M&S Rs.	Total Rs.		Wages Rs.	M&S Rs.	Total Rs.
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	15292.04	0.00	15292.04	1095.00	458761.20	0.00	458761.20
2	Counting of survival percentage grid wise and species wise and to note the same on Register in May and	2.00	837.92	25.00	862.92	60.00	25137.60	750.00	25887.60
3	Fire tracing	2.00	837.92	0.00	837.92	60.00	25137.60	0.00	25137.60
	Total	40.50	16967.88	25.00	16992.88	1215.00	509036.40	750.00	509786.40
	Contengency 3%	0.00	0.00	509.79	509.79	0.00	0.00	15293.59	15293.59
	Labour welfare 4%	0.00	0.00	679.72	679.72	0.00	0.00	20391.46	20391.46
	Grand Total	40.50	16967.88	1214.50	18182.38	1215.00	509036.40	36435.05	545471.45

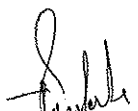

Range Forest Officer
Washala


Assistant Conservator of Forests
(Forestry & Wildlife) Shahapur

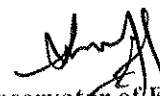

Deputy Conservator of Forests
Shahapur Forest Division, Shahapur

Abstract

Sr. No.	Year of Operation	Mandays	Wages	Material Supply	Total	Mandays	Wages	Material Supply	Total
1	Pre-monsoon Operations	167.97	70372.71	211717.75	282090.46	5039.10	2111181.34	6351532.38	8462713.71
2	First Year Operations	192.65	80712.64	71529.40	152242.04	5779.50	2421379.32	2145882.00	4567261.32
3	Second Year Operations	162.36	68022.35	45233.31	113255.65	4870.80	2040670.37	1356999.25	3397669.62
4	Third Year Operations	101.65	42587.28	21830.25	64417.54	3007.50	1260022.20	654253.60	1914275.80
5	Fourth Year Operations	40.50	16967.88	1214.50	18182.38	1215.00	509036.40	36435.05	545471.45
6	Fifth Year Operations	40.50	16967.88	1214.50	18182.38	1215.00	509036.40	36435.05	545471.45
7	Sixth Year Operations	40.50	16967.88	1214.50	18182.38	1215.00	509036.40	36435.05	545471.45
8	Seventh Year Operations	40.50	16967.88	1214.50	18182.38	1215.00	509036.40	36435.05	545471.45
9	Eighth Year Operation	40.50	16967.88	1214.50	18182.38	1215.00	509036.40	36435.05	545471.45
10	Ninth Year Operation	40.50	16967.88	1214.50	18182.38	1215.00	509036.40	36435.05	545471.45
11	Tenth Year Operation	40.50	16967.88	1214.50	18182.38	1215.00	509036.40	36435.05	545471.45
	Total	908.13	380470.14	358812.22	739282.36	27201.90	11396508.02	10763712.56	22160220.58


Range Forest Officer
Washala


Assistant Conservator of Forests
(Forestry & Wildlife) Shahapur


Deputy Conservator of Forests
Shahapur Forest Division, Shahapur

**Develoment of Vododara Mumbai Expressway (Phase-II SPUR) from KM 0+000 to KM 79+783 in the State of Maharastra Area
119.4411 ha.**

Compensatory Afforestation Scheme

(As per Model Rate Structure for Compensatory Afforestation Model No.5)

Name of Division :- Shahapur
Name of Round :- Kasara
Name of Village :- Dand
Spacement of pits - 3.00 m x 3.00 m
Size of pits - 0.45 x 0.45 x 0.56 m
No.of Seedlings per ha - 1100 per ha.

Name of Range :- Vihigaon
Name of Beat :- Umbravane
Reserve Forest Com. No. 647
Area in Ha:- 25
Daily Wage Rate:- 418.96

Sr. No.	Particulars of works	Mandays	Rate per Hectare			Mandays	Rate for 28 Hectare		
			Wages Rs.	M&S Rs.	Total Rs.		Wages Rs.	M&S Rs.	Total Rs.
	P.P.O.+ P.Y.O. WORKS								
	a.Survey & Demarcation	1.00	418.96	91.00	509.96	25.00	10474.00	2275.00	12749.00
	b.Preparation of treatment map (100m x 50m grid)	1.00	418.96	91.00	509.96	25.00	10474.00	2275.00	12749.00
	c. Digging trial of size 0.30x0.30x0.60 in corner of grid	0.40	167.58	0.00	167.58	10.00	4189.60	0.00	4189.60
	d.Fixing 60cmx0.05cmx12cm cement pillars upto 30cm deep in corner of Grid.painting with Grid No.etc Complete (3 Pillers Rs.75/-for each pillers)	0.00	0.00	225.00	225.00	0.00	0.00	5625.00	5625.00
1	e.Clearing of bushes and preparation of site(As per requirement)	10.00	4189.60	91.00	4280.60	250.00	104740.00	2275.00	107015.00
2	Soil & Moisture Conservation work including collection of Rubbles from areas up to 30 m.etc.	31.00	12987.76	0.00	12987.76	775.00	324694.00	0.00	324694.00
3	Providing and Fixing chain link fencing 102Rmt per ha (With one gate+two wickets gates for one site) (Rs.1494/- per Rmt of basic rate + 20% for transporation of ave leadplus 20% for tribble/remote area (by tender process)(Rs.1494+149+149=1792/- per Rmt(1.60 Rmt height with G.I Chain link size 50mmx50m, 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	0.00	4571625.00	4571625.00
4	Alignment of pits at at 3mx3m spacement 1111 pits per Ha (0.25 per 100 pits and M&S@Rs.2.24 per 50pits)	2.78	1164.71	49.77	1214.48	69.50	29117.72	1244.25	30361.97

Sr. No.	Particulars of works	Mandays	Rate per Hectare			Mandays	Rate for 28 Hectare		
			Wages Rs.	M&S Rs.	Total Rs.		Wages Rs.	M&S Rs.	Total Rs.
5	Digging of pits of size 0.45x0.45x0.45 m (1111 pits per ha) 6.60 M.D per 100 pits Note - As per local condition provision for mechanized digging can be made	73.33	30722.34	0.00	30722.34	1833.25	768058.42	0.00	768058.42
6	Construction of 5.00 Rmt wide Inspection Path 1 MD per 100 Rmt	1.00	418.96	0.00	418.96	25.00	10474.00	0.00	10474.00
7	Enumeration of all valuable plant species at plantation site and grid wise counting and providing colour band and recording the same in Register (0.75 M.D) per 100 plants	0.75	314.22	25.00	339.22	18.75	7855.50	625.00	8480.50
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	125000.00	125000.00
9	Part Nursery cost of raising 1333 seedling per ha (including 20% casualty replacement) in polygons of size 12.50x25.00cm (Wages Rs.11.90 and M&S Rs 3.62 per plant)	46.71	19569.62	4825.46	24395.08	1167.75	489240.54	120636.50	609877.04
	Total	167.97	70372.71	193263.23	263635.94	4199.25	1759317.78	4831580.75	6590898.53
	Contengency 3%	0.00	0.00	7909.08	7909.08	0.00	0.00	197726.96	197726.96
	Labour welfare 4%	0.00	0.00	10545.44	10545.44	0.00	0.00	263635.94	263635.94
	Grand Total	167.97	70372.71	211717.75	282090.46	4199.25	1759317.78	5292943.65	7052261.43
	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	6200.61	1079.73	7280.34	370.00	155015.20	26993.25	182008.45
2	Refilling of pits by good quality soil including application of single super phosphate (1.60 MD per 100 pits)	18.44	7725.62	1944.25	9669.87	461.00	193140.56	48606.25	241746.81
3	Transportation of 1333 seedlings from nursery to plantation site including loading & uploading (0.14 MD per 100 seedlings & M.S Rs.1.82 Per seedlings)	1.87	783.46	2426.00	3209.46	46.75	19586.38	60650.00	80236.38
4	Planting of seedlings 1111 seedlings (1 M.D per 100 seedlings)	11.11	4654.65	0.00	4654.65	277.75	116366.14	0.00	116366.14
5	3 seedlings (1 Rmt circular) and 2 soil working (4.00 M.D per 100 seedlings) fertilizer application Rs.0.82 per seedling	44.44	18618.58	911.02	19529.60	1111.00	465464.56	22775.50	488240.06

Sr. No.	Particulars of works	Mandays	Rate per Hectare			Mandays	Rate for 28 Hectare		
			Wages Rs.	M&S Rs.	Total Rs.		Wages Rs.	M&S Rs.	Total Rs.
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@400/- each for supplying water and water supply at @Rs0.05 per Litre and wages for watering 1 M.D for 150 seedlings	59.25	24823.38	54395.00	79218.38	1481.25	620584.50	1359875.00	1980459.50
7	Casualty replacement(20% 222 Seedling per Ha)(2 MD per 100 Seedling)	4.44	1860.18	0.00	1860.18	111.00	46504.56	0.00	46504.56
8	Part Nursery cost for casualty replacement SYO(222 seedlings per ha)(wages Rs.11.90 and material supply Rs.3.62 total Rs.12.55 per seedlings)	7.77	3255.32	803.64	4058.96	194.25	81382.98	20091.00	101473.98
9	Watch and ward 10 months -1 watcher per 10.00 ha	27.38	11471.12	0.00	11471.12	684.50	286778.12	0.00	286778.12
10	Soil working for naturally grower plants and singling (1.15 M.D per 100 plants)	1.15	481.80	10.00	491.80	28.75	12045.10	250.00	12295.10
11	Fire tracing	2.00	837.92	0.00	837.92	50.00	20948.00	0.00	20948.00
	Total	192.65	80712.64	61569.64	142282.28	4816.25	2017816.10	1539241.00	3557057.10
	Contengency 3%	0.00	0.00	4268.47	4268.47	0.00	0.00	106711.71	106711.71
	Labour welfare 4%	0.00	0.00	5691.29	5691.29	0.00	0.00	142282.28	142282.28
	Grand Total	192.65	80712.64	71529.40	152242.04	4816.25	2017816.10	1788235.00	3806051.10
	Second Year Operations								
1	Part Nursery cost for seedling for casualty replacement (222 seedling per ha) labour rate@ Rs.3.77 and M.S Rs.1.82	2.46	1030.64	404.00	1434.64	61.50	25766.04	10100.00	35866.04
2	Transportation of 222 seedlings from nursery to plantation site including loading & uploading (0.14 MD per 100 seedlings & M.S Rs.1.82 Per seedlings)	0.31	129.88	404.04	533.92	7.75	3246.94	10101.00	13347.94
3	Planting for Casualty replacement 222 seedlings (2.00 M.D per 100 seedling)	4.44	1860.18	0.00	1860.18	111.00	46504.56	0.00	46504.56
4	2 weeding and 1 soil working with fertilzer application 2.5 M.D per 100 seedling at M.S Rs. 0.82 per seedling	27.77	11634.52	911.02	12545.54	694.25	290862.98	22775.50	313638.48
5	Watering 1111 seedlings November and December January and june 1 times each and February to May 2 times each total 12 times 5 Litre per seedling replacing 10% plastic can/matka @25/- each replacing 111 can/matka supplying water @Rs.0.50/- per litre and watering 150 seedlings per M.D	88.88	37237.16	36105.00	73342.16	2222.00	930929.12	902625.00	1833554.12
6	Watch and ward (12 months) -1 watcher per 10 ha	36.50	15292.04	0.00	15292.04	912.50	382301.00	0.00	382301.00

Sr. No.	Particulars of works	Mandays	Rate per Hectare			Mandays	Rate for 28 Hectare		
			Wages Rs.	M&S Rs.	Total Rs.		Wages Rs.	M&S Rs.	Total Rs.
		2.00	837.92	0.00	837.92	50.00	20948.00	0.00	20948.00
7	Fire tracing								
	Total	162.36	68022.35	37824.06	105846.41	4059.00	1700558.64	945601.50	2646160.14
		0.00	0.00	3175.39	3175.39	0.00	0.00	79384.80	79384.80
	Contengency 3%								
	Labour welfare 4%	0.00	0.00	4233.86	4233.86	0.00	0.00	105846.41	105846.41
	Grand Total	162.36	68022.35	45233.31	113255.65	4059.00	1700558.64	1130832.71	2831391.35
	Third Year Operation								
1	1 Weedings and 1 soil working (1.50 M.D per 100 plants) applying fertilizer @ Rs. 0.82 per plant	16.67	6984.06	911.02	7895.08	416.75	174601.58	22775.50	197377.08
2	Watering 556 seedlings November and December January and June 1 times each and February to May 2 times each total 12 times per seedling 5 Litre ra supplying water @Rs.0.50/- per litre and watering 150 seedlings per M.D	44.48	18635.34	16680.00	35315.34	1112.00	465883.52	417000.00	882883.52
3	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	15292.04	0.00	15292.04	912.50	382301.00	0.00	382301.00
4	Counting of suvival percentage grid wise and species wise and to note the same on Register in May and October	2.00	837.92	25.00	862.92	50.00	20948.00	625.00	21573.00
5	Fire tracing	2.00	837.92	0.00	837.92	18.00	7541.28	450.00	7991.28
	Total	101.65	42587.28	17616.02	60203.30	2509.25	1051275.38	440850.50	1492125.88
		0.00	0.00	1806.10	1806.10	0.00	0.00	44763.78	44763.78
	Contengency 3%								
	Labour welfare 4%	0.00	0.00	2408.13	2408.13	0.00	0.00	59685.04	59685.04
	Grand Total	101.65	42587.28	21830.25	64417.54	2509.25	1051275.38	545299.31	1596574.69
	Fourth Year Operation								
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	15292.04	0.00	15292.04	912.50	382301.00	0.00	382301.00
2	Counting of suvival percentage grid wise and species wise and to note the same on Register in May and	2.00	837.92	25.00	862.92	50.00	20948.00	625.00	21573.00
3	Fire tracing	2.00	837.92	0.00	837.92	50.00	20948.00	0.00	20948.00
	Total	40.50	16967.88	25.00	16992.88	1012.50	424197.00	625.00	424822.00
		0.00	0.00	509.79	509.79	0.00	0.00	12744.66	12744.66
	Contengency 3%								
	Labour welfare 4%	0.00	0.00	679.72	679.72	0.00	0.00	16992.88	16992.88
	Grand Total	40.50	16967.88	1214.50	18182.38	1012.50	424197.00	30362.54	454559.54
	Fifth Year Operation								
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	15292.04	0.00	15292.04	912.50	382301.00	0.00	382301.00
2	Counting of suvival percentage grid wise and species wise and to note the same on Register in May and	2.00	837.92	25.00	862.92	50.00	20948.00	625.00	21573.00
3	Fire tracing	2.00	837.92	0.00	837.92	50.00	20948.00	0.00	20948.00
	Total	40.50	16967.88	25.00	16992.88	1012.50	424197.00	625.00	424822.00
		0.00	0.00	509.79	509.79	0.00	0.00	12744.66	12744.66
	Contengency 3%								
	Labour welfare 4%	0.00	0.00	679.72	679.72	0.00	0.00	16992.88	16992.88
	Grand Total	40.50	16967.88	1214.50	18182.38	1012.50	424197.00	30362.54	454559.54

Sr. No.	Particulars of works	Mandays	Rate per Hectare			Mandays	Rate for 28 Hectare		
			Wages Rs.	M&S Rs.	Total Rs.		Wages Rs.	M&S Rs.	Total Rs.
	Sixth Year Operation								
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	15292.04	0.00	15292.04	912.50	382301.00	0.00	382301.00
2	Counting of survival percentage grid wise and species wise and to note the same on Register in May and	2.00	837.92	25.00	862.92	50.00	20948.00	625.00	21573.00
3	Fire tracing	2.00	837.92	0.00	837.92	50.00	20948.00	0.00	20948.00
	Total	40.50	16967.88	25.00	16992.88	1012.50	424197.00	625.00	424822.00
		0.00	0.00	509.79	509.79	0.00	0.00	12744.66	12744.66
	Contingency 3%	0.00	0.00	679.72	679.72	0.00	0.00	16992.88	16992.88
	Labour welfare 4%	40.50	16967.88	1214.50	18182.38	1012.50	424197.00	30362.54	454559.54
	Grand Total								
	Seventh Year Operation								
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	15292.04	0.00	15292.04	912.50	382301.00	0.00	382301.00
2	Counting of survival percentage grid wise and species wise and to note the same on Register in May and	2.00	837.92	25.00	862.92	50.00	20948.00	625.00	21573.00
3	Fire tracing	2.00	837.92	0.00	837.92	50.00	20948.00	0.00	20948.00
	Total	40.50	16967.88	25.00	16992.88	1012.50	424197.00	625.00	424822.00
		0.00	0.00	509.79	509.79	0.00	0.00	12744.66	12744.66
	Contingency 3%	0.00	0.00	679.72	679.72	0.00	0.00	16992.88	16992.88
	Labour welfare 4%	40.50	16967.88	1214.50	18182.38	1012.50	424197.00	30362.54	454559.54
	Grand Total								
	Eighth Year Operation								
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	15292.04	0.00	15292.04	912.50	382301.00	0.00	382301.00
2	Counting of survival percentage grid wise and species wise and to note the same on Register in May and	2.00	837.92	25.00	862.92	50.00	20948.00	625.00	21573.00
3	Fire tracing	2.00	837.92	0.00	837.92	50.00	20948.00	0.00	20948.00
	Total	40.50	16967.88	25.00	16992.88	1012.50	424197.00	625.00	424822.00
		0.00	0.00	509.79	509.79	0.00	0.00	12744.66	12744.66
	Contingency 3%	0.00	0.00	679.72	679.72	0.00	0.00	16992.88	16992.88
	Labour welfare 4%	40.50	16967.88	1214.50	18182.38	1012.50	424197.00	30362.54	454559.54
	Grand Total								
	Ninth Year Operation								
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	15292.04	0.00	15292.04	912.50	382301.00	0.00	382301.00
2	Counting of survival percentage grid wise and species wise and to note the same on Register in May and	2.00	837.92	25.00	862.92	50.00	20948.00	625.00	21573.00
3	Fire tracing	2.00	837.92	0.00	837.92	50.00	20948.00	0.00	20948.00
	Total	40.50	16967.88	25.00	16992.88	1012.50	424197.00	625.00	424822.00
		0.00	0.00	509.79	509.79	0.00	0.00	12744.66	12744.66
	Contingency 3%	0.00	0.00	679.72	679.72	0.00	0.00	16992.88	16992.88
	Labour welfare 4%	40.50	16967.88	1214.50	18182.38	1012.50	424197.00	30362.54	454559.54
	Grand Total								
	Tenth Year Operation								

Sr. No.	Particulars of works	Mandays	Rate per Hectare			Mandays	Rate for 28 Hectare		
			Wages Rs.	M&S Rs.	Total Rs.		Wages Rs.	M&S Rs.	Total Rs.
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	15292.04	0.00	15292.04	912.50	382301.00	0.00	382301.00
2	Counting of survival percentage grid wise and species wise and to note the same on Register in May and	2.00	837.92	25.00	862.92	50.00	20948.00	625.00	21573.00
3	Fire tracing	2.00	837.92	0.00	837.92	50.00	20948.00	0.00	20948.00
	Total	40.50	16967.88	25.00	16992.88	1012.50	424197.00	625.00	424822.00
		0.00	0.00	509.79	509.79	0.00	0.00	12744.66	12744.66
	Contengency 3%	0.00	0.00	679.72	679.72	0.00	0.00	16992.88	16992.88
	Labour welfare 4%	0.00	0.00	679.72	679.72	0.00	0.00	16992.88	16992.88
	Grand Total	40.50	16967.88	1214.50	18182.38	1012.50	424197.00	30362.54	454559.54

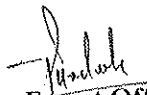

Range Forest Officer
Vihigaon

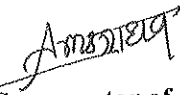

Assistant Conservator of Forests
(FLCS & CAMP) Shahapur

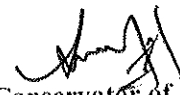

Deputy Conservator of Forests
Shahapur Forest Division, Shahapur

Abstract

Sr. No.	Year of Operation	Mandays	Wages	Material Supply	Total	Mandays	Wages	Material Supply	Total
1	Pre-monsoon Operations	167.97	70372.71	211717.75	282090.46	4199.25	1759317.78	5292943.65	7052261.43
2	First Year Operations	192.65	80712.64	71529.40	152242.04	4816.25	2017816.10	1788235.00	3806051.10
3	Second Year Operations	162.36	68022.35	45233.31	113255.65	4059.00	1700558.64	1130832.71	2831391.35
4	Third Year Operations	101.65	42587.28	21830.25	64417.54	2509.25	1051275.38	545299.31	1596574.69
5	Fourth Year Operations	40.50	16967.88	1214.50	18182.38	1012.50	424197.00	30362.54	454559.54
6	Fifth Year Operations	40.50	16967.88	1214.50	18182.38	1012.50	424197.00	30362.54	454559.54
7	Sixth Year Operations	40.50	16967.88	1214.50	18182.38	1012.50	424197.00	30362.54	454559.54
8	Seventh Year Operations	40.50	16967.88	1214.50	18182.38	1012.50	424197.00	30362.54	454559.54
9	Eighth Year Operation	40.50	16967.88	1214.50	18182.38	1012.50	424197.00	30362.54	454559.54
10	Ninth Year Operation	40.50	16967.88	1214.50	18182.38	1012.50	424197.00	30362.54	454559.54
11	Tenth Year Operation	40.50	16967.88	1214.50	18182.38	1012.50	424197.00	30362.54	454559.54
	Total	908.13	380470.14	358812.22	739282.36	22671.25	9498346.90	8969848.45	18468195.35


Range Forest Officer
Vihigaon


Assistant Conservator of Forests
(FLSC & Campa) Shahapur


Deputy Conservator of Forests
Shahapur Forest Division, Shahapur

**Develoment of Vododara Mumbai Expressway (Phase-II SPUR) from KM 0+000 to KM 79+783 in the State of Maharastra Area
119.4411 ha.**

Compensatory Afforestation Scheme

(As per Model Rate Structure for Compensatory Afforestation Model No.5)

Name of Division :- Shahapur
Name of Round :- Kasara
Name of Village :- Dand
Spacement of pits - 3.00 m x 3.00 m
Size of pits - 0.45 x 0.45 x 0.56 m
No.of Seedlings per ha - 1100 per ha.

Name of Range :- Vihigaon
Name of Beat :- Umbravane
Reserve Forest Com. No. 638
Area in Ha:- 20
Daily Wage Rate:- 418.96

Sr. No.	Particulars of works	Mandays	Rate per Hectare			Mandays	Rate for 20 Hectare		
			Wages Rs.	M&S Rs.	Total Rs.		Wages Rs.	M&S Rs.	Total Rs.
	P.P.O.+ P.Y.O. WORKS								
	a.Survey & Demarcation	1.00	418.96	91.00	509.96	20.00	8379.20	1820.00	10199.20
	b.Preparation of treatment map (100m x 50m grid)	1.00	418.96	91.00	509.96	20.00	8379.20	1820.00	10199.20
	c. Digging trial of size 0.30x0.30x0.60 in corner of grid	0.40	167.58	0.00	167.58	8.00	3351.68	0.00	3351.68
	d.Fixing 60cmx0.05cmx12cm cement pillars upto 30cm deep in corner of Grid,painting with Grid No.etc Complete (3 Pillers Rs.75/-for each pillars)	0.00	0.00	225.00	225.00	0.00	0.00	4500.00	4500.00
	e.Clearing of bushes and preparation of site(As per requirement)	10.00	4189.60	91.00	4280.60	200.00	83792.00	1820.00	85612.00
2	Soil & Moisture Conservation work including collection of Rubbles from areas up to 30 m.etc.	31.00	12987.76	0.00	12987.76	620.00	259755.20	0.00	259755.20
3	Providing and Fixing chain link fencing 102Rmt per ha (With one gate+two wickets gates for one site) (Rs.1494/- per Rmt of basic rate + 20% for transporation of ave leadplus 20% for tribble/remote area (by tender process)(Rs.1494+149+149=1792/- per Rmt(1.60 Rmt height with G.I Chain link size 50mmx50m, 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	0.00	3657300.00	3657300.00
4	Alignment of pits at at 3mx3m spacement 1111 pits per Ha (0.25 per 100 pits and M&S@Rs.2.24 per 50pits)	2.78	1164.71	49.77	1214.48	55.60	23294.18	995.40	24289.58

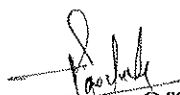
Sr. No.	Particulars of works	Mandays	Rate per Hectare			Mandays	Rate for 20 Hectare		
			Wages Rs.	M&S Rs.	Total Rs.		Wages Rs.	M&S Rs.	Total Rs.
		73.33	30722.34	0.00	30722.34	1466.60	614446.74	0.00	614446.74
5	Digging of pits of size 0.45x0.45x0.45 m (1111 pits per ha) 6.60 M.D per 100 pits Note - As per local condition provision for mechanized digging can be made								
6	Construction of 5.00 Rmt wide Inspection Path 1 MD per 100 Rmt	1.00	418.96	0.00	418.96	20.00	8379.20	0.00	8379.20
7	Enumeration of all valuable plant species at plantation site and grid wise counting and providing colour band and recording the same in Register (0.75 M.D) per 100 plants	0.75	314.22	25.00	339.22	15.00	6284.40	500.00	6784.40
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	100000.00	100000.00
9	Part Nursery cost of raising 1333 seedling per ha (including 20% casualty replacement) in polygons of size 12.50x25.00cm (Wages Rs. 11.90 and M&S Rs 3.62 per plant)	46.71	19569.62	4825.46	24395.08	934.20	391392.43	96509.20	487901.63
	Total	167.97	70372.71	193263.23	263635.94	3359.40	1407454.22	3865264.60	5272718.82
	Contengency 3%	0.00	0.00	7909.08	7909.08	0.00	0.00	158181.56	158181.56
	Labour welfare 4%	0.00	0.00	10545.44	10545.44	0.00	0.00	210908.75	210908.75
	Grand Total	167.97	70372.71	211717.75	282090.46	3359.40	1407454.22	4234354.92	5641809.14
	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	6200.61	1079.73	7280.34	296.00	124012.16	21594.60	145606.76
2	Refilling of pits by good quality soil including application of single super phosphate (1.60 MD per 100 pits)	18.44	7725.62	1944.25	9669.87	368.80	154512.45	38885.00	193397.45
3	Transportation of 1333 seedlings from nursery to plantation site including loading & uploading (0.14 MD per 100 seedlings & M.S Rs. 1.82 Per seedlings)	1.87	783.46	2426.00	3209.46	37.40	15669.10	48520.00	64189.10
4	Planting of seedlings 1111 seedlings (1 M.D per 100 seedlings)	11.11	4654.65	0.00	4654.65	222.20	93092.91	0.00	93092.91
5	3 seedlings (1 Rmt circular) and 2 soil working (4.00 M.D per 100 seedlings) fertilizer application Rs. 0.82 per seedling	44.44	18618.58	911.02	19529.60	888.80	372371.65	18220.40	390592.05

Sr. No.	Particulars of works	Mandays	Rate per Hectare			Mandays	Rate for 20 Hectare		
			Wages Rs.	M&S Rs.	Total Rs.		Wages Rs.	M&S Rs.	Total Rs.
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@400/- each for supplying water and water supply at @Rs0.05 per Litre and wages for watering 1 M.D for 150 seedlings	59.25	24823.38	54395.00	79218.38	1185.00	496467.60	1087900.00	1584367.60
7	Casualty replacement(20% 222 Seedling per Ha)(2 MD per 100 Seedling)	4.44	1860.18	0.00	1860.18	88.80	37203.65	0.00	37203.65
8	Part Nursery cost for casualty replacement SYO(222 seedlings per ha)(wages Rs.11.90 and material supply Rs.3.62 total Rs.12.55 per seedlings)	7.77	3255.32	803.64	4058.96	155.40	65106.38	16072.80	81179.18
9	Watch and ward 10 months -1 watcher per 10.00 ha	27.38	11471.12	0.00	11471.12	547.60	229422.50	0.00	229422.50
10	Soil working for naturally grower plants and singling (1.15 M.D per 100 plants)	1.15	481.80	10.00	491.80	23.00	9636.08	200.00	9836.08
11	Fire tracing	2.00	837.92	0.00	837.92	40.00	16758.40	0.00	16758.40
	Total	192.65	80712.64	61569.64	142282.28	3853.00	1614252.88	1231392.80	2845645.68
	Contengency 3%	0.00	0.00	4268.47	4268.47	0.00	0.00	85369.37	85369.37
	Labour welfare 4%	0.00	0.00	5691.29	5691.29	0.00	0.00	113825.83	113825.83
	Grand Total	192.65	80712.64	71529.40	152242.04	3853.00	1614252.88	1430588.00	3044840.88
	Second Year Operations								
1	Part Nursery cost for seedling for casualty replacement (222 seedling per ha) labour rate@ Rs.3.77 and M.S Rs.1.82	2.46	1030.64	404.00	1434.64	49.20	20612.83	8080.00	28692.83
2	Transportation of 222 seedlings from nursery to plantation site including loading & uploading (0.14 MD per 100 seedlings & M.S Rs.1.82 Per seedlings)	0.31	129.88	404.04	533.92	6.20	2597.55	8080.80	10678.35
3	Planting for Casualty replacement 222 seedlings (2.00 M.D per 100 seedling)	4.44	1860.18	0.00	1860.18	88.80	37203.65	0.00	37203.65
4	2 weeding and 1 soil working with fertilzer application 2.5 M.D per 100 seedling at M.S Rs. 0.82 per seedling	27.77	11634.52	911.02	12545.54	555.40	232690.38	18220.40	250910.78
5	Watering 1111 seedlings November and December January and June 1 times each and February to May 2 times each total 12 times 5 Litre per seedling replacing 10% plastic can/matka @25/- each replacing 111 can/matka supplying water @Rs.0.50/- per litre and watering 150 seedlings per M.D	88.88	37237.16	36105.00	73342.16	1777.60	744743.30	722100.00	1466843.30
6	Watch and ward (12 months) -1 watcher per 10 ha	36.50	15292.04	0.00	15292.04	730.00	305840.80	0.00	305840.80

Sr. No.	Particulars of works	Mandays	Rate per Hectare			Mandays	Rate for 20 Hectare		
			Wages Rs.	M&S Rs.	Total Rs.		Wages Rs.	M&S Rs.	Total Rs.
7	Fire tracing	2.00	837.92	0.00	837.92	40.00	16758.40	0.00	16758.40
	Total	162.36	68022.35	37824.06	105846.41	3247.20	1360446.91	756481.20	2116928.11
	Contengency 3%	0.00	0.00	3175.39	3175.39	0.00	0.00	63507.84	63507.84
	Labour welfare 4%	0.00	0.00	4233.86	4233.86	0.00	0.00	84677.12	84677.12
	Grand Total	162.36	68022.35	45233.31	113255.65	3247.20	1360446.91	904666.17	2265113.08
	Third Year Operation								
1	1 Weedings and 1 soil working (1.50 M.D per 100 plants) applying fertilizer @ Rs. 0.82 per plant	16.67	6984.06	911.02	7895.08	333.40	139681.26	18220.40	157901.66
2	Watering 556 seedlings November and December January and June 1 times each and February to May 2 times each total 12 times per seedling 5 Litre ra supplying water @Rs.0.50/- per litre and watering 150 seedlings per M.D	44.48	18635.34	16680.00	35315.34	889.60	372706.82	333600.00	706306.82
3	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	15292.04	0.00	15292.04	730.00	305840.80	0.00	305840.80
4	Counting of suvival percentage grid wise and species wise and to note the same on Register in May and October	2.00	837.92	25.00	862.92	40.00	16758.40	500.00	17258.40
5	Fire tracing	2.00	837.92	0.00	837.92	18.00	7541.28	360.00	7901.28
	Total	101.65	42587.28	17616.02	60203.30	2011.00	842528.56	352680.40	1195208.96
	Contengency 3%	0.00	0.00	1806.10	1806.10	0.00	0.00	35856.27	35856.27
	Labour welfare 4%	0.00	0.00	2408.13	2408.13	0.00	0.00	47808.36	47808.36
	Grand Total	101.65	42587.28	21830.25	64417.54	2011.00	842528.56	436345.03	1278873.59
	Fourth Year Operation								
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	15292.04	0.00	15292.04	730.00	305840.80	0.00	305840.80
2	Counting of suvival percentage grid wise and species wise and to note the same on Register in May and	2.00	837.92	25.00	862.92	40.00	16758.40	500.00	17258.40
3	Fire tracing	2.00	837.92	0.00	837.92	40.00	16758.40	0.00	16758.40
	Total	40.50	16967.88	25.00	16992.88	810.00	339357.60	500.00	339857.60
	Contengency 3%	0.00	0.00	509.79	509.79	0.00	0.00	10195.73	10195.73
	Labour welfare 4%	0.00	0.00	679.72	679.72	0.00	0.00	13594.30	13594.30
	Grand Total	40.50	16967.88	1214.50	18182.38	810.00	339357.60	24290.03	363647.63
	Fifth Year Operation								
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	15292.04	0.00	15292.04	730.00	305840.80	0.00	305840.80
2	Counting of suvival percentage grid wise and species wise and to note the same on Register in May and	2.00	837.92	25.00	862.92	40.00	16758.40	500.00	17258.40
3	Fire tracing	2.00	837.92	0.00	837.92	40.00	16758.40	0.00	16758.40
	Total	40.50	16967.88	25.00	16992.88	810.00	339357.60	500.00	339857.60
	Contengency 3%	0.00	0.00	509.79	509.79	0.00	0.00	10195.73	10195.73
	Labour welfare 4%	0.00	0.00	679.72	679.72	0.00	0.00	13594.30	13594.30
	Grand Total	40.50	16967.88	1214.50	18182.38	810.00	339357.60	24290.03	363647.63

Sr. No.	Particulars of works	Mandays	Rate per Hectare			Mandays	Rate for 20 Hectare		
			Wages Rs.	M&S Rs.	Total Rs.		Wages Rs.	M&S Rs.	Total Rs.
	Sixth Year Operation								
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	15292.04	0.00	15292.04	730.00	305840.80	0.00	305840.80
2	Counting of suvival percentage grid wise and species wise and to note the same on Register in May and	2.00	837.92	25.00	862.92	40.00	16758.40	500.00	17258.40
3	Fire tracing	2.00	837.92	0.00	837.92	40.00	16758.40	0.00	16758.40
	Total	40.50	16967.88	25.00	16992.88	810.00	339357.60	500.00	339857.60
	Contengency 3%	0.00	0.00	509.79	509.79	0.00	0.00	10195.73	10195.73
	Labour welfare 4%	0.00	0.00	679.72	679.72	0.00	0.00	13594.30	13594.30
	Grand Total	40.50	16967.88	1214.50	18182.38	810.00	339357.60	24290.03	363647.63
	Seventh Year Operation								
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	15292.04	0.00	15292.04	730.00	305840.80	0.00	305840.80
2	Counting of suvival percentage grid wise and species wise and to note the same on Register in May and	2.00	837.92	25.00	862.92	40.00	16758.40	500.00	17258.40
3	Fire tracing	2.00	837.92	0.00	837.92	40.00	16758.40	0.00	16758.40
	Total	40.50	16967.88	25.00	16992.88	810.00	339357.60	500.00	339857.60
	Contengency 3%	0.00	0.00	509.79	509.79	0.00	0.00	10195.73	10195.73
	Labour welfare 4%	0.00	0.00	679.72	679.72	0.00	0.00	13594.30	13594.30
	Grand Total	40.50	16967.88	1214.50	18182.38	810.00	339357.60	24290.03	363647.63
	Eighth Year Operation								
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	15292.04	0.00	15292.04	730.00	305840.80	0.00	305840.80
2	Counting of suvival percentage grid wise and species wise and to note the same on Register in May and	2.00	837.92	25.00	862.92	40.00	16758.40	500.00	17258.40
3	Fire tracing	2.00	837.92	0.00	837.92	40.00	16758.40	0.00	16758.40
	Total	40.50	16967.88	25.00	16992.88	810.00	339357.60	500.00	339857.60
	Contengency 3%	0.00	0.00	509.79	509.79	0.00	0.00	10195.73	10195.73
	Labour welfare 4%	0.00	0.00	679.72	679.72	0.00	0.00	13594.30	13594.30
	Grand Total	40.50	16967.88	1214.50	18182.38	810.00	339357.60	24290.03	363647.63
	Ninth Year Operation								
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	15292.04	0.00	15292.04	730.00	305840.80	0.00	305840.80
2	Counting of suvival percentage grid wise and species wise and to note the same on Register in May and	2.00	837.92	25.00	862.92	40.00	16758.40	500.00	17258.40
3	Fire tracing	2.00	837.92	0.00	837.92	40.00	16758.40	0.00	16758.40
	Total	40.50	16967.88	25.00	16992.88	810.00	339357.60	500.00	339857.60
	Contengency 3%	0.00	0.00	509.79	509.79	0.00	0.00	10195.73	10195.73
	Labour welfare 4%	0.00	0.00	679.72	679.72	0.00	0.00	13594.30	13594.30
	Grand Total	40.50	16967.88	1214.50	18182.38	810.00	339357.60	24290.03	363647.63
	Tenth Year Operation								

Sr. No.	Particulars of works	Mandays	Rate per Hectare			Mandays	Rate for 20 Hectare		
			Wages Rs.	M&S Rs.	Total Rs.		Wages Rs.	M&S Rs.	Total Rs.
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	15292.04	0.00	15292.04	730.00	305840.80	0.00	305840.80
2	Counting of survival percentage grid wise and species wise and to note the same on Register in May and	2.00	837.92	25.00	862.92	40.00	16758.40	500.00	17258.40
3	Fire tracing	2.00	837.92	0.00	837.92	40.00	16758.40	0.00	16758.40
	Total	40.50	16967.88	25.00	16992.88	810.00	339357.60	500.00	339857.60
	Contingency 3%	0.00	0.00	509.79	509.79	0.00	0.00	10195.73	10195.73
	Labour welfare 4%	0.00	0.00	679.72	679.72	0.00	0.00	13594.30	13594.30
	Grand Total	40.50	16967.88	1214.50	18182.38	810.00	339357.60	24290.03	363647.63

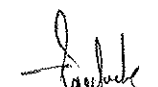

Range Forest Officer
Vihigaon

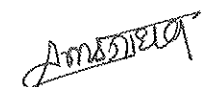

Assistant Conservator of Forests
(FLCS & CAMP) Shahapur

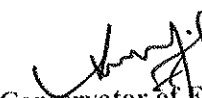

Deputy Conservator of Forests
Shahapur Forest Division, Shahapur

Abstract

Sr. No.	Year of Operation	Mandays	Wages	Material Supply	Total	Mandays	Wages	Material Supply	Total
1	Pre-monsoon Operations	167.97	70372.71	211717.75	282090.46	3359.40	1407454.22	4234354.92	5641809.14
2	First Year Operations	192.65	80712.64	71529.40	152242.04	3853.00	1614252.88	1430588.00	3044840.88
3	Second Year Operations	162.36	68022.35	45233.31	113255.65	3247.20	1360446.91	904666.17	2265113.08
4	Third Year Operations	101.65	42587.28	21830.25	64417.54	2011.00	842528.56	436345.03	1278873.59
5	Fourth Year Operations	40.50	16967.88	1214.50	18182.38	810.00	339357.60	24290.03	363647.63
6	Fifth Year Operations	40.50	16967.88	1214.50	18182.38	810.00	339357.60	24290.03	363647.63
7	Sixth Year Operations	40.50	16967.88	1214.50	18182.38	810.00	339357.60	24290.03	363647.63
8	Seventh Year Operations	40.50	16967.88	1214.50	18182.38	810.00	339357.60	24290.03	363647.63
9	Eighth Year Operation	40.50	16967.88	1214.50	18182.38	810.00	339357.60	24290.03	363647.63
10	Ninth Year Operation	40.50	16967.88	1214.50	18182.38	810.00	339357.60	24290.03	363647.63
11	Tenth Year Operation	40.50	16967.88	1214.50	18182.38	810.00	339357.60	24290.03	363647.63
	Total	908.13	380470.14	358812.22	739282.36	18140.60	7600185.78	7175984.33	14776170.11


Range Forest Officer
Vihigaon


Assistant Conservator of Forests
(FLSC & Campa) Shahapur


Deputy Conservator of Forests
Shahapur Forest Division, Shahapur

Develoment of Vododara Mumbai Expressway (Phase-II SPUR) from KM 0+000 to KM 79+783 in the State of Maharastra Area
119.4411 ha.

Compensatory Afforestation Scheme

(As per Model Rate Structure for Compensatory Afforestation Model No.5)

Name of Division :- Shahapur
 Name of Round :- Sakadbav
 Name of Village :- Kothare
 Spacement of pits - 3.00 m x 3.00 m
 Size of pits - 0.45 x 0.45 x 0.56 m
 No.of Seedlings per ha - 1100 per ha.

Name of Range :- Washala
 Name of Beat :- Kothare
 Protected Forest Sr.No. 240
 Area in Ha:- 25
 Daily Wage Rate:- 418.96

Sr. No.	Particulars of works	Mandays	Rate per Hectare			Mandays	Rate for 28 Hectare		
			Wages Rs.	M&S Rs.	Total Rs.		Wages Rs.	M&S Rs.	Total Rs.
	P.P.O.+ P.Y.O. WORKS	1.00	418.96	91.00	509.96	25.00	10474.00	2275.00	12749.00
	a.Survey & Demarcation	1.00	418.96	91.00	509.96	25.00	10474.00	2275.00	12749.00
	b.Preparation of treatment map (100m x 50m grid)	0.40	167.58	0.00	167.58	10.00	4189.60	0.00	4189.60
	c. Digging trial of size 0.30x0.30x0.60 in corner of grid	0.00	0.00	225.00	225.00	0.00	0.00	5625.00	5625.00
1	d.Fixing 60cmx0.05cmx12cm cement pillars upto 30cm deep in corner of Grid,painting with Grid No.etc Complete (3 Pillers Rs.75/-for each pillers)	10.00	4189.60	91.00	4280.60	250.00	104740.00	2275.00	107015.00
	e.Clearing of bushes and preparation of site(As per requirement)	31.00	12987.76	0.00	12987.76	775.00	324694.00	0.00	324694.00
2	Soil & Moisture Conservation work including collection of Rubbles from areas up to 30 m.etc.	0.00	0.00	182865.00	182865.00	0.00	0.00	4571625.00	4571625.00
3	Providing and Fixing chain link fencing 102Rmt per ha (With one gate+two wickets gates for one site) (Rs.1494/- per Rmt of basic rate + 20% for transporation of ave leadplus 20% for tribble/remote area (by tender process)(Rs.1494+149+149=1792/- per Rmt(1.60 Rmt height with G.I Chain link size 50mmx50m, 8 gauge thick and fixed 75mm above ground level complete as per SSR item No.1744 for 2017-18)								
		2.78	1164.71	49.77	1214.48	69.50	29117.72	1244.25	30361.97
4	Alignment of pits at at 3mx3m spacement 1111 pits per Ha (0.25 per 100 pits and M&S@Rs.2.24 per 50pits)								

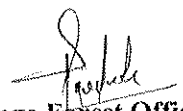
Sr. No.	Particulars of works	Mandays	Rate per Hectare			Mandays	Rate for 28 Hectare		
			Wages Rs.	M&S Rs.	Total Rs.		Wages Rs.	M&S Rs.	Total Rs.
5	Digging of pits of size 0.45x0.45x0.45 m (1111 pits per ha) 6.60 M.D per 100 pits Note - As per local condition provision for mechanized digging can be made	73.33	30722.34	0.00	30722.34	1833.25	768058.42	0.00	768058.42
6	Construction of 5.00Rmt wide Inspection Path 1 MD per 100 Rmt	1.00	418.96	0.00	418.96	25.00	10474.00	0.00	10474.00
7	Enumeration of all valuable plant species at plantation site and grid wise counting and providing colour band and recording the same in Register(0.75 M.D) per 100 plants	0.75	314.22	25.00	339.22	18.75	7855.50	625.00	8480.50
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	125000.00	125000.00
9	Part Nursery cost of raising 1333 seedling per ha (including 20% casualty replacement) in polygons of size 12.50x25.00cm(Wages Rs.11.90 and M&S Rs 3.62 per plant)	46.71	19569.62	4825.46	24395.08	1167.75	489240.54	120636.50	609877.04
	Total	167.97	70372.71	193263.23	263635.94	4199.25	1759317.78	4831580.75	6590898.53
		0.00	0.00	7909.08	7909.08	0.00	0.00	197726.96	197726.96
	Contengency 3%	0.00	0.00	10545.44	10545.44	0.00	0.00	263635.94	263635.94
	Labour welfare 4%	167.97	70372.71	211717.75	282090.46	4199.25	1759317.78	5292943.65	7052261.43
	Grand Total								
	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	6200.61	1079.73	7280.34	370.00	155015.20	26993.25	182008.45
2	Refilling of pits by good quality soil including aplication of single super phosphate(1.60MD per 100 pits)	18.44	7725.62	1944.25	9669.87	461.00	193140.56	48606.25	241746.81
3	Transportation of 1333 seedlings from nursery to plantation site including loading & uploading (0.14 MD per 100 seedlings & M.S Rs.1.82 Per seedlings)	1.87	783.46	2426.00	3209.46	46.75	19586.38	60650.00	80236.38
4	Planting of seedlings 1111 seedlings (1 M.D per 100 seedlings)	11.11	4654.65	0.00	4654.65	277.75	116366.14	0.00	116366.14
5	3 seedlings(1 Rmt circular) and 2 soil working (4.00 M.D per 100 seedlings) fertilizer application Rs.0.82 per seedling	44.44	18618.58	911.02	19529.60	1111.00	465464.56	22775.50	488240.06

Sr. No.	Particulars of works	Mandays	Rate per Hectare			Mandays	Rate for 28 Hectare		
			Wages Rs.	M&S Rs.	Total Rs.		Wages Rs.	M&S Rs.	Total Rs.
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@400/- each for supplying water and water supply at @Rs0.05 per Litre and wages for watering 1 M.D for 150 seedlings	59.25	24823.38	54395.00	79218.38	1481.25	620584.50	1359875.00	1980459.50
7	Casualty replacement(20% 222 Seedling per Ha)(2 MD per 100 Seedling)	4.44	1860.18	0.00	1860.18	111.00	46504.56	0.00	46504.56
8	Part Nursery cost for casualty replacement SYO(222 seedlings per ha)(wages Rs.11.90 and material supply Rs.3.62 total Rs.12.55 per seedlings)	7.77	3255.32	803.64	4058.96	194.25	81382.98	20091.00	101473.98
9	Watch and ward 10 months -1 watcher per 10.00 ha	27.38	11471.12	0.00	11471.12	684.50	286778.12	0.00	286778.12
10	Soil working for naturally grower plants and singling (1.15 M.D per 100 plants)	1.15	481.80	10.00	491.80	28.75	12045.10	250.00	12295.10
11	Fire tracing	2.00	837.92	0.00	837.92	50.00	20948.00	0.00	20948.00
	Total	192.65	80712.64	61569.64	142282.28	4816.25	2017816.10	1539241.00	3557057.10
	Contengency 3%	0.00	0.00	4268.47	4268.47	0.00	0.00	106711.71	106711.71
	Labour welfare 4%	0.00	0.00	5691.29	5691.29	0.00	0.00	142282.28	142282.28
	Grand Total	192.65	80712.64	71529.40	152242.04	4816.25	2017816.10	1788235.00	3806051.10
	Second Year Operations								
1	Part Nursery cost for seedling for casualty replacement (222 seedling per ha) labour rate@ Rs.3.77 and M.S Rs.1.82	2.46	1030.64	404.00	1434.64	61.50	25766.04	10100.00	35866.04
2	Transportation of 222 seedlings from nursery to plantation site including loading & uploading (0.14 MD per 100 seedlings & M.S Rs.1.82 Per seedlings)	0.31	129.88	404.04	533.92	7.75	3246.94	10101.00	13347.94
3	Planting for Casualty replacement 222 seedlings (2.00 M.D per 100 seedling)	4.44	1860.18	0.00	1860.18	111.00	46504.56	0.00	46504.56
4	2 weeding and 1 soil working with fertilzer application 2.5 M.D per 100 seedling at M.S Rs. 0.82 per seedling	27.77	11634.52	911.02	12545.54	694.25	290862.98	22775.50	313638.48
5	Watering 1111 seedlings November and December January and June 1 times each and February to May 2 times each total 12 times 5 Litre per seedling replacing 10% plastic can/matka @25/- each replacing 111 can/matka supplying water @Rs.0.50/- per litre and watering 150 seedlings per M.D	88.88	37237.16	36105.00	73342.16	2222.00	930929.12	902625.00	1833554.12
6	Watch and ward (12 months) -1 watcher per 10 ha	36.50	15292.04	0.00	15292.04	912.50	382301.00	0.00	382301.00

Sr. No.	Particulars of works	Mandays	Rate per Hectare			Mandays	Rate for 28 Hectare		
			Wages Rs.	M&S Rs.	Total Rs.		Wages Rs.	M&S Rs.	Total Rs.
							20948.00	0.00	20948.00
7	Fire tracing	2.00	837.92	0.00	837.92	50.00			
	Total	162.36	68022.35	37824.06	105846.41	4059.00	1700558.64	945601.50	2646160.14
	Contingency 3%	0.00	0.00	3175.39	3175.39	0.00	0.00	79384.80	79384.80
	Labour welfare 4%	0.00	0.00	4233.86	4233.86	0.00	0.00	105846.41	105846.41
	Grand Total	162.36	68022.35	45233.31	113255.65	4059.00	1700558.64	1130832.71	2831391.35
	Third Year Operation								
1	1 Weedings and 1 soil working (1.50 M.D per 100 plants) applying fertilizer @ Rs. 0.82 per plant	16.67	6984.06	911.02	7895.08	416.75	174601.58	22775.50	197377.08
2	Watering 556 seedlings November and December January and June 1 times each and February to May 2 times each total 12 times per seedling 5 Litre ra supplying water @Rs.0.50/- per litre and watering 150 seedlings per M.D	44.48	18635.34	16680.00	35315.34	1112.00	465883.52	417000.00	882883.52
3	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	15292.04	0.00	15292.04	912.50	382301.00	0.00	382301.00
4	Counting of suvival percentage grid wise and species wise and to note the same on Register in May and October	2.00	837.92	25.00	862.92	50.00	20948.00	625.00	21573.00
5	Fire tracing	2.00	837.92	0.00	837.92	18.00	7541.28	450.00	7991.28
	Total	101.65	42587.28	17616.02	60203.30	2509.25	1051275.38	440850.50	1492125.88
	Contingency 3%	0.00	0.00	1806.10	1806.10	0.00	0.00	44763.78	44763.78
	Labour welfare 4%	0.00	0.00	2408.13	2408.13	0.00	0.00	59685.04	59685.04
	Grand Total	101.65	42587.28	21830.25	64417.54	2509.25	1051275.38	545299.31	1596574.69
	Fourth Year Operation								
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	15292.04	0.00	15292.04	912.50	382301.00	0.00	382301.00
2	Counting of suvival percentage grid wise and species wise and to note the same on Register in May and	2.00	837.92	25.00	862.92	50.00	20948.00	625.00	21573.00
3	Fire tracing	2.00	837.92	0.00	837.92	50.00	20948.00	0.00	20948.00
	Total	40.50	16967.88	25.00	16992.88	1012.50	424197.00	625.00	424822.00
	Contingency 3%	0.00	0.00	509.79	509.79	0.00	0.00	12744.66	12744.66
	Labour welfare 4%	0.00	0.00	679.72	679.72	0.00	0.00	16992.88	16992.88
	Grand Total	40.50	16967.88	1214.50	18182.38	1012.50	424197.00	30362.54	454559.54
	Fifth Year Operation								
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	15292.04	0.00	15292.04	912.50	382301.00	0.00	382301.00
2	Counting of suvival percentage grid wise and species wise and to note the same on Register in May and	2.00	837.92	25.00	862.92	50.00	20948.00	625.00	21573.00
3	Fire tracing	2.00	837.92	0.00	837.92	50.00	20948.00	0.00	20948.00
	Total	40.50	16967.88	25.00	16992.88	1012.50	424197.00	625.00	424822.00
	Contingency 3%	0.00	0.00	509.79	509.79	0.00	0.00	12744.66	12744.66
	Labour welfare 4%	0.00	0.00	679.72	679.72	0.00	0.00	16992.88	16992.88
	Grand Total	40.50	16967.88	1214.50	18182.38	1012.50	424197.00	30362.54	454559.54

Sr. No.	Particulars of works	Mandays	Rate per Hectare			Mandays	Rate for 28 Hectare		
			Wages Rs.	M&S Rs.	Total Rs.		Wages Rs.	M&S Rs.	Total Rs.
	Sixth Year Operation								
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	15292.04	0.00	15292.04	912.50	382301.00	0.00	382301.00
2	Counting of suvival percentage grid wise and species wise and to note the same on Register in May and	2.00	837.92	25.00	862.92	50.00	20948.00	625.00	21573.00
3	Fire tracing	2.00	837.92	0.00	837.92	50.00	20948.00	0.00	20948.00
	Total	40.50	16967.88	25.00	16992.88	1012.50	424197.00	625.00	424822.00
	Contingency 3%	0.00	0.00	509.79	509.79	0.00	0.00	12744.66	12744.66
	Labour welfare 4%	0.00	0.00	679.72	679.72	0.00	0.00	16992.88	16992.88
	Grand Total	40.50	16967.88	1214.50	18182.38	1012.50	424197.00	30362.54	454559.54
	Seventh Year Operation								
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	15292.04	0.00	15292.04	912.50	382301.00	0.00	382301.00
2	Counting of suvival percentage grid wise and species wise and to note the same on Register in May and	2.00	837.92	25.00	862.92	50.00	20948.00	625.00	21573.00
3	Fire tracing	2.00	837.92	0.00	837.92	50.00	20948.00	0.00	20948.00
	Total	40.50	16967.88	25.00	16992.88	1012.50	424197.00	625.00	424822.00
	Contingency 3%	0.00	0.00	509.79	509.79	0.00	0.00	12744.66	12744.66
	Labour welfare 4%	0.00	0.00	679.72	679.72	0.00	0.00	16992.88	16992.88
	Grand Total	40.50	16967.88	1214.50	18182.38	1012.50	424197.00	30362.54	454559.54
	Eighth Year Operation								
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	15292.04	0.00	15292.04	912.50	382301.00	0.00	382301.00
2	Counting of suvival percentage grid wise and species wise and to note the same on Register in May and	2.00	837.92	25.00	862.92	50.00	20948.00	625.00	21573.00
3	Fire tracing	2.00	837.92	0.00	837.92	50.00	20948.00	0.00	20948.00
	Total	40.50	16967.88	25.00	16992.88	1012.50	424197.00	625.00	424822.00
	Contingency 3%	0.00	0.00	509.79	509.79	0.00	0.00	12744.66	12744.66
	Labour welfare 4%	0.00	0.00	679.72	679.72	0.00	0.00	16992.88	16992.88
	Grand Total	40.50	16967.88	1214.50	18182.38	1012.50	424197.00	30362.54	454559.54
	Ninth Year Operation								
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	15292.04	0.00	15292.04	912.50	382301.00	0.00	382301.00
2	Counting of suvival percentage grid wise and species wise and to note the same on Register in May and	2.00	837.92	25.00	862.92	50.00	20948.00	625.00	21573.00
3	Fire tracing	2.00	837.92	0.00	837.92	50.00	20948.00	0.00	20948.00
	Total	40.50	16967.88	25.00	16992.88	1012.50	424197.00	625.00	424822.00
	Contingency 3%	0.00	0.00	509.79	509.79	0.00	0.00	12744.66	12744.66
	Labour welfare 4%	0.00	0.00	679.72	679.72	0.00	0.00	16992.88	16992.88
	Grand Total	40.50	16967.88	1214.50	18182.38	1012.50	424197.00	30362.54	454559.54
	Tenth Year Operation								

Sr. No.	Particulars of works	Mandays	Rate per Hectare			Mandays	Rate for 28 Hectare		
			Wages Rs.	M&S Rs.	Total Rs.		Wages Rs.	M&S Rs.	Total Rs.
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	15292.04	0.00	15292.04	912.50	382301.00	0.00	382301.00
2	Counting of survival percentage grid wise and species wise and to note the same on Register in May and	2.00	837.92	25.00	862.92	50.00	20948.00	625.00	21573.00
3	Fire tracing	2.00	837.92	0.00	837.92	50.00	20948.00	0.00	20948.00
	Total	40.50	16967.88	25.00	16992.88	1012.50	424197.00	625.00	424822.00
	Contengency 3%	0.00	0.00	509.79	509.79	0.00	0.00	12744.66	12744.66
	Labour welfare 4%	0.00	0.00	679.72	679.72	0.00	0.00	16992.88	16992.88
	Grand Total	40.50	16967.88	1214.50	18182.38	1012.50	424197.00	30362.54	454559.54

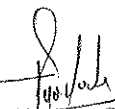

Range Forest Officer
Washala


Assistant Conservator of Forests
(Forestry & Wildlife) Shahapur


Deputy Conservator of Forests
Shahapur Forest Division, Shahapur

Abstract

Sr. No.	Year of Operation	Mandays	Wages	Material Supply	Total	Mandays	Wages	Material Supply	Total
1	Pre-monsoon Operations	167.97	70372.71	211717.75	282090.46	4199.25	1759317.78	5292943.65	7052261.43
2	First Year Operations	192.65	80712.64	71529.40	152242.04	4816.25	2017816.10	1788235.00	3806051.10
3	Second Year Operations	162.36	68022.35	45233.31	113255.65	4059.00	1700558.64	1130832.71	2831391.35
4	Third Year Operations	101.65	42587.28	21830.25	64417.54	2509.25	1051275.38	545299.31	1596574.69
5	Fourth Year Operations	40.50	16967.88	1214.50	18182.38	1012.50	424197.00	30362.54	454559.54
6	Fifth Year Operations	40.50	16967.88	1214.50	18182.38	1012.50	424197.00	30362.54	454559.54
7	Sixth Year Operations	40.50	16967.88	1214.50	18182.38	1012.50	424197.00	30362.54	454559.54
8	Seventh Year Operations	40.50	16967.88	1214.50	18182.38	1012.50	424197.00	30362.54	454559.54
9	Eighth Year Operation	40.50	16967.88	1214.50	18182.38	1012.50	424197.00	30362.54	454559.54
10	Ninth Year Operation	40.50	16967.88	1214.50	18182.38	1012.50	424197.00	30362.54	454559.54
11	Tenth Year Operation	40.50	16967.88	1214.50	18182.38	1012.50	424197.00	30362.54	454559.54
	Total	908.13	380470.14	358812.22	739282.36	22671.25	9498346.90	8969848.45	18468195.35


Range Forest Officer
Washala


Assistant Conservator of Forests
(Forestry & Wildlife) Shahapur


Deputy Conservator of Forests
Shahapur Forest Division, Shahapur

**Develoment of Vododara Mumbai Expressway (Phase-II SPUR) from KM 0+000 to KM 79+783 in the State of Maharastra Area
119.4411 ha.**

Compensatory Afforestation Scheme
(As per Model Rate Structure for Compensatory Afforestation Model No.5)

Name of Division :- Shahapur
Name of Round :- Pachivara
Name of Village :- Kothare
Spacement of pits - 3.00 m x 3.00 m
Size of pits - 0.45 x 0.45 x 0.56 m
No.of Seedlings per ha - 1100 per ha.

Name of Range :- Washala
Name of Beat :- Veluk
Protected Forest Sr.No. 657
Area in Ha:- 25
Daily Wage Rate:- 418.96

Sr. No.	Particulars of works	Mandays	Rate per Hectare			Mandays	Rate for 25 Hectare		
			Wages Rs.	M&S Rs.	Total Rs.		Wages Rs.	M&S Rs.	Total Rs.
	P.P.O.+ P.Y.O. WORKS								
1	a.Survey & Demarcation	1.00	418.96	91.00	509.96	25.00	10474.00	2275.00	12749.00
	b.Preparation of treatment map (100m x 50m grid)	1.00	418.96	91.00	509.96	25.00	10474.00	2275.00	12749.00
	c. Digging trial of size 0.30x0.30x0.60 in corner of grid	0.40	167.58	0.00	167.58	10.00	4189.60	0.00	4189.60
	d.Fixing 60cmx0.05cmx12cm cement pillars upto 30cm deep in corner of Grid.painting with Grid No.etc Complete (3 Pillers Rs.75/-for each pillers)	0.00	0.00	225.00	225.00	0.00	0.00	5625.00	5625.00
	e.Clearing of bushes and preparation of site(As per requirement)	10.00	4189.60	91.00	4280.60	250.00	104740.00	2275.00	107015.00
2	Soil & Moisture Conservation work including collection of Rubbles from areas up to 30 m.etc.	31.00	12987.76	0.00	12987.76	775.00	324694.00	0.00	324694.00
3	Providing and Fixing chain link fencing 102Rmt per ha (With one gate+two wickets gates for one site) (Rs.1494/- per Rmt of basic rate + 20% for transporation of ave leadplus 20% for tribble/remote area (by tender process)(Rs.1494+149+149=1792/- per Rmt(1.60 Rmt height with G.I Chain link size 50mmx50m, 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	0.00	4571625.00	4571625.00
4	Alignment of pits at at 3mx3m spacement 1111 pits per Ha (0.25 per 100 pits and M&S@Rs.2.24 per 50pits)	2.78	1164.71	49.77	1214.48	69.50	29117.72	1244.25	30361.97

Sr. No.	Particulars of works	Mandays	Rate per Hectare			Mandays	Rate for 25 Hectare		
			Wages Rs.	M&S Rs.	Total Rs.		Wages Rs.	M&S Rs.	Total Rs.
5	Digging of pits of size 0.45x0.45x0.45 m (1111 pits per ha)6.60 M.D per 100 pits Note - As per local condition provision for mechanized digging can be made	73.33	30722.34	0.00	30722.34	1833.25	768058.42	0.00	768058.42
6	Construction of 5.00Rmt wide Inspection Path 1 MD per 100 Rmt	1.00	418.96	0.00	418.96	25.00	10474.00	0.00	10474.00
7	Enumeration of all valuable plant species at plantation site and grid wise counting and providing colour band and recording the same in Register(0.75 M.D) per 100 plants	0.75	314.22	25.00	339.22	18.75	7855.50	625.00	8480.50
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	125000.00	125000.00
9	Part Nursery cost of raising 1333 seedling per ha (including 20% casualty replacement) in polygons of size 12.50x25.00cm(Wages Rs.11.90 and M&S Rs 3.62 per plant)	46.71	19569.62	4825.46	24395.08	1167.75	489240.54	120636.50	609877.04
	Total	167.97	70372.71	193263.23	263635.94	4199.25	1759317.78	4831580.75	6590898.53
	Contengency 3%	0.00	0.00	7909.08	7909.08	0.00	0.00	197726.96	197726.96
	Labour welfare 4%	0.00	0.00	10545.44	10545.44	0.00	0.00	263635.94	263635.94
	Grand Total	167.97	70372.71	211717.75	282090.46	4199.25	1759317.78	5292943.65	7052261.43
	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	6200.61	1079.73	7280.34	370.00	155015.20	26993.25	182008.45
2	Refilling of pits by good quality soil including aplication of single super phosphate(1.60MD per 100 pits)	18.44	7725.62	1944.25	9669.87	461.00	193140.56	48606.25	241746.81
3	Transportation of 1333 seedlings from nursery to plantation site including loading & uploading (0.14 MD per 100 seedlings & M.S Rs.1.82 Per seedlings)	1.87	783.46	2426.00	3209.46	46.75	19586.38	60650.00	80236.38
4	Planting of seedlings 1111 seedlings (1 M.D per 100 seedlings)	11.11	4654.65	0.00	4654.65	277.75	116366.14	0.00	116366.14
5	3 seedlings(1 Rmt circular) and 2 soil working (4.00 M.D per 100 seedlings) fertilizer application Rs.0.82 per seedling	44.44	18618.58	911.02	19529.60	1111.00	465464.56	22775.50	488240.06

Sr. No.	Particulars of works	Mandays	Rate per Hectare			Mandays	Rate for 25 Hectare		
			Wages Rs.	M&S Rs.	Total Rs.		Wages Rs.	M&S Rs.	Total Rs.
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@400/- each for supplying water and water supply at @Rs0.05 per Litre and wages for watering 1 M.D for 150 seedlings	59.25	24823.38	54395.00	79218.38	1481.25	620584.50	1359875.00	1980459.50
7	Casualty replacement(20% 222 Seedling per Ha)(2 MD per 100 Seedling)	4.44	1860.18	0.00	1860.18	111.00	46504.56	0.00	46504.56
8	Part Nursery cost for casualty replacement SYO(222 seedlings per ha)(wages Rs.11.90 and material supply Rs.3.62 total Rs.12.55 per seedlings)	7.77	3255.32	803.64	4058.96	194.25	81382.98	20091.00	101473.98
9	Watch and ward 10 months -1 watcher per 10.00 ha	27.38	11471.12	0.00	11471.12	684.50	286778.12	0.00	286778.12
10	Soil working for naturally grower plants and singling (1.15 M.D per 100 plants)	1.15	481.80	10.00	491.80	28.75	12045.10	250.00	12295.10
11	Fire tracing	2.00	837.92	0.00	837.92	50.00	20948.00	0.00	20948.00
	Total	192.65	80712.64	61569.64	142282.28	4816.25	2017816.10	1539241.00	3557057.10
	Contengency 3%	0.00	0.00	4268.47	4268.47	0.00	0.00	106711.71	106711.71
	Labour welfare 4%	0.00	0.00	5691.29	5691.29	0.00	0.00	142282.28	142282.28
	Grand Total	192.65	80712.64	71529.40	152242.04	4816.25	2017816.10	1788235.00	3806051.10
	Second Year Operations								
1	Part Nursery cost for seedling for casualty replacement (222 seedling per ha) labour rate@ Rs.3.77 and M.S Rs.1.82	2.46	1030.64	404.00	1434.64	61.50	25766.04	10100.00	35866.04
2	Transportation of 222 seedlings from nursery to plantation site including loading & uploading (0.14 MD per 100 seedlings & M.S Rs.1.82 Per seedlings)	0.31	129.88	404.04	533.92	7.75	3246.94	10101.00	13347.94
3	Planting for Casualty replacement 222 seedlings (2.00 M.D per 100 seedling)	4.44	1860.18	0.00	1860.18	111.00	46504.56	0.00	46504.56
4	2 weeding and 1 soil working with fertilzer application 2.5 M.D per 100 seedling at M.S Rs. 0.82 per seedling	27.77	11634.52	911.02	12545.54	694.25	290862.98	22775.50	313638.48
5	Watering 1111 seedlings November and December January and june 1 times each and February to May 2 times each total 12 times 5 Litre per seedling replacing 10% plastic can/matka @25/- each replacing 111 can/matka supplying water @Rs.0.50/- per litre and watering 150 seedlings per M.D	88.88	37237.16	36105.00	73342.16	2222.00	930929.12	902625.00	1833554.12
6	Watch and ward (12 months) -1 watcher per 10 ha	36.50	15292.04	0.00	15292.04	912.50	382301.00	0.00	382301.00

Sr. No.	Particulars of works	Mandays	Rate per Hectare			Mandays	Rate for 25 Hectare		
			Wages Rs.	M&S Rs.	Total Rs.		Wages Rs.	M&S Rs.	Total Rs.
7	Fire tracing	2.00	837.92	0.00	837.92	50.00	20948.00	0.00	20948.00
	Total	162.36	68022.35	37824.06	105846.41	4059.00	1700558.64	945601.50	2646160.14
	Contengency 3%	0.00	0.00	3175.39	3175.39	0.00	0.00	79384.80	79384.80
	Labour welfare 4%	0.00	0.00	4233.86	4233.86	0.00	0.00	105846.41	105846.41
	Grand Total	162.36	68022.35	45233.31	113255.65	4059.00	1700558.64	1130832.71	2831391.35
	Third Year Operation								
1	1 Weedings and 1 soil working (1.50 M.D per 100 plants) applying fertilizer @ Rs. 0.82 per plant	16.67	6984.06	911.02	7895.08	416.75	174601.58	22775.50	197377.08
2	Watering 556 seedlings November and December January and June 1 times each and February to May 2 times each total 12 times per seedling 5 Litre ra supplying water @Rs.0.50/- per litre and watering 150 seedlings per M.D	44.48	18635.34	16680.00	35315.34	1112.00	465883.52	417000.00	882883.52
3	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	15292.04	0.00	15292.04	912.50	382301.00	0.00	382301.00
4	Counting of suvival percentage grid wise and species wise and to note the same on Register in May and October	2.00	837.92	25.00	862.92	50.00	20948.00	625.00	21573.00
5	Fire tracing	2.00	837.92	0.00	837.92	18.00	7541.28	450.00	7991.28
	Total	101.65	42587.28	17616.02	60203.30	2509.25	1051275.38	440850.50	1492125.88
	Contengency 3%	0.00	0.00	1806.10	1806.10	0.00	0.00	44763.78	44763.78
	Labour welfare 4%	0.00	0.00	2408.13	2408.13	0.00	0.00	59685.04	59685.04
	Grand Total	101.65	42587.28	21830.25	64417.54	2509.25	1051275.38	545299.31	1596574.69
	Fourth Year Operation								
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	15292.04	0.00	15292.04	912.50	382301.00	0.00	382301.00
2	Counting of suvival percentage grid wise and species wise and to note the same on Register in May and	2.00	837.92	25.00	862.92	50.00	20948.00	625.00	21573.00
3	Fire tracing	2.00	837.92	0.00	837.92	50.00	20948.00	0.00	20948.00
	Total	40.50	16967.88	25.00	16992.88	1012.50	424197.00	625.00	424822.00
	Contengency 3%	0.00	0.00	509.79	509.79	0.00	0.00	12744.66	12744.66
	Labour welfare 4%	0.00	0.00	679.72	679.72	0.00	0.00	16992.88	16992.88
	Grand Total	40.50	16967.88	1214.50	18182.38	1012.50	424197.00	30362.54	454559.54
	Fifth Year Operation								
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	15292.04	0.00	15292.04	912.50	382301.00	0.00	382301.00
2	Counting of suvival percentage grid wise and species wise and to note the same on Register in May and	2.00	837.92	25.00	862.92	50.00	20948.00	625.00	21573.00
3	Fire tracing	2.00	837.92	0.00	837.92	50.00	20948.00	0.00	20948.00
	Total	40.50	16967.88	25.00	16992.88	1012.50	424197.00	625.00	424822.00
	Contengency 3%	0.00	0.00	509.79	509.79	0.00	0.00	12744.66	12744.66
	Labour welfare 4%	0.00	0.00	679.72	679.72	0.00	0.00	16992.88	16992.88
	Grand Total	40.50	16967.88	1214.50	18182.38	1012.50	424197.00	30362.54	454559.54

Sr. No.	Particulars of works	Mandays	Rate per Hectare			Mandays	Rate for 25 Hectare		
			Wages Rs.	M&S Rs.	Total Rs.		Wages Rs.	M&S Rs.	Total Rs.
	Sixth Year Operation								
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	15292.04	0.00	15292.04	912.50	382301.00	0.00	382301.00
2	Counting of suvival percentage grid wise and species wise and to note the same on Register in May and	2.00	837.92	25.00	862.92	50.00	20948.00	625.00	21573.00
3	Fire tracing	2.00	837.92	0.00	837.92	50.00	20948.00	0.00	20948.00
	Total	40.50	16967.88	25.00	16992.88	1012.50	424197.00	625.00	424822.00
	Contengency 3%	0.00	0.00	509.79	509.79	0.00	0.00	12744.66	12744.66
	Labour welfare 4%	0.00	0.00	679.72	679.72	0.00	0.00	16992.88	16992.88
	Grand Total	40.50	16967.88	1214.50	18182.38	1012.50	424197.00	30362.54	454559.54
	Seventh Year Operation								
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	15292.04	0.00	15292.04	912.50	382301.00	0.00	382301.00
2	Counting of suvival percentage grid wise and species wise and to note the same on Register in May and	2.00	837.92	25.00	862.92	50.00	20948.00	625.00	21573.00
3	Fire tracing	2.00	837.92	0.00	837.92	50.00	20948.00	0.00	20948.00
	Total	40.50	16967.88	25.00	16992.88	1012.50	424197.00	625.00	424822.00
	Contengency 3%	0.00	0.00	509.79	509.79	0.00	0.00	12744.66	12744.66
	Labour welfare 4%	0.00	0.00	679.72	679.72	0.00	0.00	16992.88	16992.88
	Grand Total	40.50	16967.88	1214.50	18182.38	1012.50	424197.00	30362.54	454559.54
	Eighth Year Operation								
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	15292.04	0.00	15292.04	912.50	382301.00	0.00	382301.00
2	Counting of suvival percentage grid wise and species wise and to note the same on Register in May and	2.00	837.92	25.00	862.92	50.00	20948.00	625.00	21573.00
3	Fire tracing	2.00	837.92	0.00	837.92	50.00	20948.00	0.00	20948.00
	Total	40.50	16967.88	25.00	16992.88	1012.50	424197.00	625.00	424822.00
	Contengency 3%	0.00	0.00	509.79	509.79	0.00	0.00	12744.66	12744.66
	Labour welfare 4%	0.00	0.00	679.72	679.72	0.00	0.00	16992.88	16992.88
	Grand Total	40.50	16967.88	1214.50	18182.38	1012.50	424197.00	30362.54	454559.54
	Ninth Year Operation								
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	15292.04	0.00	15292.04	912.50	382301.00	0.00	382301.00
2	Counting of suvival percentage grid wise and species wise and to note the same on Register in May and	2.00	837.92	25.00	862.92	50.00	20948.00	625.00	21573.00
3	Fire tracing	2.00	837.92	0.00	837.92	50.00	20948.00	0.00	20948.00
	Total	40.50	16967.88	25.00	16992.88	1012.50	424197.00	625.00	424822.00
	Contengency 3%	0.00	0.00	509.79	509.79	0.00	0.00	12744.66	12744.66
	Labour welfare 4%	0.00	0.00	679.72	679.72	0.00	0.00	16992.88	16992.88
	Grand Total	40.50	16967.88	1214.50	18182.38	1012.50	424197.00	30362.54	454559.54
	Tenth Year Operation								

Sr. No.	Particulars of works	Mandays	Rate per Hectare			Mandays	Rate for 25 Hectare		
			Wages Rs.	M&S Rs.	Total Rs.		Wages Rs.	M&S Rs.	Total Rs.
1	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	15292.04	0.00	15292.04	912.50	382301.00	0.00	382301.00
2	Counting of survival percentage grid wise and species wise and to note the same on Register in May and	2.00	837.92	25.00	862.92	50.00	20948.00	625.00	21573.00
3	Fire tracing	2.00	837.92	0.00	837.92	50.00	20948.00	0.00	20948.00
	Total	40.50	16967.88	25.00	16992.88	1012.50	424197.00	625.00	424822.00
	Contengency 3%	0.00	0.00	509.79	509.79	0.00	0.00	12744.66	12744.66
	Labour welfare 4%	0.00	0.00	679.72	679.72	0.00	0.00	16992.88	16992.88
	Grand Total	40.50	16967.88	1214.50	18182.38	1012.50	424197.00	30362.54	454559.54

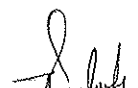

Range Forest Officer
Washala


Assistant Conservator of Forests
(Forestry & Wildlife) Shahapur


Deputy Conservator of Forests
Shahapur Forest Division, Shahapur

Abstract

Sr. No.	Year of Operation	Mandays	Wages	Material Supply	Total	Mandays	Wages	Material Supply	Total
1	Pre-monsoon Operations	167.97	70372.71	211717.75	282090.46	4199.25	1759317.78	5292943.65	7052261.43
2	First Year Operations	192.65	80712.64	71529.40	152242.04	4816.25	2017816.10	1788235.00	3806051.10
3	Second Year Operations	162.36	68022.35	45233.31	113255.65	4059.00	1700558.64	1130832.71	2831391.35
4	Third Year Operations	101.65	42587.28	21830.25	64417.54	2509.25	1051275.38	545299.31	1596574.69
5	Fourth Year Operations	40.50	16967.88	1214.50	18182.38	1012.50	424197.00	30362.54	454559.54
6	Fifth Year Operations	40.50	16967.88	1214.50	18182.38	1012.50	424197.00	30362.54	454559.54
7	Sixth Year Operations	40.50	16967.88	1214.50	18182.38	1012.50	424197.00	30362.54	454559.54
8	Seventh Year Operations	40.50	16967.88	1214.50	18182.38	1012.50	424197.00	30362.54	454559.54
9	Eighth Year Operation	40.50	16967.88	1214.50	18182.38	1012.50	424197.00	30362.54	454559.54
10	Ninth Year Operation	40.50	16967.88	1214.50	18182.38	1012.50	424197.00	30362.54	454559.54
11	Tenth Year Operation	40.50	16967.88	1214.50	18182.38	1012.50	424197.00	30362.54	454559.54
	Total	908.13	380470.14	358812.22	739282.36	22671.25	9498346.90	8969848.45	18468195.35


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(Forestry & Wildlife) Shahapur


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