

Abstract for Model No.5

Village -Kholawadi

F.C.No.

168

Area

2.20

Ha.

Name of Project - Diversion of forest land for underground OFC duct and cable within ROW of existing road SH-139 & SH-140, road passing through forest land at Mukawale, Machutar, Mahabaleshwar. Tal-Jawli & Mahabaleshwar Dist.Satara.

(Amount in Rs.)

Sr. No.	Year of Operation	Man days	Wages	Material supply	Total	Other Expense	Total	Total amount (rounded off)
1	Per Monsoon works	369.53	152872.52	424980.23	577852.75	40449.69	618302.44	618302.00
2	First Year Operations	401.83	182852.74	135453.16	318305.91	22281.41	340587.32	340587.00
3	Second Year Operations	357.19	178792.46	83213.02	262005.48	18340.38	280345.86	280346.00
4	Third Year Operations	223.63	123130.68	38755.24	161885.92	11332.01	173217.94	173218.00
5	Fourth Year Operations	89.10	53964.31	55.00	54019.31	3781.35	57800.66	57801.00
6	Fifth Year Operations	89.10	59360.20	55.00	59415.20	4159.06	63574.27	63574.00
7	Sixth Year Operations	89.10	65296.04	55.00	65351.04	4574.57	69925.62	69926.00
8	Seventh Year Operations	89.10	71825.29	55.00	71880.29	5031.62	76911.91	76912.00
9	Eight Year Operations	89.10	79004.97	55.00	79059.97	5534.20	84594.17	84594.00
10	Nine Year Operations	89.10	86908.14	55.00	86963.14	6087.42	93050.56	93051.00
11	Ten Year Operations	89.10	95595.39	55.00	95650.39	6695.53	102345.92	102346.00
	Total	1975.89	1149602.74	682786.65	1832389.39	128267.26	1960656.65	1960657.00

Cost per plants Rs. 1764.77

Note :- The Rates indicated are as per Principal Conservator Of Forest

(Hoff) Maharashtra State, Nagpur, Sanctioned Order No.Desk-

1/EGS/P.K.10/2282/2017-18 Nagpur Dated.07/03/2018

Model Rate Structure For Compensatory Afforestation Model No.5


Dy.Conservator of Forest
Satara Forest Division Satara

Assistant Conservator of Forest
Satara Forest Division Satara


Range Forest Officer,
Wai

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**Model No 5, P.C.F (HoFF) M.S. Nagpur , latter no D17/ Nodal cell/ CR -
40/ 1127 / 2019-20 dated 04.10.2019**

Model rate structure for plantation of mixed tree spp- Neem, Awala,Jambhul, Behada etc.

Plantation at degraded forest F. C.No.168 at Village- Kholawadi Tal. Wai, Dist. Satara

Size of Pits -0.45 x 0.45 x0.45 m No of seedlings 1111 per ha

Estimate for Wage rate -per day. 413.69 Ha - 2.20

Proposal - Diversion of forest land for underground OFC duct and cable within ROW of existing road SH-139 & SH-140, road passing through forest land at Mukawale, Machutar, Mahabaleshwar. Tal-Jawli & Mahabaleshwar Dist.Satara.

Sr. n	Particulars	Mondays	Wages	M. & S.	Amount For 1 ha	Monday s	Wages	M. & S.	Amount For 2.20 ha
A) Pre-monsoon works PYO + PPO									
1	a) Survey & Demarcation	1	413.69	91	504.69	2.2	910.118	200.2	1110.318
	b) Preparation of Treatment Map.(100 m x50m gride	1	413.69	91	504.69	2.2	910.118	200.2	1110.318
	c) Digging of trial pits of size 0.30 x0.30x0.60 in grid cor.)	0.4	165.476	0	165.476	0.88	364.0472	0	364.0472
	d) Fixing 60cm x 0.05cm x 12cm cement pillars up to 30cm deep in corner of Grid. Painting with Grid no etc. complete. (3 pillars Rs 75/for each pillars)	0	0	225	225	0	0	495	495
	e) Cleaning of brushes and preparation of site (As per requirement)	10	4136.9	0	4136.9	22	9101.18	0	9101.18
2	Soil and Moisture conservation works including collection of rubbles from area up 30m	31	12824.39	0	12824.39	68.2	28213.658	0	28213.658
3	Providing and fixing chain link fencing,102 Rmt. per ha. (with one gate+ Two wicket gate for one side) (Rs. 1494/ Per Rmt. of basic + transportation of agave. lead plus 20% for tribal/remote area	0	0	182865.6	182865.6	0	0	402304.32	402304.32
4	Alignments for pits at 3m x3m spacements, 1111 per ha (0.25 per 100 Pits and M&S @ Rs 2.24 pre 50 pits.	2.78	1150.0582	49.77	1199.8282	6.116	2530.12804	109.494	2639.62204
5	Digging of pits of size 0.45x 0.45 0.45 m(1111 pits per ha.)6.60 M.D. per 100 Pits.	73.33	30335.8877	0	30335.8877	161.326	66738.95294	0	66738.95294
6	Construction of 5.00 Rmt. wide Inspection Path. 1 MD per 100 Rmt.	1	413.69	0	413.69	2.2	910.118	0	910.118
7	Enumeration of all valuable plant spp at plantation site and grid wise counting & colour band and recording the same in register (0.75 M.D.) per 100 plants.	0.75	310.2675	25	335.2675	1.65	682.5885	55	737.5885
8	Providing and fixing (4feet x 3 feet) Information board each per site.	0	0	5,000.00	5000	0	0	11000	11000
9	Part Nursery cost for resining 1333/per Ha. (Including 20% causality replacement) in polybags of size 12.5 cm x25 cm (wages Rs. 11.90 & M & S Rs3.62 per plant)	46.71	19323.4599	4825.46	24148.9199	102.762	42511.61178	10616.012	53127.62378
Total		167.97	69,487.51	193263.8	258,772.10	369.534	152,872.52	424,980.23	577,852.75
Contingency 3%			0	7763.16	7763.16		0	17335.58	17335.58
Labour welfare 4%			0	10350.88	10350.88		0	23114.11	23114.11
Ground Total		167.97	69,487.51	211,377.84	276,886.14	369.53	152,872.52	465,429.92	618,302.44
								Say Rs.	618,302

Range Forest Officer,
Wai

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Model rate structure for plantation of mixed tree spp- Neem, Awala, Jambhul, Behada etc.

Plantation at degraded forest F. C.No.168 at Village- Kholawadi Tal. Wai, Dist. Satara

Size of Pits -0.45 x 0.45 x0.45 m No of seedlings 1111 per ha

**Proposal - Diversion of forest land for underground OFC duct and cable within ROW of existing road SH-139 & SH-140, road passing through forest land at Mukawale,
Machutar, Mahabaleshwar. Tal-Jawli & Mahabaleshwar Dist.Satara.**

Ha - 2.20

Estimate for Wage rate per day - : 455.05

Sr. n	Particulars	Mondays	Wages	M.& S.	Amount	Monday s	Wages	M.& S.	Amount
					For 1 ha				For 2.20 ha
B) First Year Operations									
1	Part Nursery cost for resining 1333/seedlings per Ha. (wages Rs. 3.77 & M & S Rs. 0.81)	14.8	6734.74	1079.73	7814.47	32.56	14816.428	2375.406	17191.834
2	Refiling of pits with good quality soil including application of signal super & fertilizer @ 1.75 per seedling Phosphate (15 MD for 100 Trench)	8.44	3840.622	1944.25	5784.872	18.568	8449.3684	4277.35	12726.7184
3	Transportation of 1333 seedlings from Nursery to plantation site including loading & unloading(0.14 M.D. per 100seedlings M & S Rs.1.82 Per seedlings)	1.87	850.9435	2426	3276.9435	4.114	1872.0757	5337.2	7209.2757
4	Plantation of seedlings 1111 seedlings per ha.(1 M.D. per 100seedlings)	11.11	5055.6055	0	5055.6055	24.442	11122.332	0	11122.3321
5	3 weddings (1RM circular) and 2 soil workings (4 M.D. per 100 seedlings) fertilizer application Rs 0.82 ha per seed.	44.44	20222.422	911	21133.422	97.768	44489.328	2004.2	46493.5284
6	Watering 1111 seedlings in Nov , Dec. Jan, And Jun 1 time each and Feb. to May 2 times each total 12 times 5 lit. per seedlings ,purchase of 1111 plastic can of 5 lit. capacity/ matka @Rs 25 / each and 100 lit capacity 11 drum @ Rs 4000/ each for supplying water & Water supply @Rs. 0.50/ -lit. and watering 150 seedling per M.D.	59.25	26961.713	54395	81356.713	130.35	59315.768	119669	178984.7675
7	Causality replacement (20% 222seedling per ha./ 2.M.D.per 100 seedlings)	4.44	2020.422	0	2020.422	9.768	4444.9284	0	4444.9284
8	Part Nursery cost for causality replacement in SYO (222 seedlings per ha) wages Rs. 11.90 & M.S. Rs3.62 Total Rs. 12.55 per ha.	7.77	3535.7385	803.64	4339.3785	17.094	7778.6247	1768.008	9546.6327
9	Watch and ward (10 month -1 watcher per 10 ha	27.38	12459.269	0	12459.269	60.236	27410.392	0	27410.3918
10	Soil working of naturally growing plant and singling (1.15 MD per 100 plants	1.15	523.3075	10	533.3075	2.53	1151.2765	22	1173.2765
11	Fire tracing	2	910.1	0	910.1	4.4	2002.22	0	2002.22
Total		182.65	83,114.88	61569.62	144,684.50	401.83	182,852.74	135,453.16	318,305.91
Contingency 3 %			0	4340.54	4340.54			9549.18	9549.18
Labour Welfare 4%			0	5787.38	5787.38			12732.24	12732.24
Grand Total		182.65	83,114.88	71,697.54	154,812.42	401.83	182,852.74	157,734.58	340,587.32
								Say Rs.	340,587

Range Forest Officer,
Wai

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Model rate structure for plantation of mixed tree spps- Neem, Awala,Jambhul, Behada etc.

Plantation at degraded forest F. C.No.168 at Village- Kholawadi Tal. Wai, Dist. Satara

Size of Pits -0.45 x 0.45 x0.45 m No of seedlings 1111 per ha

**Proposal - Diversion of forest land for underground OFC duct and cable within ROW of existing road SH-139 & SH-140, road passing through forest land at Mukawale,
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Ha - 2.20

Estimate for Wage rate per day- : 500.55

Sr. n	Particulars	Mondays	Wages	M. & S.	Amount	Monday s	Wages	M. & S.	Amount
					For 1 ha				For 2.20 ha
C) Second Year Operations									
1	Part Nursery cost for seedlings for causality replacement (222 Seedlings per ha.) labour Levy Rs.3.77 & M.S. Rs. 1.82 per seedling	2.46	1231.353	404.04	1635.393	5.412	2708.9766	888.888	3597.8646
2	Transportation of 222 seedling for casualty replacement from Nursery to plantation site (including loading & unloading) 0.14 M.D. & M.S.Rs.1.82 Per seedlings)	0.31	155.1705	404.04	559.2105	0.682	341.3751	888.888	1230.2631
3	Planting for causality replacement 222 seedlings (2.00 M.D. per 100 Seedlings.)	4.44	2222.442	0	2222.442	9.768	4889.3724	0	4889.3724
4	2 weeding's and 1 soil workings, with fertilizer appli. at Rs 2.5 MD per 100 plant M.S. Rs 0.82 per seedling	27.77	13900.274	911.02	14811.294	61.094	30580.602	2004.244	32584.8457
5	Watering 1111 seedlings in Nov , Dec. Jan, And Jun 1 time each and Feb. to May 2 times each total 12 times 5 lit. per seedlings, replacing 10% plastic can /matka @Rs 25 / Each replacing 111 cans/matka, supplying Water @Rs. 0.50/ -lit. and watering 150 seedling per M.D.	88.88	44488.884	36105	80593.884	195.54	97875.545	79431	177306.5448
6	Watch and ward, 12-month -1 watcher per 10 ha.	36.5	18270.075	0	18270.075	80.3	40194.165	0	40194.165
7	Fire tracing	2	1001.1	0	1001.1	4.4	2202.42	0	2202.42
Total		162.36	81,269.30	37,824.10	119,093.40	357.19	178,792.46	83,213.02	262,005.48
Contingency 3 %			0	3572.80	3572.80			7860.16	7860.16
Labour Welfare 4%			0	4763.74	4763.74			10480.22	10480.22
Grand Total		162.36	81,269.30	46,160.64	127,429.94	357.19	178,792.46	101,553.40	280,345.86
								Say Rs.	280,346

**Range Forest Officer,
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2.20

Ha -

Estimate for Wage rate per day- : 550.6

Sr. n	Particulars	Mondays	Wages	M. & S.	Amount For 1 ha	Monday s	Wages	M. & S.	Amount For 2.20 ha
D) Third year Operation									
1	1 weeding and 1 soil workings (1.5 M.D. Per 100 seedlings) applying fertilizer @ Rs. 0.82 Per plant	16.67		911.02	911.02	36.674	20192.704	2004.244	22196.9484
2	Watering 556 seedlings in Nov , Dec. Jan, And Jun 1 time each and Feb. to May 2 times each total 12 times per seedlings 5 lit. water supply @ Rs. 0.50/ -lit. and watering 150 seedling per M.D.	44.48	24,490.69	16680	41,170.69	97.856	53879.514	36696	90575.5136
3	Watch and ward, 12 month -1 watcher per 10 ha.	36.5	20,096.90	0	20,096.90	80.3	44213.18	0	44213.18
4	Counting of survival % grid wise & species wise and Note the same on register in May & October	2	1,101.20	25	1,126.20	4.4	2422.64	55	2477.64
5	Fire tracing	2	1,101.20	0	1,101.20	4.4	2422.64	0	2422.64
	Total	101.65	46,789.99	17,616.02	64,406.01	223.63	123,130.68	38,755.24	161,885.92
	Contingency 3 %		0	1932.18	1932.18			4856.58	4856.58
	Labour Welfare 4%		0	2576.24	2576.24			6475.44	6475.44
	Grand Total	101.65	46789.988	22124.44	68,914.43	223.63	123,130.68	50,087.26	173,217.94
								Say Rs.	173,218


**Range Forest Officer,
Wai**

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Model rate structure for plantation of mixed tree spps- Neem, Awala,Jambhul, Behada etc.

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Ha - 2.20

Estimate for Wage rate per day- : 605.66

Sr. n	Particulars	Mondays	Wages	M. & S.	Amount For 1 ha	Monday s	Wages	M. & S.	Amount For 2.20 ha
E) Fourth Year Operations									
1	Watch and ward, 12 month -1 watcher per 10 ha.	36.5	22106.59	0	22106.59	80.3	48634.498	0	48634.498
2	Counting of survival % grid wise & species wise & Note the same on register in May & October	2	1211.32	25	1236.32	4.4	2664.904	55	2719.904
3	Fire tracing	2	1211.32	0	1211.32	4.4	2664.904	0	2664.904
	Total	40.5	24529.23	25.00	24554.23	89.10	53964.31	55.00	54019.31
	Contingency 3 %		0	736.63	736.63			1620.58	1620.58
	Labour Welfare 4%		0	982.17	982.17			2160.77	2160.77
	Grand Total	40.50	24529.23	1743.80	26273.03	89.10	53964.31	3836.35	57800.66
								Say Rs.	57801


**Range Forest Officer,
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Machutar, Mahabaleshwar. Tal-Jawli & Mahabaleshwar Dist.Satara.**

Ha - 2.20

Estimate for Wage rate per day- : 666.22

Sr. n	Particulars	Mondays	Wages	M.& S.	Amount	Monday s	Wages	M.& S.	Amount
					For 1 ha				For 2.20 ha
F) Fifth Year Operations									
1	Watch and ward, 12 month -1 watcher per 10 ha.	36.5	24317.03	0	24317.03	80.3	53497.466	0	53497.466
2	Counting of survival % Grid wise & species wise &Note the same on register in May & October	2	1332.44	25	1357.44	4.4	2931.368	55	2986.368
3	Fire tracing	2	1332.44	0	1332.44	4.4	2931.368	0	2931.368
Total		40.5	26981.91	25.00	27006.91	89.10	59360.20	55.00	59415.20
Contingency 3 %			0	810.21	810.21			1782.46	1782.46
Labour Welfare 4%			0	1080.28	1080.28			2376.61	2376.61
Grand Total		40.50	26981.91	1915.48	28897.39	89.10	59360.20	4214.06	63574.27
								Say Rs.	63574


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Ha - 2.20

Estimate for Wage rate per day:- 732.84

Sr. n	Particulars	Mondays	Wages	M.& S.	Amount	Monday s	Wages	M.& S.	Amount
					For 1 ha				For 2.20 ha
G) Six Year Operations									
1	Watch and ward, 12 month -1 watcher per 10 ha.	36.5	26748.66	0	26748.66	80.3	58847.052	0	58847.052
2	Counting of survival % Grid wise & species wise & Note the same on register in May & October	2	1465.68	25	1490.68	4.4	3224.496	55	3279.496
3	Fire tracing	2	1465.68	0	1465.68	4.4	3224.496	0	3224.496
Total		40.5	29680.02	25.00	29705.02	89.10	65296.04	55.00	65351.04
Contingency 3 %			0	891.15	891.15			1960.53	1960.53
Labour Welfare 4%			0	1188.20	1188.20			2614.04	2614.04
Grand Total		40.50	29680.02	2104.35	31784.37	89.10	65296.04	4629.57	69925.62
								Say Rs.	69926


**Range Forest Officer,
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Ha - 2.20

Estimate for Wage rate per day:- 806.12

Sr. n	Particulars	Mondays	Wages	M.& S.	Amount	Monday s	Wages	M.& S.	Amount
					For 1 ha				For 2.20 ha
H) Seventh Year Operations									
1	Watch and ward, 12 month -1 watcher per 10 ha.	36.5	29423.38	0	29423.38	80.3	64731.436	0	64731.436
2	Counting of survival % Grid wise & species wise & Note the same on register in May & October	2	1612.24	25	1637.24	4.4	3546.928	55	3601.928
3	Fire tracing	2	1612.24	0	1612.24	4.4	3546.928	0	3546.928
Total		40.5	32647.86	25.00	32672.86	89.10	71825.29	55.00	71880.29
Contingency 3 %			0	980.19	980.19			2156.41	2156.41
Labour Welfare 4%			0	1306.91	1306.91			2875.21	2875.21
Grand Total		40.50	32647.86	2312.10	34959.96	89.10	71825.29	5086.62	76911.91
								Say Rs.	76912


**Range Forest Officer,
Wai**

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Ha - 2.20

Estimate for Wage rate per day - : 886.7

Sr. n	Particulars	Mondays	Wages	M.& S.	Amount	Monday s	Wages	M.& S.	Amount
					For 1 ha				For 2.20 ha
D) Eight Year Operations									
1	Watch and ward, 12 month -1 watcher per 10 ha.	36.5	32364.55	0	32364.55	80.3	71202.01	0	71202.01
2	Counting of survival % Grid wise & species wise & Note the same on register in May & October	2	1773.4	25	1798.4	4.4	3901.48	55	3956.48
3	Fire tracing	2	1773.4	0	1773.4	4.4	3901.48	0	3901.48
Total		40.5	35911.35	25.00	35936.35	89.10	79004.97	55.00	79059.97
Contingency 3 %			0	1078.09	1078.09			2371.80	2371.80
Labour Welfare 4%			0	1437.45	1437.45			3162.40	3162.40
Grand Total		40.50	35911.35	2540.54	38451.89	89.10	79004.97	5589.20	84594.17
								Say Rs.	84594


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Model rate structure for plantation of mixed tree spps- Neem, Awala, Jambhul, Behada etc.

Plantation at degraded forest F. C.No.168 at Village- Kholawadi Tal. Wai, Dist. Satara

Size of Pits -0.45 x 0.45 x 0.45 m No of seedlings 1111 per ha

Proposal - Diversion of forest land for underground OFC duct and cable within ROW of existing road SH-139 & SH-140, road passing through forest land at Mukawale,
Machutar, Mahabaleshwar. Tal-Jawli & Mahabaleshwar Dist.Satara.

2.20

Ha -

Estimate for Wage rate per day - : 975.4

Sr. n	Particulars	Mondays	Wages	M.& S.	Amount	Monday s	Wages	M.& S.	Amount
					For 1 ha				For 2.20 ha
J) Ninth Year operations									
1	Watch and ward, 12 month -1 watcher per 10 ha.	36.5	35602.1	0	35602.1	80.3	78324.62	0	78324.62
2	Counting of survival % Grid wise & species wise & Note the same on register in May & October	2	1950.8	25	1975.8	4.4	4291.76	55	4346.76
3	Fire tracing	2	1950.8	0	1950.8	4.4	4291.76	0	4291.76
Total		40.5	39503.70	25.00	39528.70	89.10	86908.14	55.00	86963.14
Contingency 3 %			0	1185.86	1185.86			2608.89	2608.89
Labour Welfare 4%			0	1581.15	1581.15			3478.53	3478.53
Grand Total		40.50	39503.70	2792.01	42295.71	89.10	86908.14	6142.42	93050.56
								Say Rs.	93051


**Range Forest Officer,
Wai**

**Model No 5, P.C F (HoFF) M.S. Nagpur , latter no D17/ Nodal cell/ CR -
40/ 1127 / 2019-20 dated 04.10.2019**

Model rate structure for plantation of mixed tree spp- Neem, Awala, Jambhul, Behada etc.

Plantation at degraded forest F. C.No.168 at Village- Kholawadi Tal. Wai, Dist. Satara

Size of Pits -0.45 x 0.45 x0.45 m No of seedlings 1111 per ha

Proposal - Diversion of forest land for underground OFC duct and cable within ROW of existing road SH-139 & SH-140, road passing through forest land at Mukawale,
Machutar, Mahabaleshwar. Tal-Jawli & Mahabaleshwar Dist.Satara.

2.20

Ha -

Estimate for Wage rate per day- : 1072.9

Estimate for wage rate per day:- 10/2/23									
Sr. n	Particulars	Mondays	Wages	M.& S.	Amount	Monday s	Wages	M.& S.	Amount
					For 1 ha				For 2.20 ha
K) Tenth Year operations									
1	Watch and ward, 12 month -1 watcher per 10 ha.	36.5	39160.85	0	39160.85	80.3	86153.87	0	86153.87
2	Counting of survival % Grid wise & species wise & Note the same on register in May & October	2	2145.8	25	2170.8	4.4	4720.76	55	4775.76
3	Fire tracing	2	2145.8	0	2145.8	4.4	4720.76	0	4720.76
Total		40.5	43452.45	25.00	43477.45	89.10	95595.39	55.00	95650.39
Contingency 3 %			0	1304.32	1304.32			2869.51	2869.51
Labour Welfare 4%			0	1739.10	1739.10			3826.02	3826.02
Grand Total		40.50	43452.45	3068.42	46520.87	89.10	95595.39	6750.53	102345.92
								Say Rs.	102346


**Range Forest Officer,
Wai**

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