

Model No 5, P.CF (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, Jambul, Behada etc.
Plantation at degraded forest F.C.No.775 at Village- Kashidwadi Tal. Phaltan Dist. Satara

Size of Pits - 0.45 x 0.45 x 0.45 m No of seedlings 1111 per ha
Estimate for Wage rate - per day. 399.73 Ha - 1.00

Proposal - Diversion of forest land for underground OFC duct and cable within ROW of existing road SH-13, road passing through forest land at Palashi, Tal.maun Dis.Satara

Sr. n	Particulars	Mondays	Wages	M. & S.	Amount For 1 ha	Monday s	Wages	M. & S.	Amount For 1 ha
A) Pre-monsoon works PYO + PPO									
1	a) Survey & Demarcation	1	399.73	91	490.73	1	399.73	91	490.73
	b) Preparation of Treatment Map.(100 m x50m gride	1	399.73	91	490.73	1	399.73	91	490.73
	c) Digging of trial pits of size 0.30 x0.30x0.60 in grid cor.)	0.4	159.892	0	159.892	0.4	159.892	0	159.892
	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	225	225
	e) Cleaning of brushes and preparation of site (As per requirement)	10	3997.3	0	3997.3	10	3997.3	0	3997.3
2	Soil and Moisture conservation works including collection of rubbles from area up 30m	31	12391.63	0	12391.63	31	12391.63	0	12391.63
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	182865.6	182865.6
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	1111.2494	49.77	1161.0194	2.78	1111.2494	49.77	1161.0194
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	29312.2009	0	29312.2009	73.33	29312.2009	0	29312.2009
6	Construction of 5.00 Rmt. wide Inspection Path. 1 MD per 100 Rmt.	1	399.73	0	399.73	1	399.73	0	399.73
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	299.7975	25	324.7975	0.75	299.7975	25	324.7975
8	Providing and fixing (4feet x 3 feet) Information board each per site.	0	0	5,000.00	5000	0	0	5000	5000
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	18671.3883	4825.46	23496.8483	46.71	18671.3883	4825.46	23496.8483
	Total	167.97	67,142.65	193263.8	258,772.10	167.97	67,142.65	193,172.83	260,315.48
	Contingency 3%		0	7763.16	7763.16		0	7809.46	7809.46
	Labour welfare 4%		0	10350.88	10350.88		0	10412.62	10412.62
	Ground Total	167.97	67,142.65	211,377.84	276,886.14	167.97	67,142.65	211,394.91	278,537.56
	Say Rs.								278,538

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Division of forest land for underground OFC duct and cable within ROW of existing road SH-13, road passing through forest land at Palashi, Tal.maam Dis.Satara Ha - 1.00

Estimate for Wage rate per day - 436.84									
Sr. n	Particulars	Mondays	Wages	M. & S.	Amount For 1 ha	Monday s	Wages	M. & S.	Amount For 1 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	6465.232	1079.73	7544.962	14.8	6465.232	1079.73	7544.962
2	Refilling of pits with good quality soil including application of signal super & fertilizer @ 1.75 per seedling Phosphate (15 MD for 100 Trench)	8.44	3686.9296	1944.25	5631.1796	8.44	3686.9296	1944.25	5631.1796
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	816.8908	2426	3242.8908	1.87	816.8908	2426	3242.8908
4	Plantation of seedlings 1111 seedlings per ha.(1 M.D. per 100seedlings)	11.11	4853.2924	0	4853.2924	11.11	4853.2924	0	4853.2924
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	19413.17	911	20324.17	44.44	19413.17	911	20324.1696
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	25882.77	54395	80277.77	59.25	25882.77	54395	80277.77
7	Causality replacement (20% 222seedling per ha./ 2 M.D.per 100 seedlings)	4.44	1939.5696	0	1939.5696	4.44	1939.5696	0	1939.5696
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	3394.2468	803.64	4197.8868	7.77	3394.2468	803.64	4197.8868
9	Watch and ward (10 month -1 watcher per 10 ha	27.38	11960.679	0	11960.679	27.38	11960.679	0	11960.6792
10	Soil working of naturally growing plant and singling (1.15 MD per 100 plants	1.15	502.366	10	512.366	1.15	502.366	10	512.366
11	Fire tracing	2	873.68	0	873.68	2	873.68	0	873.68
	Total	182.65	79,788.83	61569.62	141,358.45	182.65	79,788.83	61,569.62	141,358.45
	Contingency 3 %		0	4240.75	4240.75			4240.75	4240.75
	Labour Welfare 4%		0	5654.34	5654.34			5654.34	5654.34
	Grand Total	182.65	79,788.83	71,464.71	151,253.54	182.65	79,788.83	71,464.71	151,253.54
								Say Rs.	151,254

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Plantation at degraded forest F.C.No.775 at Village- Kashidwadi Tal. Phaltan Dist. Satara
Size of Pits -0.45 x 0.45 x 0.45 m No of seedlings 1111 per ha
Diversion of forest land for underground OFC duct and cable within ROW of existing road SH-13, road passing through forest land at Palashi, Tal. Maan Dis. Satara

Ha - 1.00

Estimate for Wage rate per day- : 480.52									
Sr. n	Particulars	Mondays	Wages	M. & S.	Amount	Mondays	Wages	M. & S.	Amount
					For 1 ha				For 1 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	1182.0792	404.04	1586.1192	2.46	1182.0792	404.04	1586.1192
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	148.9612	404.04	553.0012	0.31	148.9612	404.04	553.0012
3	Planting for causality replacement 222 seedlings (2.00 M.D. per 100 Seedlings.)	4.44	2133.5088	0	2133.5088	4.44	2133.5088	0	2133.5088
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	13344.04	911.02	14255.06	27.77	13344.04	911.02	14255.0604
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	42708.618	36105	78813.618	88.88	42708.618	36105	78813.6176
6	Watch and ward, 12-month -1 watcher per 10 ha.	36.5	17538.98	0	17538.98	36.5	17538.98	0	17538.98
7	Fire tracing	2	961.04	0	961.04	2	961.04	0	961.04
Total		162.36	78,017.23	37,824.10	115,841.33	162.36	78,017.23	37,824.10	115,841.33
Contingency 3 %			0	3475.24	3475.24			3475.24	3475.24
Labour Welfare 4%			0	4633.65	4633.65			4633.65	4633.65
Grand Total		162.36	78,017.23	45,932.99	123,950.22	162.36	78,017.23	45,932.99	123,950.22
								Say Rs.	123,950

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Plantation at degraded forest F.C.No.775 at Village- Kashidwadi Tal. Phaltan Dist. Satara

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

Diversion of forest land for underground OFC duct and cable within ROW of existing road SH-13, road passing through forest land at Palashi, Tal.maan Dis.Satara

Ha - 1.00

Estimate for Wage rate per day:- 528.57

Sr. n	Particulars	Mondays	Wages	M. & S.	Amount For 1 ha	Monday	Wages	M. & S.	Amount For 1 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	16.67	8811.2619	911.02	9722.2819
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	23,510.79	16680	40,190.79	44.48	23510.794	16680	40190.7936
3	Watch and ward, 12 month -1 watcher per 10 ha.	36.5	19,292.81	0	19,292.81	36.5	19292.805	0	19292.805
4	Counting of survival % grid wise & species wise and Note the same on register in May & October	2	1,057.14	25	1,082.14	2	1057.14	25	1082.14
5	Fire tracing	2	1,057.14	0	1,057.14	2	1057.14	0	1057.14
	Total	101.65	44,917.88	17,616.02	62,533.90	101.65	53,729.14	17,616.02	71,345.16
	Contingency 3 %		0	1876.02	1876.02			2140.35	2140.35
	Labour Welfare 4%		0	2501.36	2501.36			2853.81	2853.81
	Grand Total	101.65	44917.879	21993.39	66,911.27	101.65	53,729.14	22,610.18	76,339.32
	Say Rs.								76,339

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Estimate for Wage rate per day - 581.42

Sr. n	Particulars	Mondays	Wages	M. & S.	Amount For 1 ha	Monday s	Wages	M. & S.	Amount For 1 ha
E) Fourth Year Operations									
1	Watch and ward, 12 month -1 watcher per 10 ha.	36.5	21221.83	0	21221.83	36.5	21221.83	0	21221.83
2	Counting of survival % grid wise & species wise & Note the same on register in May & October	2	1162.84	25	1187.84	2	1162.84	25	1187.84
3	Fire tracing	2	1162.84	0	1162.84	2	1162.84	0	1162.84
	Total	40.5	23547.51	25.00	23572.51	40.50	23547.51	25.00	23572.51
	Contingency 3 %		0	707.18	707.18			707.18	707.18
	Labour Welfare 4%		0	942.90	942.90			942.90	942.90
	Grand Total	40.50	23547.51	1675.08	25222.59	40.50	23547.51	1675.08	25222.59
	Say Rs.								25223

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Diversion of forest land for underground OFC duct and cable within ROW of existing road SH-13, road passing through forest land at Palashi, Tal. Maan Dis. Satara Ha - 1.00
Estimate for Wage rate per day - 639.56

Sr. n	Particulars	Mondays	Wages	M. & S.	Amount For 1 ha	Monday s	Wages	M. & S.	Amount For 1 ha
F) Fifth Year Operations									
1	Watch and ward, 12 month -1 watcher per 10 ha.	36.5	23343.94	0	23343.94	36.5	23343.94	0	23343.94
2	Counting of survival % Grid wise & species wise & Note the same on register in May & October	2	1279.12	25	1304.12	2	1279.12	25	1304.12
3	Fire tracing	2	1279.12	0	1279.12	2	1279.12	0	1279.12
	Total	40.5	25902.18	25.00	25927.18	40.50	25902.18	25.00	25927.18
	Contingency 3 %		0	777.82	777.82			777.82	777.82
	Labour Welfare 4%		0	1037.09	1037.09			1037.09	1037.09
	Grand Total	40.50	25902.18	1839.90	27742.08	40.50	25902.18	1839.90	27742.08
								Say Rs.	27742

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Diversion of forest land for underground OFC duct and cable within ROW of existing road SH-13, road passing through forest land at Palashi, Talma Dist. Satara Ha - 1.00

Estimate for Wage rate per day:- 703.51									
Sr. n	Particulars	Mondays	Wages	M.& S.	Amount For 1 ha	Monday s	Wages	M.& S.	Amount For 1 ha
G) Six Year Operations									
1	Watch and ward, 12 month -1 watcher per 10 ha.	36.5	25678.115	0	25678.115	36.5	25678.115	0	25678.115
2	Counting of survival % Grid wise & species wise & Note the same on register in May & October	2	1407.02	25	1432.02	2	1407.02	25	1432.02
3	Fire tracing	2	1407.02	0	1407.02	2	1407.02	0	1407.02
Total		40.5	28492.16	25.00	28517.16	40.50	28492.16	25.00	28517.16
Contingency 3 %			855.51		855.51			855.51	855.51
Labour Welfare 4%			0	1140.69	1140.69			1140.69	1140.69
Grand Total		40.50	28492.16	2021.20	30513.36	40.50	28492.16	2021.20	30513.36
								Say Rs.	30513

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Diversion of forest land for underground OFC duct and cable within ROW of existing road SH-13, road passing through forest land at Palashi, Tal.maam Dis.Satara

Ha - 1.00

Estimate for Wage rate per day - : 773.86

Sr. n	Particulars	Mondays	Wages	M.& S.	Amount For 1 ha	Monday s	Wages	M.& S.	Amount For 1 ha
H) Seventh Year Operations									
1	Watch and ward, 12 month -1 watcher per 10 ha.	36.5	28245.89	0	28245.89	36.5	28245.89	0	28245.89
2	Counting of survival % Grid wise & species wise & Note the same on register in May & October	2	1547.72	25	1572.72	2	1547.72	25	1572.72
3	Fire tracing	2	1547.72	0	1547.72	2	1547.72	0	1547.72
	Total	40.5	31341.33	25.00	31366.33	40.50	31341.33	25.00	31366.33
	Contingency 3 %		0	940.99	940.99			940.99	940.99
	Labour Welfare 4%		0	1254.65	1254.65			1254.65	1254.65
	Grand Total	40.50	31341.33	2220.64	33561.97	40.50	31341.33	2220.64	33561.97
								Say Rs.	33562

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Diversion of forest land for underground OFC duct and cable within ROW of existing road SH-13, road passing through forest land at Palashi, Talmaan Dis.Satara

Ha - 1.00

Estimate for Wage rate per day - 851.24

Sr. n	Particulars	Mondays	Wages	M. & S.	Amount	Monday s	Wages	M. & S.	Amount
					For 1 ha				For 1 ha
I) Eight Year Operations									
1	Watch and ward, 12 month -1 watcher per 10 ha.	36.5	31070.26	0	31070.26	36.5	31070.26	0	31070.26
2	Counting of survival % Grid wise & species wise & Note the same on register in May & October	2	1702.48	25	1727.48	2	1702.48	25	1727.48
3	Fire tracing	2	1702.48	0	1702.48	2	1702.48	0	1702.48
	Total	40.5	34475.22	25.00	34500.22	40.50	34475.22	25.00	34500.22
	Contingency 3 %		0	1035.01	1035.01			1035.01	1035.01
	Labour Welfare 4%			1380.01	1380.01			1380.01	1380.01
	Grand Total	40.50	34475.22	2440.02	36915.24	40.50	34475.22	2440.02	36915.24
								Say Rs.	36915

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Diversion of forest land for underground OFC duct and cable within ROW of existing road SH-13, road passing through forest land at Palashi, Tal. Maan Dis. Satara

Ha - 1.00

Estimate for Wage rate per day:- 936.36

Sr. n	Particulars	Monday	Wages	M. & S.	Amount For 1 ha	Monday	Wages	M. & S.	Amount For 1 ha
J] Ninth Year operations									
1	Watch and ward, 12 month -1 watcher per 10 ha.	36.5	34177.14	0	34177.14	36.5	34177.14	0	34177.14
2	Counting of survival % Grid wise & species wise & Note the same on register in May & October	2	1872.72	25	1897.72	2	1872.72	25	1897.72
3	Fire tracing	2	1872.72	0	1872.72	2	1872.72	0	1872.72
	Total	40.5	37922.58	25.00	37947.58	40.50	37922.58	25.00	37947.58
	Contingency 3 %		0	1138.43	1138.43			1138.43	1138.43
	Labour Welfare 4%		0	1517.90	1517.90			1517.90	1517.90
	Grand Total	40.50	37922.58	2681.33	40603.91	40.50	37922.58	2681.33	40603.91
								Say Rs.	40604

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Diversion of forest land for underground OFC duct and cable within ROW of existing road SH-13, road passing through forest land at Palashi, Tal. Maan Dis. Satara Ha - 1.00
Estimate for Wage rate per day - 1029.99

Sr. n	Particulars	Mondays	Wages	M. & S.	Amount For 1 ha	Monday s	Wages	M. & S.	Amount For 1 ha
K) Tenth Year operations									
1	Watch and ward, 12 month -1 watcher per 10 ha.	36.5	37594.635	0	37594.635	36.5	37594.635	0	37594.635
2	Counting of survival % Grid wise & species wise & Note the same on register in May & October	2	2059.98	25	2084.98	2	2059.98	25	2084.98
3	Fire tracing	2	2059.98	0	2059.98	2	2059.98	0	2059.98
	Total	40.5	41714.60	25.00	41739.60	40.50	41714.60	25.00	41739.60
	Contingency 3 %		0	1252.19	1252.19			1252.19	1252.19
	Labour Welfare 4%		0	1669.58	1669.58			1669.58	1669.58
	Grand Total	40.50	41714.60	2946.77	44661.37	40.50	41714.60	2946.77	44661.37
	Say Rs.								44661

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Abstract for Model No.5

Village -Kashidwadi F.C.No. 775 Area 1.00 Ha.

Division of forest land for underground OFC duct and cable within ROW of existing road SH-13, road passing through forest land at Palashi, Tal.maan Dis.Satara

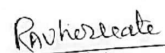
(Amount in Rs.)

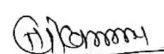
Sr. No.	Year of Operation	Man days	Wages	Material supply	Total	Other Expense	Total	Total amount (rounded off)
1	Per Monsoon works	167.97	67142.65	193172.83	260315.48	18222.08	278537.56	278538.00
2	First Year Operations	182.65	79788.83	61569.62	141358.45	9895.09	151253.54	151254.00
3	Second Year Operations	162.36	78017.23	37824.10	115841.33	8108.89	123950.22	123950.00
4	Third Year Operations	101.65	53729.14	17616.02	71345.16	4994.16	76339.32	76339.00
5	Fourth Year Operations	40.50	23547.51	25.00	23572.51	1650.08	25222.59	25223.00
6	Fifth Year Operations	40.50	25902.18	25.00	25927.18	1814.90	27742.08	27742.00
7	Sixth Year Operations	40.50	28492.16	25.00	28517.16	1996.20	30513.36	30513.00
8	Seventh Year Operations	40.50	31341.33	25.00	31366.33	2195.64	33561.97	33562.00
9	Eight Year Operations	40.50	34475.22	25.00	34500.22	2415.02	36915.24	36915.00
10	Nine Year Operations	40.50	37922.58	25.00	37947.58	2656.33	40603.91	40604.00
11	Ten Year Operations	40.50	41714.60	25.00	41739.60	2921.77	44661.37	44661.00
	Total	898.13	502073.41	310357.57	812430.98	56870.17	869301.15	869301.00

Cost per plants Rs. 782.45

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,
Phaltan