

Enclosure to Principal Chief Conservator of Forest (Hoff), M.S. Nagpur Letter No. Desk-17/CA/Nodal Cell/CR-40/1127/2019-20, Date- 04/10./2019

Model Rate Structure for Compensatory Afforestation

Model No.5

Fencing and Irrigated Plantations

SANGLI FOREST DIVISION

Model rate structure for plantation of mixed tree species with rainfall upto 800 mm and medium quality, medium drained soil.

Range- Jat
Taluka- Jat
Village- Aakalwadi
F.s.No.- 49, 53
Compt.No. 295

Spacement- 3.00 m x 3.00 m
Size of pits-0.45x0.45x0.45m
No.of seedlings-1111 per ha.

Workable Area in ha.	18.94
Unworkable Area in ha.	0.00
Total Area in ha.	18.94
Wages Rate per day	438.42

PPO/PYO Works

S.No.	Particulars of works	For 1 ha.				Plantation Area				
		M.D.	Wages	M.S.	Total	Ha.	M.D.	Wages	M.S.	Total
1	a. Survey and demarcation	1.00	438.42	91.00	529.42	18.94	18.94	8303.67	1723.54	10027.21
	b. Preparation of treatment map (100mx50m.grid)	1.00	438.42	91.00	529.42	18.94	18.94	8303.67	1723.54	10027.21
	c. Digging trial pits of size 0.30x0.30x0.60 in corner of Grid	0.40	175.37	0.00	175.37	18.94	7.58	3323.22	0.00	3323.22
	d. Fixing 60 cm x 0.05 cm x 12 cm cement pillars up to 30 cm deep in corner of Grid, painting with Grid No. etc complete. (3 pillars, Rs.75/- for each pillars)	0.00	0.00	225.00	225.00	18.94	0.00	0.00	4261.50	4261.50
	e. Clearing of bushes and preparation of site (As per requirement)	10.00	4384.20	91.00	4475.20	18.94	189.40	83036.75	1723.54	84760.29
2	Soil and moisture conservation works including collection of rubbles from areas upto 30 m.etc.	31.00	13591.02	0.00	13591.02	18.94	587.14	257413.92	0.00	257413.92
3	Providing and fixing chain link fencing, 102 Rmt per ha (With one gate + two wickets gates for one site (Rs.1494/- per Rmt of basic rate + 20% for transportation of ave. lead plus 20% for tribal/ remote area (by tender process.)) (Rs.1494+149+149=1792/- per Rmt (1.60 Rmt height with G.I. Chain link size 50mmx50m, 8 gauge thick and fixed 75mm above ground level complete as per SSR item No.1744 for 2017-18)	0.00	0.00	182865.60	182865.60	18.94	0.00	0.00	3463474.46	3463474.46

4	Alignment of pits of size 0.45 x 0.45 x 0.45 m (1111 pits per Ha. (0.25 per 100 pits and M&S @ Rs.2.24 per 50 pits.)	2.78	1218.81	49.77	1268.58	18.94	52.65	23082.81	942.64	24025.45
5	Digging of pits of size 0.45 x 0.45 x 0.45 mt (1111 per pits per ha) 6.60 M.D. per 100 pits. Note :- As per local conditions provision for mechanized digging can be made.	73.33	32149.34	0.00	32149.34	18.94	1388.87	608908.39	0.00	608908.39
6	Construction of 5.00 Rmt wide Inspection Path 1 M.D. per 100 Rmt	1.00	438.42	0.00	438.42	18.94	18.94	8303.67	0.00	8303.67
7	Enumeration of all valuable plant species at plantation site and grid wise counting and providing color band and recording the same in Register (0.75 M.D.) per 100 plants	0.75	328.82	25.00	353.82	18.94	14.21	6229.95	473.50	6703.45
8	Providing and fixing (4 feet x 3 feet) information board each per site	0.00	0.00	5000.00	5000.00	18.94	0.00	0.00	94700.00	94700.00
9	Part nursery cost for raising 1333 seedlings per ha (including 20% casualty replacement) in polybags of size 12.50 x 25.00 cm (Wages Rs.11.90 and M&S Rs.3.62 per plant	46.71	20478.60	4825.46	25304.06	18.94	884.69	387865.79	91394.21	479260.00
	Sub Total PPO / PYO	167.97	73641.42	193263.83	266905.25		3181.36	1394771.84	3660416.93	5055188.77
	Contingency 3%			8007.16	8007.16				151655.66	151655.66
	Labour Welfare 4%			10676.21	10676.21				202207.55	202207.55
	Grand Total	167.97	73641.42	211947.20	285588.62		3181.36	1394771.84	4014280.14	5409051.98


 Range Forest Officer,
 Jath

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Model No.5

Fencing and Irrigated Plantations

SANGLI FOREST DIVISION

Model rate structure for plantation of mixed tree species with rainfall upto 800 mm and medium quality, medium drained soil.

Range- Jat
Taluka- Jat
Village- Aakalwadi
F.s.No.- 49, 53
Compt.No. 295

Spacing- 3.00 m x 3.00 m
Size of pits-0.45x0.45x0.45m
No.of seedlings-1111 per ha.
-
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Workable Area in ha.	18.94
Unworkable Area in ha.	0.00
Total Area in ha.	18.94
Wages Rate per day	438.42

1st year Works

S.No.	Particulars of works	For 1 ha.				Plantation Area				
		M.D.	Wages	M.S.	Total	Ha.	M.D.	Wages	M.S.	Total
1	Part Nursery cost for maintenance of 1333 seedlings per ha Rs 3.77 per seedlings (Wages Rs.2.69, M & S Rs. 0.81)	14.80	6488.62	1079.73	7568.35	18.94	280.31	122894.46	20450.09	143344.55
2	Refilling of pits by good quality soil including application of single super phosphate (1.66 MD per 100 pits)	18.44	8084.46	1944.25	10028.71	18.94	349.25	153119.67	36824.10	189943.77
3	Transportation of 1333 seedlings from nursery to plantation site (including loading & unloading) (0.14 MD per 100 seedlings & M.S. Rs. 1.82 per seedlings).	1.87	819.85	2426.00	3245.85	18.94	35.42	15527.96	45948.44	61476.40
4	Planting of seedling 1111 per ha (1.00 M.D per 100 seedlings.)	11.11	4870.85	0.00	4870.85	18.94	210.42	92253.90	0.00	92253.90
5	3 seedlings (1 Rmt circular) and 2 soil workings (4.00 M.D. per 100 seedlings) fertilizer application Rs.0.82 per seedling	44.44	19483.38	911.02	20394.40	18.94	841.69	369015.22	17254.72	386269.94
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 @Rs.400/- each for supplying water and water supply at @Rs.0.05 per litre and wages for watering 1 M.D. for 150 Seedlings	59.25	25976.39	54395.00	80371.39	18.94	1122.20	491992.83	0.00	491992.83
7	Causality replacement (20% 222 seedlings per ha) (2 M.D. per 100 seedlings)	4.44	1946.58	0.00	1946.58	18.94	84.09	36868.23	0.00	36868.23

8	Part Nursery Cost for casuality replacement in SYO. (222 seedlings per ha.) (wages Rs. 11.90 and material supply Rs.3.62 total Rs.12.55 per seedlings)	7.77	3406.52	803.64	4210.16	18.94	147.16	64519.49	15220.94	79740.43
9	Watch and ward (10 months)-1 water per 10 ha.	27.38	12003.94	0.00	12003.94	18.94	518.58	227354.62	0.00	227354.62
10	Soil Working for naturally grower plants and singling (1.15 M.D. per 100 plants)	1.15	504.18	10.00	514.18	18.94	21.78	9549.17	189.40	9738.57
11	Fire tracing	2.00	876.84	0.00	876.84	18.94	37.88	16607.35	0.00	16607.35
	TOTAL	192.65	84461.61	61569.64	146031.25		3648.78	1599702.90	135887.69	1735590.59
	Contingency 3%			4380.94	4380.94				52067.72	52067.72
	Labour Welfare 4%			5841.25	5841.25				69423.62	69423.62
	Grand Total	192.65	84461.61	71791.83	156253.44		3648.78	1599702.90	257379.03	1857081.93


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Taluka- Jat
Village- Aakalwadi
F s No- 49, 53
Compt No. 295

Spacement- 3.00 m x 3.00 m
Size of pits-0.45x0.45x0.45m
No.of seedlings-1111 per ha.

Workable Area in ha.	18.94
Unworkable Area in ha.	0.00
Total Area in ha.	18.94
Wages Rate per day	438.42

2nd year Works

S.No.	Particulars of works	For 1 ha.				Plantation Area				
		M.D.	Wages	M.S.	Total	Ha.	M.D.	Wages	M.S.	Total
1	Part nursery cost for seedlings for casualty replacement (222 seedlings per ha) labour rate @Rs.3.77 and M.S. Rs.1.82 per seedlings.	2.46	1078.51	404.00	1482.51	18.94	46.59	20425.99	7651.76	28077.75
2	Transportation of 222 seedlings for casualty replacement from nursery to plantation site (including loading and unloading) wages 0.14 MD per & M.S. Rs.1.82 per 100 seedlings	0.31	135.91	404.04	539.95	18.94	5.87	2573.53	7652.52	10226.05
3	Planting for Casualty replacement 222 seedlings (2.00 M.D per 100 seedling)	4.44	1946.58	0.00	1946.58	18.94	84.09	36866.74	0.00	36866.74
4	2 weedlings and 1 soil working, with fertilizer application 2.50 M.D per 100 seedlings at M.S. Rs.0.82 per seedling	27.77	12174.92	911.02	13085.94	18.94	525.96	230591.38	17254.72	247846.10
5	Watering 1111 Seedlings in November, December, January and June 1 time each and in February to May 2 times each total 12 times 5 litre per seedlings, replacing 10% plastic can / matka @Rs.25/- each replacing 111 cans / matka, supplying water @Rs.0.50/- per litre and watering 150 seedlings per M.D	88.88	38966.77	36105.00	75071.77	18.94	1683.39	738031.84	683828.70	1421860.54

6	Watch and ward (12 months)-1 water per 10 ha.	36.50	16002.33	0.00	16002.33	18.94	691.31	303084.13	0.00	303084.13
7	fire tracing	2.00	876.84	0.00	876.84	18.94	37.88	16607.35	0.00	16607.35
	Sub Total PPO / PYO	162.36	71181.86	37824.06	109005.92		3075.09	1348180.96	716387.70	2064568.66
	Contingency 3%			3270.18	3270.18				61937.06	61937.06
	Labour Welfare 4%			4360.24	4360.24				82582.75	82582.75
	Grand Total	162.36	71181.86	45454.48	116636.34		3075.09	1348180.96	860907.51	2209088.47


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Taluka- Jat
Village- Aakalwadi
F.s.No.- 49, 53
Compt.No. 295

Spacing- 3.00 m x 3.00 m
Size of pits-0.45x0.45x0.45m
No. of seedlings-1111 per ha.

Workable Area in ha.	18.94
Unworkable Area in ha.	0.00
Total Area in ha.	18.94
Wages Rate per day	438.42

3rd year Works

S.No.	Particulars of works	For 1 ha.				Plantation Area				
		M.D.	Wages	M.S.	Total	Ha.	M.D.	Wages	M.S.	Total
1	1 weeding and 1 soil working (1.50 M.D per 100 seedlings) applying fertilizer @0.82 per plant.	16.67	7308.46	911.02	8219.48	18.94	315.73	138422.35	0.00	138422.35
2	Watering 556 seedlings in November, December, January and June 1 time each and february to May 2 times each total 12 times per seedlings 5 litre, water supply @Rs.0.50/- litre and watering 150 seedlings per M.D.	44.48	19500.92	16680.00	36180.92	18.94	842.45	369346.93	0.00	369346.93
3	Watch and ward 12 months 1 watcher per 10 ha.	36.50	16002.33	0.00	16002.33	18.94	691.31	303084.13	0	303084.13
4	Counting of survival percentage Grid wise and Species wise and t Note the same on Register in May and October	2.00	876.84	25.00	901.84	18.94	37.88	16607.35	0	16607.35
5	Fire tracing	2.00	876.84	0.00	876.84	18.94	37.88	16607.35	0.00	16607.35
	Sub Total PPO / PYO	101.65	44565.39	17616.02	62181.41		1925.25	844068.11	0.00	844068.11
	Contingency 3%			1865.44	1865.44				25322.04	25322.04
	Labour Welfare 4%			2487.26	2487.26				33762.72	33762.72
	Grand Total	101.65	44565.39	21968.72	66534.11		1925.25	844068.11	59084.76	903152.87


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Taluka- Jat

Village- Aakalwadi

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Spacing- 3.00 m x 3.00 m

Size of pits-0.45x0.45x0.45m

No.of seedlings-1111 per ha.

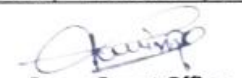
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Workable Area in ha.	18.94
Unworkable Area in ha.	0.00
Total Area in ha.	18.94
Wages Rate per day	438.42

4th year Works

S.No.	Particulars of works	For 1 ha.				Plantation Area				
		M.D.	Wages	M.S.	Total	Ha.	M.D.	Wages	M.S.	Total
1	Watch and ward 12 months 1 watcher per 10 ha.	36.50	16002.33	0	16002.33	18.94	691.31	303084.13	0	303084.13
2	Counting of survival percentage Grid wise and Species wise and t Note the same on Register in May and October	2.00	876.84	25	901.84	18.94	37.88	16607.35	0	16607.35
3	Fire tracing	2.00	876.84	0	876.84	18.94	37.88	0.00	0	0.00
	Sub Total PPO / PYO	40.50	17756.01	25.00	17781.01		729.19	319691.48	0.00	319691.48
	Contingency 3%			533.43	533.43				9590.74	9590.74
	Labour Welfare 4%			711.24	711.24				12787.66	12787.66
	Grand Total	40.50	17756.01	1269.67	19025.68		729.19	319691.48	22378.40	342069.88


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Spacement- 3.00 m x 3.00 m
Size of pits-0.45x0.45x0.45m
No.of seedlings-1111 per ha.
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Workable Area in ha.	18.94
Unworkable Area in ha.	0.00
Total Area in ha.	18.94
Wages Rate per day	438.42

S.No.	Particulars of works	5th year Works								
		For 1 ha.				Plantation Area				
		M.D.	Wages	M.S.	Total	Ha.	M.D.	Wages	M.S.	Total
1	Watch and ward 12 months 1 watcher per 10 ha.	36.50	16002.33	0	16002.33	18.94	691.31	303084.13	0	303084.13
2	Counting of survival percentage Grid wise and Species wise and t Note the same on Register in May and October	2.00	876.84	25	901.84	18.94	37.88	16607.35	0	16607.35
3	Fire tracing	2.00	876.84	0	876.84	18.94	37.88	0.00	0	0.00
	Sub Total PPO / PYO	40.50	17756.01	25.00	17781.01		729.19	319691.48	0.00	319691.48
	Contingency 3%			533.43	533.43				9590.74	9590.74
	Labour Welfare 4%			711.24	711.24				12787.66	12787.66
	Grand Total	40.50	17756.01	1269.67	19025.68		729.19	319691.48	22378.40	342069.88


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Spacing- 3.00 m x 3.00 m
Size of pits-0.45x0.45x0.45m
No.of seedlings-1111 per ha.
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Workable Area in ha.	18.94
Unworkable Area in ha.	0.00
Total Area in ha.	18.94
Wages Rate per day	438.42

6th year Works

S.No.	Particulars of works	For 1 ha.				Plantation Area				
		M.D.	Wages	M.S.	Total	Ha.	M.D.	Wages	M.S.	Total
1	Watch and ward 12 months 1 watcher per 10 ha.	36.50	16002.33	0	16002.33	18.94	691.31	303084.13	0	303084.13
2	Counting of survival percentage Grid wise and Species wise and t Note the same on Register in May and October	2.00	876.84	25	901.84	18.94	37.88	16607.35	0	16607.35
3	Fire tracing	2.00	876.84	0	876.84	18.94	37.88	0.00	0	0.00
	Sub Total PPO / PYO	40.50	17756.01	25.00	17781.01		729.19	319691.48	0.00	319691.48
	Contingency 3%			533.43	533.43				9590.74	9590.74
	Labour Welfare 4%			711.24	711.24				12787.66	12787.66
	Grand Total	40.50	17756.01	1269.67	19025.68		729.19	319691.48	22378.40	342069.88


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

Workable Area in ha.	18.94
Unworkable Area in ha.	0.00
Total Area in ha.	18.94
Wages Rate per day	438.42

S.No.	Particulars of works	7th year Works								
		For 1 ha.				Plantation Area				
		M.D.	Wages	M.S.	Total	Ha.	M.D.	Wages	M.S.	Total
1	Watch and ward 12 months 1 watcher per 10 ha.	36.50	16002.33	0	16002.33	18.94	691.31	303084.13	0	303084.13
2	Counting of survival percentage Grid wise and Species wise and t Note the same on Register in May and October	2.00	876.84	25	901.84	18.94	37.88	16607.35	0	16607.35
3	Fire tracing	2.00	876.84	0	876.84	18.94	37.88	0.00	0	0.00
	Sub Total PPO / PYO	40.50	17756.01	25.00	17781.01		729.19	319691.48	0.00	319691.48
	Contingency 3%			533.43	533.43				9590.74	9590.74
	Labour Welfare 4%			711.24	711.24				12787.66	12787.66
	Grand Total	40.50	17756.01	1269.67	19025.68		729.19	319691.48	22378.40	342069.88


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Spacement- 3.00 m x 3.00 m
Size of pits-0.45x0.45x0.45m
No.of seedlings-1111 per ha.

Workable Area in ha.	18.94
Unworkable Area in ha.	0.00
Total Area in ha.	18.94
Wages Rate per day	438.42

S.No.	Particulars of works	8th year Works								
		For 1 ha.				Plantation Area				
		M.D.	Wages	M.S.	Total	Ha.	M.D.	Wages	M.S.	Total
1	Watch and ward 12 months 1 watcher per 10 ha.	36.50	16002.33	0	16002.33	18.94	691.31	303084.13	0	303084.13
2	Counting of survival percentage Grid wise and Species wise and t Note the same on Register in May and October	2.00	876.84	25	901.84	18.94	37.88	16607.35	0	16607.35
3	Fire tracing	2.00	876.84	0	876.84	18.94	37.88	0.00	0	0.00
	Sub Total PPO / PYO	40.50	17756.01	25.00	17781.01		729.19	319691.48	0.00	319691.48
	Contingency 3%			533.43	533.43				9590.74	9590.74
	Labour Welfare 4%			711.24	711.24				12787.66	12787.66
	Grand Total	40.50	17756.01	1269.67	19025.68		729.19	319691.48	22378.40	342069.88


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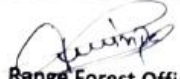
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Taluka- Jat
Village- Aakalwadi
F.s.No.- 49, 53
Compt.No. 295

Spacement- 3.00 m x 3.00 m
Size of pits-0.45x0.45x0.45m
No.of seedlings-1111 per ha.
-
-

Workebel Area in ha.	18.94
Unworkeble Area in ha.	0.00
Total Area in ha.	18.94
Wages Rate per day	438.42

S No.	Particulars of works	9th year Works								
		For 1 ha.				Plantation Area				
		M.D.	Wages	M.S.	Total	Ha.	M.D.	Wages	M.S.	Total
1	Watch and ward 12 months 1 watcher per 10 ha.	36.50	16002.33	0	16002.33	18.94	691.31	303084.13	0	303084.13
2	Counting of survival percentage Grid wise and Species wise and t Note the same on Register in May and October	2.00	876.84	25	901.84	18.94	37.88	16607.35	0	16607.35
3	Fire tracing	2.00	876.84	0	876.84	18.94	37.88	0.00	0	0.00
	Sub Total PPO / PYO	40.50	17756.01	25.00	17781.01		729.19	319691.48	0.00	319691.48
	Contingency 3%			533.43	533.43				9590.74	9590.74
	Labour Welfare 4%			711.24	711.24				12787.66	12787.66
	Grand Total	40.50	17756.01	1269.67	19025.68		729.19	319691.48	22378.40	342069.88


Range Forest Officer,
Jath

Enclosure to Principal Chief Conservator of Forest (Hott), M.S. Nagpur Letter No. Desk-17/CA/Nodal Cell/CR-40/1127/2019-20, Date- 04/10 /2019

Model Rate Structure for Compensatory Afforestation

Model No.5

Fencing and Irrigated Plantations

SANGLI FOREST DIVISION

Model rate structure for plantation of mixed tree species with rainfall upto 800 mm and medium quality, medium drained soil.

Range- Jat
Taluka- Jat
Village- Aakalwadi
F.s.No.- 49, 53
Compt.No. 295

Spacing- 3.00 m x 3.00 m
Size of pits-0.45x0.45x0.45m
No.of seedlings-1111 per ha.
-
-

Workable Area in ha.	18.94
Unworkable Area in ha.	0.00
Total Area in ha.	18.94
Wages Rate per day	438.42

10th year Works										
S.No.	Particulars of works	For 1 ha.				Plantation Area				
		M.D.	Wages	M.S.	Total	Ha.	M.D.	Wages	M.S.	Total
1	Watch and ward 12 months 1 watcher per 10 ha.	36.50	16002.33	0	16002.33	18.94	691.31	303084.13	0	303084.13
2	Counting of survival percentage Grid wise and Species wise and t Note the same on Register in May and October	2.00	876.84	25	901.84	18.94	37.88	16607.35	0	16607.35
3	Fire tracing	2.00	876.84	0	876.84	18.94	37.88	0.00	0	0.00
	Sub Total PPO / PYO	40.50	17756.01	25.00	17781.01		729.19	319691.48	0.00	319691.48
	Contingency 3%			533.43	533.43				9590.74	9590.74
	Labour Welfare 4%			711.24	711.24				12787.66	12787.66
	Grand Total	40.50	17756.01	1269.67	19025.68		729.19	319691.48	22378.40	342069.88


Range Forest Officer,
Jath

SANGLI FOREST DIVISION SANGLI

Model rate structure for plantation of mixed tree species with rainfall upto 800 mm and medium quality, medium drained soil with soil depth upto 30 cm.

ABSTRACT

Range- Jat
Taluka- Jat
Village- Aakalwadi
F.s.No.- 49, 53
Compt.No. 295

Spacing- 3.00 m x 3.00 m
Size of pits-0.45x0.45x0.45m
No.of seedlings-1111 per ha.

Workable Area in ha.	18.94
Unworkable Area in ha.	0.00
Total Area in ha.	18.94
Wages Rate per day	438.42

S.No.	Year of Operation	For 1 ha.				Plantation Area			
		M.D.	Wages	M.S.	Total	M.D.	Wages	M.S.	Total
1	Pre Monsoon works	167.97	73641.42	211947.20	285588.62	3181.36	1394771.84	4014280.14	5409051.98
2	First year operations	192.65	84461.61	71791.83	156253.44	3648.78	1599702.90	257379.03	1857081.93
3	Second year operations	162.36	71181.86	45454.48	116636.34	3075.09	1348180.96	860907.51	2209088.47
4	Third year operations	101.65	44565.39	21968.72	66534.11	1925.25	844068.11	59084.76	903152.87
5	Fourth year operations	40.50	17756.01	1269.67	19025.68	729.19	319691.48	22378.40	342069.88
6	Fifth year operations	40.50	17756.01	1269.67	19025.68	729.19	319691.48	22378.40	342069.88
7	Sixth year operations	40.50	17756.01	1269.67	19025.68	729.19	319691.48	22378.40	342069.88
8	Seventh year operations	40.50	17756.01	1269.67	19025.68	729.19	319691.48	22378.40	342069.88
9	Eighth year operations	40.50	17756.01	1269.67	19025.68	729.19	319691.48	22378.40	342069.88
10	Ninth year operations	40.50	17756.01	1269.67	19025.68	729.19	319691.48	22378.40	342069.88
11	Tenth year operations	40.50	17756.01	1269.67	19025.68	729.19	319691.48	22378.40	342069.88
	Total	908.13	398142.35	360049.92	758192.27	16934.81	7424564.17	5348300.24	12772864.41
							Say Rs.		12772864.00


Range Forest Officer,
Jath

Technical Sanction, Amount of Rs.12772864/- Rs. One Crore Twenty Seven Lakh Seventy Two Thousand Eight Hundred Sixty Four Only

T.S.No.

Date-


Asst. Conservator of Forests,
(Plantation)
Forest Division, Sangli


Dy. Conservator of Forest (T)
Sangli