

**Model Rate Structure for Compensatory Afforestation  
Model No..5**

**Fencing and Irrigated Plantations**

Model rate structure for plantation of mixed tree species having rainfall less than 800 mm and medium quality, medium drained soil.

**Village - Loha Compt No. 436, Sur/Gut No.80, Taluka - Hadgaon Dist. Nanded**

Spacing 3m x 3m  
 Size of Pits 0.45 x 0.45 x 0.45 m  
 No. of Seedlings 1111 per ha.

Wage Rate Proposed Area  
 438.42 per day  
 10.00 Ha. Year - 2023-24

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 10.00 Ha.			Total	
		Man days	Wages	Material Supply	Man days	Wages	Material Supply		
<b>A. Pre Monsoon Works PPO/PYO</b>									
1	a.) Survey and demarcation b.) Preparation of treatment map (100 m x 50 m grid) c.) Digging trial pits of size 0.30 x 0.30 x 0.60 in corner of Grid. d.) Fixing 60cm x 0.05cm x 12 cm cement pillars upto 30cm deep in corner of Grid, painting with Grid No. etc. complete (3 pillars, Rs.75/- for each pillars) e.) Clearing of bushes and preparation of site (As per requirement)	1.00 1.00 0.40 0.00 10.00	438.42 438.42 175.37 0.00 4384.20	91.00 91.00 0.00 225.00 91.00	10.00 10.00 4.00 0.00 100.00	4384.20 4384.20 1753.68 0.00 43842.00	910.00 910.00 0.00 2250.00 910.00	529.42 529.42 175.37 225.00 4475.20	5294.20 5294.20 1753.68 2250.00 44752.00
2	Soil and moisture conservation works including collection of rubbles from areas upto 30 m etc	31.00	13591.02	0.00	310.00	135910.20	0.00	13591.02	135910.20
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. leadplus 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 50mm x 50m, 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	0.00	0.00	182865.60	182865.60	1828656.00

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 10.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
4	Alignment of pits at 3m x 3m spacement 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	27.80	12188.08	497.70	12685.78
5	Digging of pits of size 0.45 x 0.45 x 0.45 m (1111 pits per ha) 6.60 M.D.per 100 pits. Note :- As per local conditions provision for mechanized digging can be made.	73.33	32149.34	0.00	32149.34	733.30	321493.39	0.00	321493.39
6	Construction of 5.00 Rmt wide Inspection Path 1M.D. per 100 Rmt	1.00	438.42	0.00	438.42	10.00	4384.20	0.00	4384.20
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	7.50	3288.15	250.00	3538.15
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	5000.00	5000.00
9	Part Nursery cost of raising 1333 seedlings per ha (including 20% casualty replacement) in polygons of size 12.50 x 25.00 cm (wages Rs. 11.90 and M & S Rs. 3.62 per paint)	46.71	20478.60	4825.46	25304.06	467.10	204785.98	48254.60	253040.58
<b>Total</b>		<b>167.97</b>	<b>73641.41</b>	<b>193263.83</b>	<b>266905.24</b>	<b>1679.70</b>	<b>736414.07</b>	<b>1887638.30</b>	<b>2624052.37</b>
Contingency 3%				8007.16					78721.57
Labour Welfare 4%				10676.21					104962.09
<b>Grand Total</b>		<b>167.97</b>	<b>73641.41</b>	<b>193263.83</b>	<b>285588.60</b>	<b>1679.70</b>	<b>736414.07</b>	<b>1887638.30</b>	<b>2807736.04</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 10.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>B. First Year Operations</b>									
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	6488.62	1079.73	7568.35	148.00	64886.16	10797.30	75683.46
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	184.40	80844.65	19442.50	100287.15
3	Transportation of 1333 seedlings from Nursery to plantation site including loading & unloading (0.14 M.D. per 100 seedlings & M.S. Rs.1.82 per seedlings )	1.87	819.85	2426.00	3245.85	18.70	8198.45	24260.00	32458.45
4	Planting of 1111 seedlings (1.0 M.D. per 100 seedlings)	11.11	4870.85	0.00	4870.85	111.10	48708.46	0.00	48708.46
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	444.40	194833.85	9110.20	203944.05
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/ maika @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	592.50	259763.85	543950.00	803713.85
7	Casualty replacement (20% 222 Seedlings per ha.) (2 M.D. per 100 Seedlings)	4.44	1946.58	0.00	1946.58	44.40	19465.85	0.00	19465.85
8	Part Nursery cost for causality replacement in SYO (222 Seedlings per ha.) (wages Rs. 11.90 and material supply Rs.3.62 total Rs.12.55 per seedling)	7.77	3406.52	803.64	4210.16	77.70	34065.23	8036.40	42101.63
9	Watch and ward (10 months - 1 watcher per 10 ha )	27.38	12003.94	0.00	12003.94	273.80	120039.40	0.00	120039.40
10	Soil working for naturally grower plants and singling (1.15 M.D per 100 plants)	1.15	504.18	10.00	514.18	11.50	5041.83	100.00	5141.83
11	Fire tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>192.65</b>	<b>84461.61</b>	<b>61569.64</b>	<b>146031.25</b>	<b>1926.50</b>	<b>844616.13</b>	<b>615696.40</b>	<b>1460312.53</b>
	Contingency 3%				4380.94				43809.38
	Labour Welfare 4%				5841.25				58412.50
	<b>Grand Total</b>	<b>192.65</b>	<b>84461.61</b>	<b>61569.64</b>	<b>156253.44</b>	<b>1926.50</b>	<b>844616.13</b>	<b>615696.40</b>	<b>1562534.41</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 10.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>C. Second Year Operations</b>									
1	Part nursery cost for seedlings for causality replacement (222 seedlings per ha) labour rate @Rs. 3.77 M.S Rs.1.82 per seedlings.	2.46	1078.51	404.00	1482.51	24.60	10785.13	4040.00	14825.13
2	Transportation of 222 seedlings for causality replacement from nursery to plantation site (including loading and unloading) wages 0.14 M.D per 100 Seedling & M.S Rs. 1.82 per seedlings	0.31	135.91	404.04	539.95	3.10	1359.10	4040.40	5399.50
3	Planting for causality replacement 222 seedlings (2.00 M.D. per 100 seedlings)	4.44	1946.58	0.00	1946.58	44.40	19465.85	0.00	19465.85
4	2 Weedings and 1 soil working, with fertilizer application 2.5 M.D. per 100 seedlings at M.S Rs.0.82 per seedling	27.77	12174.92	911.02	13085.94	277.70	121749.23	9110.20	130859.43
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	888.80	389667.70	361050.00	750717.70
6	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
7	Fire tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>162.360</b>	<b>71181.87</b>	<b>37824.06</b>	<b>109005.93</b>	<b>1623.60</b>	<b>711818.71</b>	<b>378240.60</b>	<b>1090059.31</b>
	Contingency 3%				3270.18				32701.78
	Labour Welfare 4%				4360.24				43602.37
	<b>Grand Total</b>	<b>162.36</b>	<b>71181.87</b>	<b>37824.06</b>	<b>116636.35</b>	<b>1623.60</b>	<b>711818.71</b>	<b>378240.60</b>	<b>1166363.46</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 10.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>D. Third Year Operations</b>									
1	1 weeding and 1 soil working (1.50 M.D per 100 seedlings) applying fertilizer @ Rs.0.82 per plant.	16.67	7308.46	911.02	8219.48	166.70	73084.61	9110.20	82194.81
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	444.80	195009.22	166800.00	361809.22
3	Watch and ward 12 months 1 watcher per 10.00 ha.	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
4	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
5	Fire tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>101.65</b>	<b>44565.39</b>	<b>17616.02</b>	<b>62181.41</b>	<b>1016.50</b>	<b>445653.93</b>	<b>176160.20</b>	<b>621814.13</b>
	Contingency 3%				1865.44				18654.42
	Labour Welfare 4%				2487.26				24872.57
	<b>Grand Total</b>	<b>101.65</b>	<b>44565.39</b>	<b>17616.02</b>	<b>66534.11</b>	<b>1016.50</b>	<b>445653.93</b>	<b>176160.20</b>	<b>665341.12</b>
<b>E. Fourth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%				533.43				5334.30
	Labour Welfare 4%				711.24				7112.40
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>
<b>F. Fifth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%				533.43				5334.30
	Labour Welfare 4%				711.24				7112.40
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 10.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>G. Sixth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%			0.00	533.43			0.00	5334.30
	Labour Welfare 4%			0.00	711.24			0.00	7112.40
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>
<b>H. Seventh Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%			0.00	533.43			0.00	5334.30
	Labour Welfare 4%			0.00	711.24			0.00	7112.40
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>
<b>I. Eight Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%			0.00	533.43			0.00	5334.30
	Labour Welfare 4%			0.00	711.24			0.00	7112.40
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 10.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>J. Nine Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%			0.00	533.43			0.00	5334.30
	Labour Welfare 4%			0.00	711.24			0.00	7112.40
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>
<b>K. Tenth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%			0.00	533.43			0.00	5334.30
	Labour Welfare 4%			0.00	711.24			0.00	7112.40
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>

  
**वनपरिक्षेत्र अधिकारी**  
 (प्र.) हदगांव

  
**Assistant Conservator of Forest**  
 (Tenduleaves & Campa) Nanded

  
**(Keslav Wable)**  
 Deputy Conservator of Forests,  
 Nanded Forest Division,  
 Nanded.

**Abstract for Model No. 5  
Fencing and Irrigated Plantations  
Model Rate Structure for Compensatory Afforestation**

Sr. No.	Year of Operation	Area : 1.00 ha. @ wage rate rs. 438.42 /day					Area : 10.00 ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total		
1	Pre Monsoon Works	167.97	73641.41	193263.83	285588.60	1679.70	736414.07	1887638.30	2807736.04		
2	First Year Operations	192.65	84461.61	61569.64	156253.44	1926.50	844616.13	615696.40	1562534.41		
3	Second Year Operations	162.36	71181.87	37824.06	116636.35	1623.60	711818.71	378240.60	1166363.46		
4	Third Year Operations	101.65	44565.39	17616.02	66534.11	1016.50	445653.93	176160.20	665341.12		
5	Fourth Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81		
6	Fifth Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81		
7	Sixth Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81		
8	Seventh Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81		
9	Eight Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81		
10	Ninth Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81		
11	Tenth Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81		
	<b>Total</b>	<b>908.13</b>	<b>398142.35</b>	<b>310448.55</b>	<b>758192.27</b>	<b>9081.30</b>	<b>3981423.55</b>	<b>3059485.50</b>	<b>7533772.68</b>		

  
**वनपरिक्षेत्र अधिकारी  
(प्रा.) हदगांव**

  
**Assistant Conservator of Forest  
(Tentuleaves & Campa) Nanded**

  
**(Keshav Wable)  
Deputy Conservator of Forests,  
Nanded Forest Division,  
Nanded.**

**Model Rate Structure for Compensatory Afforestation  
Model No..5**

**Fencing and Irrigated Plantations**

Model rate structure for plantation of mixed tree species having rainfall less than 800 mm and medium quality, medium drained soil.

Village - Kínhala Compt No. 494 c, Sur/Gut No. 15, Taluka - Hadgaon Dist. Nanded

Spacement	3m x 3m	Wage Rate	438.42	per day	Year - 2023-24
Size of Pits	0.45 x 0.45 x 0.45 m	Proposed Area	10.00	Ha.	
No. of Seedlings	1111 per ha.				

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 10.00 Ha.			Total	
		Man days	Wages	Material Supply	Man days	Wages	Material Supply		
<b>A. Pre Monsoon Works PPO/PYO</b>									
1	a.) Survey and demarcation b.) Preparation of treatment map (100 m x 50 m grid) c.) Digging trial pits of size 0.30 x 0.30 x 0.60 in corner of Grid. d.) Fixing 60cm x 0.05cm x 12 cm cement pillars upto 30cm deep in corner of Grid, painting with Grid No. etc. complete (3 pillars, Rs.75/- for each pillars) e.) Clearing of bushes and preparation of site (As per requirement)	1.00 1.00 0.40 0.00 10.00	438.42 438.42 175.37 0.00 4384.20	91.00 91.00 0.00 225.00 91.00	10.00 10.00 4.00 0.00 100.00	4384.20 4384.20 1753.68 0.00 43842.00	910.00 910.00 0.00 2250.00 910.00	529.42 529.42 175.37 225.00 4475.20	5294.20 5294.20 1753.68 2250.00 44752.00
2	Soil and moisture conservation works including collection of rubbles from areas upto 30 m etc	31.00	13591.02	0.00	310.00	135910.20	0.00	13591.02	135910.20
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. leadplus 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 50mm x 50m, 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	0.00	0.00	182865.60	182865.60	1828656.00

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 10.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
4	Alignment of pits at 3m x 3m spacement 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	27.80	12188.08	497.70	12685.78
5	Digging of pits of size 0.45 x 0.45 x 0.45 m (1111 pits per ha) 6.60 M.D. per 100 pits. Note :- As per local conditions provision for mechanized digging can be made.	73.33	32149.34	0.00	32149.34	733.30	321493.39	0.00	321493.39
6	Construction of 5.00 Rmt wide Inspection Path 1M.D. per 100 Rmt	1.00	438.42	0.00	438.42	10.00	4384.20	0.00	4384.20
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	7.50	3288.15	250.00	3538.15
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	5000.00	5000.00
9	Part Nursery cost of raising 1333 seedlings per ha (including 20% casualty replacement) in polygons of size 12.50 x 25.00 cm (wages Rs. 11.90 and M & S Rs. 3.62 per pulmt)	46.71	20478.60	4825.46	25304.06	467.10	204785.98	48254.60	253040.58
	<b>Total</b>	<b>167.97</b>	<b>73641.41</b>	<b>193263.83</b>	<b>266905.24</b>	<b>1679.70</b>	<b>736414.07</b>	<b>1887638.30</b>	<b>2624052.37</b>
	Contingency 3%			8007.16					78721.57
	Labour Welfare 4%			10676.21					104962.09
	<b>Grand Total</b>	<b>167.97</b>	<b>73641.41</b>	<b>193263.83</b>	<b>285588.60</b>	<b>1679.70</b>	<b>736414.07</b>	<b>1887638.30</b>	<b>2807736.04</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 10.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>B. First Year Operations</b>									
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	6488.62	1079.73	7568.35	148.00	64886.16	10797.30	75683.46
2	Refilling of pits by good quality soil including application of single super phosphate (1.66 M.D per 100 pits)	18.44	8084.46	1944.25	10028.71	184.40	80844.65	19442.50	100287.15
3	Transportation of 1333 seedlings from Nursery to plantation site including loading & unloading (0.14 M.D. per 100 seedlings & M.S. Rs.1.82 per seedlings)	1.87	819.85	2426.00	3245.85	18.70	8198.45	24260.00	32458.45
4	Planting of 1111 seedlings (1.0 M.D. per 100 seedlings)	11.11	4870.85	0.00	4870.85	111.10	48708.46	0.00	48708.46
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	444.40	194833.85	9110.20	203944.05
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	592.50	259763.85	543950.00	803713.85
7	Casualty replacement (20% 222 Seedlings per ha.) (2 M.D. per 100 Seedlings)	4.44	1946.58	0.00	1946.58	44.40	19465.85	0.00	19465.85
8	Part Nursery cost for causality replacement in SYO (222 Seedlings per ha.) (wages Rs. 11.90 and material supply Rs.3.62 total Rs.12.55 per seedling)	7.77	3406.52	803.64	4210.16	77.70	34065.23	8036.40	42101.63
9	Watch and ward (10 months - 1 watcher per 10 ha)	27.38	12003.94	0.00	12003.94	273.80	120039.40	0.00	120039.40
10	Soil working for naturally gower plants and singling (1.15 M.D per 100 plants)	1.15	504.18	10.00	514.18	11.50	5041.83	100.00	5141.83
11	Fire tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
<b>Total</b>		<b>192.65</b>	<b>84461.61</b>	<b>61569.64</b>	<b>146031.25</b>	<b>1926.50</b>	<b>844616.13</b>	<b>615696.40</b>	<b>1460312.53</b>
Contingency 3%					4380.94				43809.38
Labour Welfare 4%					5841.25				58412.50
<b>Grand Total</b>		<b>192.65</b>	<b>84461.61</b>	<b>61569.64</b>	<b>156253.44</b>	<b>1926.50</b>	<b>844616.13</b>	<b>615696.40</b>	<b>1562534.41</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 10.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>C. Second Year Operations</b>									
1	Part nursery cost for seedlings for causality replacement (222 seedlings per ha) labour rate @Rs. 3.77 M.S Rs.1.82 per seedlings.	2.46	1078.51	404.00	1482.51	24.60	10785.13	4040.00	14825.13
2	Transportation of 222 seedlings for causality replacement from nursery to plantation site (including loading and unloading) wages 0.14 M.D per 100 Seedling & M.S Rs. 1.82 per seedlings	0.31	135.91	404.04	539.95	3.10	1359.10	4040.40	5399.50
3	Planting for causality replacement 222 seedlings (2.00 M.D. per 100 seedlings)	4.44	1946.58	0.00	1946.58	44.40	19465.85	0.00	19465.85
4	2 Weedings and 1 soil working, with fertilizer application 2.5 M.D. per 100 seedlings at M.S Rs.0.82 per seedling	27.77	12174.92	911.02	13085.94	277.70	121749.23	9110.20	130859.43
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	888.80	389667.70	361050.00	750717.70
6	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
7	Fire tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
<b>Total</b>		<b>162.360</b>	<b>71181.87</b>	<b>37824.06</b>	<b>109005.93</b>	<b>1623.60</b>	<b>711818.71</b>	<b>378240.60</b>	<b>1090059.31</b>
Contingency 3%					3270.18				3270.18
Labour Welfare 4%					4360.24				4360.24
<b>Grand Total</b>		<b>162.36</b>	<b>71181.87</b>	<b>37824.06</b>	<b>116636.35</b>	<b>1623.60</b>	<b>711818.71</b>	<b>378240.60</b>	<b>1166363.46</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 10.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>D. Third Year Operations</b>									
1	1 weeding and 1 soil working (1.50 M.D per 100 seedlings) applying fertilizer @ Rs.0.82 per plant.	16.67	7308.46	911.02	8219.48	166.70	73084.61	9110.20	82194.81
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	444.80	195009.22	166800.00	361809.22
3	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
4	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
5	Fire tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>101.65</b>	<b>44565.39</b>	<b>17616.02</b>	<b>62181.41</b>	<b>1016.50</b>	<b>445653.93</b>	<b>176160.20</b>	<b>621814.13</b>
	Contingency 3%				1865.44				18654.42
	Labour Welfare 4%				2487.26				24872.57
	<b>Grand Total</b>	<b>101.65</b>	<b>44565.39</b>	<b>17616.02</b>	<b>66534.11</b>	<b>1016.50</b>	<b>445653.93</b>	<b>176160.20</b>	<b>665341.12</b>
<b>E. Fourth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%				533.43				5334.30
	Labour Welfare 4%				711.24				7112.40
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>
<b>F. Fifth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%				533.43				5334.30
	Labour Welfare 4%				711.24				7112.40
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 10.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>G. Sixth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%			0.00	533.43			0.00	5334.30
	Labour Welfare 4%			0.00	711.24			0.00	7112.40
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>
<b>H. Seventh Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%			0.00	533.43			0.00	5334.30
	Labour Welfare 4%			0.00	711.24			0.00	7112.40
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>
<b>I. Eight Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%			0.00	533.43			0.00	5334.30
	Labour Welfare 4%			0.00	711.24			0.00	7112.40
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 10.00 Ha.			Total	Material Supply	Wages	Man days	Total	Material Supply	Wages	Man days	Total	
		Man days	Wages	Material Supply	Man days	Wages	Material Supply										
<b>J. Nine Year Operations</b>																	
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	16002.33	0.00	16002.33	365.00	16002.33	0.00	16002.33	365.00	16002.33	0.00	16002.33
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	876.84	250.00	901.84	20.00	876.84	250.00	901.84	20.00	876.84	250.00	901.84
3	Fire Tracing	2.00	876.84	0.00	876.84	20.00	876.84	0.00	876.84	20.00	876.84	0.00	876.84	20.00	876.84	0.00	876.84
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>17781.01</b>	<b>250.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>17756.01</b>	<b>250.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>17756.01</b>	<b>250.00</b>	<b>17781.01</b>
	Contingency 3%			0.00	533.43		533.43		533.43		533.43		533.43		533.43		533.43
	Labour Welfare 4%			0.00	711.24		711.24		711.24		711.24		711.24		711.24		711.24
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>19025.68</b>	<b>250.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>17756.01</b>	<b>250.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>17756.01</b>	<b>250.00</b>	<b>19025.68</b>
<b>K. Tenth Year Operations</b>																	
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	16002.33	0.00	16002.33	365.00	16002.33	0.00	16002.33	365.00	16002.33	0.00	16002.33
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	876.84	250.00	901.84	20.00	876.84	250.00	901.84	20.00	876.84	250.00	901.84
3	Fire Tracing	2.00	876.84	0.00	876.84	20.00	876.84	0.00	876.84	20.00	876.84	0.00	876.84	20.00	876.84	0.00	876.84
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>17781.01</b>	<b>250.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>17756.01</b>	<b>250.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>17756.01</b>	<b>250.00</b>	<b>17781.01</b>
	Contingency 3%			0.00	533.43		533.43		533.43		533.43		533.43		533.43		533.43
	Labour Welfare 4%			0.00	711.24		711.24		711.24		711.24		711.24		711.24		711.24
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>19025.68</b>	<b>250.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>17756.01</b>	<b>250.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>17756.01</b>	<b>250.00</b>	<b>19025.68</b>

**वनपरिक्षेत्र अधिकारी**  
(प्रा.) हवगांव

**सहायक वनसंरक्षक**  
(तेंदुपाने व कॅम्प) नांदेड

**(Keshav Wable)**  
Deputy Conservator of Forests,  
Nanded Forest Division,  
Nanded.

**Abstract for Model No. 5  
Fencing and Irrigated Plantations  
Model Rate Structure for Compensatory Afforestation**

Sr. No.	Year of Operation	Area : 1.00 ha. @ wage rate rs. 438.42 /day				Area : 10.00 ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
1	Pre Monsoon Works	167.97	73641.41	193263.83	285588.60	1679.70	736414.07	1887638.30	2807736.04
2	First Year Operations	192.65	84461.61	61569.64	156253.44	1926.50	844616.13	615696.40	1562534.41
3	Second Year Operations	162.36	71181.87	37824.06	116636.35	1623.60	711818.71	378240.60	1166363.46
4	Third Year Operations	101.65	44565.39	17616.02	66534.11	1016.50	445653.93	176160.20	665341.12
5	Fourth Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81
6	Fifth Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81
7	Sixth Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81
8	Seventh Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81
9	Eight Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81
10	Ninth Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81
11	Tenth Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81
	<b>Total</b>	<b>908.13</b>	<b>398142.35</b>	<b>310448.55</b>	<b>758192.27</b>	<b>9081.30</b>	<b>3981423.55</b>	<b>3059485.50</b>	<b>7533772.68</b>

  
**वनपरिक्षेत्र अधिकारी  
(प्र.) हदगांव**

  
**Assistant Conservator of Forest  
(Tamil Nadu & Carnata) Nanded**

  
**(Keshav Wable)**  
Deputy Conservator of Forests,  
Nanded Forest Division,  
Nanded.

**Model Rate Structure for Compensatory Afforestation**  
**Model No..5**

**Fencing and Irrigated Plantations**

Model rate structure for plantation of mixed tree species having rainfall less than 800 mm and medium quality, medium drained soil.  
Village - Dongargaon Compt No. 495 b, Sur/Gut No. 06/300, Taluka - Hadgaon Dist. Nanded

Spacing  
3m x 3m  
Size of Pits  
0.45 x 0.45 x 0.45 m  
No. of Seedlings  
1111 per ha.

Wage Rate  
Proposed Area  
438.42  
10.00  
per day  
Ha.  
Year - 2023-24

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 10.00 Ha.			Total
		Man days	Wages	Material Supply	Man days	Wages	Material Supply	
<b>A. Pre Monsoon Works PPO/PYO</b>								
1	a.) Survey and demarcation	1.00	438.42	91.00	10.00	4384.20	910.00	5294.20
	b.) Preparation of treatment map (100 m x 50 m grid)	1.00	438.42	91.00	10.00	4384.20	910.00	5294.20
	c.) Digging trial pits of size 0.30 x 0.30 x 0.60 in corner of Gird.	0.40	175.37	0.00	4.00	1753.68	0.00	1753.68
	d.) Fixing 60cm x 0.05cm x 12 cm cement pillars upto 30cm deep in corner of Grid, painting with Grid No. etc. complete (3 pillars, Rs.75/- for each pillars)	0.00	0.00	225.00	0.00	0.00	2250.00	2250.00
	e.) Clearing of bushes and preparation of site (As per requirement)	10.00	4384.20	91.00	100.00	43842.00	910.00	44752.00
2	Soil and moisture conservation works including collection of rubbles from areas upto 30 m etc	31.00	13591.02	0.00	310.00	135910.20	0.00	135910.20
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. leadplus 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 50mm x 50m, 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	0.00	0.00	1828656.00	1828656.00

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 10.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
4	Alignment of pits at 3m x 3m spacement 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	27.80	12188.08	497.70	12685.78
5	Digging of pits of size 0.45 x 0.45 x 0.45 m (1111 pits per ha) 6.60 M.D.per 100 pits. Note :- As per local conditions provision for mechanized digging can be made.	73.33	32149.34	0.00	32149.34	733.30	321493.39	0.00	321493.39
6	Construction of 5.00 Rmt wide Inspection Path 1M.D. per 100 Rmt	1.00	438.42	0.00	438.42	10.00	4384.20	0.00	4384.20
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	7.50	3288.15	250.00	3538.15
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	5000.00	5000.00
9	Part Nursery cost of raising 1333 seedlings per ha (including 20% casualty replacement) in polygons of size 12.50 x 25.00 cm (wages Rs. 11.90 and M & S Rs. 3.62 per plant)	46.71	20478.60	4825.46	25304.06	467.10	204785.98	48254.60	253040.58
	<b>Total</b>	<b>167.97</b>	<b>73641.41</b>	<b>193263.83</b>	<b>266905.24</b>	<b>1679.70</b>	<b>736414.07</b>	<b>1887638.30</b>	<b>2624052.37</b>
	Contingency 3%			8007.16					78721.57
	Labour Welfare 4%			10676.21					104962.09
	<b>Grand Total</b>	<b>167.97</b>	<b>73641.41</b>	<b>193263.83</b>	<b>285588.60</b>	<b>1679.70</b>	<b>736414.07</b>	<b>1887638.30</b>	<b>2807736.04</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 10.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>B. First Year Operations</b>									
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	6488.62	1079.73	7568.35	148.00	64886.16	10797.30	75683.46
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	184.40	80844.65	19442.50	100287.15
3	Transportation of 1333 seedlings from Nursery to plantation site including loading & unloading (0.14 M.D. per 100 seedlings & M.S. Rs.1.82 per seedlings )	1.87	819.85	2426.00	3245.85	18.70	8198.45	24260.00	32458.45
4	Planting of 1111 seedlings (1.0 M.D. per 100 seedlings)	11.11	4870.85	0.00	4870.85	111.10	48708.46	0.00	48708.46
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	444.40	194833.85	9110.20	203944.05
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	592.50	259763.85	543950.00	803713.85
7	Casuly replacement (20% 222 Seedlings per ha.) (2 M.D. per 100 Seedlings)	4.44	1946.58	0.00	1946.58	44.40	19465.85	0.00	19465.85
8	Part Nursery cost for causality replacement in SYO (222 Seedlings per ha.) (wages Rs. 11.90 and material supply Rs.3.62 total Rs.12.55 per seedling)	7.77	3406.52	803.64	4210.16	77.70	34065.23	8036.40	42101.63
9	Watch and ward (10 months - 1 watcher per 10 ha )	27.38	12003.94	0.00	12003.94	273.80	120039.40	0.00	120039.40
10	Soil working for naturally gower plants and singling (1.15 M.D per 100 plants)	1.15	504.18	10.00	514.18	11.50	5041.83	100.00	5141.83
11	Fire tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
<b>Total</b>		<b>192.65</b>	<b>84461.61</b>	<b>61569.64</b>	<b>146031.25</b>	<b>1926.50</b>	<b>844616.13</b>	<b>615696.40</b>	<b>1460312.53</b>
Contingency 3%					4380.94				43809.38
Labour Welfare 4%					5841.25				58412.50
<b>Grand Total</b>		<b>192.65</b>	<b>84461.61</b>	<b>61569.64</b>	<b>156253.44</b>	<b>1926.50</b>	<b>844616.13</b>	<b>615696.40</b>	<b>1562534.41</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 10.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>C. Second Year Operations</b>									
1	Part nursery cost for seedlings for casualty replacement (222 seedlings per ha) labour rate @Rs. 3.77 M.S Rs.1.82 per seedlings.	2.46	1078.51	404.00	1482.51	24.60	10785.13	4040.00	14825.13
2	Transportation of 222 seedlings for casualty replacement from nursery to plantation site (including loading and unloading) wages 0.14 M.D per 100 Seedling & M.S Rs. 1.82 per seedlings	0.31	135.91	404.04	539.95	3.10	1359.10	4040.40	5399.50
3	Planting for casualty replacement 222 seedlings (2.00 M.D. per 100 seedlings)	4.44	1946.58	0.00	1946.58	44.40	19465.85	0.00	19465.85
4	2 Weedings and 1 soil working, with fertilizer application 2.5 M.D. per 100 seedlings at M.S Rs.0.82 per seedling	27.77	12174.92	911.02	13085.94	277.70	121749.23	9110.20	130859.43
5	Watering 111 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	888.80	389667.70	361050.00	750717.70
6	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
7	Fire tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>162.360</b>	<b>71181.87</b>	<b>37824.06</b>	<b>109005.93</b>	<b>1623.60</b>	<b>711818.71</b>	<b>378240.60</b>	<b>1090059.31</b>
	Contingency 3%				3270.18				32701.78
	Labour Welfare 4%				4360.24				43602.37
	<b>Grand Total</b>	<b>162.36</b>	<b>71181.87</b>	<b>37824.06</b>	<b>116636.35</b>	<b>1623.60</b>	<b>711818.71</b>	<b>378240.60</b>	<b>1166363.46</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 10.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>D. Third Year Operations</b>									
1	1 weeding and 1 soil working (1.50 M.D per 100 seedlings) applying fertilizer @ Rs.0.82 per plant.	16.67	7308.46	911.02	8219.48	166.70	73084.61	9110.20	82194.81
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	444.80	195009.22	166800.00	361809.22
3	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
4	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
5	Fire tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>101.65</b>	<b>44565.39</b>	<b>17616.02</b>	<b>62181.41</b>	<b>1016.50</b>	<b>445653.93</b>	<b>176160.20</b>	<b>621814.13</b>
	Contingency 3%				1865.44				1865.44
	Labour Welfare 4%				2487.26				2487.27
	<b>Grand Total</b>	<b>101.65</b>	<b>44565.39</b>	<b>17616.02</b>	<b>66534.11</b>	<b>1016.50</b>	<b>445653.93</b>	<b>176160.20</b>	<b>665341.12</b>
<b>E. Fourth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%				533.43				533.43
	Labour Welfare 4%				711.24				711.24
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>
<b>F. Fifth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%				533.43				533.43
	Labour Welfare 4%				711.24				711.24
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 10.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>G. Sixth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%			0.00	533.43			0.00	5334.30
	Labour Welfare 4%			0.00	711.24			0.00	7112.40
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>
<b>H. Seventh Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%			0.00	533.43			0.00	5334.30
	Labour Welfare 4%			0.00	711.24			0.00	7112.40
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>
<b>I. Eight Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%			0.00	533.43			0.00	5334.30
	Labour Welfare 4%			0.00	711.24			0.00	7112.40
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 10.00 Ha.			
		Man days	Wages	Material Supply	Man days	Wages	Material Supply	Total
<b>J. Nine Year Operations</b>								
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%		0.00	0.00			0.00	5334.30
	Labour Welfare 4%		0.00	0.00			0.00	7112.40
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>
<b>K. Tenth Year Operations</b>								
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%		0.00	0.00			0.00	5334.30
	Labour Welfare 4%		0.00	0.00			0.00	7112.40
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>

  
**वनपरिक्षेत्र अधिकारी**  
 (म.) हदगांव

  
**Assistant Conservator of Forest**  
 (Tenduleaves & Campa) Nanded

  
**(Keshav Wable)**  
 Deputy Conservator of Forests,  
 Nanded Forest Division,  
 Nanded.

**Abstract for Model No. 5**

**Fencing and Irrigated Plantations**

**Model Rate Structure for Compensatory Afforestation**

Sr. No.	Year of Operation	Area : 1.00 ha. @ wage rate rs. 438.42 /day				Area : 10.00 ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
1	Pre Monsoon Works	167.97	73641.41	193263.83	285588.60	1679.70	736414.07	1887638.30	2807736.04
2	First Year Operations	192.65	84461.61	61569.64	156253.44	1926.50	844616.13	615696.40	1562534.41
3	Second Year Operations	162.36	71181.87	37824.06	116636.35	1623.60	711818.71	378240.60	1166363.46
4	Third Year Operations	101.65	44565.39	17616.02	66534.11	1016.50	445653.93	176160.20	665341.12
5	Fourth Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81
6	Fifth Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81
7	Sixth Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81
8	Seventh Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81
9	Eight Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81
10	Ninth Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81
11	Tenth Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81
	<b>Total</b>	<b>908.13</b>	<b>398142.35</b>	<b>310448.55</b>	<b>758192.27</b>	<b>9081.30</b>	<b>3981423.55</b>	<b>3059485.50</b>	<b>7533772.68</b>

**वनपरिक्षेत्र अधिकारी**  
(प्र.) हदगांव



Assistant Conservator of Forest  
(Tenduleaves & Campa) Nanded



(Keshav Wable)  
Deputy Conservator of Forests,  
Nanded Forest Division,  
Nanded.

**Model Rate Structure for Compensatory Afforestation**

**Model No..5**

**Fencing and Irrigated Plantations**

Model rate structure for plantation of mixed tree species having rainfall less than 800 mm and medium quality, medium drained soil.

Village - Dhanachwadi Compt No. 459, Sur/Gut No. 86 / 190, Taluka - Hadgaon Dist. Nanded

Spacement

Size of Pits

No. of Seedlings

3m x 3m

0.45 x 0.45 x 0.45 m

1111 per ha.

Wage Rate

Proposed Area

438.42

per day

Hs.

Year - 2023-24

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 20.00 Ha.			Total
		Man days	Wages	Material Supply	Man days	Wages	Material Supply	
<b>A. Pre Monsoon Works PPO/PYO</b>								
1	a.) Survey and demarcation	1.00	438.42	91.00	20.00	8768.40	1820.00	10588.40
	b.) Preparation of treatment map (100 m x 50 m grid)	1.00	438.42	91.00	20.00	8768.40	1820.00	10588.40
	c.) Digging trial pits of size 0.30 x 0.30 x 0.60 in corner of Gird.	0.40	175.37	0.00	8.00	3507.36	0.00	3507.36
	d.) Fixing 60cm x 0.05cm x 12 cm cement pillars upto 30cm deep in corner of Grid, painting with Grid No. etc. complete (3 pillars, Rs.75/- for each pillars)	0.00	0.00	225.00	0.00	0.00	4500.00	4500.00
	e.) Clearing of bushes and preparation of site (As per requirement)	10.00	4384.20	91.00	200.00	87684.00	1820.00	89504.00
2	Soil and moisture conservation works including collection of rubbles from areas upto 30 m etc	31.00	13591.02	0.00	620.00	271820.40	0.00	271820.40
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. leadplus 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 50mm x 50mm, 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	0.00	0.00	3657312.00	3657312.00

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 20.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
4	Alignment of pits at 3m x 3m spacement 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	55.60	24376.15	995.40	25371.55
5	Digging of pits of size 0.45 x 0.45 x 0.45 m (1111 pits per ha) 6.60 M.D. per 100 pits. Note :- As per local conditions provision for mechanized digging can be made.	73.33	32149.34	0.00	32149.34	1466.60	642986.77	0.00	642986.77
6	Construction of 5.00 Rmt wide Inspection Path 1M.D. per 100 Rmt	1.00	438.42	0.00	438.42	20.00	8768.40	0.00	8768.40
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	15.00	6576.30	500.00	7076.30
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	5000.00	5000.00
9	Part Nursery cost of raising 1333 seedlings per ha (including 20% casualty replacement) in polygons of size 12.50 x 25.00 cm (wages Rs. 11.90 and M & S Rs. 3.62 per plant)	46.71	20478.60	4825.46	25304.06	934.20	409571.96	96509.20	506081.16
<b>Total</b>		<b>167.97</b>	<b>73641.41</b>	<b>193263.83</b>	<b>266905.24</b>	<b>3359.40</b>	<b>1472828.15</b>	<b>3770276.60</b>	<b>5243104.75</b>
Contingency 3%					8007.16				157293.14
Labour Welfare 4%					10676.21				209724.19
<b>Grand Total</b>		<b>167.97</b>	<b>73641.41</b>	<b>193263.83</b>	<b>285588.60</b>	<b>3359.40</b>	<b>1472828.15</b>	<b>3770276.60</b>	<b>5610122.08</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 20.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>B. First Year Operations</b>									
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	6488.62	1079.73	7568.35	296.00	129772.32	21594.60	151366.92
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	368.80	161689.30	38885.00	200574.30
3	Transportation of 1333 seedlings from Nursery to plantation site including loading & unloading (0.14 M.D. per 100 seedlings & M.S. Rs.1.82 per seedlings )	1.87	819.85	2426.00	3245.85	37.40	16396.91	48520.00	64916.91
4	Planting of 1111 seedlings (1.0 M.D. per 100 seedlings)	11.11	4870.85	0.00	4870.85	222.20	97416.92	0.00	97416.92
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	888.80	389667.70	18220.40	407888.10
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/ marka @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	1185.00	519527.70	1087900.00	1607427.70
7	Casualty replacement (20% 222 Seedlings per ha.) (2 M.D. per 100 Seedlings)	4.44	1946.58	0.00	1946.58	88.80	38931.70	0.00	38931.70
8	Part Nursery cost for causality replacement in SYO (222 Seedlings per ha.) (wages Rs. 11.90 and material supply Rs.3.62 total Rs.12.55 per seedling)	7.77	3406.52	803.64	4210.16	155.40	68130.47	16072.80	84203.27
9	Watch and ward (10 months - 1 watcher per 10 ha )	27.38	12003.94	0.00	12003.94	547.60	240078.79	0.00	240078.79
10	Soil working for naturally gower plants and singling (1.15 M.D per 100 plants)	1.15	504.18	10.00	514.18	23.00	10083.66	200.00	10283.66
11	Fire tracing	2.00	876.84	0.00	876.84	40.00	17536.80	0.00	17536.80
	<b>Total</b>	<b>192.65</b>	<b>84461.61</b>	<b>61569.64</b>	<b>146031.25</b>	<b>3853.00</b>	<b>1689232.26</b>	<b>1231392.80</b>	<b>2920625.06</b>
	Contingency 3%				4380.94				87618.75
	Labour Welfare 4%				5841.25				116825.00
	<b>Grand Total</b>	<b>192.65</b>	<b>84461.61</b>	<b>61569.64</b>	<b>156253.44</b>	<b>3853.00</b>	<b>1689232.26</b>	<b>1231392.80</b>	<b>3125068.81</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 20.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>C. Second Year Operations</b>									
1	Part nursery cost for seedlings for causality replacement (222 seedlings per ha) labour rate @Rs. 3.77 M.S Rs.1.82 per seedlings.	2.46	1078.51	404.00	1482.51	49.20	21570.26	8080.00	29650.26
2	Transportation of 222 seedlings for causality replacement from nursery to plantation site (including loading and unloading) wages 0.14 M.D per 100 Seedling & M.S Rs. 1.82 per seedlings	0.31	135.91	404.04	539.95	6.20	2718.20	8080.80	10799.00
3	Planting for causality replacement 222 seedlings (2.00 M.D. per 100 seedlings)	4.44	1946.58	0.00	1946.58	88.80	38931.70	0.00	38931.70
4	2 Weedings and 1 soil working, with fertilizer application 2.5 M.D. per 100 seedlings at M.S Rs.0.82 per seedling	27.77	12174.92	911.02	13085.94	555.40	243498.47	18220.40	261718.87
5	Watering 111 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	1777.60	779335.39	722100.00	1501435.39
6	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	730.00	320046.60	0.00	320046.60
7	Fire tracing	2.00	876.84	0.00	876.84	40.00	17536.80	0.00	17536.80
	<b>Total</b>	<b>162.360</b>	<b>71181.87</b>	<b>37824.06</b>	<b>109005.93</b>	<b>3247.20</b>	<b>1423637.42</b>	<b>756481.20</b>	<b>2180118.62</b>
	Contingency 3%				3270.18				65403.56
	Labour Welfare 4%				4360.24				87204.74
	<b>Grand Total</b>	<b>162.36</b>	<b>71181.87</b>	<b>37824.06</b>	<b>116636.35</b>	<b>3247.20</b>	<b>1423637.42</b>	<b>756481.20</b>	<b>2332726.93</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 20.00 Ha.			Total	Material Supply	Total
		Man days	Wages	Material Supply	Man days	Wages	Material Supply			
<b>D. Third Year Operations</b>										
1	1 weeding and 1 soil working (1.50 M.D per 100 seedlings) applying fertilizer @ Rs.0.82 per plant.	16.67	7308.46	911.02	333.40	146169.23	18220.40			164389.63
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	889.60	390018.43	333600.00			723618.43
3	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	730.00	320046.60	0.00			320046.60
4	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	876.84	25.00	40.00	17536.80	500.00			18036.80
5	Fire tracing	2.00	876.84	0.00	40.00	17536.80	0.00			17536.80
	<b>Total</b>	<b>101.65</b>	<b>44565.39</b>	<b>17616.02</b>	<b>2033.00</b>	<b>891307.86</b>	<b>352320.40</b>			<b>1243628.26</b>
	Contingency 3%					1865.44				37308.85
	Labour Welfare 4%					2487.26				49745.13
	<b>Grand Total</b>	<b>101.65</b>	<b>44565.39</b>	<b>17616.02</b>	<b>2033.00</b>	<b>891307.86</b>	<b>352320.40</b>			<b>1330682.24</b>
<b>E. Fourth Year Operations</b>										
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	730.00	320046.60	0.00			320046.60
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	40.00	17536.80	500.00			18036.80
3	Fire Tracing	2.00	876.84	0.00	40.00	17536.80	0.00			17536.80
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>810.00</b>	<b>355120.20</b>	<b>500.00</b>			<b>355620.20</b>
	Contingency 3%					533.43				10668.61
	Labour Welfare 4%					711.24				14224.81
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>810.00</b>	<b>355120.20</b>	<b>500.00</b>			<b>380513.61</b>
<b>F. Fifth Year Operations</b>										
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	730.00	320046.60	0.00			320046.60
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	40.00	17536.80	500.00			18036.80
3	Fire Tracing	2.00	876.84	0.00	40.00	17536.80	0.00			17536.80
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>810.00</b>	<b>355120.20</b>	<b>500.00</b>			<b>355620.20</b>
	Contingency 3%					533.43				10668.61
	Labour Welfare 4%					711.24				14224.81
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>810.00</b>	<b>355120.20</b>	<b>500.00</b>			<b>380513.61</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 20.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>G. Sixth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	730.00	320046.60	0.00	320046.60
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	40.00	17536.80	500.00	18036.80
3	Fire Tracing	2.00	876.84	0.00	876.84	40.00	17536.80	0.00	17536.80
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>810.00</b>	<b>355120.20</b>	<b>500.00</b>	<b>355620.20</b>
	Contingency 3%			0.00	533.43			0.00	10668.61
	Labour Welfare 4%			0.00	711.24			0.00	14224.81
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>810.00</b>	<b>355120.20</b>	<b>500.00</b>	<b>380513.61</b>
<b>H. Seventh Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	730.00	320046.60	0.00	320046.60
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	40.00	17536.80	500.00	18036.80
3	Fire Tracing	2.00	876.84	0.00	876.84	40.00	17536.80	0.00	17536.80
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>810.00</b>	<b>355120.20</b>	<b>500.00</b>	<b>355620.20</b>
	Contingency 3%			0.00	533.43			0.00	10668.61
	Labour Welfare 4%			0.00	711.24			0.00	14224.81
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>810.00</b>	<b>355120.20</b>	<b>500.00</b>	<b>380513.61</b>
<b>I. Eight Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	730.00	320046.60	0.00	320046.60
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	40.00	17536.80	500.00	18036.80
3	Fire Tracing	2.00	876.84	0.00	876.84	40.00	17536.80	0.00	17536.80
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>810.00</b>	<b>355120.20</b>	<b>500.00</b>	<b>355620.20</b>
	Contingency 3%			0.00	533.43			0.00	10668.61
	Labour Welfare 4%			0.00	711.24			0.00	14224.81
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>810.00</b>	<b>355120.20</b>	<b>500.00</b>	<b>380513.61</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 20.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>J. Nine Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	730.00	320046.60	0.00	320046.60
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	40.00	17536.80	500.00	18036.80
3	Fire Tracing	2.00	876.84	0.00	876.84	40.00	17536.80	0.00	17536.80
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>810.00</b>	<b>355120.20</b>	<b>500.00</b>	<b>355620.20</b>
	Contingency 3%			0.00	533.43			0.00	10668.61
	Labour Welfare 4%			0.00	711.24			0.00	14224.81
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>810.00</b>	<b>355120.20</b>	<b>500.00</b>	<b>380513.61</b>
<b>K. Tenth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	730.00	320046.60	0.00	320046.60
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	40.00	17536.80	500.00	18036.80
3	Fire Tracing	2.00	876.84	0.00	876.84	40.00	17536.80	0.00	17536.80
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>810.00</b>	<b>355120.20</b>	<b>500.00</b>	<b>355620.20</b>
	Contingency 3%			0.00	533.43			0.00	10668.61
	Labour Welfare 4%			0.00	711.24			0.00	14224.81
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>810.00</b>	<b>355120.20</b>	<b>500.00</b>	<b>380513.61</b>

  
**वनपरिक्षेत्र अधिकारी**  
 (प्र.) हदगांव

  
 Assistant Conservator of Forest  
 (Tenduleaves & Campa) Nanded

  
 (Keshav Wable)  
 Deputy Conservator of Forests,  
 Nanded Forest Division,  
 Nanded.

**Abstract for Model No. 5  
Fencing and Irrigated Plantations**

**Model Rate Structure for Compensatory Afforestation**

Sr. No.	Year of Operation	Area : 1.00 ha. @ wage rate rs. 438.42 /day					Area : 20.00 ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total		
1	Pre Monsoon Works	167.97	73641.41	193263.83	285588.60	3359.40	1472828.15	3770276.60	5610122.08		
2	First Year Operations	192.65	84461.61	61569.64	156253.44	3853.00	1689232.26	1231392.80	3125068.81		
3	Second Year Operations	162.36	71181.87	37824.06	116636.35	3247.20	1423637.42	756481.20	2332726.93		
4	Third Year Operations	101.65	44565.39	17616.02	66534.11	2033.00	891307.86	352320.40	1330682.24		
5	Fourth Year Operations	40.50	17756.01	25.00	19025.68	810.00	355120.20	500.00	380513.61		
6	Fifth Year Operations	40.50	17756.01	25.00	19025.68	810.00	355120.20	500.00	380513.61		
7	Sixth Year Operations	40.50	17756.01	25.00	19025.68	810.00	355120.20	500.00	380513.61		
8	Seventh Year Operations	40.50	17756.01	25.00	19025.68	810.00	355120.20	500.00	380513.61		
9	Eight Year Operations	40.50	17756.01	25.00	19025.68	810.00	355120.20	500.00	380513.61		
10	Nineth Year Operations	40.50	17756.01	25.00	19025.68	810.00	355120.20	500.00	380513.61		
11	Tenth Year Operations	40.50	17756.01	25.00	19025.68	810.00	355120.20	500.00	380513.61		
	<b>Total</b>	<b>908.13</b>	<b>398142.35</b>	<b>310448.55</b>	<b>758192.27</b>	<b>18162.60</b>	<b>7962847.09</b>	<b>6113971.00</b>	<b>15062195.36</b>		



**वनपरिक्षेत्र अधिकारी  
(प्रा.) हद्दागांव**



**Assistant Conservator of Forest  
(Tandulaves & Campa) Nanded**



**(Keshav Wable)  
Deputy Conservator of Forest,  
Nanded Forest Division,  
Nanded.**

**Model Rate Structure for Compensatory Afforestation  
Model No..5**

**Fencing and Irrigated Plantations**

Model rate structure for plantation of mixed tree species having rainfall less than 800 mm and medium quality, medium drained soil.

Village - Shimpala Compt No. 584, Sur/Gut No. 77 / 113, Taluka - Degloor Dist. Nanded

Spacing  
3m x 3m  
Size of Pits  
0.45 x 0.45 x 0.45 m  
No. of Seedlings  
1111 per ha.

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 15.00 Ha.			Year - 2023-24	
		Man days	Wages	Material Supply	Total	Man days	Wages		Material Supply
	<b>A. Pre Monsoon Works PPO/PVO</b>								
1	a.) Survey and demarcation	1.00	438.42	91.00	529.42	15.00	6576.30	1365.00	7941.30
	b.) Preparation of treatment map (100 m x 50 m grid)	1.00	438.42	91.00	529.42	15.00	6576.30	1365.00	7941.30
	c.) Digging trial pits of size 0.30 x 0.30 x 0.60 in corner of Grid.	0.40	175.37	0.00	175.37	6.00	2630.52	0.00	2630.52
	d.) Fixing 60cm x 0.05cm x 12 cm cement pillars upto 30cm 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	0.00	0.00	3375.00	3375.00
	e.) Clearing of bushes and preparation of site (As per requirement)	10.00	4384.20	91.00	4475.20	150.00	65763.00	1365.00	67128.00
2	Soil and moisture conservation works including collection of rubbles from areas upto 30 m etc	31.00	13591.02	0.00	13591.02	465.00	203865.30	0.00	203865.30
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. leadplus 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 50mm x 50m, 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	0.00	0.00	2742984.00	2742984.00

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 15.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
		4	Alignment of pits at 3m x 3m spacement 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	41.70	18282.11
5	Digging of pits of size 0.45 x 0.45 x 0.45 m (1111 pits per ha) 6.60 M.D.per 100 pits. Note :- As per local conditions provision for mechanized digging can be made.	73.33	32149.34	0.00	32149.34	1099.95	482240.08	0.00	482240.08
6	Construction of 5.00 Rmt wide Inspection Path IM.D. per 100 Rmt	1.00	438.42	0.00	438.42	15.00	6576.30	0.00	6576.30
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	11.25	4932.23	375.00	5307.23
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	5000.00	5000.00
9	Part Nursery cost of raising 1333 seedlings per ha (including 20% casualty replacement) in polygons of size 12.50 x 25.00 cm (wages Rs. 11.90 and M & S Rs. 3.62 per plant)	46.71	20478.60	4825.46	25304.06	700.65	307178.97	72381.90	379560.87
<b>Total</b>		<b>167.97</b>	<b>73641.41</b>	<b>193263.83</b>	<b>266905.24</b>	<b>2519.55</b>	<b>1104621.11</b>	<b>2828957.45</b>	<b>3933578.56</b>
Contingency 3%					8007.16				118007.36
Labour Welfare 4%					10676.21				157343.14
<b>Grand Total</b>		<b>167.97</b>	<b>73641.41</b>	<b>193263.83</b>	<b>285588.60</b>	<b>2519.55</b>	<b>1104621.11</b>	<b>2828957.45</b>	<b>4208929.06</b>

  
**Range Forest Officer**  
 (T) Degloor

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 15.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>B. First Year Operations</b>									
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	6488.62	1079.73	7568.35	222.00	97329.24	16195.95	113525.19
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	276.60	121266.97	29163.75	150430.72
3	Transportation of 1333 seedlings from Nursery to plantation site including loading & unloading (0.14 M.D. per 100 seedlings & M.S. Rs.1.82 per seedlings )	1.87	819.85	2426.00	3245.85	28.05	12297.68	36390.00	48687.68
4	Planting of 1111 seedlings (1.0 M.D. per 100 seedlings)	11.11	4870.85	0.00	4870.85	166.65	73062.69	0.00	73062.69
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	666.60	292250.77	13665.30	305916.07
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	888.75	389645.78	815925.00	1205570.78
7	Casulty replacement (20% 222 Seedlings per ha.) (2 M.D. per 100 Seedlings)	4.44	1946.58	0.00	1946.58	66.60	29198.77	0.00	29198.77
8	Part Nursery cost for causality replacement in SYO (222 Seedlings per ha.) (wages Rs. 11.90 and material supply Rs.3.62 total Rs.12.55 per seedling)	7.77	3406.52	803.64	4210.16	116.55	51097.85	12054.60	63152.45
9	Watch and ward (10 months - 1 watcher per 10 ha )	27.38	12003.94	0.00	12003.94	410.70	180059.09	0.00	180059.09
10	Soil working for naturally grower plants and singling (1.15 M.D per 100 plants)	1.15	504.18	10.00	514.18	17.25	7562.75	150.00	7712.75
11	Fire tracing	2.00	876.84	0.00	876.84	30.00	13152.60	0.00	13152.60
<b>Total</b>		<b>192.65</b>	<b>84461.61</b>	<b>61569.64</b>	<b>146031.25</b>	<b>2889.75</b>	<b>1266924.20</b>	<b>923544.60</b>	<b>2190468.80</b>
Contingency 3%					4380.94				65714.06
Labour Welfare 4%					5841.25				87618.75
<b>Grand Total</b>		<b>192.65</b>	<b>84461.61</b>	<b>61569.64</b>	<b>156253.44</b>	<b>2889.75</b>	<b>1266924.20</b>	<b>923544.60</b>	<b>2343801.61</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 15.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>C. Second Year Operations</b>									
1	Part nursery cost for seedlings for causality replacement (222 seedlings per ha) labour rate @Rs. 3.77 M.S Rs. 1.82 per seedlings.	2.46	1078.51	404.00	1482.51	36.90	16177.70	6060.00	22237.70
2	Transportation of 222 seedlings for causality replacement from nursery to plantation site (including loading and unloading) wages 0.14 M.D per 100 Seedling & M.S Rs. 1.82 per seedlings	0.31	135.91	404.04	539.95	4.65	2038.65	6060.60	8099.25
3	Planting for causality replacement 222 seedlings (2.00 M.D. per 100 seedlings)	4.44	1946.58	0.00	1946.58	66.60	29198.77	0.00	29198.77
4	2 Weedings and 1 soil working, with fertilizer application 2.5 M.D. per 100 seedlings at M.S Rs.0.82 per seedling	27.77	12174.92	911.02	13085.94	416.55	182623.85	13665.30	196289.15
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	1333.20	584501.54	541575.00	1126076.54
6	Watch and ward 12 months - 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	547.50	240034.95	0.00	240034.95
7	Fire tracing	2.00	876.84	0.00	876.84	30.00	13152.60	0.00	13152.60
	<b>Total</b>	<b>162.360</b>	<b>71181.87</b>	<b>37824.06</b>	<b>109005.93</b>	<b>2435.40</b>	<b>1067728.07</b>	<b>567360.90</b>	<b>1635088.97</b>
	Contingency 3%				3270.18				49052.67
	Labour Welfare 4%				4360.24				65403.56
	<b>Grand Total</b>	<b>162.36</b>	<b>71181.87</b>	<b>37824.06</b>	<b>116636.35</b>	<b>2435.40</b>	<b>1067728.07</b>	<b>567360.90</b>	<b>1749545.20</b>

  
**Range Forest Officer**  
**(M) Degloor**

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 15.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>D. Third Year Operations</b>									
1	1 weeding and 1 soil working (1.50 M.D per 100 seedlings) applying fertilizer @ Rs.0.82 per plant.	16.67	7308.46	911.02	8219.48	250.05	109626.92	13665.30	123292.22
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	667.20	292513.82	250200.00	542713.82
3	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	547.50	240034.95	0.00	240034.95
4	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	30.00	13152.60	375.00	13527.60
5	Fire tracing	2.00	876.84	0.00	876.84	30.00	13152.60	0.00	13152.60
	<b>Total</b>	<b>101.65</b>	<b>44565.39</b>	<b>17616.02</b>	<b>62181.41</b>	<b>1524.75</b>	<b>668480.90</b>	<b>264240.30</b>	<b>932721.20</b>
	Contingency 3%				1865.44				27981.64
	Labour Welfare 4%				2487.26				37308.85
	<b>Grand Total</b>	<b>101.65</b>	<b>44565.39</b>	<b>17616.02</b>	<b>66534.11</b>	<b>1524.75</b>	<b>668480.90</b>	<b>264240.30</b>	<b>998011.68</b>
<b>E. Fourth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	547.50	240034.95	0.00	240034.95
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	30.00	13152.60	375.00	13527.60
3	Fire Tracing	2.00	876.84	0.00	876.84	30.00	13152.60	0.00	13152.60
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>607.50</b>	<b>266340.15</b>	<b>375.00</b>	<b>266715.15</b>
	Contingency 3%				533.43				8001.45
	Labour Welfare 4%				711.24				10668.61
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>607.50</b>	<b>266340.15</b>	<b>375.00</b>	<b>285385.21</b>
<b>F. Fifth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	547.50	240034.95	0.00	240034.95
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	30.00	13152.60	375.00	13527.60
3	Fire Tracing	2.00	876.84	0.00	876.84	30.00	13152.60	0.00	13152.60
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>607.50</b>	<b>266340.15</b>	<b>375.00</b>	<b>266715.15</b>
	Contingency 3%				533.43				8001.45
	Labour Welfare 4%				711.24				10668.61
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>607.50</b>	<b>266340.15</b>	<b>375.00</b>	<b>285385.21</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 15.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>G. Sixth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	547.50	240034.95	0.00	240034.95
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	30.00	13152.60	375.00	13527.60
3	Fire Tracing	2.00	876.84	0.00	876.84	30.00	13152.60	0.00	13152.60
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>607.50</b>	<b>266340.15</b>	<b>375.00</b>	<b>266715.15</b>
	Contingency 3%			0.00	533.43			0.00	8001.45
	Labour Welfare 4%			0.00	711.24			0.00	10668.61
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>607.50</b>	<b>266340.15</b>	<b>375.00</b>	<b>285385.21</b>
<b>H. Seventh Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	547.50	240034.95	0.00	240034.95
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	30.00	13152.60	375.00	13527.60
3	Fire Tracing	2.00	876.84	0.00	876.84	30.00	13152.60	0.00	13152.60
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>607.50</b>	<b>266340.15</b>	<b>375.00</b>	<b>266715.15</b>
	Contingency 3%			0.00	533.43			0.00	8001.45
	Labour Welfare 4%			0.00	711.24			0.00	10668.61
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>607.50</b>	<b>266340.15</b>	<b>375.00</b>	<b>285385.21</b>
<b>I. Eight Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	547.50	240034.95	0.00	240034.95
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	30.00	13152.60	375.00	13527.60
3	Fire Tracing	2.00	876.84	0.00	876.84	30.00	13152.60	0.00	13152.60
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>607.50</b>	<b>266340.15</b>	<b>375.00</b>	<b>266715.15</b>
	Contingency 3%			0.00	533.43			0.00	8001.45
	Labour Welfare 4%			0.00	711.24			0.00	10668.61
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>607.50</b>	<b>266340.15</b>	<b>375.00</b>	<b>285385.21</b>
<b>J. Nine Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	547.50	240034.95	0.00	240034.95
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	30.00	13152.60	375.00	13527.60
3	Fire Tracing	2.00	876.84	0.00	876.84	30.00	13152.60	0.00	13152.60
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>607.50</b>	<b>266340.15</b>	<b>375.00</b>	<b>266715.15</b>
	Contingency 3%			0.00	533.43			0.00	8001.45
	Labour Welfare 4%			0.00	711.24			0.00	10668.61
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>607.50</b>	<b>266340.15</b>	<b>375.00</b>	<b>285385.21</b>

  
 Range Forest Officer  
 (M) Dantoor

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 15.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>J. Nine Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	547.50	240034.95	0.00	240034.95
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	30.00	13152.60	375.00	13527.60
3	Fire Tracing	2.00	876.84	0.00	876.84	30.00	13152.60	0.00	13152.60
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>607.50</b>	<b>266340.15</b>	<b>375.00</b>	<b>266715.15</b>
	Contingency 3%			0.00	533.43			0.00	8001.45
	Labour Welfare 4%			0.00	711.24			0.00	10668.61
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>607.50</b>	<b>266340.15</b>	<b>375.00</b>	<b>285385.21</b>
<b>K. Tenth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	547.50	240034.95	0.00	240034.95
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	30.00	13152.60	375.00	13527.60
3	Fire Tracing	2.00	876.84	0.00	876.84	30.00	13152.60	0.00	13152.60
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>607.50</b>	<b>266340.15</b>	<b>375.00</b>	<b>266715.15</b>
	Contingency 3%			0.00	533.43			0.00	8001.45
	Labour Welfare 4%			0.00	711.24			0.00	10668.61
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>607.50</b>	<b>266340.15</b>	<b>375.00</b>	<b>285385.21</b>

  
**Range Forest Officer**  
 (T) Degloor

  
 Assistant Conservator of Forest  
 (Tanduleaves & Campa) Nanded

  
 (Keshav Wable)  
 Deputy Conservator of Forests,  
 Nanded Forest Division,  
 Nanded.

**Abstract for Model No. 5  
Fencing and Irrigated Plantations  
Model Rate Structure for Compensatory Afforestation**

Sr. No.	Year of Operation	Area : 1.00 ha. @ wage rate rs. 438.42 /day					Area : 15.00 ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total		
1	Pre Monsoon Works	167.97	73641.41	193263.83	285588.60	2519.55	1104621.11	2828957.45	4208929.06		
2	First Year Operations	192.65	84461.61	61569.64	156253.44	2889.75	1266924.20	923544.60	2343801.61		
3	Second Year Operations	162.36	71181.87	37824.06	116636.35	2435.40	1067728.07	567360.90	1749545.20		
4	Third Year Operations	101.65	44565.39	17616.02	66534.11	1524.75	668480.90	264240.30	998011.68		
5	Fourth Year Operations	40.50	17756.01	25.00	19025.68	607.50	266340.15	375.00	285385.21		
6	Fifth Year Operations	40.50	17756.01	25.00	19025.68	607.50	266340.15	375.00	285385.21		
7	Sixth Year Operations	40.50	17756.01	25.00	19025.68	607.50	266340.15	375.00	285385.21		
8	Seventh Year Operations	40.50	17756.01	25.00	19025.68	607.50	266340.15	375.00	285385.21		
9	Eight Year Operations	40.50	17756.01	25.00	19025.68	607.50	266340.15	375.00	285385.21		
10	Ninth Year Operations	40.50	17756.01	25.00	19025.68	607.50	266340.15	375.00	285385.21		
11	Tenth Year Operations	40.50	17756.01	25.00	19025.68	607.50	266340.15	375.00	285385.21		
	<b>Total</b>	<b>908.13</b>	<b>398142.35</b>	<b>310448.55</b>	<b>758192.27</b>	<b>13621.95</b>	<b>5972135.32</b>	<b>4586728.25</b>	<b>11297984.02</b>		

**Range Forest Officer  
(T) Degloor**

  
**Assistant Conservator of Forest  
(Tandulaves & Campa) Nanded**

  
**(Keshav Wable)**  
Deputy Conservator of Forests,  
Nanded Forest Division,  
Nanded.

**Model Rate Structure for Compensatory Afforestation**  
**Model No..5**

**Fencing and Irrigated Plantations**

Model rate structure for plantation of mixed tree species having rainfall less than 800 mm and medium quality, medium drained soil.

Village - Rudrapur Compt No. 588, Sur/Gut No. 64, Taluka - Degloor Dist. Nanded

Sr. No.	Particulars of works	Area : 1.00 Ha.		Area : 15.00 Ha.		Year - 2023-24				
		Man days	Wages	Material Supply	Total		Man days	Wages	Material Supply	Total
A. Pre Monsoon Works PPO/PYO		Wage Rate Proposed Area		per day Ha.						
		438.42		15.00						
		15.00		1365.00						
		15.00		1365.00						
		6.00		2630.52						
		0.00		0.00						
		225.00		3375.00						
		150.00		65763.00						
		465.00		203865.30						
		0.00		0.00						
		182865.60		2742984.00						
1	a.) Survey and demarcation b.) Preparation of treatment map (100 m x 50 m grid) c.) Digging trial pits of size 0.30 x 0.30 x 0.60 in corner of Grid. d.) Fixing 60cm x 0.05cm x 12 cm cement pillars upto 30cm deep in corner of Grid, painting with Grid No. etc. complete (3 pillars, Rs.75/- for each pillars) e.) Clearing of bushes and preparation of site (As per requirement)	1.00 1.00 0.40 0.00 10.00	438.42 438.42 175.37 0.00 4384.20	91.00 91.00 0.00 225.00 91.00	529.42 529.42 175.37 225.00 4475.20	15.00 15.00 6.00 0.00 150.00	6576.30 6576.30 2630.52 0.00 65763.00	1365.00 1365.00 0.00 3375.00 1365.00	7941.30 7941.30 2630.52 3375.00 67128.00	
2	Soil and moisture conservation works including collection of rubbles from areas upto 30 m etc	31.00	13591.02	0.00	13591.02	465.00	203865.30	0.00	203865.30	
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. leadplus 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 50mm x 50m, 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	0.00	0.00	2742984.00	2742984.00	

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 15.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
4	Alignment of pits at 3m x 3m spacing 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	41.70	18282.11	746.55	19028.66
5	Digging of pits of size 0.45 x 0.45 x 0.45 m (1111 pits per ha) 6.60 M.D. per 100 pits. Note :- As per local conditions provision for mechanized digging can be made.	73.33	32149.34	0.00	32149.34	1099.95	482240.08	0.00	482240.08
6	Construction of 5.00 Rmt wide Inspection Path 1M.D. per 100 Rmt	1.00	438.42	0.00	438.42	15.00	6576.30	0.00	6576.30
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	11.25	4932.23	375.00	5307.23
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	5000.00	5000.00
9	Part Nursery cost of raising 1333 seedlings per ha (including 20% casualty replacement) in polygons of size 12.50 x 25.00 cm (wages Rs. 11.90 and M & S Rs. 3.62 per plant)	46.71	20478.60	4825.46	25304.06	700.65	307178.97	72381.90	379560.87
	<b>Total</b>	<b>167.97</b>	<b>73641.41</b>	<b>193263.83</b>	<b>266905.24</b>	<b>2519.55</b>	<b>1104621.11</b>	<b>282895.45</b>	<b>3933578.56</b>
	Contingency 3%			8007.16					118007.36
	Labour Welfare 4%			10676.21					157343.14
	<b>Grand Total</b>	<b>167.97</b>	<b>73641.41</b>	<b>193263.83</b>	<b>285588.60</b>	<b>2519.55</b>	<b>1104621.11</b>	<b>282895.45</b>	<b>4208929.06</b>

  
**Range Forest Officer**  
**(M) Degloor**

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 15.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>B. First Year Operations</b>									
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	6488.62	1079.73	7568.35	222.00	97329.24	16195.95	113525.19
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	276.60	121266.97	29163.75	150430.72
3	Transportation of 1333 seedlings from Nursery to plantation site including loading & unloading (0.14 M.D. per 100 seedlings & M.S. Rs.1.82 per seedlings )	1.87	819.85	2426.00	3245.85	28.05	12297.68	36390.00	48687.68
4	Planting of 1111 seedlings (1.0 M.D. per 100 seedlings)	11.11	4870.85	0.00	4870.85	166.65	73062.69	0.00	73062.69
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	666.60	292250.77	13665.30	305916.07
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	888.75	389645.78	815925.00	1205570.78
7	Casulty replacement (20% 222 Seedlings per ha.) (2 M.D. per 100 Seedlings)	4.44	1946.58	0.00	1946.58	66.60	29198.77	0.00	29198.77
8	Part Nursery cost for causality replacement in SYO (222 Seedlings per ha.) (wages Rs. 11.90 and material supply Rs.3.62 total Rs.12.55 per seedling)	7.77	3406.52	803.64	4210.16	116.55	51097.85	12054.60	63152.45
9	Watch and ward (10 months - 1 watcher per 10 ha )	27.38	12003.94	0.00	12003.94	410.70	180059.09	0.00	180059.09
10	Soil working for naturally gower plants and singling (1.15 M.D per 100 plants)	1.15	504.18	10.00	514.18	17.25	7562.75	150.00	7712.75
11	Fire tracing	2.00	876.84	0.00	876.84	30.00	13152.60	0.00	13152.60
	<b>Total</b>	<b>192.65</b>	<b>84461.61</b>	<b>61569.64</b>	<b>146031.25</b>	<b>2889.75</b>	<b>1266924.20</b>	<b>923544.60</b>	<b>2190468.80</b>
	Contingency 3%				4380.94				65714.06
	Labour Welfare 4%				5841.25				87618.75
	<b>Grand Total</b>	<b>192.65</b>	<b>84461.61</b>	<b>61569.64</b>	<b>156253.44</b>	<b>2889.75</b>	<b>1266924.20</b>	<b>923544.60</b>	<b>2343801.61</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 15.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>C. Second Year Operations</b>									
1	Part nursery cost for seedlings for causality replacement (222 seedlings per ha) labour rate @Rs. 3.77 M.S Rs.1.82 per seedlings.	2.46	1078.51	404.00	1482.51	36.90	16177.70	6060.00	22237.70
2	Transportation of 222 seedlings for causality replacement from nursery to plantation site (including loading and unloading) wages 0.14 M.D per 100 Seedling & M.S Rs. 1.82 per seedlings	0.31	135.91	404.04	539.95	4.65	2038.65	6060.60	8099.25
3	Planting for causality replacement 222 seedlings (2.00 M.D. per 100 seedlings)	4.44	1946.58	0.00	1946.58	66.60	29198.77	0.00	29198.77
4	2 Weedings and 1 soil working, with fertilizer application 2.5 M.D. per 100 seedlings at M.S Rs.0.82 per seedling	27.77	12174.92	911.02	13085.94	416.55	182623.85	13665.30	196289.15
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	1333.20	584501.54	541575.00	1126076.54
6	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	547.50	240034.95	0.00	240034.95
7	Fire tracing	2.00	876.84	0.00	876.84	30.00	13152.60	0.00	13152.60
	<b>Total</b>	<b>162.360</b>	<b>71181.87</b>	<b>37824.06</b>	<b>109005.93</b>	<b>2435.40</b>	<b>1067728.07</b>	<b>567360.90</b>	<b>1635088.97</b>
	Contingency 3%				3270.18				49052.67
	Labour Welfare 4%				4360.24				65403.56
	<b>Grand Total</b>	<b>162.36</b>	<b>71181.87</b>	<b>37824.06</b>	<b>116636.35</b>	<b>2435.40</b>	<b>1067728.07</b>	<b>567360.90</b>	<b>1749545.20</b>

  
**Range Forest Officer**  
**(T) Degloor**

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 15.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>D. Third Year Operations</b>									
1	1 weeding and 1 soil working (1.50 M.D per 100 seedlings) applying fertilizer @ Rs.0.82 per plant.	16.67	7308.46	911.02	8219.48	250.05	109626.92	13665.30	123592.22
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	667.20	292513.82	250200.00	542713.82
3	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	547.50	240034.95	0.00	240034.95
4	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	30.00	13152.60	375.00	13527.60
5	Fire tracing	2.00	876.84	0.00	876.84	30.00	13152.60	0.00	13152.60
	<b>Total</b>	<b>101.65</b>	<b>44565.39</b>	<b>17616.02</b>	<b>62181.41</b>	<b>1524.75</b>	<b>668480.90</b>	<b>264240.30</b>	<b>932721.20</b>
	Contingency 3%				1865.44				27981.64
	Labour Welfare 4%				2487.26				37308.85
	<b>Grand Total</b>	<b>101.65</b>	<b>44565.39</b>	<b>17616.02</b>	<b>66534.11</b>	<b>1524.75</b>	<b>668480.90</b>	<b>264240.30</b>	<b>998011.68</b>
<b>E. Fourth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	547.50	240034.95	0.00	240034.95
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	30.00	13152.60	375.00	13527.60
3	Fire Tracing	2.00	876.84	0.00	876.84	30.00	13152.60	0.00	13152.60
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>607.50</b>	<b>266340.15</b>	<b>375.00</b>	<b>266715.15</b>
	Contingency 3%				533.43				8001.45
	Labour Welfare 4%				711.24				10668.61
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>607.50</b>	<b>266340.15</b>	<b>375.00</b>	<b>285385.21</b>
<b>F. Fifth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	547.50	240034.95	0.00	240034.95
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	30.00	13152.60	375.00	13527.60
3	Fire Tracing	2.00	876.84	0.00	876.84	30.00	13152.60	0.00	13152.60
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>607.50</b>	<b>266340.15</b>	<b>375.00</b>	<b>266715.15</b>
	Contingency 3%				533.43				8001.45
	Labour Welfare 4%				711.24				10668.61
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>607.50</b>	<b>266340.15</b>	<b>375.00</b>	<b>285385.21</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 15.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>G. Sixth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	547.50	240034.95	0.00	240034.95
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	30.00	13152.60	375.00	13527.60
3	Fire Tracing	2.00	876.84	0.00	876.84	30.00	13152.60	0.00	13152.60
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>607.50</b>	<b>266340.15</b>	<b>375.00</b>	<b>266715.15</b>
	Contingency 3%			0.00	533.43			0.00	8001.45
	Labour Welfare 4%			0.00	711.24			0.00	10668.61
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>607.50</b>	<b>266340.15</b>	<b>375.00</b>	<b>285385.21</b>
<b>H. Seventh Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	547.50	240034.95	0.00	240034.95
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	30.00	13152.60	375.00	13527.60
3	Fire Tracing	2.00	876.84	0.00	876.84	30.00	13152.60	0.00	13152.60
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>607.50</b>	<b>266340.15</b>	<b>375.00</b>	<b>266715.15</b>
	Contingency 3%			0.00	533.43			0.00	8001.45
	Labour Welfare 4%			0.00	711.24			0.00	10668.61
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>607.50</b>	<b>266340.15</b>	<b>375.00</b>	<b>285385.21</b>
<b>I. Eight Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	547.50	240034.95	0.00	240034.95
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	30.00	13152.60	375.00	13527.60
3	Fire Tracing	2.00	876.84	0.00	876.84	30.00	13152.60	0.00	13152.60
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>607.50</b>	<b>266340.15</b>	<b>375.00</b>	<b>266715.15</b>
	Contingency 3%			0.00	533.43			0.00	8001.45
	Labour Welfare 4%			0.00	711.24			0.00	10668.61
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>607.50</b>	<b>266340.15</b>	<b>375.00</b>	<b>285385.21</b>

  
**Range Forest Officer**  
**(T) Degloor**

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 15.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>J. Nine Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	547.50	240034.95	0.00	240034.95
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	30.00	13152.60	375.00	13527.60
3	Fire Tracing	2.00	876.84	0.00	876.84	30.00	13152.60	0.00	13152.60
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>607.50</b>	<b>266340.15</b>	<b>375.00</b>	<b>266715.15</b>
	Contingency 3%			0.00	533.43			0.00	8001.45
	Labour Welfare 4%			0.00	711.24			0.00	10668.61
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>607.50</b>	<b>266340.15</b>	<b>375.00</b>	<b>285385.21</b>
<b>K. Tenth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	547.50	240034.95	0.00	240034.95
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	30.00	13152.60	375.00	13527.60
3	Fire Tracing	2.00	876.84	0.00	876.84	30.00	13152.60	0.00	13152.60
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>607.50</b>	<b>266340.15</b>	<b>375.00</b>	<b>266715.15</b>
	Contingency 3%			0.00	533.43			0.00	8001.45
	Labour Welfare 4%			0.00	711.24			0.00	10668.61
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>607.50</b>	<b>266340.15</b>	<b>375.00</b>	<b>285385.21</b>

  
**Range Forest Officer**  
 (T) Degloor

  
**Assistant Conservator of Forest**  
 (Tandileaves & Campa) Nanded

  
 (Keshav Wable)  
 Deputy Conservator of Forests,  
 Nanded Forest Division,  
 Nanded.

**Abstract for Model No. 5  
Fencing and Irrigated Plantations**

**Model Rate Structure for Compensatory Afforestation**

Sr. No.	Year of Operation	Area : 1.00 ha. @ wage rate rs. 438.42 /day					Area : 15.00 ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total		
1	Pre Monsoon Works	167.97	73641.41	193263.83	285588.60	2519.55	1104621.11	2828957.45	4208929.06		
2	First Year Operations	192.65	84461.61	61569.64	156253.44	2889.75	1266924.20	923544.60	2343801.61		
3	Second Year Operations	162.36	71181.87	37824.06	116636.35	2435.40	1067728.07	567360.90	1749545.20		
4	Third Year Operations	101.65	44565.39	17616.02	66534.11	1524.75	668480.90	264240.30	998011.68		
5	Fourth Year Operations	40.50	17756.01	25.00	19025.68	607.50	266340.15	375.00	285385.21		
6	Fifth Year Operations	40.50	17756.01	25.00	19025.68	607.50	266340.15	375.00	285385.21		
7	Sixth Year Operations	40.50	17756.01	25.00	19025.68	607.50	266340.15	375.00	285385.21		
8	Seventh Year Operations	40.50	17756.01	25.00	19025.68	607.50	266340.15	375.00	285385.21		
9	Eight Year Operations	40.50	17756.01	25.00	19025.68	607.50	266340.15	375.00	285385.21		
10	Ninth Year Operations	40.50	17756.01	25.00	19025.68	607.50	266340.15	375.00	285385.21		
11	Tenth Year Operations	40.50	17756.01	25.00	19025.68	607.50	266340.15	375.00	285385.21		
	<b>Total</b>	<b>908.13</b>	<b>398142.35</b>	<b>310448.55</b>	<b>758192.27</b>	<b>13621.95</b>	<b>5972135.32</b>	<b>4586728.25</b>	<b>11297984.02</b>		

  
**Range Forest Officer**  
(M) Degloor

  
Assistant Conservator of Forest  
(Tenduleaves & Campa) Nanded

  
(Keshav Wable)  
Deputy Conservator of Forests,  
Nanded Forest Division,  
Nanded.

**Model Rate Structure for Compensatory Afforestation  
Model No..5**

**Fencing and Irrigated Plantations**

Model rate structure for plantation of mixed tree species having rainfall less than 800 mm and medium quality, medium drained soil.

Village - Dorli Compt No. 404, Sur/Gut No.69 / 60, Taluka - Nanded Dist. Nanded

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 10.00 Ha.			Year - 2023-24
		Man days	Wages	Material Supply	Man days	Wages	Material Supply	
Spacement Size of Pits No. of Seedlings 3m x 3m 0.45 x 0.45 x 0.45 m 1111 per ha.		Wage Rate		per day				
		Proposed Area		Ha.				
		438.42		10.00				
		10.00						
<b>A. Pre Monsoon Works PPO/PYO</b>								
1	a.) Survey and demarcation b.) Preparation of treatment map (100 m x 50 m grid) c.) Digging trial pits of size 0.30 x 0.30 x 0.60 in corner of Grid. d.) Fixing 60cm x 0.05cm x 12 cm cement pillars upto 30cm deep in corner of Grid, painting with Grid No. etc. complete (3 pillars, Rs.75/- for each pillars) e.) Clearing of bushes and preparation of site (As per requirement)	1.00 1.00 0.40 0.00 10.00	438.42 438.42 175.37 0.00 4384.20	91.00 91.00 0.00 225.00 91.00	10.00 10.00 4.00 0.00 100.00	4384.20 4384.20 1753.68 0.00 43842.00	910.00 910.00 0.00 2250.00 910.00	5294.20 5294.20 1753.68 2250.00 44752.00
2	Soil and moisture conservation works including collection of rubbles from areas upto 30 m etc	31.00	13591.02	0.00	310.00	135910.20	0.00	135910.20
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. leadplus 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 50mm x 50m, 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	0.00	0.00	1828656.00	1828656.00

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 10.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
4	Alignment of pits at 3m x 3m spacing 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	27.80	12188.08	497.70	12685.78
5	Digging of pits of size 0.45 x 0.45 x 0.45 m (1111 pits per ha) 6.60 M.D. per 100 pits. Note :- As per local conditions provision for mechanized digging can be made.	73.33	32149.34	0.00	32149.34	733.30	321493.39	0.00	321493.39
6	Construction of 5.00 Rmt wide Inspection Path I.M.D. per 100 Rmt	1.00	438.42	0.00	438.42	10.00	4384.20	0.00	4384.20
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	7.50	3288.15	250.00	3538.15
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	5000.00	5000.00
9	Part Nursery cost of raising 1333 seedlings per ha (including 20% casualty replacement) in polygons of size 12.50 x 25.00 cm (wages Rs. 11.90 and M & S Rs. 3.62 per plant)	46.71	20478.60	4825.46	25304.06	467.10	204785.98	48254.60	253040.58
	<b>Total</b>	<b>167.97</b>	<b>73641.41</b>	<b>193263.83</b>	<b>266905.24</b>	<b>1679.70</b>	<b>736414.07</b>	<b>1887638.30</b>	<b>2624052.37</b>
	Contingency 3%			8007.16					78721.57
	Labour Welfare 4%			10676.21					104962.09
	<b>Grand Total</b>	<b>167.97</b>	<b>73641.41</b>	<b>193263.83</b>	<b>285588.60</b>	<b>1679.70</b>	<b>736414.07</b>	<b>1887638.30</b>	<b>2807736.04</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 10.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>B. First Year Operations</b>									
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	6488.62	1079.73	7568.35	148.00	64886.16	10797.30	75683.46
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	184.40	80844.65	19442.50	100287.15
3	Transportation of 1333 seedlings from Nursery to plantation site including loading & unloading (0.14 M.D. per 100 seedlings & M.S. Rs.1.82 per seedlings )	1.87	819.85	2426.00	3245.85	18.70	8198.45	24260.00	32458.45
4	Planting of 1111 seedlings (1.0 M.D. per 100 seedlings)	11.11	4870.85	0.00	4870.85	111.10	48708.46	0.00	48708.46
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	444.40	194833.85	9110.20	203944.05
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	592.50	259763.85	543950.00	803713.85
7	Casualty replacement (20% 222 Seedlings per ha.) (2 M.D. per 100 Seedlings)	4.44	1946.58	0.00	1946.58	44.40	19465.85	0.00	19465.85
8	Part Nursery cost for causality replacement in SYO (222 Seedlings per ha.) (wages Rs. 11.90 and material supply Rs.3.62 total Rs.12.55 per seedling)	7.77	3406.52	803.64	4210.16	77.70	34065.23	8036.40	42101.63
9	Watch and ward (10 months - 1 watcher per 10 ha )	27.38	12003.94	0.00	12003.94	273.80	120039.40	0.00	120039.40
10	Soil working for naturally gower plants and singling (1.15 M.D per 100 plants)	1.15	504.18	10.00	514.18	11.50	5041.83	100.00	5141.83
11	Fire tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
<b>Total</b>		<b>192.65</b>	<b>84461.61</b>	<b>61569.64</b>	<b>146031.25</b>	<b>1926.50</b>	<b>844616.13</b>	<b>615696.40</b>	<b>1460312.53</b>
Contingency 3%					4380.94				43809.38
Labour Welfare 4%					5841.25				58412.50
<b>Grand Total</b>		<b>192.65</b>	<b>84461.61</b>	<b>61569.64</b>	<b>156253.44</b>	<b>1926.50</b>	<b>844616.13</b>	<b>615696.40</b>	<b>1562534.41</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 10.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>C. Second Year Operations</b>									
1	Part nursery cost for seedlings for causality replacement (222 seedlings per ha) labour rate @Rs. 3.77 M.S Rs.1.82 per seedlings.	2.46	1078.51	404.00	1482.51	24.60	10785.13	4040.00	14825.13
2	Transportation of 222 seedlings for causality replacement from nursery to plantation site (including loading and unloading) wages 0.14 M.D per 100 Seedling & M.S Rs. 1.82 per seedlings	0.31	135.91	404.04	539.95	3.10	1359.10	4040.40	5399.50
3	Planting for causality replacement 222 seedlings (2.00 M.D. per 100 seedlings)	4.44	1946.58	0.00	1946.58	44.40	19465.85	0.00	19465.85
4	2 Weedings and 1 soil working, with fertilizer application 2.5 M.D. per 100 seedlings at M.S Rs.0.82 per seedling	27.77	12174.92	911.02	13085.94	277.70	121749.23	9110.20	130859.43
5	Watering 111 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	888.80	389667.70	361050.00	750717.70
6	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
7	Fire tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
<b>Total</b>		<b>162.360</b>	<b>71181.87</b>	<b>37824.06</b>	<b>109005.93</b>	<b>1623.60</b>	<b>711818.71</b>	<b>378240.60</b>	<b>1090059.31</b>
Contingency 3%					3270.18				3270.18
Labour Welfare 4%					4360.24				4360.24
<b>Grand Total</b>		<b>162.36</b>	<b>71181.87</b>	<b>37824.06</b>	<b>116636.35</b>	<b>1623.60</b>	<b>711818.71</b>	<b>378240.60</b>	<b>1166363.46</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 10.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>D. Third Year Operations</b>									
1	1 weeding and 1 soil working (1.50 M.D per 100 seedlings) applying fertilizer @ Rs.0.82 per plant.	16.67	7308.46	911.02	8219.48	166.70	73084.61	9110.20	82194.81
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 1.50 seedlings per M.D.	44.48	19500.92	16680.00	36180.92	444.80	195009.22	166800.00	361809.22
3	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
4	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
5	Fire tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>101.65</b>	<b>44565.39</b>	<b>17616.02</b>	<b>62181.41</b>	<b>1016.50</b>	<b>445653.93</b>	<b>176160.20</b>	<b>621814.13</b>
	Contingency 3%				1865.44				18654.42
	Labour Welfare 4%				2487.26				24872.57
	<b>Grand Total</b>	<b>101.65</b>	<b>44565.39</b>	<b>17616.02</b>	<b>66534.11</b>	<b>1016.50</b>	<b>445653.93</b>	<b>176160.20</b>	<b>665341.12</b>
<b>E. Fourth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%				533.43				5334.30
	Labour Welfare 4%				711.24				7112.40
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>
<b>F. Fifth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%				533.43				5334.30
	Labour Welfare 4%				711.24				7112.40
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>

Sr. No.	Particulars of works	Area : 1.00 Hn.			Area : 10.00 Hn.			
		Man days	Wages	Material Supply	Man days	Wages	Material Supply	Total
<b>G. Sixth Year Operations</b>								
1	Watch and ward 12 months 1 watcher per 10.00 hn	36.50	16002.33	0.00	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%			0.00			0.00	5334.30
	Labour Welfare 4%			0.00			0.00	7112.40
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>
<b>H. Seventh Year Operations</b>								
1	Watch and ward 12 months 1 watcher per 10.00 hn	36.50	16002.33	0.00	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%			0.00			0.00	5334.30
	Labour Welfare 4%			0.00			0.00	7112.40
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>
<b>I. Eight Year Operations</b>								
1	Watch and ward 12 months 1 watcher per 10.00 hn	36.50	16002.33	0.00	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%			0.00			0.00	5334.30
	Labour Welfare 4%			0.00			0.00	7112.40
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 10.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>J. Nine Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%			0.00	533.43			0.00	533.43
	Labour Welfare 4%			0.00	711.24			0.00	711.24
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>
<b>K. Tenth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%			0.00	533.43			0.00	533.43
	Labour Welfare 4%			0.00	711.24			0.00	711.24
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>

  
**Range Forest Officer**  
 (T) Nanded.

  
**Assistant Conservator of Forest**  
 (Tenduleaves & Campa) Nanded

  
 (Keshav Wable)  
 Deputy Conservator of Forests,  
 Nanded Forest Division,  
 Nanded.

**Abstract for Model No. 5  
Fencing and Irrigated Plantations**

**Model Rate Structure for Compensatory Afforestation**

Sr. No.	Year of Operation	Area : 1.00 ha. @ wage rate rs. 438.42 /day				Area : 10.00 ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
1	Pre Monsoon Works	167.97	73641.41	193263.83	285588.60	1679.70	736414.07	1887638.30	2807736.04
2	First Year Operations	192.65	84461.61	61569.64	156253.44	1926.50	844616.13	615696.40	1562534.41
3	Second Year Operations	162.36	71181.87	37824.06	116636.35	1623.60	711818.71	378240.60	1166363.46
4	Third Year Operations	101.65	44565.39	17616.02	66534.11	1016.50	445653.93	176160.20	665341.12
5	Fourth Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81
6	Fifth Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81
7	Sixth Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81
8	Seventh Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81
9	Eight Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81
10	Nineth Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81
11	Tenth Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81
	<b>Total</b>	<b>908.13</b>	<b>398142.35</b>	<b>310448.55</b>	<b>758192.27</b>	<b>9081.30</b>	<b>3981423.55</b>	<b>3059485.50</b>	<b>7533772.68</b>

  
**Range Forest Officer  
(T) Nanded.**

  
**Assistant Conservator of Forest  
(Tendulaves & Campa) Nanded**

  
**(Keshav Wable)**  
Deputy Conservator of Forests,  
Nanded Forest Division,  
Nanded.

**Model Rate Structure for Compensatory Afforestation  
Model No..5**

**Fencing and Irrigated Plantations**

Model rate structure for plantation of mixed tree species having rainfall less than 800 mm and medium quality, medium drained soil.

Village - Sawargaon Compt No. 564 d, Sur/Gut No.364 / 643, Taluka - Nanded Dist. Nanded

Spacing  
3m x 3m  
Size of Pits  
0.45 x 0.45 x 0.45 m  
No. of Seedlings  
1111 per ha.

Wage Rate .  
Proposed Area  
438.42  
10.00  
per day  
Ha.  
Year - 2023-24

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 10.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>A. Pre Monsoon Works PPO/PYO</b>									
1	a.) Survey and demarcation	1.00	438.42	91.00	529.42	10.00	4384.20	910.00	5294.20
	b.) Preparation of treatment map (100 m x 50 m grid)	1.00	438.42	91.00	529.42	10.00	4384.20	910.00	5294.20
	c.) Digging trial pits of size 0.30 x 0.30 x 0.60 in corner of Grid.	0.40	175.37	0.00	175.37	4.00	1753.68	0.00	1753.68
	d.) Fixing 60cm x 0.05cm x 12 cm cement pillars upto 30cm 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	0.00	0.00	2250.00	2250.00
	e.) Clearing of bushes and preparation of site (As per requirement)	10.00	4384.20	91.00	4475.20	100.00	43842.00	910.00	44752.00
2	Soil and moisture conservation works including collection of rubbles from areas upto 30 m etc	31.00	13591.02	0.00	13591.02	310.00	135910.20	0.00	135910.20
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. leadplus 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 50mm x 50m, 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	0.00	0.00	1828656.00	1828656.00

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 10.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
4	Alignment of pits at 3m x 3m spacing 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	27.80	12188.08	497.70	12685.78
5	Digging of pits of size 0.45 x 0.45 x 0.45 m (1111 pits per ha) 6.60 M.D per 100 pits. Note :- As per local conditions provision for mechanized digging can be made.	73.33	32149.34	0.00	32149.34	733.30	321493.39	0.00	321493.39
6	Construction of 5.00 Rmt wide Inspection Path I.M.D. per 100 Rmt	1.00	438.42	0.00	438.42	10.00	4384.20	0.00	4384.20
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	7.50	3288.15	250.00	3538.15
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	5000.00	5000.00
9	Part Nursery cost of raising 1333 seedlings per ha (including 20% casualty replacement) in polygons of size 12.50 x 25.00 cm (wages Rs. 11.90 and M & S Rs. 3.62 per plant)	46.71	20478.60	4825.46	25304.06	467.10	204785.98	48254.60	253040.58
<b>Total</b>		<b>167.97</b>	<b>73641.41</b>	<b>193263.83</b>	<b>266905.24</b>	<b>1679.70</b>	<b>736414.07</b>	<b>1887638.30</b>	<b>2624052.37</b>
Contingency 3%				8007.16	8007.16				78721.57
Labour Welfare 4%				10676.21	10676.21				104962.09
<b>Grand Total</b>		<b>167.97</b>	<b>73641.41</b>	<b>193263.83</b>	<b>285588.60</b>	<b>1679.70</b>	<b>736414.07</b>	<b>1887638.30</b>	<b>2807736.04</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 10.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>B. First Year Operations</b>									
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	6488.62	1079.73	7568.35	148.00	64886.16	10797.30	75683.46
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	184.40	80844.65	19442.50	100287.15
3	Transportation of 1333 seedlings from Nursery to plantation site including loading & unloading (0.14 M.D. per 100 seedlings & M.S. Rs.1.82 per seedlings )	1.87	819.85	2426.00	3245.85	18.70	8198.45	24260.00	32458.45
4	Planting of 1111 seedlings (1.0 M.D. per 100 seedlings)	11.11	4870.85	0.00	4870.85	111.10	48708.46	0.00	48708.46
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	444.40	194833.85	9110.20	203944.05
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	592.50	259763.85	543950.00	803713.85
7	Casulty replacement (20% 222 Seedlings per ha.) (2 M.D. per 100 Seedlings)	4.44	1946.58	0.00	1946.58	44.40	19465.85	0.00	19465.85
8	Part Nursery cost for causality replacement in SYO (222 Seedlings per ha.) (wages Rs. 11.90 and material supply Rs.3.62 total Rs.12.55 per seedling)	7.77	3406.52	803.64	4210.16	77.70	34065.23	8036.40	42101.63
9	Watch and ward (10 months - 1 watcher per 10 ha )	27.38	12003.94	0.00	12003.94	273.80	120039.40	0.00	120039.40
10	Soil working for naturally gower plants and singling (1.15 M.D per 100 plants)	1.15	504.18	10.00	514.18	11.50	5041.83	100.00	5141.83
11	Fire tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
<b>Total</b>		<b>192.65</b>	<b>84461.61</b>	<b>61569.64</b>	<b>146031.25</b>	<b>1926.50</b>	<b>844616.13</b>	<b>615696.40</b>	<b>1460312.53</b>
Contingency 3%					4380.94				43809.38
Labour Welfare 4%					5841.25				58412.50
<b>Grand Total</b>		<b>192.65</b>	<b>84461.61</b>	<b>61569.64</b>	<b>156253.44</b>	<b>1926.50</b>	<b>844616.13</b>	<b>615696.40</b>	<b>1562534.41</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 10.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>C. Second Year Operations</b>									
1	Part nursery cost for seedlings for causality replacement (222 seedlings per ha) labour rate @Rs. 3.77 M.S Rs. 1.82 per seedlings.	2.46	1078.51	404.00	1482.51	24.60	10785.13	4040.00	14825.13
2	Transportation of 222 seedlings for causality replacement from nursery to plantation site (including loading and unloading) wages 0.14 M.D per 100 Seedling & M.S Rs. 1.82 per seedlings	0.31	135.91	404.04	539.95	3.10	1359.10	4040.40	5399.50
3	Planting for causality replacement 222 seedlings (2.00 M.D. per 100 seedlings)	4.44	1946.58	0.00	1946.58	44.40	19465.85	0.00	19465.85
4	2 Weedings and 1 soil working, with fertilizer application 2.5 M.D. per 100 seedlings at M.S Rs.0.82 per seedling	27.77	12174.92	911.02	13085.94	277.70	121749.23	9110.20	130859.43
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	888.80	389667.70	361050.00	750717.70
6	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
7	Fire tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>162.360</b>	<b>71181.87</b>	<b>37824.06</b>	<b>109005.93</b>	<b>1623.60</b>	<b>711818.71</b>	<b>378240.60</b>	<b>1090059.31</b>
	Contingency 3%				3270.18				32701.78
	Labour Welfare 4%				4360.24				43602.37
	<b>Grand Total</b>	<b>162.36</b>	<b>71181.87</b>	<b>37824.06</b>	<b>116636.35</b>	<b>1623.60</b>	<b>711818.71</b>	<b>378240.60</b>	<b>1166363.46</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 10.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>D. Third Year Operations</b>									
1	1 weeding and 1 soil working (1.50 M.D per 100 seedlings) applying fertilizer @ Rs.0.82 per plant.	16.67	7308.46	911.02	8219.48	166.70	73084.61	9110.20	82194.81
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	444.80	195009.22	166800.00	361809.22
3	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
4	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
5	Fire tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>101.65</b>	<b>44565.39</b>	<b>17616.02</b>	<b>62181.41</b>	<b>1016.50</b>	<b>445653.93</b>	<b>176160.20</b>	<b>621814.13</b>
	Contingency 3%				1865.44				18654.42
	Labour Welfare 4%				2487.26				24872.57
	<b>Grand Total</b>	<b>101.65</b>	<b>44565.39</b>	<b>17616.02</b>	<b>66534.11</b>	<b>1016.50</b>	<b>445653.93</b>	<b>176160.20</b>	<b>665341.12</b>
<b>E. Fourth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%				533.43				5334.30
	Labour Welfare 4%				711.24				7112.40
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>
<b>F. Fifth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%				533.43				5334.30
	Labour Welfare 4%				711.24				7112.40
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 10.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>G. Sixth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%			0.00	533.43			0.00	533.43
	Labour Welfare 4%			0.00	711.24			0.00	711.24
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>
<b>H. Seventh Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%			0.00	533.43			0.00	533.43
	Labour Welfare 4%			0.00	711.24			0.00	711.24
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>
<b>I. Eight Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%			0.00	533.43			0.00	533.43
	Labour Welfare 4%			0.00	711.24			0.00	711.24
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 10.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>J. Nine Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%			0.00	533.43			0.00	5334.30
	Labour Welfare 4%			0.00	711.24			0.00	7112.40
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>
<b>K. Tenth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%			0.00	533.43			0.00	5334.30
	Labour Welfare 4%			0.00	711.24			0.00	7112.40
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>

  
**Range Forest Officer**  
**(T) Nanded.**

  
**Assistant Conservator of Forest**  
**(TenduLeaves & Campa) Nanded**

  
**(Keshav Wable)**  
**Deputy Conservator of Forests,**  
**Nanded Forest Division,**  
**Nanded.**

**Abstract for Model No. 5  
Fencing and Irrigated Plantations  
Model Rate Structure for Compensatory Afforestation**

Sr. No.	Year of Operation	Area : 1.00 ha. @ wage rate rs. 438.42 /day					Area : 10.00 ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total		
1	Pre Monsoon Works	167.97	73641.41	193263.83	285588.60	1679.70	736414.07	1887638.30	2807736.04		
2	First Year Operations	192.65	84461.61	61569.64	156253.44	1926.50	844616.13	615696.40	1562534.41		
3	Second Year Operations	162.36	71181.87	37824.06	116636.35	1623.60	711818.71	378240.60	1166363.46		
4	Third Year Operations	101.65	44565.39	17616.02	66534.11	1016.50	445653.93	176160.20	665341.12		
5	Fourth Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81		
6	Fifth Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81		
7	Sixth Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81		
8	Seventh Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81		
9	Eight Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81		
10	Ninth Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81		
11	Tenth Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81		
	<b>Total</b>	<b>908.13</b>	<b>398142.35</b>	<b>310448.55</b>	<b>758192.27</b>	<b>9081.30</b>	<b>3981423.55</b>	<b>3059485.50</b>	<b>7533772.68</b>		



**Range Forest Officer  
(T) Nanded.**



**Assistant Conservator of Forest  
(Tenduleaves & Campa) Nanded**



**(Keshav Wable)**  
Deputy Conservator of Forests,  
Nanded Forest Division,  
Nanded.

**Abstract for Model No. 5**  
**Fencing and Irrigated Plantations**  
**Model Rate Structure for Compensatory Afforestation**

Sr. No.	Year of Operation	Area : 1.00 ha. @ wage rate rs. 467.19 /day				Area : 10.00 ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
1	Pre Monsoon Works	167.97	78473.90	193263.83	290759.38	1679.70	784739.04	1887638.30	2859443.76
2	First Year Operations	192.65	90004.15	61569.64	162183.96	1926.50	900041.54	615696.40	1621839.59
3	Second Year Operations	162.36	75852.97	37824.06	121634.42	1623.60	758529.68	378240.60	1216344.20
4	Third Year Operations	101.65	47489.86	17616.02	69663.30	1016.50	474898.64	176160.20	696632.95
5	Fourth Year Operations	40.50	18921.20	25.00	20272.43	405.00	189211.95	250.00	202724.29
6	Fifth Year Operations	40.50	18921.20	25.00	20272.43	405.00	189211.95	250.00	202724.29
7	Sixth Year Operations	40.50	18921.20	25.00	20272.43	405.00	189211.95	250.00	202724.29
8	Seventh Year Operations	40.50	18921.20	25.00	20272.43	405.00	189211.95	250.00	202724.29
9	Eight Year Operations	40.50	18921.20	25.00	20272.43	405.00	189211.95	250.00	202724.29
10	Ninth Year Operations	40.50	18921.20	25.00	20272.43	405.00	189211.95	250.00	202724.29
11	Tenth Year Operations	40.50	18921.20	25.00	20272.43	405.00	189211.95	250.00	202724.29
	<b>Total</b>	<b>908.13</b>	<b>424269.25</b>	<b>310448.55</b>	<b>786148.05</b>	<b>9081.30</b>	<b>4242692.55</b>	<b>3059485.50</b>	<b>7813350.51</b>

(Keshay Wable)  
 Deputy Conservator of Forests,  
 Nanded Forest Division,  
 Nanded.

**Model Rate Structure for Compensatory Afforestation**

Model No.5

**Fencing and Irrigated Plantations**

Model rate structure for plantation of mixed tree species having rainfall less than 800 mm and medium quality, medium drained soil.  
Village - Chored Compt No. 37, Sur/Gur No. 25, Taluka - Mahur Dist. Manded

Spacement 3m x 3m  
Size of Pits 0.45 x 0.45 x 0.45 m  
No. of Seedlings 1111 per ha.  
Wage Rate Proposed Area 467.19 per day  
10.00 Ha.  
Year - 2023-24

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 10.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>A. Pre Monsoon Works PPO/PVO</b>									
	a.) Survey and demarcation	1.00	467.19	91.00	558.19	10.00	4671.90	910.00	5581.90
	b.) Preparation of treatment map (100 m x 50 m grid)	1.00	467.19	91.00	558.19	10.00	4671.90	910.00	5581.90
	c.) Digging trial pits of size 0.30 x 0.30 x 0.60 in corner of Grid.	0.40	186.88	0.00	186.88	4.00	1868.75	0.00	1868.75
1	d.) Fixing 60cm x 0.05cm x 12 cm cement pillars upto 30cm deep in corner of Grid, painting with Grid No. etc complete (3 pillars, Rs.75/- for each pillar)	0.00	0.00	225.00	225.00	0.00	0.00	2250.00	2250.00
	e.) Clearing of bushes and preparation of site (As per requirement)	10.00	4671.90	91.00	4762.90	100.00	46719.00	910.00	47629.00
2	Soil and moisture conservation works including collection of rubbles from areas upto 30 m etc	31.00	14482.89	0.00	14482.89	310.00	144828.90	0.00	144828.90
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 eve. Jealplus 20% for tribal/reroute area (by tender process.) (Rs. 1494+149+149= 1792/- per Rmt (1.60 Rmt height with G.I.Chain link size 50mm x 50m, 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	0.00	0.00	1828656.00	1828656.00

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 10.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
4	Alignment of pits at 3m x 3m spacing 1111 pits per ha (0.25 per 100 pits and M&S @ Rs.2.24 per 50 pits.	2.78	1298.79	49.77	1348.56	27.80	12987.88	497.70	13485.58
5	Digging of pits of size 0.45 x 0.45 x 0.45 m (1111 pits per ha) 6.60 M.D. per 100 pits. Note :- As per local conditions provision for mechanized digging can be made.	73.33	34259.04	0.00	34259.04	733.30	342590.43	0.00	342590.43
6	Construction of 5.00 Rmt wide inspection Path 1M.D. per 100 Rmt	1.00	467.19	0.00	467.19	10.00	4671.90	0.00	4671.90
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	350.39	25.00	375.39	7.50	3503.93	250.00	3753.93
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	5000.00	5000.00
9	Part Nursery cost of raising 1333 seedlings per ha (including 20% casualty replacement) in polygons of size 12.50 x 25.00 cm (wages Rs. 11.90 and M & S Rs. 3.62 per plant)	46.71	21822.44	4825.46	26647.90	467.10	218224.45	48254.60	266479.05
	<b>Total</b>	<b>167.97</b>	<b>78473.90</b>	<b>193263.83</b>	<b>271737.73</b>	<b>1679.70</b>	<b>784739.04</b>	<b>1887638.30</b>	<b>2672377.34</b>
	Contingency 3%				8152.13				80171.32
	Labour Welfare 4%				10869.51				106895.09
	<b>Grand Total</b>	<b>167.97</b>	<b>78473.90</b>	<b>193263.83</b>	<b>290759.38</b>	<b>1679.70</b>	<b>784739.04</b>	<b>1887638.30</b>	<b>2859443.76</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 10.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>B. First Year Operations</b>									
1	Part Nursery cost for maintenance of 1333 seedling per ha Rs.2.77 per seedling (Wages Rs.2.09, M & S Rs. 0.81)	14.80	6914.41	1079.73	7994.14	148.00	69144.12	10797.36	79941.42
2	Refilling of pits by good quality soil including application of single super phosphate (1.66 MTD per 100 pits)	18.44	8614.98	1944.25	10559.23	184.40	86149.84	19442.56	105592.34
3	Transportation of 1333 seedlings from Nursery to plantation site including loading & unloading (0.14 M.D. per 100 seedlings & M.S. Rs.1.82 per seedlings)	1.87	873.65	2426.00	3299.65	18.70	8736.45	24260.00	32996.45
4	Planting of 1111 seedlings (1.0 M.D. per 100 seedlings)	11.11	5190.48	0.00	5190.48	111.10	51904.81	0.00	51904.81
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	20761.92	911.02	21672.94	444.40	207619.24	9110.20	216729.44
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	27681.01	54395.00	82076.01	592.50	276810.08	543950.00	820760.08
7	Casualty replacement (20% 222 Seedlings per ha.) (2 M.D. per 100 Seedlings)	4.44	2074.32	0.00	2074.32	44.40	20743.24	0.00	20743.24
8	Part Nursery cost for casualty replacement in SYO (222 Seedlings per ha.) (wages Rs. 11.90 and material supply Rs.3.62 total Rs.12.55 per seedling)	7.77	3630.07	803.64	4433.71	77.70	36300.66	8036.40	44337.06
9	Watch and ward (10 months - 1 watcher per 10 ha )	27.38	12791.66	0.00	12791.66	273.80	127916.62	0.00	127916.62
10	Soil working for naturally grower plants and singling (1.15 M.D per 100 plants)	1.15	537.27	10.00	547.27	11.50	5372.69	100.00	5472.69
11	Fire tracing	2.00	934.38	0.00	934.38	20.00	9343.80	0.00	9343.80
	<b>Total</b>	<b>192.65</b>	<b>90004.15</b>	<b>61569.64</b>	<b>151573.79</b>	<b>1926.50</b>	<b>900041.54</b>	<b>615696.40</b>	<b>1515737.94</b>
	Contingency 3%				4547.21				45472.14
	Labour Welfare 4%				6062.95				60639.52
	<b>Grand Total</b>	<b>192.65</b>	<b>90004.15</b>	<b>61569.64</b>	<b>162183.96</b>	<b>1926.50</b>	<b>900041.54</b>	<b>615696.40</b>	<b>1621839.59</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 10.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
1	Part nursery cost for seedlings for causality replacement (222 seedlings per ha) labour rate @Rs. 3.77 M.S Rs.1.82 per seedlings.	2.46	1149.29	404.00	1553.29	24.60	11492.87	4040.00	15532.87
2	Transportation of 222 seedlings for causality replacement from nursery to plantation site (including loading and unloading) wages 0.14 M.D per 100 Seedling & M.S Rs. 1.82 per seedlings	0.31	144.83	404.04	548.87	3.10	1448.29	4040.40	5488.69
3	Planting for causality replacement 222 seedlings (2.00 M.D. per 100 seedlings)	4.44	2074.32	0.00	2074.32	44.40	20743.24	0.00	20743.24
4	2 Weedings and 1 soil working, with fertilizer application 2.5 M.D. per 100 seedlings at M.S Rs.0.82 per seedling	27.77	12973.87	911.02	13884.89	277.70	129738.66	9110.20	138848.86
5	Watering 1:11 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 / marka @Rs. 25/- each replacing 111 cans/marka, supplying water @Rs.0.50/- per litre and watering 150 seedlings per M.D.	88.88	41523.85	36105.00	77628.85	888.80	415238.47	361050.00	776288.47
6	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	17052.44	0.00	17052.44	365.00	170524.35	0.00	170524.35
7	Fire tracing	2.00	934.38	0.00	934.38	20.00	9343.80	0.00	9343.80
	<b>Total</b>	<b>162.360</b>	<b>75852.97</b>	<b>37824.06</b>	<b>113677.03</b>	<b>1623.60</b>	<b>758529.68</b>	<b>378240.60</b>	<b>1136770.28</b>
	Contingency 3%				3410.31				34103.11
	Labour Welfare 4%				4547.08				45470.81
	<b>Grand Total</b>	<b>162.36</b>	<b>75852.97</b>	<b>37824.06</b>	<b>121634.42</b>	<b>1623.60</b>	<b>758529.68</b>	<b>378240.60</b>	<b>1216344.20</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 10.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>D. Third Year Operations</b>									
1	1 seeding and 1 soil working (1.50 M.D per 100 seedlings) applying fertilizer @ Rs.0.82 per plant	16.67	7788.06	911.02	8699.08	166.70	77880.57	9110.20	86990.77
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	20780.61	16680.00	37460.61	444.80	207806.11	166800.00	374606.11
3	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	17052.44	0.00	17052.44	365.00	170524.35	0.00	170524.35
4	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	934.38	25.00	959.38	20.00	9343.80	250.00	9593.80
5	Fire Tracing	2.00	934.38	0.00	934.38	20.00	9343.80	0.00	9343.80
	<b>Total</b>	<b>101.65</b>	<b>47489.86</b>	<b>17616.02</b>	<b>65105.88</b>	<b>1016.50</b>	<b>474898.64</b>	<b>176160.20</b>	<b>651058.84</b>
	Contingency 3%				1953.18				19531.77
	Labour Welfare 4%				2604.24				26042.35
	<b>Grand Total</b>	<b>101.65</b>	<b>47489.86</b>	<b>17616.02</b>	<b>69663.30</b>	<b>1016.50</b>	<b>474898.64</b>	<b>176160.20</b>	<b>696632.95</b>
<b>E. Fourth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	17052.44	0.00	17052.44	365.00	170524.35	0.00	170524.35
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	934.38	25.00	959.38	20.00	9343.80	250.00	9593.80
3	Fire Tracing	2.00	934.38	0.00	934.38	20.00	9343.80	0.00	9343.80
	<b>Total</b>	<b>40.50</b>	<b>18921.20</b>	<b>25.00</b>	<b>18946.20</b>	<b>405.00</b>	<b>189211.95</b>	<b>250.00</b>	<b>189461.95</b>
	Contingency 3%				568.39				5683.85
	Labour Welfare 4%				757.85				7578.48
	<b>Grand Total</b>	<b>40.50</b>	<b>18921.20</b>	<b>25.00</b>	<b>20272.43</b>	<b>405.00</b>	<b>189211.95</b>	<b>250.00</b>	<b>202724.29</b>
<b>F. Fifth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	17052.44	0.00	17052.44	365.00	170524.35	0.00	170524.35
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	934.38	25.00	959.38	20.00	9343.80	250.00	9593.80
3	Fire Tracing	2.00	934.38	0.00	934.38	20.00	9343.80	0.00	9343.80
	<b>Total</b>	<b>40.50</b>	<b>18921.20</b>	<b>25.00</b>	<b>18946.20</b>	<b>405.00</b>	<b>189211.95</b>	<b>250.00</b>	<b>189461.95</b>
	Contingency 3%				568.39				5683.86
	Labour Welfare 4%				757.85				7578.48
	<b>Grand Total</b>	<b>40.50</b>	<b>18921.20</b>	<b>25.00</b>	<b>20272.43</b>	<b>405.00</b>	<b>189211.95</b>	<b>250.00</b>	<b>202724.29</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 10.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>G. Sixth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	17052.44	0.00	17052.44	365.00	170524.35	0.00	170524.35
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	934.38	25.00	959.38	20.00	9343.80	250.00	9593.80
3	Fire Tracing	2.00	934.38	0.00	934.38	20.00	9343.80	0.00	9343.80
	<b>Total</b>	<b>40.50</b>	<b>18921.20</b>	<b>25.00</b>	<b>18946.20</b>	<b>405.00</b>	<b>189211.95</b>	<b>250.00</b>	<b>189461.95</b>
	Contingency 3%			0.00	568.39			0.00	5683.86
	Labour Welfare 4%			0.00	757.85			0.00	7578.48
	<b>Grand Total</b>	<b>40.50</b>	<b>18921.20</b>	<b>25.00</b>	<b>20272.43</b>	<b>405.00</b>	<b>189211.95</b>	<b>250.00</b>	<b>202724.29</b>
<b>H. Seventh Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	17052.44	0.00	17052.44	365.00	170524.35	0.00	170524.35
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	934.38	25.00	959.38	20.00	9343.80	250.00	9593.80
3	Fire Tracing	2.00	934.38	0.00	934.38	20.00	9343.80	0.00	9343.80
	<b>Total</b>	<b>40.50</b>	<b>18921.20</b>	<b>25.00</b>	<b>18946.20</b>	<b>405.00</b>	<b>189211.95</b>	<b>250.00</b>	<b>189461.95</b>
	Contingency 3%			0.00	568.39			0.00	5683.86
	Labour Welfare 4%			0.00	757.85			0.00	7578.48
	<b>Grand Total</b>	<b>40.50</b>	<b>18921.20</b>	<b>25.00</b>	<b>20272.43</b>	<b>405.00</b>	<b>189211.95</b>	<b>250.00</b>	<b>202724.29</b>
<b>I. Eight Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	17052.44	0.00	17052.44	365.00	170524.35	0.00	170524.35
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	934.38	25.00	959.38	20.00	9343.80	250.00	9593.80
3	Fire Tracing	2.00	934.38	0.00	934.38	20.00	9343.80	0.00	9343.80
	<b>Total</b>	<b>40.50</b>	<b>18921.20</b>	<b>25.00</b>	<b>18946.20</b>	<b>405.00</b>	<b>189211.95</b>	<b>250.00</b>	<b>189461.95</b>
	Contingency 3%			0.00	568.39			0.00	5683.86
	Labour Welfare 4%			0.00	757.85			0.00	7578.48
	<b>Grand Total</b>	<b>40.50</b>	<b>18921.20</b>	<b>25.00</b>	<b>20272.43</b>	<b>405.00</b>	<b>189211.95</b>	<b>250.00</b>	<b>202724.29</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 10.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>J. Nine Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	17052.44	0.00	17052.44	365.00	170524.35	0.00	170524.35
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	934.38	25.00	959.38	20.00	9343.80	250.00	9593.80
3	Fire Tracing	2.00	934.38	0.00	934.38	20.00	9343.80	0.00	9343.80
	<b>Total</b>	<b>40.50</b>	<b>18921.20</b>	<b>25.00</b>	<b>18946.20</b>	<b>405.00</b>	<b>189211.95</b>	<b>250.00</b>	<b>189461.95</b>
	Contingency 3%			0.00	568.39			0.00	5683.85
	Labour Welfare 4%			0.00	757.85			0.00	7578.48
	<b>Grand Total</b>	<b>40.50</b>	<b>18921.20</b>	<b>25.00</b>	<b>20272.43</b>	<b>405.00</b>	<b>189211.95</b>	<b>250.00</b>	<b>202724.29</b>
<b>K. Tenth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	17052.44	0.00	17052.44	365.00	170524.35	0.00	170524.35
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	934.38	25.00	959.38	20.00	9343.80	250.00	9593.80
3	Fire Tracing	2.00	934.38	0.00	934.38	20.00	9343.80	0.00	9343.80
	<b>Total</b>	<b>40.50</b>	<b>18921.20</b>	<b>25.00</b>	<b>18946.20</b>	<b>405.00</b>	<b>189211.95</b>	<b>250.00</b>	<b>189461.95</b>
	Contingency 3%			0.00	568.39			0.00	5683.85
	Labour Welfare 4%			0.00	757.85			0.00	7578.48
	<b>Grand Total</b>	<b>40.50</b>	<b>18921.20</b>	<b>25.00</b>	<b>20272.43</b>	<b>405.00</b>	<b>189211.95</b>	<b>250.00</b>	<b>202724.29</b>

  
 (Keshay Wable)  
 Deputy Conservator of Forests,  
 Nanded Forest Division,  
 Nanded.

**Model Rate Structure for Compensatory Afforestation  
Model No.5**

**Fencing and Irrigated Plantations**

Model rate structure for plantation of mixed tree species having rainfall less than 800 mm and medium quality, medium drained soil.  
Village - Akharga Compt No. 542, Sur/Gut No.68 / 22, Taluka - Mukhed Dist. Nanded

Sr. No.	Particulars of works	Area : 1.00 Ha.		Area : 10.00 Ha.		Total	Wage Rate Proposed Area	per day Ha.		Year - 2023-24
		Man days	Wages	Material Supply	Wages			Material Supply	Man days	
<b>A. Pre Monsoon Works PPO/PYO</b>										
1	a.) Survey and demarcation	1.00	438.42	91.00	529.42	10.00	529.42	4384.20	910.00	5294.20
	b.) Preparation of treatment map (100 m x 50 m grid)	1.00	438.42	91.00	529.42	10.00	529.42	4384.20	910.00	5294.20
	c.) Digging trial pits of size 0.30 x 0.30 x 0.60 in corner of Grid.	0.40	175.37	0.00	175.37	4.00	1753.68	1753.68	0.00	1753.68
	d.) Fixing 60cm x 0.05cm x 12 cm cement pillars upto 30cm 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	0.00	0.00	225.00	2250.00	2250.00
	e.) Clearing of bushes and preparation of site (As per requirement)	10.00	4384.20	91.00	4475.20	100.00	43842.00	43842.00	910.00	44752.00
2	Soil and moisture conservation works including collection of rubbles from areas upto 30 m etc	31.00	13591.02	0.00	13591.02	310.00	13591.02	135910.20	0.00	135910.20
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. leadplus 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 50mm x 50m, 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	0.00	182865.60	0.00	182865.60	1828656.00

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 10.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
4	Alignment of pits at 3m x 3m spacement 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	27.80	12188.08	497.70	12685.78
5	Digging of pits of size 0.45 x 0.45 x 0.45 m (1111 pits per ha) 6.60 M.D.per 100 pits. Note :- As per local conditions provision for mechanized digging can be made.	73.33	32149.34	0.00	32149.34	733.30	321493.39	0.00	321493.39
6	Construction of 5.00 Rmt wide Inspection Path 1M.D. per 100 Rmt	1.00	438.42	0.00	438.42	10.00	4384.20	0.00	4384.20
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	7.50	3288.15	250.00	3538.15
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	5000.00	5000.00
9	Part Nursery cost of raising 1333 seedlings per ha (including 20% casualty replacement) in polygons of size 12.50 x 25.00 cm (wages Rs. 11.90 and M & S Rs. 3.62 per plant)	46.71	20478.60	4825.46	25304.06	467.10	204785.98	48254.60	253040.58
	<b>Total</b>	<b>167.97</b>	<b>73641.41</b>	<b>193263.83</b>	<b>266905.24</b>	<b>1679.70</b>	<b>736414.07</b>	<b>1887638.30</b>	<b>2624052.37</b>
	Contingency 3%				8007.16				78721.57
	Labour Welfare 4%				10676.21				104962.09
	<b>Grand Total</b>	<b>167.97</b>	<b>73641.41</b>	<b>193263.83</b>	<b>285588.60</b>	<b>1679.70</b>	<b>736414.07</b>	<b>1887638.30</b>	<b>2807736.04</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 10.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>B. First Year Operations</b>									
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	6488.62	1079.73	7568.35	148.00	64886.16	10797.30	75683.46
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	184.40	80844.65	19442.50	100287.15
3	Transportation of 1333 seedlings from Nursery to plantation site including loading & unloading (0.14 M.D. per 100 seedlings & M.S. Rs.1.82 per seedlings )	1.87	819.85	2426.00	3245.85	18.70	8198.45	24260.00	32458.45
4	Planting of 1111 seedlings (1.0 M.D. per 100 seedlings)	11.11	4870.85	0.00	4870.85	111.10	48708.46	0.00	48708.46
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	444.40	194833.85	9110.20	203944.05
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	592.50	259763.85	543950.00	803713.85
7	Casualty replacement (20% 222 Seedlings per ha.) (2 M.D. per 100 Seedlings)	4.44	1946.58	0.00	1946.58	44.40	19465.85	0.00	19465.85
8	Part Nursery cost for causality replacement in SYO (222 Seedlings per ha.) (wages Rs. 11.90 and material supply Rs.3.62 total Rs.12.55 per seedling)	7.77	3406.52	803.64	4210.16	77.70	34065.23	8036.40	42101.63
9	Watch and ward (10 months - 1 watcher per 10 ha )	27.38	12003.94	0.00	12003.94	273.80	120039.40	0.00	120039.40
10	Soil working for naturally gower plants and singling (1.15 M.D per 100 plants)	1.15	504.18	10.00	514.18	11.50	5041.83	100.00	5141.83
11	Fire tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>192.65</b>	<b>84461.61</b>	<b>61569.64</b>	<b>146031.25</b>	<b>1926.50</b>	<b>844616.13</b>	<b>615696.40</b>	<b>1460312.53</b>
	Contingency 3%				4380.94				43809.38
	Labour Welfare 4%				5841.25				58412.50
	<b>Grand Total</b>	<b>192.65</b>	<b>84461.61</b>	<b>61569.64</b>	<b>156253.44</b>	<b>1926.50</b>	<b>844616.13</b>	<b>615696.40</b>	<b>1562534.41</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 10.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>C. Second Year Operations</b>									
1	Part nursery cost for seedlings for causality replacement (222 seedlings per ha) labour rate @Rs. 3.77 M.S Rs. 1.82 per seedlings.	2.46	1078.51	404.00	1482.51	24.60	10785.13	4040.00	14825.13
2	Transportation of 222 seedlings for causality replacement from nursery to plantation site (including loading and unloading) wages 0.14 M.D per 100 Seedling & M.S Rs. 1.82 per seedlings	0.31	135.91	404.04	539.95	3.10	1359.10	4040.40	5399.50
3	Planting for causality replacement 222 seedlings (2.00 M.D. per 100 seedlings)	4.44	1946.58	0.00	1946.58	44.40	19465.85	0.00	19465.85
4	2 Weedings and 1 soil working, with fertilizer application 2.5 M.D. per 100 seedlings at M.S Rs.0.82 per seedling	27.77	12174.92	911.02	13085.94	277.70	121749.23	9110.20	130859.43
5	Watering 111 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	888.80	389667.70	361050.00	750717.70
6	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
7	Fire tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
<b>Total</b>		<b>162.360</b>	<b>71181.87</b>	<b>37824.06</b>	<b>109005.93</b>	<b>1623.60</b>	<b>711818.71</b>	<b>378240.60</b>	<b>1090059.31</b>
Contingency 3%					3270.18				32701.78
Labour Welfare 4%					4360.24				43602.37
<b>Grand Total</b>		<b>162.36</b>	<b>71181.87</b>	<b>37824.06</b>	<b>116636.35</b>	<b>1623.60</b>	<b>711818.71</b>	<b>378240.60</b>	<b>1166363.46</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 10.00 Ha.			Total
		Man days	Wages	Material Supply	Man days	Wages	Material Supply	
<b>D. Third Year Operations</b>								
1	1 weeding and 1 soil working (1.50 M.D per 100 seedlings) applying fertilizer @ Rs.0.82 per plant.	16.67	7308.46	9111.02	166.70	73084.61	9110.20	82194.81
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	444.80	195009.22	166800.00	361809.22
3	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	365.00	160023.30	0.00	160023.30
4	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	876.84	25.00	20.00	8768.40	250.00	9018.40
5	Fire tracing	2.00	876.84	0.00	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>101.65</b>	<b>44565.39</b>	<b>17616.02</b>	<b>1016.50</b>	<b>445653.93</b>	<b>176160.20</b>	<b>621814.13</b>
	Contingency 3%							18654.42
	Labour Welfare 4%							24872.57
	<b>Grand Total</b>	<b>101.65</b>	<b>44565.39</b>	<b>17616.02</b>	<b>1016.50</b>	<b>445653.93</b>	<b>176160.20</b>	<b>665341.12</b>
<b>E. Fourth Year Operations</b>								
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%							5334.30
	Labour Welfare 4%							7112.40
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>
<b>F. Fifth Year Operations</b>								
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%							5334.30
	Labour Welfare 4%							7112.40
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 10.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>G. Sixth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%			0.00	533.43			0.00	5334.30
	Labour Welfare 4%			0.00	711.24			0.00	7112.40
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>
<b>H. Seventh Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%			0.00	533.43			0.00	5334.30
	Labour Welfare 4%			0.00	711.24			0.00	7112.40
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>
<b>I. Eight Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%			0.00	533.43			0.00	5334.30
	Labour Welfare 4%			0.00	711.24			0.00	7112.40
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 10.00 Ha.			Total	Material Supply	Total
		Man days	Wages	Material Supply	Man days	Wages	Material Supply			
<b>J. Nine Year Operations</b>										
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	365.00	160023.30	0.00	160023.30		160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	20.00	8768.40	250.00	9018.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	20.00	8768.40	0.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%			0.00			0.00	533.43		533.43
	Labour Welfare 4%			0.00			0.00	711.24		711.24
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>19025.68</b>	<b>250.00</b>	<b>190256.81</b>
<b>K. Tenth Year Operations</b>										
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	365.00	160023.30	0.00	160023.30		160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	20.00	8768.40	250.00	9018.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	20.00	8768.40	0.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%			0.00			0.00	533.43		533.43
	Labour Welfare 4%			0.00			0.00	711.24		711.24
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>19025.68</b>	<b>250.00</b>	<b>190256.81</b>

*Adone*

'वन परिक्षेत्र अधिकारी (श.)  
मुंबई

*B*

Assistant Conservator of Forest  
(TenduLeaves & Campa) Nanded

*Keshav Wable*

Deputy Conservator of Forests,  
Nanded Forest Division,  
Nanded.

**Abstract for Model No. 5  
Fencing and Irrigated Plantations  
Model Rate Structure for Compensatory Afforestation**

Sr. No.	Year of Operation	Area : 1.00 ha. @ wage rate rs. 438.42 /day				Area : 10.00 ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
1	Pre Monsoon Works	167.97	73641.41	193263.83	285588.60	1679.70	736414.07	1887638.30	2807736.04
2	First Year Operations	192.65	84461.61	61569.64	156253.44	1926.50	844616.13	615696.40	1562534.41
3	Second Year Operations	162.36	71181.87	37824.06	116636.35	1623.60	711818.71	378240.60	1166363.46
4	Third Year Operations	101.65	44565.39	17616.02	66534.11	1016.50	445653.93	176160.20	665341.12
5	Fourth Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81
6	Fifth Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81
7	Sixth Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81
8	Seventh Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81
9	Eight Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81
10	Nineth Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81
11	Tenth Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81
	<b>Total</b>	<b>908.13</b>	<b>398142.35</b>	<b>310448.55</b>	<b>758192.27</b>	<b>9081.30</b>	<b>3981423.55</b>	<b>3059485.50</b>	<b>7533772.68</b>

*(Signature)*

**वन परिक्षेत्र अधिकारी (प्र.)  
मुरोड**

*(Signature)*

**Assistant Conservator of Forest  
(Tendulaves & Campa) Nanded**

*(Signature)*

**(Keshav Wable)  
Deputy Conservator of Forests,  
Nanded Forest Division,  
Nanded.**

**Model Rate Structure for Compensatory Afforestation**

**Model No.5**

**Fencing and Irrigated Plantations**

Model rate structure for plantation of mixed tree species having rainfall less than 800 mm and medium quality, medium drained soil.

Village - Gadgyalwadl Compt No.543 a, Sur/Gut No.66, Taluka - Mukhed Dist. Nanded

Spacement  
Size of Pits  
No. of Seedlings  
3m x 3m  
0.45 x 0.45 x 0.45 m  
1111 per ha.

Wage Rate  
Proposed Area  
438.42  
10.00  
per day  
Ha.  
Year - 2023-24

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 10.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>A. Pre Monsoon Works PPO/PYO</b>									
1	a.) Survey and demarcation	1.00	438.42	91.00	529.42	10.00	4384.20	910.00	5294.20
	b.) Preparation of treatment map (100 m x 50 m grid)	1.00	438.42	91.00	529.42	10.00	4384.20	910.00	5294.20
	c.) Digging trial pits of size 0.30 x 0.30 x 0.60 in corner of Grid.	0.40	175.37	0.00	175.37	4.00	1753.68	0.00	1753.68
	d.) Fixing 60cm x 0.05cm x 12 cm cement pillars upto 30cm deep in corner of Grid, painting with Grid No. etc. complete (3 pillars, Rs.75/- for each pills)	0.00	0.00	225.00	225.00	0.00	0.00	2250.00	2250.00
	e.) Clearing of bushes and preparation of site (As per requirement)	10.00	4384.20	91.00	4475.20	100.00	43842.00	910.00	44752.00
2	Soil and moisture conservation works including collection of rubbles from areas upto 30 m etc	31.00	13591.02	0.00	13591.02	310.00	135910.20	0.00	135910.20
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. leadplus 20% for trial/remote area (by tender process.) (Rs.1494+149+149= 1792/- per Rmt (1.60 Rmt height with G.I.Chain link size 50mm x 50m, 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	0.00	0.00	1828656.00	1828656.00

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 10.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
4	Alignment of pits at 3m x 3m spacing 1111 pits per ha. (0.25 per 100 pits and M&S @ Rs.24 per 50 pits.	2.78	1218.81	49.77	1268.58	27.80	12188.08	497.70	12685.78
5	Digging of pits of size 0.45 x 0.45 x 0.45 m (1111 pits per ha) 6.60 M.D.per 100 pits. Note :- As per local conditions provision for mechanized digging can be made.	73.33	32149.34	0.00	32149.34	733.30	321493.39	0.00	321493.39
6	Construction of 5.00 Rmt wide Inspection Path 1M.D. per 100 Rmt	1.00	438.42	0.00	438.42	10.00	4384.20	0.00	4384.20
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	7.50	3288.15	250.00	3538.15
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	5000.00	5000.00
9	Part Nursery cost of raising 1333 seedlings per ha (including 20% casually replacement) in polygons 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	467.10	204785.98	48254.60	253040.58
<b>Total</b>		<b>167.97</b>	<b>73641.41</b>	<b>193263.83</b>	<b>266905.24</b>	<b>1679.70</b>	<b>736414.07</b>	<b>1887638.30</b>	<b>2624052.37</b>
Contingency 3%					8007.16				78721.57
Labour Welfare 4%					10676.21				104962.09
<b>Grand Total</b>		<b>167.97</b>	<b>73641.41</b>	<b>193263.83</b>	<b>285588.60</b>	<b>1679.70</b>	<b>736414.07</b>	<b>1887638.30</b>	<b>2807736.04</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 10.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>B. First Year Operations</b>									
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	6488.62	1079.73	7568.35	148.00	64886.16	10797.30	75683.46
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	184.40	80844.65	19442.50	100287.15
3	Transportation of 1333 seedlings from Nursery to plantation site including loading & unloading (0.14 M.D. per 100 seedlings & M.S. Rs.1.82 per seedlings )	1.87	819.85	2426.00	3245.85	18.70	8198.45	24260.00	32458.45
4	Planting of 1111 seedlings (1.0 M.D. per 100 seedlings)	11.11	4870.85	0.00	4870.85	111.10	48708.46	0.00	48708.46
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	444.40	194833.85	9110.20	203944.05
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	592.50	259763.85	543950.00	803713.85
7	Casualty replacement (20% 222 Seedlings per ha.) (2 M.D. per 100 Seedlings)	4.44	1946.58	0.00	1946.58	44.40	19465.85	0.00	19465.85
8	Part Nursery cost for causality replacement in SYO (222 Seedlings per ha.) (wages Rs. 11.90 and material supply Rs.3.62 total Rs.12.55 per seedling)	7.77	3406.52	803.64	4210.16	77.70	34065.23	8036.40	42101.63
9	Watch and ward (10 months - 1 watcher per 10 ha )	27.38	12003.94	0.00	12003.94	273.80	120039.40	0.00	120039.40
10	Soil working for naturally gower plants and singling (1.15 M.D. per 100 plants)	1.15	504.18	10.00	514.18	11.50	5041.83	100.00	5141.83
11	Fire tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
<b>Total</b>		<b>192.65</b>	<b>84461.61</b>	<b>61569.64</b>	<b>146031.25</b>	<b>1926.50</b>	<b>844616.13</b>	<b>615696.40</b>	<b>1460312.53</b>
Contingency 3%					4380.94				43809.38
Labour Welfare 4%					5841.25				58412.50
<b>Grand Total</b>		<b>192.65</b>	<b>84461.61</b>	<b>61569.64</b>	<b>156253.44</b>	<b>1926.50</b>	<b>844616.13</b>	<b>615696.40</b>	<b>1562534.41</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 10.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>C. Second Year Operations</b>									
1	Part nursery cost for seedlings for causality replacement (222 seedlings per ha) labour rate @Rs. 3.77 M.S Rs.1.82 per seedlings.	2.46	1078.51	404.00	1482.51	24.60	10785.13	4040.00	14825.13
2	Transportation of 222 seedlings for causality replacement from nursery to plantation site (including loading and unloading) wages 0.14 M.D per 100 Seeding & M.S Rs. 1.82 per seedlings	0.31	135.91	404.04	539.95	3.10	1359.10	4040.40	5399.50
3	Planting for causality replacement 222 seedlings (2.00 M.D. per 100 seedlings)	4.44	1946.58	0.00	1946.58	44.40	19465.85	0.00	19465.85
4	2 Weedings and 1 soil working. with fertilizer application 2.5 M.D. per 100 seedlings at M.S Rs.0.82 per seedling	27.77	12174.92	911.02	13085.94	277.70	121749.23	9110.20	130859.43
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 / muka @Rs.25/- each replacing 111 cans/muka, supplying water @Rs.0.50/- per litre and watering 150 seedlings per M.D.	88.88	38966.77	36105.00	75071.77	888.80	389667.70	361050.00	750717.70
6	Watch and ward 12 months - 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
7	Fire tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>162.360</b>	<b>71181.87</b>	<b>37824.06</b>	<b>109005.93</b>	<b>1623.60</b>	<b>711818.71</b>	<b>378240.60</b>	<b>1090059.31</b>
	Contingency 3%				3270.18				32701.78
	Labour Welfare 4%				4360.24				43602.37
	<b>Grand Total</b>	<b>162.36</b>	<b>71181.87</b>	<b>37824.06</b>	<b>116636.35</b>	<b>1623.60</b>	<b>711818.71</b>	<b>378240.60</b>	<b>1166363.46</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 10.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>D. Third Year Operations</b>									
1	1 weeding and 1 soil working (1.50 M.D per 100 seedlings) applying fertilizer @ Rs.0.82 per plant.	16.67	7308.46	911.02	8219.48	166.70	73084.61	9110.20	82194.81
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	444.80	195009.22	166800.00	361809.22
3	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
4	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
5	Fire tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>101.65</b>	<b>44565.39</b>	<b>17616.02</b>	<b>62181.41</b>	<b>1016.50</b>	<b>445653.93</b>	<b>176160.20</b>	<b>621814.13</b>
	Contingency 3%				1865.44				18654.42
	Labour Welfare 4%				2487.26				24872.57
	<b>Grand Total</b>	<b>101.65</b>	<b>44565.39</b>	<b>17616.02</b>	<b>66534.11</b>	<b>1016.50</b>	<b>445653.93</b>	<b>176160.20</b>	<b>665341.12</b>
<b>E. Fourth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%				533.43				5334.30
	Labour Welfare 4%				711.24				7112.40
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>
<b>F. Fifth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%				533.43				5334.30
	Labour Welfare 4%				711.24				7112.40
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 10.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>G. Sixth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%			0.00	533.43			0.00	5334.30
	Labour Welfare 4%			0.00	711.24			0.00	7112.40
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>
<b>H. Seventh Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%			0.00	533.43			0.00	5334.30
	Labour Welfare 4%			0.00	711.24			0.00	7112.40
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>
<b>I. Eight Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%			0.00	533.43			0.00	5334.30
	Labour Welfare 4%			0.00	711.24			0.00	7112.40
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 10.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>J. Nine Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%			0.00	533.43			0.00	5334.30
	Labour Welfare 4%			0.00	711.24			0.00	7112.40
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>
<b>K. Tenth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%			0.00	533.43			0.00	5334.30
	Labour Welfare 4%			0.00	711.24			0.00	7112.40
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>

वन परिक्षेत्र अधिकारी (ग. 1)  
नंदेद

Assistant Conservator of Forest  
(Tenduleaves & Campa) Nanded

(Keshav Wable)  
Deputy Conservator of Forests,  
Nanded Forest Division,  
Nanded.

**Abstract for Model No. 5  
Fencing and Irrigated Plantations  
Model Rate Structure for Compensatory Afforestation**

Sr. No.	Year of Operation	Area : 1.00 ha. @ wage rate rs. 438.42 /day				Area : 10.00 ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
1	Pre Monsoon Works	167.97	73641.41	193263.83	285588.60	1679.70	73614.07	1887638.30	2807736.04
2	First Year Operations	192.65	84461.61	61569.64	156253.44	1926.50	844616.13	615696.40	1562534.41
3	Second Year Operations	162.36	71181.87	37824.06	116636.35	1623.60	711818.71	378240.60	1166365.46
4	Third Year Operations	101.65	44565.39	17616.02	66534.11	1016.50	445653.93	176160.20	665341.12
5	Fourth Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81
6	Fifth Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81
7	Sixth Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81
8	Seventh Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81
9	Eight Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81
10	Ninth Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81
11	Tenth Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81
	<b>Total</b>	<b>908.13</b>	<b>398142.35</b>	<b>310448.55</b>	<b>758192.27</b>	<b>9081.30</b>	<b>3981423.55</b>	<b>3059485.50</b>	<b>7533772.68</b>

*Alena*  
वन परिक्षेत्र अधिकारी (ग्र.)  
नांदेड

*[Signature]*  
Assistant Conservator of Forest  
(Tandulaves & Camra) Nanded

*[Signature]*  
(Keshav Wable)  
Deputy Conservator of Forests,  
Nanded Forest Division,  
Nanded.



Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 15.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
4	Alignment of pits at 3m x 3m spacement 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	41.70	18282.11	746.55	19028.66
5	Digging of pits of size 0.45 x 0.45 x 0.45 m (1111 pits per ha) 6.60 M.D.per 100 pits. Note :- As per local conditions provision for mechanized digging can be made.	73.33	32149.34	0.00	32149.34	1099.95	482240.08	0.00	482240.08
6	Construction of 5.00 Rmt wide Inspection Path 1M.D. per 100 Rmt	1.00	438.42	0.00	438.42	15.00	6576.30	0.00	6576.30
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	11.25	4932.23	375.00	5307.23
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	5000.00	5000.00
9	Part Nursery cost of raising 1333 seedlings per ha (including 20% casualty replacement) in polygons of size 12.50 x 25.00 cm (wages Rs. 11.90 and M & S Rs. 3.62 per palnt)	46.71	20478.60	4825.46	25304.06	700.65	307178.97	72381.90	379560.87
	<b>Total</b>	<b>167.97</b>	<b>73641.41</b>	<b>193263.83</b>	<b>266905.24</b>	<b>2519.55</b>	<b>1104621.11</b>	<b>2828957.45</b>	<b>3933578.56</b>
	Contingency 3%			8007.16					118007.36
	Labour Welfare 4%			10676.21					137343.14
	<b>Grand Total</b>	<b>167.97</b>	<b>73641.41</b>	<b>193263.83</b>	<b>285588.60</b>	<b>2519.55</b>	<b>1104621.11</b>	<b>2828957.45</b>	<b>4208929.06</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 15.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>B. First Year Operations</b>									
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	6488.62	1079.73	7568.35	222.00	97329.24	16195.95	113525.19
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	276.60	121266.97	29163.75	150430.72
3	Transportation of 1333 seedlings from Nursery to plantation site including loading & unloading (0.14 M.D. per 100 seedlings & M.S. Rs.1.82 per seedlings )	1.87	819.85	2426.00	3245.85	28.05	12297.68	36390.00	48687.68
4	Planting of 1111 seedlings (1.0 M.D. per 100 seedlings)	11.11	4870.85	0.00	4870.85	166.65	73062.69	0.00	73062.69
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	666.60	292250.77	13665.30	305916.07
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	888.75	389645.78	815925.00	1205570.78
7	Casualty replacement (20% 222 Seedlings per ha.) (2 M.D. per 100 Seedlings)	4.44	1946.58	0.00	1946.58	66.60	29198.77	0.00	29198.77
8	Part Nursery cost for causality replacement in SYO (222 Seedlings per ha.) (wages Rs. 11.90 and material supply Rs.3.62 total Rs.12.55 per seedling)	7.77	3406.52	803.64	4210.16	116.55	51097.85	12054.60	63152.45
9	Watch and ward (10 months - 1 watcher per 10 ha )	27.38	12003.94	0.00	12003.94	410.70	180059.09	0.00	180059.09
10	Soil working for naturally gower plants and singling (1.15 M.D per 100 plants)	1.15	504.18	10.00	514.18	17.25	7562.75	150.00	7712.75
11	Fire tracing	2.00	876.84	0.00	876.84	30.00	13152.60	0.00	13152.60
	<b>Total</b>	<b>192.65</b>	<b>84461.61</b>	<b>61569.64</b>	<b>146031.25</b>	<b>2889.75</b>	<b>1266924.20</b>	<b>923544.60</b>	<b>2190468.80</b>
	Contingency 3%				4380.94				65714.06
	Labour Welfare 4%				5841.25				87618.75
	<b>Grand Total</b>	<b>192.65</b>	<b>84461.61</b>	<b>61569.64</b>	<b>156253.44</b>	<b>2889.75</b>	<b>1266924.20</b>	<b>923544.60</b>	<b>2343801.61</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 15.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>C. Second Year Operations</b>									
1	Part nursery cost for seedlings for causality replacement (222 seedlings per ha) labour rate @Rs. 3.77 M.S Rs.1.82 per seedlings.	2.46	1078.51	404.00	1482.51	36.90	16177.70	6060.00	22237.70
2	Transportation of 222 seedlings for causality replacement from nursery to plantation site (including loading and unloading) wages 0.14 M.D per 100 Seedling & M.S Rs. 1.82 per seedlings	0.31	135.91	404.04	539.95	4.65	2038.65	6060.60	8099.25
3	Planting for causality replacement 222 seedlings (2.00 M.D. per 100 seedlings)	4.44	1946.58	0.00	1946.58	66.60	29198.77	0.00	29198.77
4	2 Seedlings and 1 soil working, with fertilizer application 2.5 M.D. per 100 seedlings at M.S Rs.0.82 per seedling	27.77	12174.92	911.02	13085.94	416.55	182623.85	13665.30	196289.15
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	1333.20	584501.54	541575.00	1126076.54
6	Watch and ward 12 months - 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	547.50	240034.95	0.00	240034.95
7	Fire tracing	2.00	876.84	0.00	876.84	30.00	13152.60	0.00	13152.60
	<b>Total</b>	<b>162.360</b>	<b>71181.87</b>	<b>37824.06</b>	<b>109005.93</b>	<b>2435.40</b>	<b>1067728.07</b>	<b>567360.90</b>	<b>1635088.97</b>
	Contingency 3%				3270.18				49052.67
	Labour Welfare 4%				4360.24				65403.56
	<b>Grand Total</b>	<b>162.36</b>	<b>71181.87</b>	<b>37824.06</b>	<b>116636.35</b>	<b>2435.40</b>	<b>1067728.07</b>	<b>567360.90</b>	<b>1749545.20</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 15.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>D. Third Year Operations</b>									
1	1 weeding and 1 soil working (1.50 M.D per 100 seedlings) applying fertilizer @ Rs.0.82 per plant.	16.67	7308.46	911.02	8219.48	250.05	109626.92	13665.30	123292.22
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	667.20	292513.82	250200.00	542713.82
3	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	547.50	240034.95	0.00	240034.95
4	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	30.00	13152.60	375.00	13527.60
5	Fire tracing	2.00	876.84	0.00	876.84	30.00	13152.60	0.00	13152.60
	<b>Total</b>	<b>101.65</b>	<b>44565.39</b>	<b>17616.02</b>	<b>62181.41</b>	<b>1524.75</b>	<b>668480.90</b>	<b>264240.30</b>	<b>932721.20</b>
	Contingency 3%				1865.44				27981.64
	Labour Welfare 4%				2487.26				37308.85
	<b>Grand Total</b>	<b>101.65</b>	<b>44565.39</b>	<b>17616.02</b>	<b>66534.11</b>	<b>1524.75</b>	<b>668480.90</b>	<b>264240.30</b>	<b>998011.68</b>
<b>E. Fourth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	547.50	240034.95	0.00	240034.95
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	30.00	13152.60	375.00	13527.60
3	Fire Tracing	2.00	876.84	0.00	876.84	30.00	13152.60	0.00	13152.60
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>607.50</b>	<b>266340.15</b>	<b>375.00</b>	<b>266715.15</b>
	Contingency 3%				533.43				8001.45
	Labour Welfare 4%				711.24				10668.61
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>607.50</b>	<b>266340.15</b>	<b>375.00</b>	<b>285385.21</b>
<b>F. Fifth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	547.50	240034.95	0.00	240034.95
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	30.00	13152.60	375.00	13527.60
3	Fire Tracing	2.00	876.84	0.00	876.84	30.00	13152.60	0.00	13152.60
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>607.50</b>	<b>266340.15</b>	<b>375.00</b>	<b>266715.15</b>
	Contingency 3%				533.43				8001.45
	Labour Welfare 4%				711.24				10668.61
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>607.50</b>	<b>266340.15</b>	<b>375.00</b>	<b>285385.21</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 15.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>G. Sixth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	547.50	240034.95	0.00	240034.95
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	30.00	13152.60	375.00	13527.60
3	Fire Tracing	2.00	876.84	0.00	876.84	30.00	13152.60	0.00	13152.60
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>607.50</b>	<b>266340.15</b>	<b>375.00</b>	<b>266715.15</b>
	Contingency 3%			0.00	533.43			0.00	8001.45
	Labour Welfare 4%			0.00	711.24			0.00	10668.61
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>607.50</b>	<b>266340.15</b>	<b>375.00</b>	<b>285385.21</b>
<b>H. Seventh Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	547.50	240034.95	0.00	240034.95
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	30.00	13152.60	375.00	13527.60
3	Fire Tracing	2.00	876.84	0.00	876.84	30.00	13152.60	0.00	13152.60
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>607.50</b>	<b>266340.15</b>	<b>375.00</b>	<b>266715.15</b>
	Contingency 3%			0.00	533.43			0.00	8001.45
	Labour Welfare 4%			0.00	711.24			0.00	10668.61
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>607.50</b>	<b>266340.15</b>	<b>375.00</b>	<b>285385.21</b>
<b>I. Eight Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	547.50	240034.95	0.00	240034.95
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	30.00	13152.60	375.00	13527.60
3	Fire Tracing	2.00	876.84	0.00	876.84	30.00	13152.60	0.00	13152.60
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>607.50</b>	<b>266340.15</b>	<b>375.00</b>	<b>266715.15</b>
	Contingency 3%			0.00	533.43			0.00	8001.45
	Labour Welfare 4%			0.00	711.24			0.00	10668.61
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>607.50</b>	<b>266340.15</b>	<b>375.00</b>	<b>285385.21</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 15.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>J. Nine Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	547.50	240034.95	0.00	240034.95
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	30.00	13152.60	375.00	13527.60
3	Fire Tracing	2.00	876.84	0.00	876.84	30.00	13152.60	0.00	13152.60
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>607.50</b>	<b>266340.15</b>	<b>375.00</b>	<b>266715.15</b>
	Contingency 3%			0.00	533.43			0.00	8001.45
	Labour Welfare 4%			0.00	711.24			0.00	10668.61
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>607.50</b>	<b>266340.15</b>	<b>375.00</b>	<b>285385.21</b>
<b>K. Tenth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	547.50	240034.95	0.00	240034.95
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	30.00	13152.60	375.00	13527.60
3	Fire Tracing	2.00	876.84	0.00	876.84	30.00	13152.60	0.00	13152.60
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>607.50</b>	<b>266340.15</b>	<b>375.00</b>	<b>266715.15</b>
	Contingency 3%			0.00	533.43			0.00	8001.45
	Labour Welfare 4%			0.00	711.24			0.00	10668.61
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>607.50</b>	<b>266340.15</b>	<b>375.00</b>	<b>285385.21</b>

मूल्य

वन परिवेश अधिकारी (प्र.)  
मूल्य

Assistant Conservator of Forest  
(TanduLeaves & Campa) Nanded

(Keshav Wable)  
Deputy Conservator of Forests,  
Nanded Forest Division,  
Nanded.

**Abstract for Model No. 5  
Fencing and Irrigated Plantations**

**Model Rate Structure for Compensatory Afforestation**

Sr. No.	Year of Operation	Area : 1.00 ha. @ wage rate rs. 438.42 /day					Area : 15.00 ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total		
1	Pre Monsoon Works	167.97	73641.41	193263.83	285588.60	2519.55	1104621.11	2828957.45	4208929.06		
2	First Year Operations	192.65	84461.61	61569.64	156253.44	2889.75	1266924.20	923544.60	2343801.61		
3	Second Year Operations	162.36	71181.87	37824.06	116636.35	2435.40	1067728.07	567360.90	1749545.20		
4	Third Year Operations	101.65	44565.39	17616.02	66534.11	1524.75	668480.90	264240.30	998011.68		
5	Fourth Year Operations	40.50	17756.01	25.00	19025.68	607.50	266340.15	375.00	285385.21		
6	Fifth Year Operations	40.50	17756.01	25.00	19025.68	607.50	266340.15	375.00	285385.21		
7	Sixth Year Operations	40.50	17756.01	25.00	19025.68	607.50	266340.15	375.00	285385.21		
8	Seventh Year Operations	40.50	17756.01	25.00	19025.68	607.50	266340.15	375.00	285385.21		
9	Eight Year Operations	40.50	17756.01	25.00	19025.68	607.50	266340.15	375.00	285385.21		
10	Nineth Year Operations	40.50	17756.01	25.00	19025.68	607.50	266340.15	375.00	285385.21		
11	Tenth Year Operations	40.50	17756.01	25.00	19025.68	607.50	266340.15	375.00	285385.21		
	<b>Total</b>	<b>908.13</b>	<b>398142.35</b>	<b>310448.55</b>	<b>758192.27</b>	<b>13621.95</b>	<b>5972135.32</b>	<b>4586728.25</b>	<b>11297984.02</b>		



वन परिसर अधिकारी (ग्र.)  
मन्डल

Assistant Conservator of Forest  
(Tandulaves & Camna) Nanded



(Keshav Wable)  
Deputy Conservator of Forests,  
Nanded Forest Division,  
Nanded.

**Abstract for Model No. 5  
Fencing and Irrigated Plantations  
Model Rate Structure for Compensatory Afforestation**

Sr. No.	Year of Operation	Area : 1.00 ha. @ wage rate rs. 447.96 /day				Village - <i>Barnoli</i> Area : 15.00 ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
1	Pre Monsoon Works	167.97	75243.84	193263.83	287303.21	2519.55	1128657.62	2828957.45	4234648.12
2	First Year Operations	192.65	86299.49	61569.64	158219.97	2889.75	1294492.41	923544.60	2373299.60
3	Second Year Operations	162.36	72730.79	37824.06	118293.68	2435.40	1090961.78	567360.90	1774405.27
4	Third Year Operations	101.65	45535.13	7616.02	67571.73	1524.75	683027.01	264240.30	1013576.02
5	Fourth Year Operations	40.50	18142.38	25.00	19439.10	607.50	272135.70	375.00	291586.45
6	Fifth Year Operations	40.50	18142.38	25.00	19439.10	607.50	272135.70	375.00	291586.45
7	Sixth Year Operations	40.50	18142.38	25.00	19439.10	607.50	272135.70	375.00	291586.45
8	Seventh Year Operations	40.50	18142.38	25.00	19439.10	607.50	272135.70	375.00	291586.45
9	Eight Year Operations	40.50	18142.38	25.00	19439.10	607.50	272135.70	375.00	291586.45
10	Ninth Year Operations	40.50	18142.38	25.00	19439.10	607.50	272135.70	375.00	291586.45
11	Tenth Year Operations	40.50	18142.38	25.00	19439.10	607.50	272135.70	375.00	291586.45
	<b>Total</b>	<b>908.13</b>	<b>406805.91</b>	<b>310448.55</b>	<b>767462.28</b>	<b>13621.95</b>	<b>6102088.72</b>	<b>4586728.25</b>	<b>11437034.16</b>

  
 (Keshav Wable)  
 Deputy Conservator of Forests,  
 Nanded Forest Division,  
 Nanded.

**Model Rate Structure for Compensatory Afforestation**

Model No.5

**Fencing and Irrigated Plantations**

Model rate structure for plantation of mixed tree species having rainfall less than 800 mm and medium quality, medium drained soil.

Village - Barni Compt No. 568 c /1, Sur/Gut No. 67, Taluka - Mahur Dist. Nanded

Spacing  
Size of Pits  
No. of Seedlings  
3m x 3m  
0.45 x 0.45 x 0.45 m  
1111 per ha.

Wage Rate  
Proposed Area  
447.96  
15.00  
per day  
Ha.  
Year - 2023-24

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 15.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
1	a.) Survey and demarcation	1.00	447.96	91.00	538.96	15.00	6719.40	1365.00	8084.40
	b.) Preparation of treatment map (100 m x 50 m grid)	1.00	447.96	91.00	538.96	15.00	6719.40	1365.00	8084.40
	c.) Digging trial pits of size 0.30 x 0.30 x 0.60 in corner of Grid.	0.40	179.18	0.00	179.18	6.00	2687.76	0.00	2687.76
	d.) Fixing 60cm x 0.05cm x 12 cm cement pillars upto 30cm 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	0.00	0.00	3375.00	3375.00
	e.) Clearing of bushes and preparation of site (As per requirement)	10.00	4479.60	91.00	4570.60	150.00	67194.00	1365.00	68559.00
2	Soil and moisture conservation works including collection of rubbles from areas upto 30 m etc	31.00	13886.76	0.00	13886.76	465.00	208301.40	0.00	208301.40
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 50mm x 50m, 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	0.00	0.00	2742984.00	2742984.00

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 15.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
4	Alignment of pits at 3m x 3m spacing 1111 pits per ha. (0.25 per 100 pits and M&S @ Rs.2.24 per 50 pits.	2.78	1245.33	49.77	1295.10	41.70	18679.93	746.55	19426.48
5	Digging of pits of size 0.45 x 0.45 x 0.45 m (1111 pits per ha) 6.60 M.D.per 100 pits. Note :- As per local conditions provision for mechanized digging can be made.	73.33	32848.91	0.00	32848.91	1099.95	492733.60	0.00	492733.60
6	Construction of 5.00 Rmt wide Inspection Path 1M.D. per 100 Rmt	1.00	447.96	0.00	447.96	15.00	6719.40	0.00	6719.40
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	335.97	25.00	360.97	11.25	5039.55	375.00	5414.55
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	5000.00	5000.00
9	Part Nursery cost of raising 1333 seedlings per ha (including 20% casualty replacement) in polygons of size 12.50 x 25.00 cm (wages Rs. 11.90 and M & S Rs. 3.62 per plant)	46.71	20924.21	4825.46	25749.67	700.65	313863.17	72381.90	386245.07
<b>Total</b>		<b>167.97</b>	<b>75243.84</b>	<b>193263.83</b>	<b>268507.67</b>	<b>2519.55</b>	<b>1128657.62</b>	<b>2828957.45</b>	<b>3957615.07</b>
Contingency 3%					8055.23				118728.45
Labour Welfare 4%					10740.31				158304.60
<b>Grand Total</b>		<b>167.97</b>	<b>75243.84</b>	<b>193263.83</b>	<b>287303.21</b>	<b>2519.55</b>	<b>1128657.62</b>	<b>2828957.45</b>	<b>4234648.12</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 15.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>B. First Year Operations</b>									
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	6629.81	1079.73	7709.54	222.00	99447.12	16195.95	115643.07
2	Refilling of pits by good quality soil including application of single super phosphate (1.66 MID per 100 pits)	18.44	8260.38	1944.25	10204.63	276.60	123905.74	29163.75	153069.49
3	Transportation of 1333 seedlings from Nursery to plantation site including loading & unloading (0.14 M.D. per 100 seedlings & M.S. Rs.1.82 per seedlings)	1.87	837.69	2426.00	3263.69	28.05	12565.28	36390.00	48955.28
4	Planting of 1111 seedlings (1.0 M.D. per 100 seedlings)	11.11	4976.84	0.00	4976.84	166.65	74652.53	0.00	74652.53
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	19907.34	911.02	20818.36	666.60	298610.14	13665.30	312275.44
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	26541.63	54395.00	80936.63	888.75	398124.45	815925.00	1214049.45
7	Causally replacement (20% 222 Seedlings per ha) (2 M.D. per 100 Seedlings)	4.44	1988.94	0.00	1988.94	66.60	29834.14	0.00	29834.14
8	Part Nursery cost for causality replacement in SYO (222 Seedlings per ha.) (wages Rs. 11.90 and material supply Rs.3.62 total Rs.12.55 per seedling)	7.77	3480.65	803.64	4284.29	116.55	52209.74	12054.60	64264.34
9	Watch and ward (10 months - 1 watcher per 10 ha )	27.38	12265.14	0.00	12265.14	410.70	183977.17	0.00	183977.17
10	Soil working for naturally grower plants and singling (1.15 M.D per 100 plants)	1.15	515.15	10.00	525.15	17.25	7727.31	150.00	7877.31
11	Fire tracing	2.00	895.92	0.00	895.92	30.00	13438.80	0.00	13438.80
<b>Total</b>		<b>192.65</b>	<b>86299.49</b>	<b>61569.64</b>	<b>147869.13</b>	<b>2889.75</b>	<b>1294492.41</b>	<b>923544.60</b>	<b>2218037.01</b>
Contingency 3%					4436.07				66541.11
Labour Welfare 4%					5914.77				88721.48
<b>Grand Total</b>		<b>192.65</b>	<b>86299.49</b>	<b>61569.64</b>	<b>158219.97</b>	<b>2889.75</b>	<b>1294492.41</b>	<b>923544.60</b>	<b>2373399.60</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 15.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>C. Second Year Operations</b>									
1	Part nursery cost for seedlings for causality replacement (222 seedlings per ha) Labour rate @Rs. 3.77 M.S.Rs.1.82 per seedlings.	2.46	1101.98	404.00	1505.98	36.90	16529.72	6060.00	22589.72
2	Transportation of 222 seedlings for causality replacement from nursery to plantation site (including loading and unloading) wages 0.14 M.D per 100 Seedling & M.S.Rs. 1.82 per seedlings	0.31	138.87	404.04	542.91	4.65	2083.01	6060.60	8143.61
3	Planting for causality replacement 222 seedlings (2.00 M.D. per 100 seedlings)	4.44	1988.94	0.00	1988.94	66.60	29834.14	0.00	29834.14
4	2 Weedings and 1 soil working, with fertilizer application 2.5 M.D. per 100 seedlings at M.S.Rs.0.82 per seedling	27.77	12439.85	911.02	13350.87	416.55	186597.74	13665.30	200263.04
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	39814.68	36105.00	75919.68	1333.20	597220.27	541575.00	1138795.27
6	Watch and ward 12 months - 1 watcher per 10.00 ha	36.50	16350.54	0.00	16350.54	547.50	245258.10	0.00	245258.10
7	Fire tracing	2.00	895.92	0.00	895.92	30.00	13438.80	0.00	13438.80
<b>Total</b>		<b>162.360</b>	<b>72730.79</b>	<b>37824.06</b>	<b>110554.85</b>	<b>2435.40</b>	<b>1090961.78</b>	<b>567360.90</b>	<b>1658322.68</b>
Contingency 3%					3316.65				49749.68
Labour Welfare 4%					4422.19				66332.91
<b>Grand Total</b>		<b>162.36</b>	<b>72730.79</b>	<b>37824.06</b>	<b>118293.68</b>	<b>2435.40</b>	<b>1090961.78</b>	<b>567360.90</b>	<b>1774405.27</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 15.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>D. Third Year Operations</b>									
1	1 weeding and 1 soil working (1.50 M.D per 100 seedlings) applying fertilizer @ Rs.0.82 per plant.	16.67	7467.49	911.02	8378.51	250.05	112012.40	13665.30	125677.70
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	19925.26	16680.00	36605.26	667.20	298878.91	250200.00	549078.91
3	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16350.54	0.00	16350.54	547.50	245258.10	0.00	245258.10
4	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	895.92	25.00	920.92	30.00	13438.80	375.00	13813.80
5	Fire Tracing	2.00	895.92	0.00	895.92	30.00	13438.80	0.00	13438.80
	<b>Total</b>	<b>101.65</b>	<b>45535.13</b>	<b>17616.02</b>	<b>63151.15</b>	<b>1524.75</b>	<b>683027.01</b>	<b>264240.30</b>	<b>947267.31</b>
	Contingency 3%				1894.53				28418.02
	Labour Welfare 4%				2526.05				37890.69
	<b>Grand Total</b>	<b>101.65</b>	<b>45535.13</b>	<b>17616.02</b>	<b>67571.73</b>	<b>1524.75</b>	<b>683027.01</b>	<b>264240.30</b>	<b>1013576.02</b>
<b>E. Fourth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16350.54	0.00	16350.54	547.50	245258.10	0.00	245258.10
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	895.92	25.00	920.92	30.00	13438.80	375.00	13813.80
3	Fire Tracing	2.00	895.92	0.00	895.92	30.00	13438.80	0.00	13438.80
	<b>Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>18167.38</b>	<b>607.50</b>	<b>272135.70</b>	<b>375.00</b>	<b>272510.70</b>
	Contingency 3%				545.02				8175.32
	Labour Welfare 4%				726.70				10900.43
	<b>Grand Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>19439.10</b>	<b>607.50</b>	<b>272135.70</b>	<b>375.00</b>	<b>291586.45</b>
<b>F. Fifth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16350.54	0.00	16350.54	547.50	245258.10	0.00	245258.10
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	895.92	25.00	920.92	30.00	13438.80	375.00	13813.80
3	Fire Tracing	2.00	895.92	0.00	895.92	30.00	13438.80	0.00	13438.80
	<b>Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>18167.38</b>	<b>607.50</b>	<b>272135.70</b>	<b>375.00</b>	<b>272510.70</b>
	Contingency 3%				545.02				8175.32
	Labour Welfare 4%				726.70				10900.43
	<b>Grand Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>19439.10</b>	<b>607.50</b>	<b>272135.70</b>	<b>375.00</b>	<b>291586.45</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 15.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>G. Sixth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16350.54	0.00	16350.54	547.50	245258.10	0.00	245258.10
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	895.92	25.00	920.92	30.00	13438.80	375.00	13813.80
3	Fire Tracing	2.00	895.92	0.00	895.92	30.00	13438.80	0.00	13438.80
	<b>Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>18167.38</b>	<b>607.50</b>	<b>272135.70</b>	<b>375.00</b>	<b>272510.70</b>
	Contingency 3%			0.00	545.02			0.00	8175.32
	Labour Welfare 4%			0.00	726.70			0.00	10900.43
	<b>Grand Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>19439.10</b>	<b>607.50</b>	<b>272135.70</b>	<b>375.00</b>	<b>291586.45</b>
<b>H. Seventh Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16350.54	0.00	16350.54	547.50	245258.10	0.00	245258.10
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	895.92	25.00	920.92	30.00	13438.80	375.00	13813.80
3	Fire Tracing	2.00	895.92	0.00	895.92	30.00	13438.80	0.00	13438.80
	<b>Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>18167.38</b>	<b>607.50</b>	<b>272135.70</b>	<b>375.00</b>	<b>272510.70</b>
	Contingency 3%			0.00	545.02			0.00	8175.32
	Labour Welfare 4%			0.00	726.70			0.00	10900.43
	<b>Grand Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>19439.10</b>	<b>607.50</b>	<b>272135.70</b>	<b>375.00</b>	<b>291586.45</b>
<b>I. Eight Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16350.54	0.00	16350.54	547.50	245258.10	0.00	245258.10
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	895.92	25.00	920.92	30.00	13438.80	375.00	13813.80
3	Fire Tracing	2.00	895.92	0.00	895.92	30.00	13438.80	0.00	13438.80
	<b>Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>18167.38</b>	<b>607.50</b>	<b>272135.70</b>	<b>375.00</b>	<b>272510.70</b>
	Contingency 3%			0.00	545.02			0.00	8175.32
	Labour Welfare 4%			0.00	726.70			0.00	10900.43
	<b>Grand Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>19439.10</b>	<b>607.50</b>	<b>272135.70</b>	<b>375.00</b>	<b>291586.45</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 15.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>J. Nine Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16350.54	0.00	16350.54	547.50	245258.10	0.00	245258.10
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	895.92	25.00	920.92	30.00	13438.80	375.00	13813.80
3	Fire Tracing	2.00	895.92	0.00	895.92	30.00	13438.80	0.00	13438.80
	<b>Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>18167.38</b>	<b>607.50</b>	<b>272135.70</b>	<b>375.00</b>	<b>272510.70</b>
	Contingency 3%			0.00	545.02			0.00	8175.32
	Labour Welfare 4%			0.00	726.70			0.00	10900.43
	<b>Grand Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>19439.10</b>	<b>607.50</b>	<b>272135.70</b>	<b>375.00</b>	<b>291586.45</b>
<b>K. Tenth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16350.54	0.00	16350.54	547.50	245258.10	0.00	245258.10
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	895.92	25.00	920.92	30.00	13438.80	375.00	13813.80
3	Fire Tracing	2.00	895.92	0.00	895.92	30.00	13438.80	0.00	13438.80
	<b>Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>18167.38</b>	<b>607.50</b>	<b>272135.70</b>	<b>375.00</b>	<b>272510.70</b>
	Contingency 3%			0.00	545.02			0.00	8175.32
	Labour Welfare 4%			0.00	726.70			0.00	10900.43
	<b>Grand Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>19439.10</b>	<b>607.50</b>	<b>272135.70</b>	<b>375.00</b>	<b>291586.45</b>

  
 (Keshav Wable)  
 Deputy Conservator of Forests,  
 Nanded Forest Division,  
 Nanded.

**Abstract for Model No. 5  
Fencing and Irrigated Plantations  
Model Rate Structure for Compensatory Afforestation**

Sr. No.	Year of Operation	Area : 1.00 ha. @ wage rate rs. 447.96 /day					Village - Kadmachiwadi Area : 25.00 ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total		
1	Pre Monsoon Works	167.97	75243.84	193263.83	287303.21	4199.25	1881096.03	4711595.75	7054180.20		
2	First Year Operations	192.65	86299.49	61569.64	158219.97	4816.25	2157487.35	1539241.00	3955499.33		
3	Second Year Operations	162.36	72730.79	37824.06	118293.68	4059.00	1818269.64	945601.50	2957342.12		
4	Third Year Operations	101.65	45535.13	17616.02	67571.73	2541.25	1138378.35	440400.50	1689293.37		
5	Fourth Year Operations	40.50	18142.38	25.00	19439.10	1012.50	453559.50	625.00	485977.42		
6	Fifth Year Operations	40.50	18142.38	25.00	19439.10	1012.50	453559.50	625.00	485977.42		
7	Sixth Year Operations	40.50	18142.38	25.00	19439.10	1012.50	453559.50	625.00	485977.42		
8	Seventh Year Operations	40.50	18142.38	25.00	19439.10	1012.50	453559.50	625.00	485977.42		
9	Eight Year Operations	40.50	18142.38	25.00	19439.10	1012.50	453559.50	625.00	485977.42		
10	Nineth Year Operations	40.50	18142.38	25.00	19439.10	1012.50	453559.50	625.00	485977.42		
11	Tenth Year Operations	40.50	18142.38	25.00	19439.10	1012.50	453559.50	625.00	485977.42		
	<b>Total</b>	<b>908.13</b>	<b>406805.91</b>	<b>310448.55</b>	<b>767462.28</b>	<b>22703.25</b>	<b>10170147.87</b>	<b>7641213.75</b>	<b>19058156.93</b>		

(Keshav Wable)  
Deputy Conservator of Forests,  
Nanded Forest Division,  
Nanded.

**Model Rate Structure for Compensatory Afforestation**

Model No.5

**Fencing and Irrigated Plantations**

Model rate structure for plantation of mixed tree species having rainfall less than 800 mm and medium quality, medium drained soil.

Village - Kadmachiwadi, Compt No. 553 b, Sur/Gut No. 48/2, Taluka - Mahur Dist. Nanded

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 25.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>A. Pre Monsoon Works PPO/PYO</b>									
1	a.) Survey and demarcation	1.00	447.96	91.00	538.96	25.00	11199.00	2275.00	13474.00
	b.) Preparation of treatment map (100 m x 50 m grid)	1.00	447.96	91.00	538.96	25.00	11199.00	2275.00	13474.00
	c.) Digging trial pits of size 0.30 x 0.30 x 0.60 in corner of Grid.	0.40	179.18	0.00	179.18	10.00	4479.60	0.00	4479.60
	d.) Fixing 60cm x 0.05cm x 12 cm cement pillars upto 30cm deep in corner of Grid, painting with Grid No. etc. complete (3 pillars, Rs.75/- for each pillar)	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	4479.60	91.00	4570.60	250.00	111990.00	2275.00	114265.00
2	Soil and moisture conservation works including collection of rubbles from areas upto 30 m etc	31.00	13886.76	0.00	13886.76	775.00	347169.00	0.00	347169.00
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. Jandplus 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 50mm x 50m, 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	0.00	0.00	4571640.00	4571640.00

Sr. No.	Particulars of works	Area : 1.00 Ha.					Area : 25.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total		
4	Alignment of pits at 3m x 3m spacement 1111 pits per ha. (0.25 per 100 pits and M&S @ Rs.2.24 per 50 pits.	2.78	1245.33	49.77	1295.10	69.50	31133.22	1244.25	32377.47		
5	Digging of pits of size 0.45 x 0.45 x 0.45 m (1111 pits per ha) 6.60 M.D. per 100 pits. Note :- As per local conditions provision for mechanized digging can be made.	73.33	32848.91	0.00	32848.91	1833.25	821222.67	0.00	821222.67		
6	Construction of 5.00 Rmt wide Inspection Path 1M.D. per 100 Rmt	1.00	447.96	0.00	447.96	25.00	11199.00	0.00	11199.00		
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	335.97	25.00	360.97	18.75	8399.25	625.00	9024.25		
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	5000.00	5000.00		
9	Part Nursery cost of raising 1333 seedlings per ha (including 20% casuality replacement) in polygons of size 12.50 x 25.00 cm (wages Rs. 11.90 and M & S Rs. 3.62 per plant)	46.71	20924.21	4825.46	25749.67	1167.75	523105.29	120636.50	643741.79		
<b>Total</b>		167.97	75243.84	193263.83	268507.67	4199.25	1881096.03	4711595.75	6592691.78		
Contingency 3%					8055.23				197780.75		
Labour Welfare 4%					10740.31				263707.67		
<b>Grand Total</b>		167.97	75243.84	193263.83	287303.21	4199.25	1881096.03	4711595.75	7054180.20		

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 25.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>B. First Year Operations</b>									
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	6629.81	1079.73	7709.54	370.00	165745.20	26993.25	192738.45
2	Refilling of pits by good quality soil including application of single super phosphate (1.66 MID per 100 pits)	18.44	8260.38	1944.25	10204.63	461.00	206509.56	48606.25	235115.81
3	Transportation of 1333 seedlings from Nursery to plantation site including loading & unloading (0.14 M.D. per 100 seedlings & M.S. Rs.1.82 per seedlings)	1.87	837.69	2426.00	3263.69	46.75	20942.13	60650.00	81592.13
4	Planting of 1111 seedlings (1.0 M.D. per 100 seedlings)	11.11	4976.84	0.00	4976.84	277.75	124420.89	0.00	124420.89
5	3 seedlings (1 Rmt circular) and 2 soil workings (4.00 M.D per 100 seedlings) fertilizer applicator Rs.0.82 per seedling	44.44	19907.34	911.02	20818.36	1111.00	497683.56	22775.50	520459.06
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/ marka @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	26541.63	54395.00	80936.63	148.25	663540.75	1359875.00	2023415.75
7	Casualty replacement (20% 222 Seedlings per ha.) (2 M.D. per 100 Seedlings)	4.44	1988.94	0.00	1988.94	111.00	49723.56	0.00	49723.56
8	Part Nursery cost for causality replacement in SYO (222 Seedlings per ha.) (Wages Rs. 11.90 and material supply Rs.3.62 total Rs.12.55 per seedling)	7.77	3480.65	803.64	4284.29	194.25	870162.3	20091.00	107107.23
9	Watch and ward (10 months - 1 watcher per 10 ha )	27.38	12265.14	0.00	12265.14	684.50	306628.62	0.00	306628.62
10	Soil working for naturally grower plants and singling (1.15 M.D per 100 plants)	1.15	515.15	10.00	525.15	28.75	12878.85	250.00	13128.85
11	Fire tracing	2.00	895.92	0.00	895.92	50.00	22398.00	0.00	22398.00
<b>Total</b>		<b>192.65</b>	<b>86209.49</b>	<b>61569.64</b>	<b>147869.13</b>	<b>4816.25</b>	<b>2157487.35</b>	<b>1539241.00</b>	<b>3696728.35</b>
Contingency 3%					4436.07				110901.85
Labour Welfare 4%					5914.77				147869.13
<b>Grand Total</b>		<b>192.65</b>	<b>86209.49</b>	<b>61569.64</b>	<b>158219.97</b>	<b>4816.25</b>	<b>2157487.35</b>	<b>1539241.00</b>	<b>3955499.33</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 25.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>C. Second Year Operations</b>									
1	Part nursery cost for seedlings for causality replacement (222 seedlings per ha) labour rate @Rs. 3.77 M.S Rs.1.82 per seedlings.	2.46	1101.98	404.00	1505.98	61.50	27549.54	10100.00	37649.54
2	Transportation of 222 seedlings for causality replacement from nursery to plantation site (including loading and unloading) wages 0.14 M.D per 100 Seedling & M.S Rs. 1.82 per seedlings	0.31	138.87	404.04	542.91	7.75	3471.69	10101.00	13572.69
3	Planting for causality replacement 222 seedlings (2.00 M.D. per 100 seedlings)	4.44	1988.94	0.00	1988.94	111.00	49723.56	0.00	49723.56
4	2 Weedings and 1 soil working, with fertilizer application 2.5 M.D. per 100 seedlings at M.S Rs.0.82 per seedling	27.77	12439.85	911.02	13350.87	694.25	310996.23	22775.50	333771.73
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 / maka @Rs.25/- each replacing 111 cans/maka, supplying water @Rs.0.50/- per litre and watering 150 seedlings per M.D.	88.88	39814.68	36105.00	75919.68	2222.00	995367.12	902625.00	1897992.12
6	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	16350.54	0.00	16350.54	912.50	408763.50	0.00	408763.50
7	Fire tracing	2.00	895.92	0.00	895.92	50.00	22398.00	0.00	22398.00
<b>Total</b>		<b>162.360</b>	<b>72730.79</b>	<b>37824.06</b>	<b>110554.85</b>	<b>4059.00</b>	<b>1818269.64</b>	<b>945601.50</b>	<b>2763871.14</b>
Contingency 3%					3316.65				82916.13
Labour Welfare 4%					4422.19				110554.85
<b>Grand Total</b>		<b>162.36</b>	<b>72730.79</b>	<b>37824.06</b>	<b>118293.68</b>	<b>4059.00</b>	<b>1818269.64</b>	<b>945601.50</b>	<b>2957342.12</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.					Area : 25.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total		
<b>D. Third Year Operations</b>											
1	1 seeding and 1 soil working (1.50 M.D per 100 seedlings) applying fertilizer @ Rs 0.82 per plant.	16.67	7467.49	911.02	8378.51	416.75	186687.33	22775.50	209462.83		
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	19925.26	16680.00	36605.26	1112.00	498131.52	417000.00	915131.52		
3	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16350.54	0.00	16350.54	912.50	408763.50	0.00	408763.50		
4	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	895.92	25.00	920.92	50.00	22398.00	625.00	23023.00		
5	Fire tracing	2.00	895.92	0.00	895.92	50.00	22398.00	0.00	22398.00		
	<b>Total</b>	<b>101.65</b>	<b>45535.13</b>	<b>17616.02</b>	<b>63151.15</b>	<b>2541.25</b>	<b>1138378.35</b>	<b>440406.50</b>	<b>1578778.85</b>		
	Contingency 3%				1894.53				47363.37		
	Labour Welfare 4%				2526.05				63151.15		
	<b>Grand Total</b>	<b>101.65</b>	<b>45535.13</b>	<b>17616.02</b>	<b>67571.73</b>	<b>2541.25</b>	<b>1138378.35</b>	<b>440406.50</b>	<b>1689293.37</b>		
<b>E. Fourth Year Operations</b>											
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16350.54	0.00	16350.54	912.50	408763.50	0.00	408763.50		
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	895.92	25.00	920.92	50.00	22398.00	625.00	23023.00		
3	Fire Tracing	2.00	895.92	0.00	895.92	50.00	22398.00	0.00	22398.00		
	<b>Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>18167.38</b>	<b>1012.50</b>	<b>453559.50</b>	<b>625.00</b>	<b>454184.50</b>		
	Contingency 3%				545.02				13625.54		
	Labour Welfare 4%				726.70				18167.38		
	<b>Grand Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>19439.10</b>	<b>1012.50</b>	<b>453559.50</b>	<b>625.00</b>	<b>485977.42</b>		
<b>F. Fifth Year Operations</b>											
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16350.54	0.00	16350.54	912.50	408763.50	0.00	408763.50		
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	895.92	25.00	920.92	50.00	22398.00	625.00	23023.00		
3	Fire Tracing	2.00	895.92	0.00	895.92	50.00	22398.00	0.00	22398.00		
	<b>Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>18167.38</b>	<b>1012.50</b>	<b>453559.50</b>	<b>625.00</b>	<b>454184.50</b>		
	Contingency 3%				545.02				13625.54		
	Labour Welfare 4%				726.70				18167.38		
	<b>Grand Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>19439.10</b>	<b>1012.50</b>	<b>453559.50</b>	<b>625.00</b>	<b>485977.42</b>		

Seri No.	Particulars of works	Area : 1.00 Ha.				Area : 25.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>G. Sixth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16350.54	0.00	16350.54	912.50	408763.50	0.00	408763.50
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	895.92	25.00	920.92	50.00	22398.00	625.00	23023.00
3	Fire Tracing	2.00	895.92	0.00	895.92	50.00	22398.00	0.00	22398.00
	<b>Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>18167.38</b>	<b>1012.50</b>	<b>453559.50</b>	<b>625.00</b>	<b>454184.50</b>
	Contingency 3%			0.00	545.02			0.00	13625.54
	Labour Welfare 4%			0.00	726.70			0.00	18167.38
	<b>Grand Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>19439.10</b>	<b>1012.50</b>	<b>453559.50</b>	<b>625.00</b>	<b>485977.42</b>
<b>H. Seventh Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16350.54	0.00	16350.54	912.50	408763.50	0.00	408763.50
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	895.92	25.00	920.92	50.00	22398.00	625.00	23023.00
3	Fire Tracing	2.00	895.92	0.00	895.92	50.00	22398.00	0.00	22398.00
	<b>Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>18167.38</b>	<b>1012.50</b>	<b>453559.50</b>	<b>625.00</b>	<b>454184.50</b>
	Contingency 3%			0.00	545.02			0.00	13625.54
	Labour Welfare 4%			0.00	726.70			0.00	18167.38
	<b>Grand Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>19439.10</b>	<b>1012.50</b>	<b>453559.50</b>	<b>625.00</b>	<b>485977.42</b>
<b>I. Eight Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16350.54	0.00	16350.54	912.50	408763.50	0.00	408763.50
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	895.92	25.00	920.92	50.00	22398.00	625.00	23023.00
3	Fire Tracing	2.00	895.92	0.00	895.92	50.00	22398.00	0.00	22398.00
	<b>Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>18167.38</b>	<b>1012.50</b>	<b>453559.50</b>	<b>625.00</b>	<b>454184.50</b>
	Contingency 3%			0.00	545.02			0.00	13625.54
	Labour Welfare 4%			0.00	726.70			0.00	18167.38
	<b>Grand Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>19439.10</b>	<b>1012.50</b>	<b>453559.50</b>	<b>625.00</b>	<b>485977.42</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 25.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>J. Nine Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16350.54	0.00	16350.54	912.50	408763.50	0.00	408763.50
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	895.92	25.00	920.92	50.00	22398.00	625.00	23023.00
3	Fire Tracing	2.00	895.92	0.00	895.92	50.00	22398.00	0.00	22398.00
	<b>Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>18167.38</b>	<b>1012.50</b>	<b>453559.50</b>	<b>625.00</b>	<b>454184.50</b>
	Contingency 3%			0.00	545.02			0.00	13625.54
	Labour Welfare 4%			0.00	726.70			0.00	18167.38
	<b>Grand Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>19439.10</b>	<b>1012.50</b>	<b>453559.50</b>	<b>625.00</b>	<b>489777.42</b>
<b>K. Tenth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16350.54	0.00	16350.54	912.50	408763.50	0.00	408763.50
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	895.92	25.00	920.92	50.00	22398.00	625.00	23023.00
3	Fire Tracing	2.00	895.92	0.00	895.92	50.00	22398.00	0.00	22398.00
	<b>Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>18167.38</b>	<b>1012.50</b>	<b>453559.50</b>	<b>625.00</b>	<b>454184.50</b>
	Contingency 3%			0.00	545.02			0.00	13625.54
	Labour Welfare 4%			0.00	726.70			0.00	18167.38
	<b>Grand Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>19439.10</b>	<b>1012.50</b>	<b>453559.50</b>	<b>625.00</b>	<b>489777.42</b>

  
 (Keshav Wable)  
 Deputy Conservator of Forests,  
 Nanded Forest Division,  
 Nanded.

**Abstract for Model No. 5**  
**Fencing and Irrigated Plantations**  
**Model Rate Structure for Compensatory Afforestation**

Sr. No.	Year of Operation	Area : 1.00 ha. @ wage rate rs. 447.96 /day				Village Bhurbushi Area : 10.00 ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
1	Pre Monsoon Works	167.97	75243.84	193263.83	287303.21	1679.70	752438.41	1887638.30	2824882.08
2	First Year Operations	192.65	86299.49	61569.64	158219.97	1926.50	862994.94	615696.40	1582199.73
3	Second Year Operations	162.36	72730.79	37824.06	118293.68	1623.60	727307.86	378240.60	1182936.85
4	Third Year Operations	101.65	45535.13	17616.02	67571.73	1016.50	455351.34	176160.20	675717.35
5	Fourth Year Operations	40.50	18142.38	25.00	19439.10	405.00	181423.80	250.00	194390.97
6	Fifth Year Operations	40.50	18142.38	25.00	19439.10	405.00	181423.80	250.00	194390.97
7	Sixth Year Operations	40.50	18142.38	25.00	19439.10	405.00	181423.80	250.00	194390.97
8	Seventh Year Operations	40.50	18142.38	25.00	19439.10	405.00	181423.80	250.00	194390.97
9	Eight Year Operations	40.50	18142.38	25.00	19439.10	405.00	181423.80	250.00	194390.97
10	Ninth Year Operations	40.50	18142.38	25.00	19439.10	405.00	181423.80	250.00	194390.97
11	Tenth Year Operations	40.50	18142.38	25.00	19439.10	405.00	181423.80	250.00	194390.97
	<b>Total</b>	<b>908.13</b>	<b>406805.91</b>	<b>310448.55</b>	<b>767462.28</b>	<b>9081.30</b>	<b>4068059.15</b>	<b>3059485.50</b>	<b>7626472.77</b>

  
 (Keshay Wable)  
 Deputy Conservator of Forests,  
 Nanded Forest Division,  
 Nanded.

**Fencing and Irrigated Plantations**

Model rate structure for plantation of mixed tree species having rainfall less than 800 mm and medium quality, medium drained soil.

Village - Bhurbushi Compt No. 362, Sur/Gut No. 136 / 203, Taluka - Bhokar Dist. Nanded

Sr. No.	Particulars of works	Area : 1.00 Ha.		Area : 10.00 Ha.					
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>A. Pre Monsoon Works PPO/PYO</b>									
1	a.) Survey and demarcation	1.00	447.96	91.00	538.96	10.00	4479.60	910.00	5389.60
	b.) Preparation of treatment map (100 m x 50 m grid)	1.00	447.96	91.00	538.96	10.00	4479.60	910.00	5389.60
	c.) Digging trial pits of size 0.30 x 0.30 x 0.60 in corner of Grid.	0.40	179.18	0.00	179.18	4.00	1791.84	0.00	1791.84
	d.) Fixing 60cm x 0.05cm x 12 cm cement pillars upto 30cm deep in corner of Grid, painting with Grid No. etc. complete (3 pillars Rs.75/- for each pillar)	0.00	0.00	225.00	225.00	0.00	0.00	2250.00	2250.00
	e.) Clearing of bushes and preparation of site (As per requirement)	10.00	4479.60	91.00	4570.60	100.00	44796.00	910.00	45706.00
2	Soil and moisture conservation works including collection of rubbles from areas upto 30 m etc	31.00	13886.76	0.00	13886.76	310.00	138867.60	0.00	138867.60
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. leadplus 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 50mm x 50m, 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	0.00	0.00	1828656.00	1828656.00

Sr. No.	Particulars of works	Area : 1.00 Ha.					Area : 10.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total		
4	Alignment of pits at 3m x 3m spacement 1111 pits per ha. (0.25 per 100 pits and M&S @ Rs.2.24 per 50 pits.	2.78	1245.33	49.77	1295.10	27.80	12453.29	497.70	12950.99		
5	Digging of pits of size 0.45 x 0.45 x 0.45 m (1111 pits per ha) 6.60 M.D. per 100 pits. Note :- As per local conditions provision for mechanized digging can be made.	73.33	32848.91	0.00	32848.91	733.30	328489.07	0.00	328489.07		
6	Construction of 5.00 Km wide Inspection Path 1M.D. per 100 Km	1.00	447.96	0.00	447.96	10.00	4479.60	0.00	4479.60		
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	335.97	25.00	360.97	7.50	3359.70	250.00	3609.70		
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	5000.00	5000.00		
9	Part Nursery cost of raising 1333 seedlings per ha (including 20% casualty replacement) in polygons of size 12.50 x 25.00 cm (wages Rs. 11.90 and M & S Rs. 3.62 per palm)	46.71	20924.21	4825.46	25749.67	467.10	209242.12	48254.60	257496.72		
<b>Total</b>		<b>167.97</b>	<b>75243.84</b>	<b>193263.83</b>	<b>268507.67</b>	<b>1679.70</b>	<b>752438.41</b>	<b>1887638.30</b>	<b>2640076.71</b>		
Contingency 3%					8055.23				79202.30		
Labour Welfare 4%					10740.31				105603.07		
<b>Grand Total</b>		<b>167.97</b>	<b>75243.84</b>	<b>193263.83</b>	<b>287303.21</b>	<b>1679.70</b>	<b>752438.41</b>	<b>1887638.30</b>	<b>2874882.08</b>		

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 10.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
1	Part Nursery cost for maintenance of 1333 seedling per ha Rs.3.77 per seedling (Wages Rs.2.69, M & S Rs. 0.8)	14.80	6629.81	1079.73	7709.54	148.00	66298.08	10797.30	77095.38
2	Refilling of pits by good quality soil including application of single super phosphate (1.66 MID per 100 pits)	18.44	8260.38	1944.25	10204.63	184.40	82603.82	19442.50	102046.32
3	Transportation of 1333 seedlings from Nursery to plantation site including loading & unloading (0.14 M.D. per 100 seedlings & M.S. Rs.1.82 per seedlings)	1.87	837.69	2426.00	3263.69	18.70	8376.85	24260.00	32636.85
4	Planting of 1111 seedlings (1.0 M.D. per 100 seedlings)	11.11	4976.84	0.00	4976.84	111.10	49768.36	0.00	49768.36
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	19907.34	911.02	20818.36	444.40	199073.42	9110.20	208183.62
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/ marka @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	26541.63	54395.00	80936.63	592.50	265416.30	543950.00	809366.30
7	Casualty replacement (20% 222 Seedlings per ha.) (2 M.D. per 100 Seedlings)	4.44	1988.94	0.00	1988.94	44.40	19889.42	0.00	19889.42
8	Part Nursery cost for causality replacement in SYO (222 Seedlings per ha.) (wages Rs. 11.90 and material supply Rs.3.62 total Rs.12.55 per seedling)	7.77	3480.65	803.64	4284.29	77.70	34806.49	8036.40	42842.89
9	Watch and ward (10 months - 1 watcher per 10 ha )	27.38	12265.14	0.00	12265.14	273.80	122651.45	0.00	122651.45
10	Soil working for naturally grower plants and singling (1.15 M.D per 100 plants)	1.15	515.15	10.00	525.15	11.50	5151.54	100.00	5251.54
11	Fire tracing	2.00	895.92	0.00	895.92	20.00	8959.20	0.00	8959.20
Total		192.65	86299.49	61569.64	147869.13	1926.50	862994.94	615696.40	1478691.34
Contingency 3%					4436.07				44360.74
Labour- Welfare 4%					5914.77				59147.65
Grand Total		192.65	86299.49	61569.64	158219.97	1926.50	862994.94	615696.40	1582199.73

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 10.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
1	Part nursery cost for seedlings for causality replacement 222 seedlings per ha) labour rate @Rs. 3.77 M.S.Rs.1.82 per seedlings.	2.46	1101.98	404.00	1505.98	24.60	11019.82	4040.00	15059.82
2	Transportation of 222 seedlings for causality replacement from nursery to plantation site (including loading and unloading) wages 0.14 M.D per 100 Seedling & M.S.Rs. 1.82 per seedlings	0.31	138.87	404.04	542.91	3.10	1388.68	4040.40	5429.08
3	Planting for causality replacement 222 seedlings (2.00 M.D. per 100 seedlings)	4.44	1988.94	0.00	1988.94	44.40	19889.42	0.00	19889.42
4	2 Weeding and 1 soil working with fertilizer application 2.5 M.D. per 100 seedlings at M.S.Rs.0.82 per seedling	27.77	12439.85	911.02	13350.87	277.70	124398.49	9110.20	133508.69
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 / mada @Rs.25/- each replacing 111 cans/mada, supplying water @Rs.0.50/- per litre and watering 150 seedlings per M.D.	88.88	39814.68	36105.00	75919.68	888.80	398146.85	361050.00	759196.85
6	Watch and ward 12 months - 1 watcher per 10.00 ha	36.50	16350.54	0.00	16350.54	365.00	163505.40	0.00	163505.40
7	Fire tracing	2.00	895.92	0.00	895.92	20.00	8959.20	0.00	8959.20
	<b>Total</b>	<b>162.360</b>	<b>72730.79</b>	<b>37824.06</b>	<b>110554.85</b>	<b>1623.60</b>	<b>727307.86</b>	<b>378240.60</b>	<b>1105548.46</b>
	Contingency 3%				3316.65				33166.45
	Labour Welfare 4%				4422.19				44221.94
	<b>Grand Total</b>	<b>162.36</b>	<b>72730.79</b>	<b>37824.06</b>	<b>118293.68</b>	<b>1623.60</b>	<b>727307.86</b>	<b>378240.60</b>	<b>1182936.85</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 10.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>D. Third Year Operations</b>									
1	1 weeding and 1 soil working (1.50 M.D per 100 seedlings) applying fertilizer @ Rs.0.82 per plant.	16.67	7467.49	911.02	8378.51	166.70	74674.93	9110.20	83785.13
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	19925.26	16680.00	36605.26	444.80	199252.61	166800.00	366052.61
3	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16350.54	0.00	16350.54	365.00	163505.40	0.00	163505.40
4	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	895.92	25.00	920.92	20.00	8959.20	250.00	9209.20
5	Fire tracing	2.00	895.92	0.00	895.92	20.00	8959.20	0.00	8959.20
	<b>Total</b>	<b>101.65</b>	<b>45535.13</b>	<b>17616.02</b>	<b>63151.15</b>	<b>1016.50</b>	<b>455351.34</b>	<b>176160.20</b>	<b>631511.54</b>
	Contingency 3%				1894.53				18945.35
	Labour Welfare 4%				2526.05				25260.46
	<b>Grand Total</b>	<b>101.65</b>	<b>45535.13</b>	<b>17616.02</b>	<b>67571.73</b>	<b>1016.50</b>	<b>455351.34</b>	<b>176160.20</b>	<b>675717.35</b>
<b>E. Fourth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16350.54	0.00	16350.54	365.00	163505.40	0.00	163505.40
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	895.92	25.00	920.92	20.00	8959.20	250.00	9209.20
3	Fire Tracing	2.00	895.92	0.00	895.92	20.00	8959.20	0.00	8959.20
	<b>Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>18167.38</b>	<b>405.00</b>	<b>181423.80</b>	<b>250.00</b>	<b>181673.80</b>
	Contingency 3%				545.02				5450.21
	Labour Welfare 4%				726.70				7266.95
	<b>Grand Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>19439.10</b>	<b>405.00</b>	<b>181423.80</b>	<b>250.00</b>	<b>194390.97</b>
<b>F. Fifth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16350.54	0.00	16350.54	365.00	163505.40	0.00	163505.40
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	895.92	25.00	920.92	20.00	8959.20	250.00	9209.20
3	Fire Tracing	2.00	895.92	0.00	895.92	20.00	8959.20	0.00	8959.20
	<b>Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>18167.38</b>	<b>405.00</b>	<b>181423.80</b>	<b>250.00</b>	<b>181673.80</b>
	Contingency 3%				545.02				5450.21
	Labour Welfare 4%				726.70				7266.95
	<b>Grand Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>19439.10</b>	<b>405.00</b>	<b>181423.80</b>	<b>250.00</b>	<b>194390.97</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 10.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>G. Sixth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16350.54	0.00	16350.54	365.00	163505.40	0.00	163505.40
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	895.92	25.00	920.92	20.00	8959.20	250.00	9209.20
3	Fire Tracing	2.00	895.92	0.00	895.92	20.00	8959.20	0.00	8959.20
	<b>Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>18167.38</b>	<b>405.00</b>	<b>181423.80</b>	<b>250.00</b>	<b>181673.80</b>
	Contingency 3%			0.00	545.02			0.00	5450.21
	Labour Welfare 4%			0.00	726.70			0.00	7266.95
	<b>Grand Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>19439.10</b>	<b>405.00</b>	<b>181423.80</b>	<b>250.00</b>	<b>194390.97</b>
<b>H. Seventh Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16350.54	0.00	16350.54	365.00	163505.40	0.00	163505.40
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	895.92	25.00	920.92	20.00	8959.20	250.00	9209.20
3	Fire Tracing	2.00	895.92	0.00	895.92	20.00	8959.20	0.00	8959.20
	<b>Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>18167.38</b>	<b>405.00</b>	<b>181423.80</b>	<b>250.00</b>	<b>181673.80</b>
	Contingency 3%			0.00	545.02			0.00	5450.21
	Labour Welfare 4%			0.00	726.70			0.00	7266.95
	<b>Grand Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>19439.10</b>	<b>405.00</b>	<b>181423.80</b>	<b>250.00</b>	<b>194390.97</b>
<b>I. Eight Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16350.54	0.00	16350.54	365.00	163505.40	0.00	163505.40
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	895.92	25.00	920.92	20.00	8959.20	250.00	9209.20
3	Fire Tracing	2.00	895.92	0.00	895.92	20.00	8959.20	0.00	8959.20
	<b>Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>18167.38</b>	<b>405.00</b>	<b>181423.80</b>	<b>250.00</b>	<b>181673.80</b>
	Contingency 3%			0.00	545.02			0.00	5450.21
	Labour Welfare 4%			0.00	726.70			0.00	7266.95
	<b>Grand Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>19439.10</b>	<b>405.00</b>	<b>181423.80</b>	<b>250.00</b>	<b>194390.97</b>

Sl. No.	Particulars of works	Area : 1.00 Ha.				Area : 10.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>J. Nine Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16350.54	0.00	16350.54	365.00	163505.40	0.00	163505.40
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	895.92	25.00	920.92	20.00	8959.20	250.00	9209.20
3	Fire Tracing	2.00	895.92	0.00	895.92	20.00	8959.20	0.00	8959.20
	<b>Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>18167.38</b>	<b>405.00</b>	<b>181423.80</b>	<b>250.00</b>	<b>181673.80</b>
	Contingency 3%		0.00	0.00	545.02		0.00	0.00	5450.21
	Labour Welfare 4%		0.00	0.00	726.70		0.00	0.00	7266.95
	<b>Grand Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>19439.10</b>	<b>405.00</b>	<b>181423.80</b>	<b>250.00</b>	<b>194390.97</b>
<b>K. Tenth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16350.54	0.00	16350.54	365.00	163505.40	0.00	163505.40
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	895.92	25.00	920.92	20.00	8959.20	250.00	9209.20
3	Fire Tracing	2.00	895.92	0.00	895.92	20.00	8959.20	0.00	8959.20
	<b>Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>18167.38</b>	<b>405.00</b>	<b>181423.80</b>	<b>250.00</b>	<b>181673.80</b>
	Contingency 3%		0.00	0.00	545.02		0.00	0.00	5450.21
	Labour Welfare 4%		0.00	0.00	726.70		0.00	0.00	7266.95
	<b>Grand Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>19439.10</b>	<b>405.00</b>	<b>181423.80</b>	<b>250.00</b>	<b>194390.97</b>

(Keshav Wable)  
Deputy Conservator of Forests,  
Nanded Forest Division,  
Nanded.

**Abstract for Model No. 5**  
**Fencing and Irrigated Plantations**  
**Model Rate Structure for Compensatory Afforestation**

Sr. No.	Year of Operation	Area : 1.00 ha. @ wage rate rs. 447.96/day				Village Neki Area : 15.00 ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
1	Pre Monsoon Works	167.97	75243.84	193263.83	287303.21	2519.55	1128657.62	2828957.45	4234648.12
2	First Year Operations	192.65	85299.49	61569.64	158219.97	2889.75	1294492.41	923544.60	2373299.60
3	Second Year Operations	162.36	72730.79	37824.06	118293.68	2435.40	1090961.78	567360.90	1774403.27
4	Third Year Operations	101.65	45535.13	17616.02	67571.73	1524.75	685027.01	264240.30	1013576.02
5	Fourth Year Operations	40.50	18142.38	25.00	19439.10	607.50	272135.70	375.00	291586.45
6	Fifth Year Operations	40.50	18142.38	25.00	19439.10	607.50	272135.70	375.00	291586.45
7	Sixth Year Operations	40.50	18142.38	25.00	19439.10	607.50	272135.70	375.00	291586.45
8	Seventh Year Operations	40.50	18142.38	25.00	19439.10	607.50	272135.70	375.00	291586.45
9	Eight Year Operations	40.50	18142.38	25.00	19439.10	607.50	272135.70	375.00	291586.45
10	Ninth Year Operations	40.50	18142.38	25.00	19439.10	607.50	272135.70	375.00	291586.45
11	Tenth Year Operations	40.50	18142.38	25.00	19439.10	607.50	272135.70	375.00	291586.45
	<b>Total</b>	<b>908.13</b>	<b>406805.91</b>	<b>310448.55</b>	<b>767462.28</b>	<b>13621.95</b>	<b>6102088.72</b>	<b>4586728.25</b>	<b>11437034.16</b>

(Keshav Wable)  
 Deputy Conservator of Forests,  
 Mandel Forest Division,  
 Mandel.



Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 15.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
4	Alignment of pits at 3m x 3m spacement 1111 pits per ha. (0.25 per 100 pits and M&S @ Rs 2.24 per 50 pits.	2.78	1245.33	49.77	1295.10	41.70	18679.93	746.55	19426.48
5	Digging of pits of size 0.45 x 0.45 x 0.45 m (1111 pits per ha) 6.60 M.D. per 100 pits. Note :- As per local conditions provision for mechanized digging can be made.	73.33	32848.91	0.00	32848.91	1099.95	492733.60	0.00	492733.60
6	Construction of 5.00 Rmt wide Inspection Path IM.D. per 100 Rmt	1.00	447.96	0.00	447.96	15.00	6719.40	0.00	6719.40
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	335.97	25.00	360.97	11.25	5039.55	375.00	5414.55
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	5000.00	5000.00
9	Part Nursery cost of raising 1333 seedlings per ha (including 20% casualty replacement) in polygons of size 12.50 x 25.00 cm (wages Rs. 11.90 and M & S Rs. 3.62 per palm)	46.71	20924.21	4825.46	25749.67	700.55	313863.17	72381.90	386245.07
	<b>Total</b>	<b>167.97</b>	<b>75243.84</b>	<b>193263.83</b>	<b>268507.67</b>	<b>2519.55</b>	<b>1128657.62</b>	<b>2828957.45</b>	<b>3957615.07</b>
	Contingency 3%				8055.23				118728.45
	Labour Welfare 4%				10740.31				158304.60
	<b>Grand Total</b>	<b>167.97</b>	<b>75243.84</b>	<b>193263.83</b>	<b>287303.21</b>	<b>2519.55</b>	<b>1128657.62</b>	<b>2828957.45</b>	<b>4234648.12</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 15.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>B. First Year Operations</b>									
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	6629.81	1079.73	7709.54	222.00	99447.12	16195.55	115643.07
2	Refilling of pits by good quality soil including application of single super phosphate (1.66 MID per 100 pits)	18.44	8260.38	1944.25	10204.63	276.60	123905.74	29163.75	153069.49
3	Transportation of 1333 seedlings from Nursery to plantation site including loading & unloading (0.14 M.D. per 100 seedlings & M.S. Rs.1.82 per seedlings)	1.87	837.69	2426.00	3263.69	28.05	12565.28	36390.00	48955.28
4	Planting of 1111 seedlings (1.0 M.D. per 100 seedlings)	11.11	4976.84	0.00	4976.84	166.65	74652.53	0.00	74652.53
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	19907.34	911.02	20818.36	666.60	298610.14	13665.30	312275.44
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/ maka @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	26541.63	54395.00	80936.63	888.75	398124.45	815925.00	1214049.45
7	Casualty replacement (20% 222 Seedlings per ha, (2 M.D. per 100 Seedlings)	4.44	1988.94	0.00	1988.94	66.60	29834.14	0.00	29834.14
8	Part Nursery cost for causality replacement in SYO (222 Seedlings per ha.) (wages Rs. 11.90 and material supply Rs. 3.62 total Rs.12.55 per seedling)	7.77	3480.65	803.64	4284.29	116.55	52209.74	12054.60	64264.34
9	Watch and ward (10 months - 1 watcher per 10 ha )	27.38	12265.14	0.00	12265.14	410.70	183977.17	0.00	183977.17
10	Soil working for naturally grower plants and singling (1.15 M.D per 100 plants)	1.15	515.15	10.00	525.15	17.25	7727.31	150.00	7877.31
11	Fire tracing	2.00	895.92	0.00	895.92	30.00	13438.80	0.00	13438.80
<b>Total</b>		<b>192.65</b>	<b>86299.49</b>	<b>61569.64</b>	<b>147869.13</b>	<b>2889.75</b>	<b>1294492.41</b>	<b>923544.60</b>	<b>2218037.01</b>
Contingency 3%					4436.07				66541.11
Labour Welfare 4%					5914.77				88721.48
<b>Grand Total</b>		<b>192.65</b>	<b>86299.49</b>	<b>61569.64</b>	<b>158219.97</b>	<b>2889.75</b>	<b>1294492.41</b>	<b>923544.60</b>	<b>2373299.60</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 15.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>C. Second Year Operations</b>									
1	Part nursery cost for seedlings for causality replacement (222 seedlings per ha) labour rate @Rs. 3.77 M.S.Rs.1.82 per seedlings.	2.46	1101.98	404.00	1505.98	36.90	16529.72	6060.00	22589.72
2	Transportation of 222 seedlings for causality replacement from nursery to plantation site (including loading and unloading) wages 0.14 M.D per 100 Seedling & M.S.Rs. 1.82 per seedlings	0.31	138.87	404.04	542.91	4.65	2083.01	6060.60	8143.61
3	Planting for causality replacement 222 seedlings (2.00 M.D. per 100 seedlings)	4.44	1988.94	0.00	1988.94	66.60	29834.14	0.00	29834.14
4	2 Weedings and 1 soil working, with fertilizer application 2.5 M.D. per 100 seedlings at M.S.Rs.0.82 per seedling	27.77	12439.85	911.02	13350.87	416.55	186597.74	13665.30	200263.04
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	39814.68	36135.00	75919.68	1333.20	\$97220.27	\$41575.00	1138795.27
6	Watch and ward 12 months - 1 watcher per 10.00 ha	36.50	16350.54	0.00	16350.54	547.50	245258.10	0.00	245258.10
7	Fire tracing	2.00	895.92	0.00	895.92	30.00	13438.80	0.00	13438.80
	<b>Total</b>	<b>162.360</b>	<b>72730.79</b>	<b>37824.06</b>	<b>110554.85</b>	<b>2435.40</b>	<b>1090961.78</b>	<b>567360.90</b>	<b>1638322.68</b>
	Contingency 3%				3316.65				49749.68
	Labour Welfare 4%				4422.19				66332.91
	<b>Grand Total</b>	<b>162.36</b>	<b>72730.79</b>	<b>37824.06</b>	<b>118293.68</b>	<b>2435.40</b>	<b>1090961.78</b>	<b>567360.90</b>	<b>1774405.27</b>

Sr. No. Particulars of works Area : 1.00 Ha. Area : 15.00 Ha.

**D. Third Year Operations**

Sr. No.	Particulars of works	Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
1	1 weeding and 1 soil working (1.50 MLD per 100 seedlings) applying fertilizer @ Rs.0.82 per plant.	16.67	7467.49	911.02	8378.51	250.05	112012.40	13665.30	125677.70
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 MLD.	44.48	19925.26	16680.00	36605.26	667.20	238878.91	250200.00	549078.91
3	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16350.54	0.00	16350.54	547.50	245258.10	0.00	245258.10
4	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	895.92	25.00	920.92	30.00	13438.80	375.00	13813.80
5	Fire tracing	2.00	895.92	0.00	895.92	30.00	13438.80	0.00	13438.80
	<b>Total</b>	<b>101.65</b>	<b>45535.13</b>	<b>17616.02</b>	<b>63151.15</b>	<b>1524.75</b>	<b>683027.01</b>	<b>264240.30</b>	<b>947267.31</b>
	Contingency 3%				1894.53				28418.02
	Labour Welfare 4%				2526.05				37890.69
	<b>Grand Total</b>	<b>101.65</b>	<b>45535.13</b>	<b>17616.02</b>	<b>67571.73</b>	<b>1524.75</b>	<b>683027.01</b>	<b>264240.30</b>	<b>1013576.02</b>

**E. Fourth Year Operations**

1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16350.54	0.00	16350.54	547.50	245258.10	0.00	245258.10
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	895.92	25.00	920.92	30.00	13438.80	375.00	13813.80
3	Fire Tracing	2.00	895.92	0.00	895.92	30.00	13438.80	0.00	13438.80
	<b>Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>18167.38</b>	<b>607.50</b>	<b>272135.70</b>	<b>375.00</b>	<b>272510.70</b>
	Contingency 3%				545.02				8175.32
	Labour Welfare 4%				726.70				10900.45
	<b>Grand Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>19439.10</b>	<b>607.50</b>	<b>272135.70</b>	<b>375.00</b>	<b>291586.45</b>

**F. Fifth Year Operations**

1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16350.54	0.00	16350.54	547.50	245258.10	0.00	245258.10
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	895.92	25.00	920.92	30.00	13438.80	375.00	13813.80
3	Fire Tracing	2.00	895.92	0.00	895.92	30.00	13438.80	0.00	13438.80
	<b>Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>18167.38</b>	<b>607.50</b>	<b>272135.70</b>	<b>375.00</b>	<b>272510.70</b>
	Contingency 3%				545.02				8175.32
	Labour Welfare 4%				726.70				10900.43
	<b>Grand Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>19439.10</b>	<b>607.50</b>	<b>272135.70</b>	<b>375.00</b>	<b>291586.45</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 15.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>G. Sixth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16350.54	0.00	16350.54	547.50	245258.10	0.00	245258.10
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	895.92	25.00	920.92	30.00	13438.80	375.00	13813.80
3	Fire Tracing	2.00	895.92	0.00	895.92	30.00	13438.80	0.00	13438.80
	<b>Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>18167.38</b>	<b>607.50</b>	<b>272135.70</b>	<b>375.00</b>	<b>272510.70</b>
	Contingency 3%			0.00	545.02			0.00	8175.32
	Labour Welfare 4%			0.00	726.70			0.00	10900.43
	<b>Grand Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>19439.10</b>	<b>607.50</b>	<b>272135.70</b>	<b>375.00</b>	<b>291586.45</b>
<b>H. Seventh Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16350.54	0.00	16350.54	547.50	245258.10	0.00	245258.10
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	895.92	25.00	920.92	30.00	13438.80	375.00	13813.80
3	Fire Tracing	2.00	895.92	0.00	895.92	30.00	13438.80	0.00	13438.80
	<b>Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>18167.38</b>	<b>607.50</b>	<b>272135.70</b>	<b>375.00</b>	<b>272510.70</b>
	Contingency 3%			0.00	545.02			0.00	8175.32
	Labour Welfare 4%			0.00	726.70			0.00	10900.43
	<b>Grand Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>19439.10</b>	<b>607.50</b>	<b>272135.70</b>	<b>375.00</b>	<b>291586.45</b>
<b>I. Eight Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16350.54	0.00	16350.54	547.50	245258.10	0.00	245258.10
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	895.92	25.00	920.92	30.00	13438.80	375.00	13813.80
3	Fire Tracing	2.00	895.92	0.00	895.92	30.00	13438.80	0.00	13438.80
	<b>Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>18167.38</b>	<b>607.50</b>	<b>272135.70</b>	<b>375.00</b>	<b>272510.70</b>
	Contingency 3%			0.00	545.02			0.00	8175.32
	Labour Welfare 4%			0.00	726.70			0.00	10900.43
	<b>Grand Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>19439.10</b>	<b>607.50</b>	<b>272135.70</b>	<b>375.00</b>	<b>291586.45</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 15.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>J. Nine Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16350.54	0.00	16350.54	547.50	245258.10	0.00	245258.10
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	895.92	25.00	920.92	30.00	13438.80	375.00	13813.80
3	Fire Tracing	2.00	895.92	0.00	895.92	30.00	13438.80	0.00	13438.80
	<b>Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>18167.38</b>	<b>607.50</b>	<b>272135.70</b>	<b>375.00</b>	<b>272510.70</b>
	Contingency 3%			0.00	545.02			0.00	8175.32
	Labour Welfare 4%			0.00	726.70			0.00	10900.43
	<b>Grand Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>19439.10</b>	<b>607.50</b>	<b>272135.70</b>	<b>375.00</b>	<b>291586.45</b>
<b>K. Tenth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16350.54	0.00	16350.54	547.50	245258.10	0.00	245258.10
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	895.92	25.00	920.92	30.00	13438.80	375.00	13813.80
3	Fire Tracing	2.00	895.92	0.00	895.92	30.00	13438.80	0.00	13438.80
	<b>Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>18167.38</b>	<b>607.50</b>	<b>272135.70</b>	<b>375.00</b>	<b>272510.70</b>
	Contingency 3%			0.00	545.02			0.00	8175.32
	Labour Welfare 4%			0.00	726.70			0.00	10900.43
	<b>Grand Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>19439.10</b>	<b>607.50</b>	<b>272135.70</b>	<b>375.00</b>	<b>291586.45</b>

  
 (Keshav Wable)  
 Deputy Conservator of Forests,  
 Nanded Forest Division,  
 Nanded.

**Abstract for Model No. 5**  
**Fencing and Irrigated Plantations**  
**Model Rate Structure for Compensatory Afforestation**

Sr. No.	Year of Operation	Area : 1.00 ha. @ wage rate rs. 447.96 /day				Village - Paki Area : 10.00 ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
1	Pre Monsoon Works	167.97	75243.84	193263.83	287303.21	1679.70	752438.41	1887638.30	2824882.08
2	First Year Operations	192.65	86299.49	61569.64	158219.97	1926.50	862994.94	615696.40	1582199.73
3	Second Year Operations	162.36	72730.79	37824.06	118293.68	1623.60	727307.86	378240.60	1182936.85
4	Third Year Operations	101.65	45535.13	17616.02	67571.73	1016.50	455351.34	176160.20	675717.35
5	Fourth Year Operations	40.50	18142.38	25.00	19439.10	405.00	181423.80	250.00	194390.97
6	Fifth Year Operations	40.50	18142.38	25.00	19439.10	405.00	181423.80	250.00	194390.97
7	Sixth Year Operations	40.50	18142.38	25.00	19439.10	405.00	181423.80	250.00	194390.97
8	Seventh Year Operations	40.50	18142.38	25.00	19439.10	405.00	181423.80	250.00	194390.97
9	Eight Year Operations	40.50	18142.38	25.00	19439.10	405.00	181423.80	250.00	194390.97
10	Ninth Year Operations	40.50	18142.38	25.00	19439.10	405.00	181423.80	250.00	194390.97
11	Tenth Year Operations	40.50	18142.38	25.00	19439.10	405.00	181423.80	250.00	194390.97
	<b>Total</b>	<b>908.13</b>	<b>406805.91</b>	<b>310448.55</b>	<b>767462.28</b>	<b>9081.30</b>	<b>4068059.15</b>	<b>3059485.50</b>	<b>7626472.77</b>

(Keshav Wable)  
 Deputy Conservator of Forests,  
 Nanded Forest Division,  
 Nanded.

Fencing and Irrigated Plantations

Model rate structure for plantation of mixed tree species having min/fall less than 800 mm and medium quality, medium drained soil.

Village - Pakl Compt No. 359, Sur/Gut No. 44 / 75, Taluka - Bhokar Dist. Nanded

Sr. No.	Particulars of works	Area : 1.00 Ha.		Area : 10.00 Ha.					
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
A. Pre Monsoon Works PPO/PYO									
1	a.) Survey and demarcation	1.00	447.96	91.00	538.96	10.00	4479.60	910.00	5389.60
	b.) Preparation of treatment map (100 m x 50 m grid)	1.00	447.96	91.00	538.96	10.00	4479.60	910.00	5389.60
	c.) Digging trial pits of size 0.30 x 0.30 x 0.60 in corner of Grid.	0.40	179.18	0.00	179.18	4.00	1791.84	0.00	1791.84
	d.) Fixing 60cm x 0.65cm x 12 cm cement pillars upto 30cm 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	0.00	0.00	2250.00	2250.00
e.) Clearing of bushes and preparation of site (As per requirement)									
2	Soil and moisture conservation works including collection of rubbles from areas upto 30 m etc	31.00	13886.76	0.00	13886.76	310.00	138867.60	0.00	138867.60
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. leadplus 20% for trial/remote area (3y' tender process.) (Rs.1494+149+143)= 1792/- per Rmt (1.60 Rmt height with G.I Chain link size 50mm x 50m, 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	0.00	0.00	1828656.00	1828656.00

Sr. No.	Particulars of works	Area : 1.00 Ha.					Area : 10.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total		
4	Alignment of pits at 3m x 3m spacing (1111 pits per ha. @ 0.25 per 100 pits and M&S @ Rs. 2.24 per 50 pits.	2.78	1245.33	49.77	1295.10	27.80	12453.29	497.70	12950.99		
5	Digging of pits of size 0.45 x 0.45 x 0.45 m (1111 pits per ha) 6.60 M.D. per 100 pits. Note :- As Per local conditions provision for mechanized digging can be made.	73.33	32848.91	0.00	32848.91	733.30	328489.07	0.00	328489.07		
6	Construction of 5.00 Rmt wide Inspection Path 1M.D. per 100 Rmt	1.00	447.96	0.00	447.96	10.00	4479.60	0.00	4479.60		
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	335.97	25.00	360.97	7.50	3359.70	250.00	3609.70		
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	5000.00	5000.00		
9	Part Nursery cost of raising 1333 seedlings per ha (including 20% casualty replacement) in polygons of size 12.50 x 25.00 cm (wages Rs. 11.90 and M & S Rs. 3.62 per plant)	46.71	20924.21	4825.46	25749.67	467.10	209242.12	48254.60	257496.72		
<b>Total</b>		<b>167.97</b>	<b>75243.84</b>	<b>193763.83</b>	<b>268507.67</b>	<b>1679.70</b>	<b>752438.41</b>	<b>1887638.30</b>	<b>2640076.71</b>		
Contingency 3%					8055.23				79202.30		
Labour Welfare 4%					10740.31				105603.07		
<b>Grand Total</b>		<b>167.97</b>	<b>75243.84</b>	<b>193763.83</b>	<b>287303.21</b>	<b>1679.70</b>	<b>752438.41</b>	<b>1887638.30</b>	<b>2824882.08</b>		

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 10.00 Ha.			
		Main days	Wages	Material Supply	Total	Main days	Wages	Material Supply	Total
<b>B. First Year Operations</b>									
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	6629.81	1079.73	7709.54	148.00	66298.08	10797.30	77095.38
2	Refilling of pits by good quality soil including application of single super phosphate (1.66 MID per 100 pits)	18.44	8260.38	1944.25	10204.63	184.40	82603.82	19442.50	102046.32
3	Transportation of 1333 seedlings from Nursery to plantation site including loading & unloading (0.14 M.D. per 100 seedlings & M.S. Rs.1.82 per seedlings)	1.87	837.69	2426.00	3263.69	18.70	8376.85	24260.00	32636.85
4	Planting of 1111 seedlings (1.0 M.D. per 100 seedlings)	11.11	4976.84	0.00	4976.84	111.10	49768.36	0.00	49768.36
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	19907.34	911.02	20818.36	444.40	199073.42	9110.20	208183.62
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	26541.63	54395.00	80936.63	592.50	265416.30	543950.00	809366.30
7	Casualty replacement (20% 222 Seedlings per ha.) (2 M.D. per 100 Seedlings)	4.44	1988.94	0.00	1988.94	44.40	19889.42	0.00	19889.42
8	Part Nursery cost for causality replacement in SYO (222 Seedlings per ha.) (wages Rs. 11.90 and material supply Rs.3.62 total Rs.12.55 per seedling)	7.77	3480.65	803.64	4284.29	77.70	34806.49	8036.40	42842.89
9	Watch and ward (10 months - 1 watcher per 10 ha )	27.38	12265.14	0.00	12265.14	273.80	122651.45	0.00	122651.45
10	Soil working for naturally grower plants and singling (1.15 M.D. per 100 plants)	1.15	515.15	10.00	525.15	11.50	5151.54	100.00	5251.54
11	Fire tracing	2.00	895.92	0.00	895.92	20.00	8959.20	0.00	8959.20
	<b>Total</b>	<b>192.65</b>	<b>86299.49</b>	<b>61569.64</b>	<b>147869.13</b>	<b>1926.50</b>	<b>862994.94</b>	<b>615696.40</b>	<b>1478691.34</b>
	Contingency 3%				4436.07				4436.07
	Labour Welfare 4%				5914.77				5914.77
	<b>Grand Total</b>	<b>192.65</b>	<b>86299.49</b>	<b>61569.64</b>	<b>158219.97</b>	<b>1926.50</b>	<b>862994.94</b>	<b>615696.40</b>	<b>1582199.73</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 10.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>C. Second Year Operations</b>									
1	Part nursery cost for seedlings for causality replacement (222 seedlings per ha) labour rate @Rs. 3 77 M.S. Rs.1.82 per seedlings.	2.46	1101.98	404.00	1505.98	24.60	11019.82	4040.00	15059.82
2	Transportation of 222 seedlings for causality replacement from nursery to plantation site (including loading and unloading) wages 0.14 M.D per 100 Seedling & M.S. Rs. 1.82 per seedlings	0.31	138.87	404.04	542.91	3.10	1388.68	4040.40	5429.08
3	Planting for causality replacement 222 seedlings (2.00 M.D. per 100 seedlings)	4.44	1988.94	0.00	1988.94	44.40	19889.42	0.00	19889.42
4	2 Weedings and 1 soil working, with fertilizer application 2.5 M.D. per 100 seedlings at M.S. Rs.0.82 per seedling	27.77	12459.85	911.02	13350.87	277.70	124598.49	9110.20	133508.69
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	39814.68	36105.00	75919.68	888.80	398146.85	361050.00	759196.85
6	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	16350.54	0.00	16350.54	365.00	163505.40	0.00	163505.40
7	Fire tracing	2.00	895.92	0.00	895.92	20.00	8959.20	0.00	8959.20
	<b>Total</b>	<b>162.360</b>	<b>72730.79</b>	<b>37824.06</b>	<b>110554.85</b>	<b>1623.60</b>	<b>727307.86</b>	<b>378240.60</b>	<b>1105548.46</b>
	Contingency 3%				3316.65				33166.45
	Labour Welfare 4%				4422.19				44221.94
	<b>Grand Total</b>	<b>162.36</b>	<b>72730.79</b>	<b>37824.06</b>	<b>118293.68</b>	<b>1623.60</b>	<b>727307.86</b>	<b>378240.60</b>	<b>1182936.85</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 10.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>D. Third Year Operations</b>									
1	1 weeding and 1 soil working (1.50 M.D per 100 seedlings) applying fertilizer (@ Rs 0.82 per plant.	16.67	7467.49	911.02	8378.51	166.70	74674.93	9110.20	83785.13
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 liter, water supply @ Rs.0.50/- liter and watering 150 seedlings per M.D.	44.48	19925.26	16680.00	36605.26	444.80	199252.61	166800.00	366052.61
3	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16350.54	0.00	16350.54	365.00	163505.40	0.00	163505.40
4	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	895.92	25.00	920.92	20.00	8959.20	250.00	9209.20
5	Fire tracing	2.00	895.92	0.00	895.92	20.00	8959.20	0.00	8959.20
	<b>Total</b>	<b>101.65</b>	<b>45535.13</b>	<b>17616.02</b>	<b>63151.15</b>	<b>1016.50</b>	<b>455351.34</b>	<b>176160.20</b>	<b>631511.54</b>
	Contingency 3%				1894.53				18945.35
	Labour Welfare 4%				2526.05				25260.46
	<b>Grand Total</b>	<b>101.65</b>	<b>45535.13</b>	<b>17616.02</b>	<b>67571.73</b>	<b>1016.50</b>	<b>455351.34</b>	<b>176160.20</b>	<b>675717.35</b>
<b>E. Fourth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16350.54	0.00	16350.54	365.00	163505.40	0.00	163505.40
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	895.92	25.00	920.92	20.00	8959.20	250.00	9209.20
3	Fire Tracing	2.00	895.92	0.00	895.92	20.00	8959.20	0.00	8959.20
	<b>Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>18167.38</b>	<b>405.00</b>	<b>181423.80</b>	<b>250.00</b>	<b>181673.80</b>
	Contingency 3%				545.02				5450.21
	Labour Welfare 4%				726.70				7266.95
	<b>Grand Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>19439.10</b>	<b>405.00</b>	<b>181423.80</b>	<b>250.00</b>	<b>194390.97</b>
<b>F. Fifth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16350.54	0.00	16350.54	365.00	163505.40	0.00	163505.40
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	895.92	25.00	920.92	20.00	8959.20	250.00	9209.20
3	Fire Tracing	2.00	895.92	0.00	895.92	20.00	8959.20	0.00	8959.20
	<b>Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>18167.38</b>	<b>405.00</b>	<b>181423.80</b>	<b>250.00</b>	<b>181673.80</b>
	Contingency 3%				545.02				5450.21
	Labour Welfare 4%				726.70				7266.95
	<b>Grand Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>19439.10</b>	<b>405.00</b>	<b>181423.80</b>	<b>250.00</b>	<b>194390.97</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 10.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>G. Sixth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16350.54	0.00	16350.54	365.00	163505.40	0.00	163505.40
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	895.92	25.00	920.92	20.00	8959.20	250.00	9209.20
3	Fire Tracing	2.00	895.92	0.00	895.92	20.00	8959.20	0.00	8959.20
	<b>Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>18167.38</b>	<b>405.00</b>	<b>181423.80</b>	<b>250.00</b>	<b>181673.80</b>
	Contingency 3%			0.00	545.02			0.00	5450.21
	Labour Welfare 4%			0.00	726.70			0.00	7266.95
	<b>Grand Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>19439.10</b>	<b>405.00</b>	<b>181423.80</b>	<b>250.00</b>	<b>194390.97</b>
<b>H. Seventh Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16350.54	0.00	16350.54	365.00	163505.40	0.00	163505.40
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	895.92	25.00	920.92	20.00	8959.20	250.00	9209.20
3	Fire Tracing	2.00	895.92	0.00	895.92	20.00	8959.20	0.00	8959.20
	<b>Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>18167.38</b>	<b>405.00</b>	<b>181423.80</b>	<b>250.00</b>	<b>181673.80</b>
	Contingency 3%			0.00	545.02			0.00	5450.21
	Labour Welfare 4%			0.00	726.70			0.00	7266.95
	<b>Grand Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>19439.10</b>	<b>405.00</b>	<b>181423.80</b>	<b>250.00</b>	<b>194390.97</b>
<b>I. Eight Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16350.54	0.00	16350.54	365.00	163505.40	0.00	163505.40
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	895.92	25.00	920.92	20.00	8959.20	250.00	9209.20
3	Fire Tracing	2.00	895.92	0.00	895.92	20.00	8959.20	0.00	8959.20
	<b>Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>18167.38</b>	<b>405.00</b>	<b>181423.80</b>	<b>250.00</b>	<b>181673.80</b>
	Contingency 3%			0.00	545.02			0.00	5450.21
	Labour Welfare 4%			0.00	726.70			0.00	7266.95
	<b>Grand Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>19439.10</b>	<b>405.00</b>	<b>181423.80</b>	<b>250.00</b>	<b>194390.97</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 10.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>J. Nine Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16350.54	0.00	16350.54	365.00	163505.40	0.00	163505.40
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	895.92	25.00	920.92	20.00	8959.20	250.00	9209.20
3	Fire Tracing	2.00	895.92	0.00	895.92	20.00	8959.20	0.00	8959.20
	<b>Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>18167.38</b>	<b>405.00</b>	<b>181423.80</b>	<b>250.00</b>	<b>181673.80</b>
	Contingency 3%			0.00	545.02			0.00	5450.21
	Labour Welfare 4%			0.00	726.70			0.00	7266.95
	<b>Grand Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>19439.10</b>	<b>405.00</b>	<b>181423.80</b>	<b>250.00</b>	<b>194390.97</b>
<b>K. Tenth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16350.54	0.00	16350.54	365.00	163505.40	0.00	163505.40
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	895.92	25.00	920.92	20.00	8959.20	250.00	9209.20
3	Fire Tracing	2.00	895.92	0.00	895.92	20.00	8959.20	0.00	8959.20
	<b>Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>18167.38</b>	<b>405.00</b>	<b>181423.80</b>	<b>250.00</b>	<b>181673.80</b>
	Contingency 3%			0.00	545.02			0.00	5450.21
	Labour Welfare 4%			0.00	726.70			0.00	7266.95
	<b>Grand Total</b>	<b>40.50</b>	<b>18142.38</b>	<b>25.00</b>	<b>19439.10</b>	<b>405.00</b>	<b>181423.80</b>	<b>250.00</b>	<b>194390.97</b>

  
 (Keshav Wable)  
 Deputy Conservator of Forests,  
 Nanded Forest Division,  
 Nanded.

**Model Rate Structure for Compensatory Afforestation**

**Model No..5**

**Fencing and Irrigated Plantations**

Model rate structure for plantation of mixed tree species having rainfall less than 800 mm and medium quality, medium drained soil.

Village - Renapur Compt No. 357, Sur/Gut No.52 / 113, Taluka - Bhokar Dist. Nanded

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 10.00 Ha.			Year - 2023-24	
		Man days	Wages	Material Supply	Total	Man days	Wages		Material Supply
	Spacement Size of Pits No. of Seedlings 3m x 3m 0.45 x 0.45 x 0.45 m 1111 per ha.								
	<b>A. Pre Monsoon Works PPO/PYO</b>								
1	a.) Survey and demarcation b.) Preparation of treatment map (100 m x 50 m grid) c.) Digging trial pits of size 0.30 x 0.30 x 0.60 in corner of Grid. d.) Fixing 60cm x 0.05cm x 12 cm cement pillars upto 30cm deep in corner of Grid, painting with Grid No. etc. complete (3 pillars, Rs.75/- for each pillars) e.) Clearing of bushes and preparation of site (As per requirement)	1.00 1.00 0.40 0.00 10.00	438.42 438.42 175.37 0.00 4384.20	91.00 91.00 0.00 225.00 91.00	529.42 529.42 175.37 225.00 4475.20	10.00 10.00 4.00 0.00 100.00	4384.20 4384.20 1753.68 0.00 43842.00	910.00 910.00 0.00 2250.00 910.00	5294.20 5294.20 1753.68 2250.00 44752.00
2	Soil and moisture conservation works including collection of rubbles from areas upto 30 m etc	31.00	13591.02	0.00	13591.02	310.00	135910.20	0.00	135910.20
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. leadplus 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 50mm x 50mm, 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	0.00	0.00	1828656.00	1828656.00

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 10.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
		4	Alignment of pits at 3m x 3m spacing 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	27.80	12188.08
5	Digging of pits of size 0.45 x 0.45 x 0.45 m (1111 pits per ha) 6.60 M.D.per 100 pits. Note :- As per local conditions provision for mechanized digging can be made.	73.33	32149.34	0.00	32149.34	733.30	321493.39	0.00	321493.39
6	Construction of 5.00 Rmt wide Inspection Path 1M.D. per 100 Rmt	1.00	438.42	0.00	438.42	10.00	4384.20	0.00	4384.20
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	7.50	3288.15	250.00	3538.15
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	5000.00	5000.00
9	Part Nursery cost of raising 1333 seedlings per ha (including 20% casualty replacement) in polygons of size 12.50 x 25.00 cm (wages Rs. 11.90 and M & S Rs. 3.62 per plant)	46.71	20478.60	4825.46	25304.06	467.10	204785.98	48254.60	253040.58
<b>Total</b>		<b>167.97</b>	<b>73641.41</b>	<b>193263.83</b>	<b>266905.24</b>	<b>1679.70</b>	<b>736414.07</b>	<b>1887638.30</b>	<b>2624052.37</b>
Contingency 3%					8007.16				78721.57
Labour Welfare 4%					10676.21				104962.09
<b>Grand Total</b>		<b>167.97</b>	<b>73641.41</b>	<b>193263.83</b>	<b>285588.60</b>	<b>1679.70</b>	<b>736414.07</b>	<b>1887638.30</b>	<b>2807736.04</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 10.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>B. First Year Operations</b>									
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	6488.62	1079.73	7568.35	148.00	64886.16	10797.30	75683.46
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	184.40	80844.65	19442.50	100287.15
3	Transportation of 1333 seedlings from Nursery to plantation site including loading & unloading (0.14 M.D. per 100 seedlings & M.S. Rs.1.82 per seedlings )	1.87	819.85	2426.00	3245.85	18.70	8198.45	24260.00	32458.45
4	Planting of 1111 seedlings (1.0 M.D. per 100 seedlings)	11.11	4870.85	0.00	4870.85	111.10	48708.46	0.00	48708.46
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	444.40	194833.85	9110.20	203944.05
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	592.50	259763.85	543950.00	803713.85
7	Casulty replacement (20% 222 Seedlings per ha.) (2 M.D. per 100 Seedlings)	4.44	1946.58	0.00	1946.58	44.40	19465.85	0.00	19465.85
8	Part Nursery cost for causality replacement in SYO (222 Seedlings per ha.) (wages Rs. 11.90 and material supply Rs.3.62 total Rs.12.55 per seedling)	7.77	3406.52	803.64	4210.16	77.70	34065.23	8036.40	42101.63
9	Watch and ward (10 months - 1 watcher per 10 ha )	27.38	12003.94	0.00	12003.94	273.80	120039.40	0.00	120039.40
10	Soil working for naturally grower plants and singling (1.15 M.D. per 100 plants)	1.15	504.18	10.00	514.18	11.50	5041.83	100.00	5141.83
11	Fire tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>192.65</b>	<b>84461.61</b>	<b>61569.64</b>	<b>146031.25</b>	<b>1926.50</b>	<b>844616.13</b>	<b>615696.40</b>	<b>1460312.53</b>
	Contingency 3%				4380.94				43809.38
	Labour Welfare 4%				5841.25				58412.50
	<b>Grand Total</b>	<b>192.65</b>	<b>84461.61</b>	<b>61569.64</b>	<b>156253.44</b>	<b>1926.50</b>	<b>844616.13</b>	<b>615696.40</b>	<b>1562534.41</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 10.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>C. Second Year Operations</b>									
1	Part nursery cost for seedlings for causality replacement (222 seedlings per ha) labour rate @Rs. 3.77 M.S Rs.1.82 per seedlings.	2.46	1078.51	404.00	1482.51	24.60	10785.13	4040.00	14825.13
2	Transportation of 222 seedlings for causality replacement from nursery to plantation site (including loading and unloading) wages 0.14 M.D per 100 Seedling & M.S Rs. 1.82 per seedlings.	0.31	135.91	404.04	539.95	3.10	1359.10	4040.40	5399.50
3	Planting for causality replacement 222 seedlings (2.00 M.D. per 100 seedlings)	4.44	1946.58	0.00	1946.58	44.40	19465.85	0.00	19465.85
4	2 Weedings and 1 soil working, with fertilizer application 2.5 M.D. per 100 seedlings at M.S Rs.0.82 per seedling	27.77	12174.92	911.02	13085.94	277.70	121749.23	9110.20	130859.43
5	Watering 111 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	888.80	389667.70	361050.00	750717.70
6	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
7	Fire tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>162.360</b>	<b>71181.87</b>	<b>37824.06</b>	<b>109005.93</b>	<b>1623.60</b>	<b>711818.71</b>	<b>378240.60</b>	<b>1090059.31</b>
	Contingency 3%				3270.18				32701.78
	Labour Welfare 4%				4360.24				43602.37
	<b>Grand Total</b>	<b>162.36</b>	<b>71181.87</b>	<b>37824.06</b>	<b>116636.35</b>	<b>1623.60</b>	<b>711818.71</b>	<b>378240.60</b>	<b>1166363.46</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 10.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>D. Third Year Operations</b>									
1	1 weeding and 1 soil working (1.50 M.D per 100 seedlings) applying fertilizer @ Rs.0.82 per plant.	16.67	7308.46	911.02	8219.48	166.70	73084.61	9110.20	82194.81
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	444.80	195009.22	166800.00	361809.22
3	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
4	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
5	Fire tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>101.65</b>	<b>44565.39</b>	<b>17616.02</b>	<b>62181.41</b>	<b>1016.50</b>	<b>445653.93</b>	<b>176160.20</b>	<b>621814.13</b>
	Contingency 3%				1865.44				18654.42
	Labour Welfare 4%				2487.26				24872.57
	<b>Grand Total</b>	<b>101.65</b>	<b>44565.39</b>	<b>17616.02</b>	<b>66534.11</b>	<b>1016.50</b>	<b>445653.93</b>	<b>176160.20</b>	<b>665341.12</b>
<b>E. Fourth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%				533.43				5334.30
	Labour Welfare 4%				711.24				7112.40
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>
<b>F. Fifth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%				533.43				5334.30
	Labour Welfare 4%				711.24				7112.40
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 10.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>G. Sixth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%			0.00	533.43			0.00	5334.30
	Labour Welfare 4%			0.00	711.24			0.00	7112.40
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>
<b>H. Seventh Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%			0.00	533.43			0.00	5334.30
	Labour Welfare 4%			0.00	711.24			0.00	7112.40
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>
<b>I. Eight Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	876.84	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%			0.00	533.43			0.00	5334.30
	Labour Welfare 4%			0.00	711.24			0.00	7112.40
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 10.00 Ha.			
		Man days	Wages	Material Supply	Man days	Wages	Material Supply	Total
<b>J. Nine Year Operations</b>								
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%			0.00		533.43	0.00	533.43
	Labour Welfare 4%			0.00		711.24	0.00	711.24
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>
<b>K. Tenth Year Operations</b>								
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	365.00	160023.30	0.00	160023.30
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	20.00	8768.40	250.00	9018.40
3	Fire Tracing	2.00	876.84	0.00	20.00	8768.40	0.00	8768.40
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>177810.10</b>
	Contingency 3%			0.00		533.43	0.00	533.43
	Labour Welfare 4%			0.00		711.24	0.00	711.24
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>405.00</b>	<b>177560.10</b>	<b>250.00</b>	<b>190256.81</b>

  
**Range Forest Officer**  
**Bhokar (T)**

  
**(Keshav Wable)**  
 Deputy Conservator of Forests,  
 Nanded Forest Division,  
 Nanded.

**Abstract for Model No. 5  
Fencing and Irrigated Plantations**

**Model Rate Structure for Compensatory Afforestation**

Sr. No.	Year of Operation	Area : 1.00 ha. @ wage rate rs. 438.42 /day					Area : 10.00 ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total		
1	Pre Monsoon Works	167.97	73641.41	193263.83	285588.60	1679.70	736414.07	1887638.30	2807736.04		
2	First Year Operations	192.65	84461.61	61569.64	156253.44	1926.50	844616.13	615696.40	1562534.41		
3	Second Year Operations	162.36	71181.87	37824.06	116636.35	1623.60	711818.71	378240.60	1166363.46		
4	Third Year Operations	101.65	44565.39	17616.02	66534.11	1016.50	445653.93	176160.20	665341.12		
5	Fourth Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81		
6	Fifth Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81		
7	Sixth Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81		
8	Seventh Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81		
9	Eight Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81		
10	Ninth Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81		
11	Tenth Year Operations	40.50	17756.01	25.00	19025.68	405.00	177560.10	250.00	190256.81		
	<b>Total</b>	<b>908.13</b>	<b>398142.35</b>	<b>310448.55</b>	<b>758192.27</b>	<b>9081.30</b>	<b>3981423.55</b>	<b>3059485.50</b>	<b>7533772.68</b>		

  
**Range Forest Officer**  
**Bhokar (T)**

  
**(Keshav Wable)**  
 Deputy Conservator of Forests,  
 Nanded Forest Division,  
 Nanded.

**Model Rate Structure for Compensatory Afforestation**

**Model No..5**

**Fencing and Irrigated Plantations**

Model rate structure for plantation of mixed tree species having rainfall less than 800 mm and medium quality, medium drained soil.

Village - Pimpalshenda Compt No. 108, 109, Sur/Gut No.30 /17, Taluka - ~~Kinwat~~ Dist. Nanded

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 15.00 Ha.			Year - 2023-24	
		Man days	Wages	Material Supply	Total	Man days	Wages		Material Supply
Spacement Size of Pits No. of Seedlings 3m x 3m 0.45 x 0.45 x 0.45 m 1111 per ha.		Wage Rate		per day		Ha.			
		Proposed Area		457.65		15.00			
		Area : 1.00 Ha.		Area : 15.00 Ha.					
<b>A. Pre Monsoon Works PPO/PYO</b>									
1	a.) Survey and demarcation b.) Preparation of treatment map (100 m x 50 m grid) c.) Digging trial pits of size 0.30 x 0.30 x 0.60 in corner of Grid. d.) Fixing 60cm x 0.05cm x 12 cm cement pillars upto 30cm deep in corner of Grid, painting with Grid No. etc. complete (3 pillars, Rs.75/- for each pillars) e.) Clearing of bushes and preparation of site (As per requirement)	1.00 1.00 0.40 0.00 10.00	457.65 457.65 183.06 0.00 4576.50	91.00 91.00 0.00 225.00 91.00	548.65 548.65 183.06 225.00 4667.50	15.00 15.00 6.00 0.00 150.00	6864.75 6864.75 2745.90 0.00 68647.50	1365.00 1365.00 0.00 3375.00 1365.00	8229.75 8229.75 2745.90 3375.00 70012.50
2	Soil and moisture conservation works including collection of rubbles from areas upto 30 m etc	31.00	14187.15	0.00	14187.15	465.00	212807.25	0.00	212807.25
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. leadplus 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 50mm x 50m, 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	0.00	0.00	2742984.00	2742984.00

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 15.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
4	Alignment of pits at 3m x 3m spacing 1111 pits per ha. (0.25 per 100 pits and M&S @ Rs.2.24 per 50 pits.	2.78	1272.27	49.77	1322.04	41.70	19084.01	746.55	19830.56
5	Digging of pits of size 0.45 x 0.45 x 0.45 m (1111 pits per ha) 6.60 M.D. per 100 pits. Note :- As per local conditions provision for mechanized digging can be made.	73.33	33559.47	0.00	33559.47	1099.95	503392.12	0.00	503392.12
6	Construction of 5.00 Rmt wide Inspection Path 1 I.M.D. per 100 Rmt	1.00	457.65	0.00	457.65	15.00	6864.75	0.00	6864.75
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	343.24	25.00	368.24	11.25	5148.56	375.00	5523.56
8	Providing and fixing (4 feet x 3 feet) information board each per site	0.00	0.00	5000.00	5000.00	0.00	5000.00	5000.00	5000.00
9	Part Nursery cost of raising 1333 seedlings per ha (including 20% casualty replacement) in polygons of size 12.50 x 25.00 cm (wages Rs. 11.90 and M & S Rs. 3.62 per plant)	46.71	21376.83	4825.46	26202.29	700.65	320652.47	72381.90	393034.37
	<b>Total</b>	<b>167.97</b>	<b>76871.47</b>	<b>193263.83</b>	<b>270135.30</b>	<b>2519.55</b>	<b>1153072.06</b>	<b>2828957.45</b>	<b>3982029.51</b>
	Contingency 3%			8104.06					119460.89
	Labour Welfare 4%			10805.41					159281.18
	<b>Grand Total</b>	<b>167.97</b>	<b>76871.47</b>	<b>193263.83</b>	<b>289044.77</b>	<b>2519.55</b>	<b>1153072.06</b>	<b>2828957.45</b>	<b>4260771.57</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 15.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>B. First Year Operations</b>									
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	6773.22	1079.73	7852.95	222.00	101598.30	16195.95	117794.25
2	Refilling of pits by good quality soil including application of single super phosphate (1.66 MD per 100 pits)	18.44	8439.07	1944.25	10383.32	276.60	126585.99	29163.75	155749.74
3	Transportation of 1333 seedlings from Nursery to plantation site including loading & unloading (0.14 M.D. per 100 seedlings & M.S. Rs.1.82 per seedlings )	1.87	855.81	2426.00	3281.81	28.05	12837.08	36390.00	49227.08
4	Planting of 1111 seedlings (1.0 M.D. per 100 seedlings)	11.11	5084.49	0.00	5084.49	166.65	76267.37	0.00	76267.37
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	20337.97	911.02	21248.99	666.60	305069.49	13665.30	318734.79
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	27115.76	54395.00	81510.76	888.75	406736.44	815925.00	1222661.44
7	Casualty replacement (20% 222 Seedlings per ha.) (2 M.D. per 100 Seedlings)	4.44	2031.97	0.00	2031.97	66.60	30479.49	0.00	30479.49
8	Part Nursery cost for causality replacement in SYO (222 Seedlings per ha.) (wages Rs. 11.90 and material supply Rs.3.62 total Rs.12.55 per seedling)	7.77	3555.94	803.64	4359.58	116.55	53339.11	12054.60	65393.71
9	Watch and ward (10 months - 1 watcher per 10 ha )	27.38	12530.46	0.00	12530.46	410.70	187956.86	0.00	187956.86
10	Soil working for naturally gower plants and singling (1.15 M.D per 100 plants)	1.15	526.30	10.00	536.30	17.25	7894.46	150.00	8044.46
11	Fire tracing	2.00	915.30	0.00	915.30	30.00	13729.50	0.00	13729.50
<b>Total</b>		<b>192.65</b>	<b>88166.27</b>	<b>61569.64</b>	<b>149735.91</b>	<b>2889.75</b>	<b>1322494.09</b>	<b>923544.60</b>	<b>2246038.69</b>
Contingency 3%					4492.08				67381.16
Labour Welfare 4%					5989.44				89841.55
<b>Grand Total</b>		<b>192.65</b>	<b>88166.27</b>	<b>61569.64</b>	<b>160217.43</b>	<b>2889.75</b>	<b>1322494.09</b>	<b>923544.60</b>	<b>2403261.40</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 15.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>C. Second Year Operations</b>									
1	Part nursery cost for seedlings for causality replacement (222 seedlings per ha) labour rate @Rs. 3.77 M.S Rs.1.82 per seedlings.	2.46	1125.82	404.00	1529.82	36.90	16887.29	6060.00	22947.29
2	Transportation of 222 seedlings for causality replacement from nursery to plantation site (including loading and unloading) wages 0.14 M.D per 100 Seedling & M.S Rs. 1.82 per seedlings	0.31	141.87	404.04	545.91	4.65	2128.07	6060.60	8188.67
3	Planting for causality replacement 222 seedlings (2.00 M.D. per 100 seedlings)	4.44	2031.97	0.00	2031.97	66.60	30479.49	0.00	30479.49
4	2 Weedings and 1 soil working, with fertilizer application 2.5 M.D. per 100 seedlings at M.S Rs.0.82 per seedling	27.77	12708.94	911.02	13619.96	416.55	190634.11	13665.30	204299.41
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 eun / matka @Rs.25/- each replacing 111 cans/matka, supplying water @Rs.0.50/- per litre and watering 150 seedlings per M.D.	88.88	40675.93	36105.00	76780.93	1333.20	610138.98	541575.00	1151713.98
6	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	16704.23	0.00	16704.23	547.50	250563.38	0.00	250563.38
7	Fire tracing	2.00	915.30	0.00	915.30	30.00	13729.50	0.00	13729.50
	<b>Total</b>	<b>162.360</b>	<b>74304.05</b>	<b>37824.06</b>	<b>112128.11</b>	<b>2435.40</b>	<b>1114560.81</b>	<b>567360.90</b>	<b>1681921.71</b>
	Contingency 3%				3363.84				50457.65
	Labour Welfare 4%				4485.12				67276.87
	<b>Grand Total</b>	<b>162.36</b>	<b>74304.05</b>	<b>37824.06</b>	<b>119977.08</b>	<b>2435.40</b>	<b>1114560.81</b>	<b>567360.90</b>	<b>1799656.23</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 15.00 Ha.			Total	Total
		Man days	Wages	Material Supply	Man days	Wages	Material Supply		
<b>D. Third Year Operations</b>									
1	1 weeding and 1 soil working (1.50 M.D per 100 seedlings) applying fertilizer @ Rs.0.82 per plant.	16.67	7629.03	911.02	250.05	114435.38	13665.30	8540.05	128100.68
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	20356.27	16680.00	667.20	305344.08	250200.00	37036.27	555544.08
3	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16704.23	0.00	547.50	250563.38	0.00	16704.23	250563.38
4	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	915.30	25.00	30.00	13729.50	375.00	940.30	14104.50
5	Fire tracing	2.00	915.30	0.00	30.00	13729.50	0.00	915.30	13729.50
	<b>Total</b>	<b>101.65</b>	<b>46520.12</b>	<b>17616.02</b>	<b>1524.75</b>	<b>697801.84</b>	<b>264240.30</b>	<b>64136.14</b>	<b>962042.14</b>
	Contingency 3%							1924.08	28861.26
	Labour Welfare 4%							2565.45	38481.69
	<b>Grand Total</b>	<b>101.65</b>	<b>46520.12</b>	<b>17616.02</b>	<b>1524.75</b>	<b>697801.84</b>	<b>264240.30</b>	<b>68625.67</b>	<b>1029385.09</b>
<b>E. Fourth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16704.23	0.00	547.50	250563.38	0.00	16704.23	250563.38
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	915.30	25.00	30.00	13729.50	375.00	940.30	14104.50
3	Fire Tracing	2.00	915.30	0.00	30.00	13729.50	0.00	915.30	13729.50
	<b>Total</b>	<b>40.50</b>	<b>18534.83</b>	<b>25.00</b>	<b>607.50</b>	<b>278022.38</b>	<b>375.00</b>	<b>18559.83</b>	<b>278397.38</b>
	Contingency 3%							556.79	8351.92
	Labour Welfare 4%							742.39	11135.90
	<b>Grand Total</b>	<b>40.50</b>	<b>18534.83</b>	<b>25.00</b>	<b>607.50</b>	<b>278022.38</b>	<b>375.00</b>	<b>19859.01</b>	<b>297885.19</b>
<b>F. Fifth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16704.23	0.00	547.50	250563.38	0.00	16704.23	250563.38
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	915.30	25.00	30.00	13729.50	375.00	940.30	14104.50
3	Fire Tracing	2.00	915.30	0.00	30.00	13729.50	0.00	915.30	13729.50
	<b>Total</b>	<b>40.50</b>	<b>18534.83</b>	<b>25.00</b>	<b>607.50</b>	<b>278022.38</b>	<b>375.00</b>	<b>18559.83</b>	<b>278397.38</b>
	Contingency 3%							556.79	8351.92
	Labour Welfare 4%							742.39	11135.90
	<b>Grand Total</b>	<b>40.50</b>	<b>18534.83</b>	<b>25.00</b>	<b>607.50</b>	<b>278022.38</b>	<b>375.00</b>	<b>19859.01</b>	<b>297885.19</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 15.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>G. Sixth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16704.23	0.00	16704.23	547.50	250563.38	0.00	250563.38
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	915.30	25.00	940.30	30.00	13729.50	375.00	14104.50
3	Fire Tracing	2.00	915.30	0.00	915.30	30.00	13729.50	0.00	13729.50
	<b>Total</b>	<b>40.50</b>	<b>18534.83</b>	<b>25.00</b>	<b>18559.83</b>	<b>607.50</b>	<b>278022.38</b>	<b>375.00</b>	<b>278397.38</b>
	Contingency 3%			0.00	556.79			0.00	8351.92
	Labour Welfare 4%			0.00	742.39			0.00	11135.90
	<b>Grand Total</b>	<b>40.50</b>	<b>18534.83</b>	<b>25.00</b>	<b>19859.01</b>	<b>607.50</b>	<b>278022.38</b>	<b>375.00</b>	<b>297885.19</b>
<b>H. Seventh Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16704.23	0.00	16704.23	547.50	250563.38	0.00	250563.38
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	915.30	25.00	940.30	30.00	13729.50	375.00	14104.50
3	Fire Tracing	2.00	915.30	0.00	915.30	30.00	13729.50	0.00	13729.50
	<b>Total</b>	<b>40.50</b>	<b>18534.83</b>	<b>25.00</b>	<b>18559.83</b>	<b>607.50</b>	<b>278022.38</b>	<b>375.00</b>	<b>278397.38</b>
	Contingency 3%			0.00	556.79			0.00	8351.92
	Labour Welfare 4%			0.00	742.39			0.00	11135.90
	<b>Grand Total</b>	<b>40.50</b>	<b>18534.83</b>	<b>25.00</b>	<b>19859.01</b>	<b>607.50</b>	<b>278022.38</b>	<b>375.00</b>	<b>297885.19</b>
<b>I. Eight Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16704.23	0.00	16704.23	547.50	250563.38	0.00	250563.38
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	915.30	25.00	940.30	30.00	13729.50	375.00	14104.50
3	Fire Tracing	2.00	915.30	0.00	915.30	30.00	13729.50	0.00	13729.50
	<b>Total</b>	<b>40.50</b>	<b>18534.83</b>	<b>25.00</b>	<b>18559.83</b>	<b>607.50</b>	<b>278022.38</b>	<b>375.00</b>	<b>278397.38</b>
	Contingency 3%			0.00	556.79			0.00	8351.92
	Labour Welfare 4%			0.00	742.39			0.00	11135.90
	<b>Grand Total</b>	<b>40.50</b>	<b>18534.83</b>	<b>25.00</b>	<b>19859.01</b>	<b>607.50</b>	<b>278022.38</b>	<b>375.00</b>	<b>297885.19</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 15.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>J. Nine Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16704.23	0.00	16704.23	547.50	250563.38	0.00	250563.38
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	915.30	25.00	940.30	30.00	13729.50	375.00	14104.50
3	Fire Tracing	2.00	915.30	0.00	915.30	30.00	13729.50	0.00	13729.50
	<b>Total</b>	<b>40.50</b>	<b>18534.83</b>	<b>25.00</b>	<b>18559.83</b>	<b>607.50</b>	<b>278022.38</b>	<b>375.00</b>	<b>278397.38</b>
	Contingency 3%			0.00	556.79			0.00	8351.92
	Labour Welfare 4%			0.00	742.39			0.00	11135.90
	<b>Grand Total</b>	<b>40.50</b>	<b>18534.83</b>	<b>25.00</b>	<b>19859.01</b>	<b>607.50</b>	<b>278022.38</b>	<b>375.00</b>	<b>297885.19</b>
<b>K. Tenth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16704.23	0.00	16704.23	547.50	250563.38	0.00	250563.38
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	915.30	25.00	940.30	30.00	13729.50	375.00	14104.50
3	Fire Tracing	2.00	915.30	0.00	915.30	30.00	13729.50	0.00	13729.50
	<b>Total</b>	<b>40.50</b>	<b>18534.83</b>	<b>25.00</b>	<b>18559.83</b>	<b>607.50</b>	<b>278022.38</b>	<b>375.00</b>	<b>278397.38</b>
	Contingency 3%			0.00	556.79			0.00	8351.92
	Labour Welfare 4%			0.00	742.39			0.00	11135.90
	<b>Grand Total</b>	<b>40.50</b>	<b>18534.83</b>	<b>25.00</b>	<b>19859.01</b>	<b>607.50</b>	<b>278022.38</b>	<b>375.00</b>	<b>297885.19</b>

  
Range Forest Officer  
Mandvi (T)

  
(Keshav Wable)  
Deputy Conservator of Forests,  
Nanded Forest Division,  
Nanded.

**Abstract for Model No. 5  
Fencing and Irrigated Plantations  
Model Rate Structure for Compensatory Afforestation**

Sr. No.	Year of Operation	Area : 1.00 ha. @ wage rate rs. 457.65 /day						Area : 15.00 ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total		
1	Pre Monsoon Works	167.97	76871.47	193263.83	289044.77	2519.55	1153072.06	2828957.45	4260771.57		
2	First Year Operations	192.65	88166.27	61569.64	160217.43	2889.75	1322494.09	923544.60	2403261.40		
3	Second Year Operations	162.36	74304.05	37824.06	119977.08	2435.40	1114560.81	567360.90	1799656.23		
4	Third Year Operations	101.65	46520.12	17616.02	68625.67	1524.75	697801.84	264240.30	1029385.09		
5	Fourth Year Operations	40.50	18534.83	25.00	19859.01	607.50	278022.38	375.00	297885.19		
6	Fifth Year Operations	40.50	18534.83	25.00	19859.01	607.50	278022.38	375.00	297885.19		
7	Sixth Year Operations	40.50	18534.83	25.00	19859.01	607.50	278022.38	375.00	297885.19		
8	Seventh Year Operations	40.50	18534.83	25.00	19859.01	607.50	278022.38	375.00	297885.19		
9	Eight Year Operations	40.50	18534.83	25.00	19859.01	607.50	278022.38	375.00	297885.19		
10	Ninth Year Operations	40.50	18534.83	25.00	19859.01	607.50	278022.38	375.00	297885.19		
11	Tenth Year Operations	40.50	18534.83	25.00	19859.01	607.50	278022.38	375.00	297885.19		
	<b>Total</b>	<b>908.13</b>	<b>415605.69</b>	<b>310448.55</b>	<b>776878.04</b>	<b>13621.95</b>	<b>6234085.42</b>	<b>4586728.25</b>	<b>11578270.62</b>		

  
**Range Forest Officer**  
Maddur (T)

  
**(Keshav Wable)**  
Deputy Conservator of Forests,  
Nanded Forest Division,  
Nanded.

**Model Rate Structure for Compensatory Afforestation**

**Model No..5**

**Fencing and Irrigated Plantations**

Model rate structure for plantation of mixed tree species having rainfall less than 800 mm and medium quality, medium drained soil.

Village - Bhanegaon Compt No. 493c, Sur/Gut No. 56, Taluka - Hadgaon Dist. Nanded

3m x 3m

Spacement

Size of Pits,

No. of Seedlings

0.45 x 0.45 x 0.45 m

1111 per ha.

Wage Rate

Proposed Area

438.42

6.00

per day

Ha.

Year - 2023-24

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 6.00 Ha.			Total
		Man days	Wages	Material Supply	Man days	Wages	Material Supply	
<b>A. Pre Monsoon Works PPO/PYO</b>								
1	a.) Survey and demarcation	1.00	438.42	91.00	6.00	2630.52	546.00	3176.52
	b.) Preparation of treatment map (100 m x 50 m grid)	1.00	438.42	91.00	6.00	2630.52	546.00	3176.52
	c.) Digging trial pits of size 0.30 x 0.30 x 0.60 in corner of Grid.	0.40	175.37	0.00	2.40	1052.21	0.00	1052.21
	d.) Fixing 60cm x 0.05cm x 12 cm cement pillars upto 30cm deep in corner of Grid, painting with Grid No. etc. complete	0.00	0.00	225.00	0.00	0.00	1350.00	1350.00
	e.) Clearing of bushes and preparation of site (AS per requirement)	10.00	4384.20	91.00	60.00	26305.20	546.00	26851.20
2	Soil and moisture conservation works including collection of rubbles from areas upto 30 m etc	31.00	13591.02	0.00	186.00	81546.12	0.00	81546.12
3	Providing and fixing chain link fencing, 102 Rmt per HA (With one gate + two wickets gates for one site) (Rs. 1494/- per Rmt of basic rate+ 20% for transportation of ave. leadplus 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 50mm x 50m, 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	0.00	0.00	1097193.60	1097193.60

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 6.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
4	Alignment of pits at 3m x 3m spacement 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	16.68	7312.85	298.62	7611.47
5	Digging of pits of size 0.45 x 0.45 x 0.45 m (1111 pits per ha) 6.60 M.D. per 100 pits. Note :- As per local conditions provision for mechanized digging can be made.	73.33	32149.34	0.00	32149.34	439.98	192896.03	0.00	192896.03
6	Construction of 5.00 Rmt wide Inspection Path 1M.D. per 100 Rmt	1.00	438.42	0.00	438.42	6.00	2630.52	0.00	2630.52
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	4.50	1972.89	150.00	2122.89
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	5000.00	5000.00
9	Part Nursery cost of raising 1333 seedlings per ha (including 20% casualty replacement) in polygons of size 12.50 x 25.00 cm (wages Rs. 11.90 and M & S Rs. 3.62 per plant)	46.71	20478.60	4825.46	25304.06	280.26	122871.59	28952.76	151824.35
	<b>Total</b>	<b>167.97</b>	<b>73641.41</b>	<b>193263.83</b>	<b>266905.24</b>	<b>1007.82</b>	<b>441848.44</b>	<b>1134582.98</b>	<b>1576431.42</b>
	Contingency 3%			8007.16					47292.94
	Labour Welfare 4%			10676.21					63057.26
	<b>Grand Total</b>	<b>167.97</b>	<b>73641.41</b>	<b>193263.83</b>	<b>285588.60</b>	<b>1007.82</b>	<b>441848.44</b>	<b>1134582.98</b>	<b>1686781.62</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 6.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>B. First Year Operations</b>									
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	6488.62	1079.73	7568.35	88.80	38931.70	6478.38	45410.08
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	110.64	48506.79	11665.50	60172.29
3	Transportation of 1333 seedlings from Nursery to plantation site including loading & unloading (0.14 M.D. per 100 seedlings & M.S. Rs. 1.82 per seedlings )	1.87	819.85	2426.00	3245.85	11.22	4919.07	14556.00	19475.07
4	Planting of 1111 seedlings (1.0 M.D. per 100 seedlings)	11.11	4870.85	0.00	4870.85	66.66	29225.08	0.00	29225.08
5	3 seedlings (1 Rnt 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	266.64	116900.31	5466.12	122366.43
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	355.50	155858.31	326370.00	482228.31
7	Casualty replacement (20% 222 Seedlings per ha.) (2 M.D. per 100 Seedlings)	4.44	1946.58	0.00	1946.58	26.64	11679.51	0.00	11679.51
8	Part Nursery cost for causality replacement in SYO (222 Seedlings per ha.) (wages Rs. 11.90 and material supply Rs.3.62 total Rs. 12.55 per seedling)	7.77	3406.52	803.64	4210.16	46.62	20439.14	4821.84	25260.98
9	Watch and ward (10 months - 1 watcher per 10 ha )	27.38	12003.94	0.00	12003.94	164.28	72023.64	0.00	72023.64
10	Soil working for naturally grower plants and singling (1.15 M.D per 100 plants)	1.15	504.18	10.00	514.18	6.90	3025.10	60.00	3085.10
11	Fire tracing	2.00	876.84	0.00	876.84	12.00	5261.04	0.00	5261.04
	<b>Total</b>	<b>192.65</b>	<b>84461.61</b>	<b>61569.64</b>	<b>146031.25</b>	<b>1155.90</b>	<b>506769.68</b>	<b>369417.84</b>	<b>876187.52</b>
	Contingency 3%				4380.94				26285.63
	Labour Welfare 4%				5841.25				35047.50
	<b>Grand Total</b>	<b>192.65</b>	<b>84461.61</b>	<b>61569.64</b>	<b>156253.44</b>	<b>1155.90</b>	<b>506769.68</b>	<b>369417.84</b>	<b>937520.64</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 6.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>C. Second Year Operations</b>									
1	Part nursery cost for seedlings for causality replacement (222 seedlings per ha) labour rate @Rs. 3.77 M.S Rs.1.82 per seedlings.	2.46	1078.51	404.00	1482.51	14.76	6471.08	2424.00	8895.08
2	Transportation of 222 seedlings for causality replacement from nursery to plantation site (including loading and unloading) wages 0.14 M.D per 100 Seedling & M.S Rs. 1.82 per seedlings	0.31	135.91	404.04	539.95	1.86	815.46	2424.24	3239.70
3	Planting for causality replacement 222 seedlings (2.00 M.D. per 100 seedlings)	4.44	1946.58	0.00	1946.58	26.64	11679.51	0.00	11679.51
4	2 Weedings and 1 soil working, with fertilizer application 2.5 M.D. per 100 seedlings at M.S Rs.0.82 per seedling	27.77	12174.92	911.02	13085.94	166.62	73049.54	5466.12	78515.66
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	533.28	233800.62	216630.00	450430.62
6	Watch and ward 12 months - 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	219.00	96013.98	0.00	96013.98
7	Fire tracing	2.00	876.84	0.00	876.84	12.00	5261.04	0.00	5261.04
<b>Total</b>		<b>162.360</b>	<b>71181.87</b>	<b>37824.06</b>	<b>109005.93</b>	<b>974.16</b>	<b>427091.23</b>	<b>226944.36</b>	<b>654035.59</b>
Contingency 3%					3270.18				19621.07
Labour Welfare 4%					4360.24				26161.42
<b>Grand Total</b>		<b>162.36</b>	<b>71181.87</b>	<b>37824.06</b>	<b>116636.35</b>	<b>974.16</b>	<b>427091.23</b>	<b>226944.36</b>	<b>699818.08</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 6.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>D. Third Year Operations</b>									
1	1 weeding and 1 soil working (1.50 M.D per 100 seedlings) applying fertilizer @ Rs.0.82 per plant.	16.67	7308.46	911.02	8219.48	100.02	43850.77	5466.12	49316.89
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	266.88	117005.53	100080.00	217085.53
3	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	219.00	96013.98	0.00	96013.98
4	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	12.00	5261.04	150.00	5411.04
5	Fire tracing	2.00	876.84	0.00	876.84	12.00	5261.04	0.00	5261.04
	<b>Total</b>	<b>101.65</b>	<b>44565.39</b>	<b>17616.02</b>	<b>62181.41</b>	<b>609.90</b>	<b>267392.36</b>	<b>105696.12</b>	<b>373088.48</b>
	Contingency 3%				1865.44				11192.65
	Labour Welfare 4%				2487.26				14923.54
	<b>Grand Total</b>	<b>101.65</b>	<b>44565.39</b>	<b>17616.02</b>	<b>66534.11</b>	<b>609.90</b>	<b>267392.36</b>	<b>105696.12</b>	<b>399204.67</b>
<b>E. Fourth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	219.00	96013.98	0.00	96013.98
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	12.00	5261.04	150.00	5411.04
3	Fire Tracing	2.00	876.84	0.00	876.84	12.00	5261.04	0.00	5261.04
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>243.00</b>	<b>106536.06</b>	<b>150.00</b>	<b>106686.06</b>
	Contingency 3%				533.43				3200.58
	Labour Welfare 4%				711.24				4267.44
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>243.00</b>	<b>106536.06</b>	<b>150.00</b>	<b>114154.08</b>
<b>F. Fifth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	219.00	96013.98	0.00	96013.98
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	12.00	5261.04	150.00	5411.04
3	Fire Tracing	2.00	876.84	0.00	876.84	12.00	5261.04	0.00	5261.04
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>243.00</b>	<b>106536.06</b>	<b>150.00</b>	<b>106686.06</b>
	Contingency 3%				533.43				3200.58
	Labour Welfare 4%				711.24				4267.44
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>243.00</b>	<b>106536.06</b>	<b>150.00</b>	<b>114154.08</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 6.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>G. Sixth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	219.00	96013.98	0.00	96013.98
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	12.00	5261.04	150.00	5411.04
3	Fire Tracing	2.00	876.84	0.00	876.84	12.00	5261.04	0.00	5261.04
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>243.00</b>	<b>106536.06</b>	<b>150.00</b>	<b>106686.06</b>
	Contingency 3%			0.00	533.43			0.00	3200.58
	Labour Welfare 4%			0.00	711.24			0.00	4267.44
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>243.00</b>	<b>106536.06</b>	<b>150.00</b>	<b>114154.08</b>
<b>H. Seventh Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	219.00	96013.98	0.00	96013.98
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	12.00	5261.04	150.00	5411.04
3	Fire Tracing	2.00	876.84	0.00	876.84	12.00	5261.04	0.00	5261.04
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>243.00</b>	<b>106536.06</b>	<b>150.00</b>	<b>106686.06</b>
	Contingency 3%			0.00	533.43			0.00	3200.58
	Labour Welfare 4%			0.00	711.24			0.00	4267.44
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>243.00</b>	<b>106536.06</b>	<b>150.00</b>	<b>114154.08</b>
<b>I. Eight Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	219.00	96013.98	0.00	96013.98
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	12.00	5261.04	150.00	5411.04
3	Fire Tracing	2.00	876.84	0.00	876.84	12.00	5261.04	0.00	5261.04
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>243.00</b>	<b>106536.06</b>	<b>150.00</b>	<b>106686.06</b>
	Contingency 3%			0.00	533.43			0.00	3200.58
	Labour Welfare 4%			0.00	711.24			0.00	4267.44
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>243.00</b>	<b>106536.06</b>	<b>150.00</b>	<b>114154.08</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 6.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>J. Nine Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	219.00	96013.98	0.00	96013.98
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	12.00	5261.04	150.00	5411.04
3	Fire Tracing	2.00	876.84	0.00	876.84	12.00	5261.04	0.00	5261.04
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>243.00</b>	<b>106536.06</b>	<b>150.00</b>	<b>106686.06</b>
	Contingency 3%			0.00	533.43			0.00	3200.58
	Labour Welfare 4%			0.00	711.24			0.00	4267.44
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>243.00</b>	<b>106536.06</b>	<b>150.00</b>	<b>114154.08</b>
<b>K. Tenth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	219.00	96013.98	0.00	96013.98
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	12.00	5261.04	150.00	5411.04
3	Fire Tracing	2.00	876.84	0.00	876.84	12.00	5261.04	0.00	5261.04
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>243.00</b>	<b>106536.06</b>	<b>150.00</b>	<b>106686.06</b>
	Contingency 3%			0.00	533.43			0.00	3200.58
	Labour Welfare 4%			0.00	711.24			0.00	4267.44
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>243.00</b>	<b>106536.06</b>	<b>150.00</b>	<b>114154.08</b>

  
**वनपरिक्षेत्र अधिकारी**  
 (प्र.) हदगांव

  
**Assistant Conservator of Forest**  
 (Tendulaves & Camna) Nanded

  
**(Keshav Wable)**  
 Deputy Conservator of Forests,  
 Nanded Forest Division,  
 Nanded.

**Abstract for Model No. 5  
Fencing and Irrigated Plantations  
Model Rate Structure for Compensatory Afforestation**

Sr. No.	Year of Operation	Area : 1.00 ha. @ wage rate rs. 438.42/day				Area : 6.00 ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
1	Pre Monsoon Works	167.97	73641.41	193263.83	285588.60	1007.82	441848.44	1134582.98	1686781.62
2	First Year Operations	192.65	84461.61	61569.64	156253.44	1155.90	506769.68	369417.84	937520.64
3	Second Year Operations	162.36	71181.87	37824.06	116636.35	974.16	427091.23	226944.36	699818.08
4	Third Year Operations	101.65	44565.39	17616.02	66534.11	609.90	267392.36	105696.12	399204.67
5	Fourth Year Operations	40.50	17756.01	25.00	19025.68	243.00	106536.06	150.00	114154.08
6	Fifth Year Operations	40.50	17756.01	25.00	19025.68	243.00	106536.06	150.00	114154.08
7	Sixth Year Operations	40.50	17756.01	25.00	19025.68	243.00	106536.06	150.00	114154.08
8	Seventh Year Operations	40.50	17756.01	25.00	19025.68	243.00	106536.06	150.00	114154.08
9	Eight Year Operations	40.50	17756.01	25.00	19025.68	243.00	106536.06	150.00	114154.08
10	Ninth Year Operations	40.50	17756.01	25.00	19025.68	243.00	106536.06	150.00	114154.08
11	Tenth Year Operations	40.50	17756.01	25.00	19025.68	243.00	106536.06	150.00	114154.08
	<b>Total</b>	<b>908.13</b>	<b>398142.35</b>	<b>310448.55</b>	<b>758192.27</b>	<b>5448.78</b>	<b>2388854.13</b>	<b>1837691.30</b>	<b>4522403.61</b>

  
**वनपरिक्षेत्र अधिकारी**  
(प्र.) हदगांव

  
**Assistant Conservator of Forest**  
(Tendulgaon & Gamna) Nanded

  
**(Keshav Wable)**  
Deputy Conservator of Forests,  
Nanded Forest Division,  
Nanded.



Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 8.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
4	Alignment of pits at 3m x 3m spacing 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	22.24	9750.46	398.16	10148.62
5	Digging of pits of size 0.45 x 0.45 x 0.45 m (1111 pits per ha) 6.60 M.D. per 100 pits. Note :- As per local conditions provision for mechanized digging can be made.	73.33	32149.34	0.00	32149.34	586.64	257194.71	0.00	257194.71
6	Construction of 5.00 Rmt wide Inspection Path 1M.D. per 100 Rmt	1.00	438.42	0.00	438.42	8.00	3507.36	0.00	3507.36
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	6.00	2630.52	200.00	2830.52
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	5000.00	5000.00
9	Plant Nursery cost of raising 1333 seedlings per ha (including 20% casualty replacement) in polygons of size 12.50 x 25.00 cm (wages Rs. 11.90 and M & S Rs. 3.62 per plant)	46.71	20478.60	4825.46	25304.06	373.68	163828.79	38603.68	202432.47
<b>Total</b>		<b>167.97</b>	<b>73641.41</b>	<b>193263.83</b>	<b>266905.24</b>	<b>1343.76</b>	<b>589131.26</b>	<b>1511110.64</b>	<b>2100241.90</b>
Contingency 3%					8007.16				63007.26
Labour Welfare 4%					10676.21				84009.68
<b>Grand Total</b>		<b>167.97</b>	<b>73641.41</b>	<b>193263.83</b>	<b>285588.60</b>	<b>1343.76</b>	<b>589131.26</b>	<b>1511110.64</b>	<b>2247258.83</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 8.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>B. First Year Operations</b>									
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	6488.62	1079.73	7568.35	118.40	51908.93	8637.84	60546.77
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	147.52	64675.72	15554.00	80229.72
3	Transportation of 1333 seedlings from Nursery to plantation site including loading & unloading (0.14 M.D. per 100 seedlings & M.S. Rs.1.82 per seedlings )	1.87	819.85	2426.00	3245.85	14.96	6558.76	19408.00	25966.76
4	Planting of 1111 seedlings (1.0 M.D. per 100 seedlings)	11.11	4870.85	0.00	4870.85	88.88	38966.77	0.00	38966.77
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	355.52	155867.08	7288.16	163155.24
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	474.00	207811.08	435160.00	642971.08
7	Casulty replacement (20% 222 Seedlings per ha.) (2 M.D. per 100 Seedlings)	4.44	1946.58	0.00	1946.58	35.52	15572.68	0.00	15572.68
8	Part Nursery cost for causality replacement in SYO (222 Seedlings per ha.) (wages Rs. 11.90 and material supply Rs.3.62 total Rs.12.55 per seedling)	7.77	3406.52	803.64	4210.16	62.16	27252.19	6429.12	33681.31
9	Watch and ward (10 months - 1 watcher per 10 ha )	27.38	12003.94	0.00	12003.94	219.04	96031.52	0.00	96031.52
10	Soil working for naturally gower plants and singling (1.15 M.D per 100 plants)	1.15	504.18	10.00	514.18	9.20	4033.46	80.00	4113.46
11	Fire tracing	2.00	876.84	0.00	876.84	16.00	7014.72	0.00	7014.72
	<b>Total</b>	<b>192.65</b>	<b>84461.61</b>	<b>61569.64</b>	<b>146031.25</b>	<b>1541.20</b>	<b>675692.90</b>	<b>492557.12</b>	<b>1168250.02</b>
	Contingency 3%				4380.94				35047.50
	Labour Welfare 4%				5841.25				46730.00
	<b>Grand Total</b>	<b>192.65</b>	<b>84461.61</b>	<b>61569.64</b>	<b>156253.44</b>	<b>1541.20</b>	<b>675692.90</b>	<b>492557.12</b>	<b>1250027.53</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 8.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>C. Second Year Operations</b>									
1	Part nursery cost for seedlings for causality replacement (222 seedlings per ha) labour rate @Rs. 3.77 M.S Rs. 1.82 per seedlings.	2.46	1078.51	404.00	1482.51	19.68	8628.11	3232.00	11860.11
2	Transportation of 222 seedlings for causality replacement from nursery to plantation site (including loading and unloading) wages 0.14 M.D per 100 Seedling & M.S Rs. 1.82 per seedlings	0.31	135.91	404.04	539.95	2.48	1087.28	3232.32	4319.60
3	Planting for causality replacement 222 seedlings (2.00 M.D. per 100 seedlings)	4.44	1946.58	0.00	1946.58	35.52	15572.68	0.00	15572.68
4	2 Weedings and 1 soil working, with fertilizer application 2.5 M.D. per 100 seedlings at M.S Rs.0.82 per seedling	27.77	12174.92	911.02	13085.94	222.16	97399.39	7288.16	104687.55
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	711.04	311734.16	288840.00	600574.16
6	Watch and ward 12 months - 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	292.00	128018.64	0.00	128018.64
7	Fire tracing	2.00	876.84	0.00	876.84	16.00	7014.72	0.00	7014.72
<b>Total</b>		<b>162.360</b>	<b>71181.87</b>	<b>37824.06</b>	<b>109005.93</b>	<b>1298.88</b>	<b>569454.97</b>	<b>302592.48</b>	<b>872047.45</b>
Contingency 3%					3270.18				26161.42
Labour Welfare 4%					4360.24				34881.90
<b>Grand Total</b>		<b>162.36</b>	<b>71181.87</b>	<b>37824.06</b>	<b>116636.35</b>	<b>1298.88</b>	<b>569454.97</b>	<b>302592.48</b>	<b>933090.77</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 8.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>D. Third Year Operations</b>									
1	1 weeding and 1 soil working (1.50 M.D per 100 seedlings) applying fertilizer @ Rs.0.82 per plant.	16.67	7308.46	911.02	8219.48	133.36	58467.69	7288.16	65755.85
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	355.84	156007.37	133440.00	289447.37
3	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	292.00	128018.64	0.00	128018.64
4	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	16.00	7014.72	200.00	7214.72
5	Fire tracing	2.00	876.84	0.00	876.84	16.00	7014.72	0.00	7014.72
	<b>Total</b>	<b>101.65</b>	<b>44565.39</b>	<b>17616.02</b>	<b>62181.41</b>	<b>813.20</b>	<b>356523.14</b>	<b>140928.16</b>	<b>497451.30</b>
	Contingency 3%				1865.44				14923.54
	Labour Welfare 4%				2487.26				19898.05
	<b>Grand Total</b>	<b>101.65</b>	<b>44565.39</b>	<b>17616.02</b>	<b>66534.11</b>	<b>813.20</b>	<b>356523.14</b>	<b>140928.16</b>	<b>532272.90</b>
<b>E. Fourth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	292.00	128018.64	0.00	128018.64
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	16.00	7014.72	200.00	7214.72
3	Fire Tracing	2.00	876.84	0.00	876.84	16.00	7014.72	0.00	7014.72
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>324.00</b>	<b>142048.08</b>	<b>200.00</b>	<b>142248.08</b>
	Contingency 3%				533.43				4267.44
	Labour Welfare 4%				711.24				5689.92
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>324.00</b>	<b>142048.08</b>	<b>200.00</b>	<b>152205.45</b>
<b>F. Fifth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	292.00	128018.64	0.00	128018.64
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	16.00	7014.72	200.00	7214.72
3	Fire Tracing	2.00	876.84	0.00	876.84	16.00	7014.72	0.00	7014.72
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>324.00</b>	<b>142048.08</b>	<b>200.00</b>	<b>142248.08</b>
	Contingency 3%				533.43				4267.44
	Labour Welfare 4%				711.24				5689.92
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>324.00</b>	<b>142048.08</b>	<b>200.00</b>	<b>152205.45</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 8.00 Ha.			
		Man days	Wages	Material Supply	Man days	Wages	Material Supply	Total
<b>G. Sixth Year Operations</b>								
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	292.00	128018.64	0.00	128018.64
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	16.00	7014.72	200.00	7214.72
3	Fire Tracing	2.00	876.84	0.00	16.00	7014.72	0.00	7014.72
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>324.00</b>	<b>142048.08</b>	<b>200.00</b>	<b>142248.08</b>
	Contingency 3%			0.00			0.00	4267.44
	Labour Welfare 4%			0.00			0.00	5689.92
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>324.00</b>	<b>142048.08</b>	<b>200.00</b>	<b>152205.45</b>
<b>H. Seventh Year Operations</b>								
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	292.00	128018.64	0.00	128018.64
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	16.00	7014.72	200.00	7214.72
3	Fire Tracing	2.00	876.84	0.00	16.00	7014.72	0.00	7014.72
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>324.00</b>	<b>142048.08</b>	<b>200.00</b>	<b>142248.08</b>
	Contingency 3%			0.00			0.00	4267.44
	Labour Welfare 4%			0.00			0.00	5689.92
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>324.00</b>	<b>142048.08</b>	<b>200.00</b>	<b>152205.45</b>
<b>I. Eight Year Operations</b>								
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	292.00	128018.64	0.00	128018.64
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	16.00	7014.72	200.00	7214.72
3	Fire Tracing	2.00	876.84	0.00	16.00	7014.72	0.00	7014.72
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>324.00</b>	<b>142048.08</b>	<b>200.00</b>	<b>142248.08</b>
	Contingency 3%			0.00			0.00	4267.44
	Labour Welfare 4%			0.00			0.00	5689.92
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>324.00</b>	<b>142048.08</b>	<b>200.00</b>	<b>152205.45</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 8.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>J. Nine Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	292.00	128018.64	0.00	128018.64
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	16.00	7014.72	200.00	7214.72
3	Fire Tracing	2.00	876.84	0.00	876.84	16.00	7014.72	0.00	7014.72
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>324.00</b>	<b>142048.08</b>	<b>200.00</b>	<b>142248.08</b>
	Contingency 3%			0.00	533.43			0.00	4267.44
	Labour Welfare 4%			0.00	711.24			0.00	5689.92
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>324.00</b>	<b>142048.08</b>	<b>200.00</b>	<b>152205.45</b>
<b>K. Tenth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	292.00	128018.64	0.00	128018.64
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	16.00	7014.72	200.00	7214.72
3	Fire Tracing	2.00	876.84	0.00	876.84	16.00	7014.72	0.00	7014.72
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>324.00</b>	<b>142048.08</b>	<b>200.00</b>	<b>142248.08</b>
	Contingency 3%			0.00	533.43			0.00	4267.44
	Labour Welfare 4%			0.00	711.24			0.00	5689.92
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>324.00</b>	<b>142048.08</b>	<b>200.00</b>	<b>152205.45</b>

  
**वनपरिक्षेत्र अधिकारी**  
 (प्र.) हदगांव

  
 Assistant Conservator of Forest  
 (TenduLeaves & Campa) Nanded

  
 (Keshav Wable)  
 Deputy Conservator of Forests,  
 Nanded Forest Division,  
 Nanded.

**Abstract for Model No. 5  
Fencing and Irrigated Plantations  
Model Rate Structure for Compensatory Afforestation**

Sr. No.	Year of Operation	Area : 1.00 ha. @ wage rate rs. 438.42/day					Area : 8.00 ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total		
1	Pre Monsoon Works	167.97	73641.41	193263.83	285588.60	1343.76	589131.26	1511110.64	2247258.83		
2	First Year Operations	192.65	84461.61	61569.64	156253.44	1541.20	675692.90	492557.12	1250027.53		
3	Second Year Operations	162.36	71181.87	37824.06	116636.35	1298.88	569454.97	302592.48	933090.77		
4	Third Year Operations	101.65	44565.39	17616.02	66534.11	813.20	356523.14	140928.16	532272.90		
5	Fourth Year Operations	40.50	17756.01	25.00	19025.68	324.00	142048.08	200.00	152205.45		
6	Fifth Year Operations	40.50	17756.01	25.00	19025.68	324.00	142048.08	200.00	152205.45		
7	Sixth Year Operations	40.50	17756.01	25.00	19025.68	324.00	142048.08	200.00	152205.45		
8	Seventh Year Operations	40.50	17756.01	25.00	19025.68	324.00	142048.08	200.00	152205.45		
9	Eight Year Operations	40.50	17756.01	25.00	19025.68	324.00	142048.08	200.00	152205.45		
10	Ninth Year Operations	40.50	17756.01	25.00	19025.68	324.00	142048.08	200.00	152205.45		
11	Tenth Year Operations	40.50	17756.01	25.00	19025.68	324.00	142048.08	200.00	152205.45		
	<b>Total</b>	<b>908.13</b>	<b>398142.35</b>	<b>310448.55</b>	<b>758192.27</b>	<b>7265.04</b>	<b>3185138.84</b>	<b>2448588.40</b>	<b>6028088.14</b>		

**वनपरिक्षेत्र अधिकारी  
(प्र.) हदगांव**

  
**Assistant Conservator of Forest  
(Tandulavna & Campa) Nanded**

  
**(Keshav Wable)  
Deputy Conservator of Forests,  
Nanded Forest Division,  
Nanded.**

**Model Rate Structure for Compensatory Afforestation**

**Model No..5**

**Fencing and Irrigated Plantations**

Model rate structure for plantation of mixed tree species having rainfall less than 800 mm and medium quality, medium drained soil.

Village - Brahamawadi Compt No. 350 e, Sur/Gut No. 1, Taluka - Hadgaon Dist. Nanded

Spacing  
3m x 3m

Size of Pits  
0.45 x 0.45 x 0.45 m

No. of Seedlings  
1111 per ha.

438.42

5.00

Wage Rate

Proposed Area

per day

Ha.

Year - 2023-24

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 5.00 Ha.			Total
		Man days	Wages	Material Supply	Man days	Wages	Material Supply	
<b>A. Pre Monsoon Works PPO/PYO</b>								
1	a.) Survey and demarcation	1.00	438.42	91.00	5.00	2192.10	455.00	2647.10
	b.) Preparation of treatment map (100 m x 50 m grid)	1.00	438.42	91.00	5.00	2192.10	455.00	2647.10
	c.) Digging trial pits of size 0.30 x 0.30 x 0.60 in corner of Grid.	0.40	175.37	0.00	2.00	876.84	0.00	876.84
	d.) Fixing 60cm x 0.05cm x 12 cm cement pillars upto 30cm deep in corner of Grid, painting with Grid No. etc. complete (3 pillars, Rs.75/- for each pillars)	0.00	0.00	225.00	0.00	0.00	1125.00	1125.00
	e.) Clearing of bushes and preparation of site (As per requirement)	10.00	4384.20	91.00	50.00	21921.00	455.00	22376.00
2	Soil and moisture conservation works including collection of rubbles from areas upto 30 m etc	31.00	13591.02	0.00	155.00	67955.10	0.00	67955.10
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. leadplus 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 50mm x 50m, 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	0.00	0.00	914328.00	914328.00

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 5.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
4	Alignment of pits at 3m x 3m spacement 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	13.90	6094.04	248.85	6342.89
5	Digging of pits of size 0.45 x 0.45 x 0.45 m (1111 pits per ha) 6.60 M.D. per 100 pits. Note :- As per local conditions provision for mechanized digging can be made.	73.33	32149.34	0.00	32149.34	366.65	160746.69	0.00	160746.69
6	Construction of 5.00 Rmt wide Inspection Path 1M.D. per 100 Rmt	1.00	438.42	0.00	438.42	5.00	2192.10	0.00	2192.10
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	3.75	1644.08	125.00	1769.08
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	5000.00	5000.00
9	Part Nursery cost of raising 1333 seedlings per ha (including 20% casualty replacement) in polygons of size 12.50 x 25.00 cm (wages Rs. 11.90 and M & S Rs. 3.62 per paint)	46.71	20478.60	4825.46	25304.06	233.55	102392.99	24127.30	126520.29
	<b>Total</b>	<b>167.97</b>	<b>73641.41</b>	<b>193263.83</b>	<b>266905.24</b>	<b>839.85</b>	<b>368207.04</b>	<b>946319.15</b>	<b>1314526.19</b>
	Contingency 3%				8007.16				39435.79
	Labour Welfare 4%				10676.21				52581.05
	<b>Grand Total</b>	<b>167.97</b>	<b>73641.41</b>	<b>193263.83</b>	<b>285588.60</b>	<b>839.85</b>	<b>368207.04</b>	<b>946319.15</b>	<b>1406543.02</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 5.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>B. First Year Operations</b>									
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	6488.62	1079.73	7568.35	74.00	32443.08	5398.65	37841.73
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	92.20	40422.32	9721.25	50143.57
3	Transportation of 1333 seedlings from Nursery to plantation site including loading & unloading (0.14 M.D. per 100 seedlings & M.S. Rs.1.82 per seedlings )	1.87	819.85	2426.00	3245.85	9.35	4099.23	12130.00	16229.23
4	Planting of 1111 seedlings (1.0 M.D. per 100 seedlings)	11.11	4870.85	0.00	4870.85	55.55	24354.23	0.00	24354.23
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	222.20	97416.92	4555.10	101972.02
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	296.25	129881.93	271975.00	401856.93
7	Casualty replacement (20% 222 Seedlings per ha.) (2 M.D. per 100 Seedlings)	4.44	1946.58	0.00	1946.58	22.20	9732.92	0.00	9732.92
8	Part Nursery cost for causality replacement in SYO (222 Seedlings per ha.) (wages Rs. 11.90 and material supply Rs.3.62 total Rs.12.55 per seedling)	7.77	3406.52	803.64	4210.16	38.85	17032.62	4018.20	21050.82
9	Watch and ward (10 months - 1 watcher per 10 ha )	27.38	12003.94	0.00	12003.94	136.90	60019.70	0.00	60019.70
10	Soil working for naturally grower plants and singling (1.15 M.D per 100 plants)	1.15	504.18	10.00	514.18	5.75	2520.92	50.00	2570.92
11	Fire tracing	2.00	876.84	0.00	876.84	10.00	4384.20	0.00	4384.20
	<b>Total</b>	<b>192.65</b>	<b>84461.61</b>	<b>61569.64</b>	<b>146031.25</b>	<b>963.25</b>	<b>422308.07</b>	<b>307848.20</b>	<b>730156.27</b>
	Contingency 3%			4380.94					21904.69
	Labour Welfare 4%			5841.25					29206.25
	<b>Grand Total</b>	<b>192.65</b>	<b>84461.61</b>	<b>61569.64</b>	<b>156253.44</b>	<b>963.25</b>	<b>422308.07</b>	<b>307848.20</b>	<b>781267.20</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 5.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>C. Second Year Operations</b>									
1	Part nursery cost for seedlings for causality replacement (222 seedlings per ha) labour rate @Rs. 3.77 M.S Rs. 1.82 per seedlings.	2.46	1078.51	404.00	1482.51	12.30	5392.57	2020.00	7412.57
2	Transportation of 222 seedlings for causality replacement from nursery to plantation site (including loading and unloading) wages 0.14 M.D per 100 Seedling & M.S Rs. 1.82 per seedlings	0.31	135.91	404.04	539.95	1.55	679.55	2020.20	2699.75
3	Planting for causality replacement 222 seedlings (2.00 M.D. per 100 seedlings)	4.44	1946.58	0.00	1946.58	22.20	9732.92	0.00	9732.92
4	2 Weeding and 1 soil working, with fertilizer application 2.5 M.D. per 100 seedlings at M.S Rs.0.82 per seedling	27.77	12174.92	911.02	13085.94	138.85	60874.62	4555.10	65429.72
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/maika, supplying water @Rs.0.50/- per litre and watering 150 seedlings per M.D.	88.88	38966.77	36105.00	75071.77	444.40	194833.85	180525.00	375358.85
6	Watch and ward 12 months - 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	182.50	80011.65	0.00	80011.65
7	Fire tracing	2.00	876.84	0.00	876.84	10.00	4384.20	0.00	4384.20
<b>Total</b>		<b>162.360</b>	<b>71181.87</b>	<b>37824.06</b>	<b>109005.93</b>	<b>811.80</b>	<b>355909.36</b>	<b>189120.30</b>	<b>545029.66</b>
Contingency 3%					3270.18				16350.89
Labour Welfare 4%					4360.24				21801.19
<b>Grand Total</b>		<b>162.36</b>	<b>71181.87</b>	<b>37824.06</b>	<b>116636.35</b>	<b>811.80</b>	<b>355909.36</b>	<b>189120.30</b>	<b>583181.73</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 5.00 Ha.			Total	Total
		Man days	Wages	Material Supply	Man days	Wages	Material Supply		
<b>D. Third Year Operations</b>									
1	1-weeding and 1 soil working (1.50 M.D per 100 seedlings) applying fertilizer @ Rs.0.82 per plant.	16.67	7308.46	911.02	83.35	36542.31	4555.10	8219.48	41097.41
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	222.40	97504.61	83400.00	36180.92	180904.61
3	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	182.50	80011.65	0.00	16002.33	80011.65
4	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	876.84	25.00	10.00	4384.20	125.00	901.84	4509.20
5	Fire tracing	2.00	876.84	0.00	10.00	4384.20	0.00	876.84	4384.20
	<b>Total</b>	<b>101.65</b>	<b>44565.39</b>	<b>17616.02</b>	<b>508.25</b>	<b>222826.97</b>	<b>88080.10</b>	<b>62181.41</b>	<b>310907.07</b>
	Contingency 3%							1865.44	9327.21
	Labour Welfare 4%							2487.26	12436.28
	<b>Grand Total</b>	<b>101.65</b>	<b>44565.39</b>	<b>17616.02</b>	<b>508.25</b>	<b>222826.97</b>	<b>88080.10</b>	<b>66534.11</b>	<b>332670.56</b>
<b>E. Fourth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	182.50	80011.65	0.00	16002.33	80011.65
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	10.00	4384.20	125.00	901.84	4509.20
3	Fire Tracing	2.00	876.84	0.00	10.00	4384.20	0.00	876.84	4384.20
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>202.50</b>	<b>88780.05</b>	<b>125.00</b>	<b>17781.01</b>	<b>88905.05</b>
	Contingency 3%							533.43	2667.15
	Labour Welfare 4%							711.24	3556.20
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>202.50</b>	<b>88780.05</b>	<b>125.00</b>	<b>19025.68</b>	<b>95128.40</b>
<b>F. Fifth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	182.50	80011.65	0.00	16002.33	80011.65
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	10.00	4384.20	125.00	901.84	4509.20
3	Fire Tracing	2.00	876.84	0.00	10.00	4384.20	0.00	876.84	4384.20
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>202.50</b>	<b>88780.05</b>	<b>125.00</b>	<b>17781.01</b>	<b>88905.05</b>
	Contingency 3%							533.43	2667.15
	Labour Welfare 4%							711.24	3556.20
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>202.50</b>	<b>88780.05</b>	<b>125.00</b>	<b>19025.68</b>	<b>95128.40</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 5.00 Ha.			Total	Material Supply	Total
		Man days	Wages	Material Supply	Man days	Wages	Material Supply			
<b>G. Sixth Year Operations</b>										
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	182.50	80011.65	0.00	16002.33	0.00	80011.65
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	10.00	4384.20	125.00	901.84	125.00	4509.20
3	Fire Tracing	2.00	876.84	0.00	10.00	4384.20	0.00	876.84	0.00	4384.20
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>202.50</b>	<b>88780.05</b>	<b>125.00</b>	<b>17781.01</b>	<b>125.00</b>	<b>88905.05</b>
	Contingency 3%		0.00	0.00			0.00	533.43	0.00	2667.15
	Labour Welfare 4%		0.00	0.00			0.00	711.24	0.00	3556.20
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>202.50</b>	<b>88780.05</b>	<b>125.00</b>	<b>19025.68</b>	<b>125.00</b>	<b>95128.40</b>
<b>H. Seventh Year Operations</b>										
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	182.50	80011.65	0.00	16002.33	0.00	80011.65
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	10.00	4384.20	125.00	901.84	125.00	4509.20
3	Fire Tracing	2.00	876.84	0.00	10.00	4384.20	0.00	876.84	0.00	4384.20
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>202.50</b>	<b>88780.05</b>	<b>125.00</b>	<b>17781.01</b>	<b>125.00</b>	<b>88905.05</b>
	Contingency 3%		0.00	0.00			0.00	533.43	0.00	2667.15
	Labour Welfare 4%		0.00	0.00			0.00	711.24	0.00	3556.20
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>202.50</b>	<b>88780.05</b>	<b>125.00</b>	<b>19025.68</b>	<b>125.00</b>	<b>95128.40</b>
<b>I. Eight Year Operations</b>										
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	182.50	80011.65	0.00	16002.33	0.00	80011.65
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	10.00	4384.20	125.00	901.84	125.00	4509.20
3	Fire Tracing	2.00	876.84	0.00	10.00	4384.20	0.00	876.84	0.00	4384.20
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>202.50</b>	<b>88780.05</b>	<b>125.00</b>	<b>17781.01</b>	<b>125.00</b>	<b>88905.05</b>
	Contingency 3%		0.00	0.00			0.00	533.43	0.00	2667.15
	Labour Welfare 4%		0.00	0.00			0.00	711.24	0.00	3556.20
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>202.50</b>	<b>88780.05</b>	<b>125.00</b>	<b>19025.68</b>	<b>125.00</b>	<b>95128.40</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 5.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>J. Nine Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	182.50	80011.65	0.00	80011.65
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	10.00	4384.20	125.00	4509.20
3	Fire Tracing	2.00	876.84	0.00	876.84	10.00	4384.20	0.00	4384.20
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>202.50</b>	<b>88780.05</b>	<b>125.00</b>	<b>88905.05</b>
	Contingency 3%			0.00	533.43			0.00	2667.15
	Labour Welfare 4%			0.00	711.24			0.00	3556.20
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>202.50</b>	<b>88780.05</b>	<b>125.00</b>	<b>95128.40</b>
<b>K. Tenth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	16002.33	0.00	16002.33	182.50	80011.65	0.00	80011.65
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	876.84	25.00	901.84	10.00	4384.20	125.00	4509.20
3	Fire Tracing	2.00	876.84	0.00	876.84	10.00	4384.20	0.00	4384.20
	<b>Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>17781.01</b>	<b>202.50</b>	<b>88780.05</b>	<b>125.00</b>	<b>88905.05</b>
	Contingency 3%			0.00	533.43			0.00	2667.15
	Labour Welfare 4%			0.00	711.24			0.00	3556.20
	<b>Grand Total</b>	<b>40.50</b>	<b>17756.01</b>	<b>25.00</b>	<b>19025.68</b>	<b>202.50</b>	<b>88780.05</b>	<b>125.00</b>	<b>95128.40</b>

  
**वनपरिक्षेत्र अधिकारी**  
 (प्र.) हदगांव

  
**Assistant Conservator of Forest**  
 (Tenduleaves & Campa) Nanded

  
 (Keshav Wable)  
 Deputy Conservator of Forests,  
 Nanded Forest Division,  
 Nanded.

**Abstract for Model No. 5  
Fencing and Irrigated Plantations  
Model Rate Structure for Compensatory Afforestation**

Sr. No.	Year of Operation	Area : 1.00 ha. @ wage rate rs. 438.42/day					Area : 5.00 ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total		
1	Pre Monsoon Works	167.97	73641.41	193263.83	285588.60	839.85	368207.04	946319.15	1406543.02		
2	First Year Operations	192.65	84461.61	61569.64	156253.44	963.25	422308.07	307848.20	781267.20		
3	Second Year Operations	162.36	71181.87	37824.06	116636.35	811.80	355909.36	189120.30	583181.73		
4	Third Year Operations	101.65	44565.39	17616.02	66534.11	508.25	222826.97	88080.10	332670.56		
5	Fourth Year Operations	40.50	17756.01	25.00	19025.68	202.50	88780.05	125.00	95128.40		
6	Fifth Year Operations	40.50	17756.01	25.00	19025.68	202.50	88780.05	125.00	95128.40		
7	Sixth Year Operations	40.50	17756.01	25.00	19025.68	202.50	88780.05	125.00	95128.40		
8	Seventh Year Operations	40.50	17756.01	25.00	19025.68	202.50	88780.05	125.00	95128.40		
9	Eight Year Operations	40.50	17756.01	25.00	19025.68	202.50	88780.05	125.00	95128.40		
10	Ninth Year Operations	40.50	17756.01	25.00	19025.68	202.50	88780.05	125.00	95128.40		
11	Tenth Year Operations	40.50	17756.01	25.00	19025.68	202.50	88780.05	125.00	95128.40		
	<b>Total</b>	<b>908.13</b>	<b>398142.35</b>	<b>310448.55</b>	<b>758192.27</b>	<b>4540.65</b>	<b>1990711.77</b>	<b>1532242.75</b>	<b>3769561.34</b>		

  
**वनपरिक्षेत्र अधिकारी  
(प्र.) हदगांव**

  
**Assistant Conservator of Forest  
(Tendulaves & Campa) Nanded**

  
**(Keshav Wable)**  
Deputy Conservator of Forests,  
Nanded Forest Division,  
Nanded.

**Abstract for Model No. 5**  
**Fencing and Irrigated Plantations**  
**Model Rate Structure for Compensatory Afforestation**

Sr. No.	Year of Operation	Area : 1.00 ha. @ wage rate rs. 457.65 /day				Village Hatola Area : 5.00 ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
1	Pre Monsoon Works	167.97	78473.90	193263.83	290759.38	839.85	392369.52	946319.15	1432396.88
2	First Year Operations	192.65	90004.15	61569.64	162183.96	963.25	450020.77	307848.20	810919.80
3	Second Year Operations	162.36	75852.97	37824.06	121634.42	811.80	379264.84	189120.30	608172.10
4	Third Year Operations	101.65	47489.86	17616.02	69663.30	508.25	237449.32	88080.10	348316.48
5	Fourth Year Operations	40.50	18921.20	25.00	20272.43	202.50	94605.98	125.00	101362.14
6	Fifth Year Operations	40.50	18921.20	25.00	20272.43	202.50	94605.98	125.00	101362.14
7	Sixth Year Operations	40.50	18921.20	25.00	20272.43	202.50	94605.98	125.00	101362.14
8	Seventh Year Operations	40.50	18921.20	25.00	20272.43	202.50	94605.98	125.00	101362.14
9	Eight Year Operations	40.50	18921.20	25.00	20272.43	202.50	94605.98	125.00	101362.14
10	Ninth Year Operations	40.50	18921.20	25.00	20272.43	202.50	94605.98	125.00	101362.14
11	Tenth Year Operations	40.50	18921.20	25.00	20272.43	202.50	94605.98	125.00	101362.14
	<b>Total</b>	<b>908.13</b>	<b>424269.25</b>	<b>310448.55</b>	<b>786148.05</b>	<b>4540.65</b>	<b>2121346.27</b>	<b>1532242.75</b>	<b>3909340.26</b>

  
 (Keshav Wable)  
 Deputy Conservator of Forests,  
 Nanded Forest Division,  
 Nanded.

**Fencing and Irrigated Plantations**

Model rate structure for plantation of mixed tree species having rainfall less than 800 mm and medium quality, medium drained soil.  
 Village - Hatola Compt No. 88 d, Sur/Gut No. 19, Taluka - Hadgaon Dist. Nanded

Spacement: 3m x 3m  
 Size of Pits 0.45 x 0.45 x 0.45 m  
 No. of Seedlings 1111 per ha.

Wage Rate Proposed Area 467.19 5.00 per day Ha. Year - 2023-24

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 5.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>A. Pre Monsoon Works PRO/PYO</b>									
1	a.) Survey and demarcation	1.00	467.19	91.00	558.19	5.00	2335.95	455.00	2790.95
	b.) Preparation of treatment map (100 m x 50 m grid)	1.00	467.19	91.00	558.19	5.00	2335.95	455.00	2790.95
	c.) Digging trial pits of size 0.30 x 0.30 x 0.60 in corner of Grid.	0.40	186.88	0.00	186.88	2.00	934.38	0.00	934.38
	d.) Fixing 60cm x 0.05cm x 12 cm cement pillars upto 30cm deep in corner of Grid, painting with Grid No. etc. complete	0.00	0.00	225.00	225.00	0.00	0.00	1125.00	1125.00
	e.) Clearing of bushes and preparation of site (As per requirement)	10.00	4671.90	91.00	4762.90	50.00	23359.50	455.00	23814.50
2	Soil and moisture conservation works including collection of rubbles from areas upto 30 m etc	31.00	14482.89	0.00	14482.89	155.00	72414.45	0.00	72414.45
3	Providing end 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. leadplus 20% for tribal/remote area (by tender process.) (Rs.1494-145+149= 1792/- per Rmt (1.60 Rmt height with G.I.Chain link size 50mm x 50m, 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	0.00	0.00	914328.00	914328.00

Sr. No.	Particulars of works	Area : 1.00 Ha.			Area : 5.00 Ha.				
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
4	Alignment of pits at 3m x 3m spacement 1111 pits per ha. (0.25 per 100 pits and M&S @ Rs.2.24 per 50 pits	2.78	1298.79	49.77	1348.56	13.90	6493.94	244.85	6742.79
5	Digging of pits of size 0.45 x 0.45 x 0.45 m (1111 pits per ha) 6.60 M.D./per 100 pits. Note :- As per local conditions provision for mechanized digging can be made.	73.33	34259.04	0.00	34259.04	366.65	171295.21	0.00	171295.21
6	Construction of 5.00 Rmt wide Inspection Path I.M.D. per 100 Rmt	1.00	467.19	0.00	467.19	5.00	2335.95	0.00	2335.95
7	Enumeration of all valuable plant species at plantation site and grid wise counting and providing collar band and recording the same in Register 0.75 M.D.) per 100 plants	0.75	350.39	25.00	375.39	3.75	1751.96	125.00	1876.96
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	5000.00	5000.00
9	Part Nursery cost of raising 1333 seedlings per ha (including 20% casually replacement) in polygons of size 12.50 x 25.00 cm (wages Rs. 11.90 and M & S Rs. 3.62 per plant)	46.71	21822.44	4825.46	26647.90	233.55	109112.22	24127.30	133239.52
<b>Total</b>		<b>167.97</b>	<b>78473.90</b>	<b>193263.83</b>	<b>271737.73</b>	<b>839.85</b>	<b>392369.52</b>	<b>946319.15</b>	<b>1338688.67</b>
Contingency 3%					8152.13				40160.66
Labour Welfare 4%					10869.51				53547.55
<b>Grand Total</b>		<b>167.97</b>	<b>78473.90</b>	<b>193263.83</b>	<b>290759.38</b>	<b>839.85</b>	<b>392369.52</b>	<b>946319.15</b>	<b>1432396.88</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 5.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
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	6914.41	1079.73	7994.14	74.00	34572.06	5398.65	39970.71
2	Refilling of pits by good quality soil including application of single super phosphate (1.66 MID per 100 pits)	18.44	8614.98	1944.25	10559.23	92.20	43074.92	9721.25	52796.17
3	Transportation of 1333 seedlings from Nursery to plantation site including loading & unloading (0.14 M.D. per 100 seedlings & M.S. Rs.1.82 per seedlings)	1.87	873.65	2426.00	3299.65	9.35	4368.23	12130.00	16498.23
4	Planting of 1111 seedlings (1.0 M.D. per 100 seedlings)	11.11	5190.48	0.00	5190.48	55.55	25952.40	0.00	25952.40
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	20761.92	911.02	21672.94	222.20	103809.62	4555.10	108364.72
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	27681.01	54395.00	82076.01	296.25	138405.04	271975.00	410380.04
7	Casualty replacement (20% 222 Seedlings per ha.) (2 M.D. per 100 Seedlings)	4.44	2074.32	0.00	2074.32	22.20	10371.62	0.00	10371.62
8	Part Nursery cost for causality replacement in SYO (222 Seedlings per ha.) (wages Rs. 11.90 and material supply Rs.3.62 total Rs.12.55 per seedling)	7.77	3630.07	803.64	4433.71	38.85	18150.33	4018.20	22168.55
9	Watch and ward (10 months - 1 watcher per 10 ha)	27.38	12791.66	0.00	12791.66	136.90	63958.31	0.00	63958.31
10	Soil working for naturally grower plants and singling (1.15 M.D per 100 plants)	1.15	537.27	10.00	547.27	5.75	2686.34	50.00	2736.34
11	Fire tracing	2.00	934.38	0.00	934.38	10.00	4671.90	0.00	4671.90
	<b>Total</b>								
	Contingency 3%	192.65	90004.15	61569.64	151573.79	963.25	450020.77	307848.20	757868.97
	Labour Welfare 4%				4547.21				22736.07
	<b>Grand Total</b>	192.65	90004.15	61569.64	162183.96	963.25	450020.77	307848.20	810919.80

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 5.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
1	Part nursery cost for seedlings for causality replacement (222 seedlings per ha) labour rate @Rs. 3.77 M.S Rs.1.82 per seedlings.	2.46	1149.29	404.00	1553.29	12.30	5746.44	2020.00	7766.44
2	Transportation of 222 seedlings for causality replacement from nursery to plantation site (including loading and unloading) wages 0.14 M.D per 100 Seedling & M.S Rs. 1.82 per seedlings	0.31	144.83	404.04	548.87	1.55	724.14	2020.20	2744.34
3	Planting for causality replacement 222 seedlings (2.00 M.D. per 100 seedlings)	4.44	2074.32	0.00	2074.32	22.20	10371.62	0.00	10371.62
4	2 Weedings and 1 soil working, with fertilizer application 2.5 M.D. per 100 seedlings at M.S Rs.0.82 per seedling	27.77	12973.87	911.02	13884.89	138.85	64869.33	4555.10	69424.43
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	41523.85	36105.00	77628.85	444.40	207619.24	180525.00	388144.24
6	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	17052.44	0.00	17052.44	182.50	85262.18	0.00	85262.18
7	Fire tracing	2.00	934.38	0.00	934.38	10.00	4671.90	0.00	4671.90
	<b>Total</b>	<b>162.360</b>	<b>75852.97</b>	<b>37824.06</b>	<b>113677.03</b>	<b>811.80</b>	<b>379264.84</b>	<b>189120.30</b>	<b>568385.14</b>
	Contingency 3%				3410.31				17051.55
	Labour Welfare 4%				4547.08				22735.41
	<b>Grand Total</b>	<b>162.36</b>	<b>75852.97</b>	<b>37824.06</b>	<b>121634.42</b>	<b>811.80</b>	<b>379264.84</b>	<b>189120.30</b>	<b>608172.10</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 5.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>D. Third Year Operations</b>									
1	1 weeding and 1 soil working (1.50 M.D per 100 seedlings) applying fertilizer @ Rs.0.82 per plant.	16.67	7788.06	911.02	8699.08	83.35	38940.29	4555.10	43495.39
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	20780.61	16680.00	37460.61	222.40	103903.06	83400.00	187303.06
3	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	17052.44	0.00	17052.44	182.50	85262.18	0.00	85262.18
4	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	934.38	25.00	959.38	10.00	4671.90	125.00	4796.90
5	Fire tracing	2.00	934.38	0.00	934.38	10.00	4671.90	0.00	4671.90
	<b>Total</b>								
	Contingency 3%	101.65	47489.86	17616.02	65105.88	508.25	237449.32	88080.10	335529.42
	Labour Welfare 4%				1953.18		2604.24		9765.88
	<b>Grand Total</b>	<b>101.65</b>	<b>47489.86</b>	<b>17616.02</b>	<b>69663.30</b>	<b>508.25</b>	<b>237449.32</b>	<b>88080.10</b>	<b>348316.48</b>
<b>E. Fourth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	17052.44	0.00	17052.44	182.50	85262.18	0.00	85262.18
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	934.38	25.00	959.38	10.00	4671.90	125.00	4796.90
3	Fire Tracing	2.00	934.38	0.00	934.38	10.00	4671.90	0.00	4671.90
	<b>Total</b>								
	Contingency 3%	40.50	18921.20	25.00	18946.20	202.50	94605.98	125.00	94730.98
	Labour Welfare 4%				568.39		2841.93		3789.24
	<b>Grand Total</b>	<b>40.50</b>	<b>18921.20</b>	<b>25.00</b>	<b>20272.43</b>	<b>202.50</b>	<b>94605.98</b>	<b>125.00</b>	<b>101362.14</b>
<b>F. Fifth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	17052.44	0.00	17052.44	182.50	85262.18	0.00	85262.18
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	934.38	25.00	959.38	10.00	4671.90	125.00	4796.90
3	Fire Tracing	2.00	934.38	0.00	934.38	10.00	4671.90	0.00	4671.90
	<b>Total</b>								
	Contingency 3%	40.50	18921.20	25.00	18946.20	202.50	94605.98	125.00	94730.98
	Labour Welfare 4%				568.39		2841.93		3789.24
	<b>Grand Total</b>	<b>40.50</b>	<b>18921.20</b>	<b>25.00</b>	<b>20272.43</b>	<b>202.50</b>	<b>94605.98</b>	<b>125.00</b>	<b>101362.14</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 5.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>G. Sixth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	17052.44	0.00	17052.44	182.50	85262.18	0.00	85262.18
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	934.38	25.00	959.38	12.00	4671.90	125.00	4796.90
3	Fire Tracing	2.00	934.38	0.00	934.38	10.00	4671.90	0.00	4671.90
	<b>Total</b>	<b>40.50</b>	<b>18921.20</b>	<b>25.00</b>	<b>18946.20</b>	<b>202.50</b>	<b>94605.98</b>	<b>125.00</b>	<b>94730.98</b>
	Contingency 3%			0.00	568.39			0.00	2841.93
	Labour Welfare 4%			0.00	757.85			0.00	3789.24
	<b>Grand Total</b>	<b>40.50</b>	<b>18921.20</b>	<b>25.00</b>	<b>20272.43</b>	<b>202.50</b>	<b>94605.98</b>	<b>125.00</b>	<b>101362.14</b>
<b>H. Seventh Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	17052.44	0.00	17052.44	182.50	85262.18	0.00	85262.18
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	934.38	25.00	959.38	10.00	4671.90	125.00	4796.90
3	Fire Tracing	2.00	934.38	0.00	934.38	10.00	4671.90	0.00	4671.90
	<b>Total</b>	<b>40.50</b>	<b>18921.20</b>	<b>25.00</b>	<b>18946.20</b>	<b>202.50</b>	<b>94605.98</b>	<b>125.00</b>	<b>94730.98</b>
	Contingency 3%			0.00	568.39			0.00	2841.93
	Labour Welfare 4%			0.00	757.85			0.00	3789.24
	<b>Grand Total</b>	<b>40.50</b>	<b>18921.20</b>	<b>25.00</b>	<b>20272.43</b>	<b>202.50</b>	<b>94605.98</b>	<b>125.00</b>	<b>101362.14</b>
<b>I. Eight Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	17052.44	0.00	17052.44	182.50	85262.18	0.00	85262.18
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	934.38	25.00	959.38	10.00	4671.90	125.00	4796.90
3	Fire Tracing	2.00	934.38	0.00	934.38	10.00	4671.90	0.00	4671.90
	<b>Total</b>	<b>40.50</b>	<b>18921.20</b>	<b>25.00</b>	<b>18946.20</b>	<b>202.50</b>	<b>94605.98</b>	<b>125.00</b>	<b>94730.98</b>
	Contingency 3%			0.00	568.39			0.00	2841.93
	Labour Welfare 4%			0.00	757.85			0.00	3789.24
	<b>Grand Total</b>	<b>40.50</b>	<b>18921.20</b>	<b>25.00</b>	<b>20272.43</b>	<b>202.50</b>	<b>94605.98</b>	<b>125.00</b>	<b>101362.14</b>

Sr. No.	Particulars of works	Area : 1.00 Ha.				Area : 5.00 Ha.			
		Man days	Wages	Material Supply	Total	Man days	Wages	Material Supply	Total
<b>J. Nine Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	17052.44	0.00	17052.44	182.50	85262.18	0.00	85262.18
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	934.38	25.00	959.38	10.00	4671.90	125.00	4796.90
3	Fire Tracing	2.00	934.38	0.00	934.38	10.00	4671.90	0.00	4671.90
	<b>Total</b>	<b>40.50</b>	<b>18921.20</b>	<b>25.00</b>	<b>18946.20</b>	<b>202.50</b>	<b>94605.98</b>	<b>125.00</b>	<b>94730.98</b>
	Contingency 3%			0.00	568.39			0.00	2841.93
	Labour Welfare 4%			0.00	757.85			0.00	3789.24
	<b>Grand Total</b>	<b>40.50</b>	<b>18921.20</b>	<b>25.00</b>	<b>20272.43</b>	<b>202.50</b>	<b>94605.98</b>	<b>125.00</b>	<b>101362.14</b>
<b>K. Tenth Year Operations</b>									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	17052.44	0.00	17052.44	182.50	85262.18	0.00	85262.18
2	Counting of survival percentage Grid wise and Specie wise and to Note the same on Register in May and October.	2.00	934.38	25.00	959.38	10.00	4671.90	125.00	4796.90
3	Fire Tracing	2.00	934.38	0.00	934.38	10.00	4671.90	0.00	4671.90
	<b>Total</b>	<b>40.50</b>	<b>18921.20</b>	<b>25.00</b>	<b>18946.20</b>	<b>202.50</b>	<b>94605.98</b>	<b>125.00</b>	<b>94730.98</b>
	Contingency 3%			0.00	568.39			0.00	2841.93
	Labour Welfare 4%			0.00	757.85			0.00	3789.24
	<b>Grand Total</b>	<b>40.50</b>	<b>18921.20</b>	<b>25.00</b>	<b>20272.43</b>	<b>202.50</b>	<b>94605.98</b>	<b>125.00</b>	<b>101362.14</b>

  
 (Keshav Wable)  
 Deputy Conservator of Forests,  
 Nanded Forest Division,  
 Nanded.