

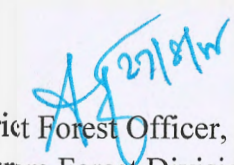
# PROPOSAL FOR COMPENSATORY AFFORESTATION IN VILLUPURAM DIVISION FOR THE YEAR 2015-16

**Cost of Project: Rs. 10.95 Lakhs**

Sl. No	Item of work	Unit	Per	Unit cost	Weightage due to escalation of Labour Wage rate	Proposed Unit cost	Total Units	Total Cost	Remarks
1	<b>River bed planting</b>								
1	Afforestation of barren river bed area of Malattar river	Ha.,	1	97265.00	--	97265.00	6 Ha	583590.00	--
2	Ist year Maintenance of river bed planting in Malattar river	Ha.,	1	38588.00	3858.80	42446.80	6 Ha	254680.80	10% Weightage towards escalation of labour wage rate during 2016-17
3	IInd year Maintenance of river bed planting in Malattar river	Ha.,	1	35663.00	7132.60	42795.60	6 Ha	256773.60	20% Weightage towards escalation of labour wage rate during 2017-18
						<b>Total</b>		<b>1095044.40</b>	
							<b>Or</b>	<b>1095044</b>	

(Rupees Ten lakhs and ninety five thousand and forty four only)

The item of works mentioned in the model estimate shall be adopted subject to field conditions and as per FSR of that year

  
 District Forest Officer,  
 Viluppuram Forest Division,  
 Viluppuram.

**MODEL ESTIMATE FOR RAISING NURSERY FOR COMPENSATORY AFFORESTATION OVER 10 HA., IN  
VILLUPURAM DIVISION DURING 2015-16**

1	Area of Plantation	10	Ha.,
2	Seedlings required for 1 Ha.,	400	Nos
3	Total Seedlings required for 10 Ha.,	4000	Nos
4	Seedling required for Casualty	400	Nos

Total Seedlings 4400  
Size of the Bag 30x45x400G

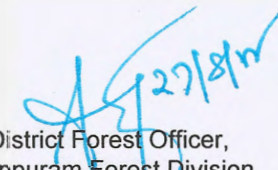
Labour Wage Rate for 2015-16 Rs. 287.75

Nursery Period Feb to August

Sl. No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amount
			<b>PART I - NURSERY</b>					
			<b>2015-16</b>					
1	4400	Nos.	Cost of Polythene Bags 10x20x200 size	Industry rate		567	1000	2495
2	4400	Nos.	Cost of Polythene Bags 30x45x400 size	Industry rate		6220	1000	27368
3	4.4	Kg	Cost of Seeds (1 Kg/ 1000 Nos)	L.R.		50	1	220
4	88	M <sup>2</sup>	Preparation of Nursery by clearing and levelling the site for forming beds (20 M <sup>2</sup> / 1000 Nos.) for 10X 20 cm bags	4.1	2.42	696.36	200	306
5	0.88	Nos.	Formation of germination bed of size 10mx10mx0.30m@ one bed/5000 Nos.	M.E. 2004-05		100	1	88
6	0.88	Nos.	Watering the germination beds twice daily with rose can(15 days)	4.5.1	0.82	235.96	10	311
	15	Days					1	0
7	0.88	Nos.	Watering the germination beds once daily with rose can(15 days)	4.5.1	0.41	117.98	10	156
	15	Days					1	0
8	1.936	M <sup>3</sup>	Collection and supply of good quality earth for filling in (10X 20cm) polythene bags (0.44M <sup>3</sup> /1000)	L.R.		500	1	968
9	0.484	M <sup>3</sup>	Collection and supply of Farmyard manure (0.11 M <sup>3</sup> /1000)	L.R.		500	1	242
10	0.647	M <sup>3</sup>	Collection and supply of sand 0.147 M <sup>3</sup> /1000)	L.R.		500	1	324
11	4400	Nos.	Preparation of Soil Mixture by breaking clods, sieving mixing with fertile earth (*including red soil, sikit and sand etc., according to requirements) and farm yard manure at the ratio 4:1 heaping at the filling sites filling in polythene bags and arranging bags in beds and pricking out the seedlings. (excluding the cost of FYM and earth)	4.6.3	3.53	1015.76	1000	4469

Sl. No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amount
12	4400	Nos.	Watering container plants twice daily (10 Days) 10x20 bags	4.10.3	0.20	57.55	1000	2532
	10	Days					1	
13	4400	Nos.	Watering container plants once daily (30 Days) 10x20 bags	4.11.3	0.10	28.78	1000	3799
	30	Days					1	
14	4400	Nos.	Watering container plants once in alternate days with rose can for 60 days (30 Days) 10x20 bags	4.11.3	0.10	28.78	1000	3799
	30	Days					1	
15	4400	Nos.	Shifting the container plants (10x20) bags	4.15.3	0.33	94.96	1000	836
	2	Times					1	
16	4400		Cost of Water (10x20)			0.60	1000	185
	70	Days					1	
17	293.33	M <sup>2</sup>	Preparation of Nursery by clearing and levelling the site for forming beds (20 M <sup>2</sup> / 300 Nos.) for 30X 45 cm bags	4.1	2.42	696.36	200	1021
18	14.23	M <sup>3</sup>	Collection and supply of good quality earth for filling in (30X45 cm) polythene bags (0.44M <sup>3</sup> /1000)	L.R.		500	1	7115
19	14.23	M <sup>3</sup>	Collection and supply of Farmyard manure (0.11 M <sup>3</sup> /1000)(30X 45cm)	L.R.		500	1	7115
20	14.23	M <sup>3</sup>	Collection and supply of sand 0.147 M <sup>3</sup> /1000) (30 X 45cm)	L.R.		500	1	7115
21	4400	Nos.	Preparation of Soil Mixture by breaking clods, sieving mixing with fertile earth (*including red soil, sikit and sand etc., according to requirements) and farm yard manure at the ratio 4:1 heaping at the filling sites filling in polythene bags and arranging bags in beds and pricking out the seedlings. (excluding the cost of FYM and earth) (30X 45cm bags)	4.6.7	28.57	8221.02	1000	36172
			<b>Cost of Bio-fertilizers</b>					
22	17.6	Kg	Cost of Azospirillum @ 4 gm/plant	Research rate		15	1	264
23	17.6	Kg	Cost of Phospobacteria @ 4 gm/plant			15	1	264
24	26.4	Kg	Cost of VAM @ 6 gm/plant			10	1	264
25	35.2	Kg	Cost of Vermicasting @ 8 gm/plant			5.5	1	194
26	4400	Mz	Labour cost for transplanting		1	287.75	100	12661
27	4400	Nos.	Watering container plants twice daily (10 Days) 30x45x400 bags	4.10.7	0.56	161.14	1000	7090
	10	Days					1	
28	4400	Nos.	Watering container plants once daily (30 Days) 30x45x400 bags	4.10.7	0.28	80.57	1000	10635
	30	Days					1	
29	4400		Cost of Water (30x40)			3.6	1000	634
	40	Days					1	

Sl. No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amount
30	4400	Nos.	Shifting the container (30x45)	4.15.7	2.69	774.05	1000	13623
	4	Times					1	
31	0.44	Nos.	Protection mazdoor for watch and ward Nursery and for application of manure pesticide at rate of 1 Mazdoor /10000 Seedlings.	F.S.R 2015-16	Rate arrived for 1000 seedlings	287.75	1	18992
	150	Days					1	
32		L.S	Contingencies and unforeseen Charges			L.S.		1743
			Sub Total					173000
			<b>Total cost of Nursery</b>					<b>173000</b>
			<b>Prorata per Ha.,</b>					<b>17300.00</b>

  
 District Forest Officer,  
 Viluppuram Forest Division,  
 Viluppuram.

**MODEL ESTIMATE FOR PLANTING FOR COMPENSATORY AFFORESTATION OVER 10 HA., IN  
VILLUPURAM DIVISION DURING 2015-16**

1	Area of Plantation	10	Ha.,
2	Seedlings required for 1 Ha.,	400	Nos
3	Total Seedlings required for 10 Ha.,	4000	Nos
4	Seedling required for Casualty	400	Nos
Total Seedlings		4400	Nos
Size of the Bag		30x45x400G	

Labour Wage Rate for 2015-16 Rs. 287.75

Sl. No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amount
			PART II - PLANTING					
1	4400	Nos.	Transporting saplings (transported upto 40 Kms)	As per PCCF ME		5.00	1	22000
2	4400	Nos.	Loading and unloading the seedlings.	5.11.7	3.29	946.70	1000	4165
3	4400	Nos.	Distribution of saplings upto 100 mts.	5.15.1	10	2877.50	1000	12661
4	4000	Nos.	Digging 60 cm <sup>3</sup> pits in river bed - sandy soil	5.8.1	9.26	2664.57	100	106583
5	4000	Nos.	Planting the container plants by refilling pits of 60 cm <sup>3</sup> in plains	5.2	1.71	492.05	100	19682
6	216	M <sup>3</sup>	Cost and transport of FYM @ 0.054 m3 for 60cm3 pits (1/4 volume)	L.R.		500.00	1	108000
7	4000	Nos.	Scrap weeding for 1m dia and soil working 15mm depth around each plant and removing the grass roots away from the site or upturning the soil. Both in plains and hills.	5.24	1.23	353.93	100	14157
8	4000	Nos.	Mulching the planted seedlings at 100 gms coconut husk per pit	Lump Sum		2.00	1	8000
8	4000	Nos.	Watering planted saplings from January to March for 3 months	As per PCCF ME	10000 Nos./3 months	9.00	each/3 months	36000
10	4000	Nos.	Cost for water 20 litres per seedling	As per PCCF ME	10000 Nos./15 watering days	3.75/20 litres	each/ watering day	225000
11	400	Nos.	Replacement of casualties			1824.335	100	7297
12		L.S.	Contingencies for unforeseen expenditure	Lump Sum				3455
			Sub Total					567000
			Cost per Ha.,					
			PART III - PROTECTION					
13	4000	Nos.	Fencing with locally available materials	5.36.1 Chennai circle		15.00	1	60000
14	4	No	Engaging protection mazdoor @1 Mazdoor / 1000 Plants from October to March @ 25 days / month.	As per FSR mandays		287.75	1	172650
	150	Days						
			Sub Total					232650
			Cost per Ha.,					
				23265.00				

**PART I FOR NURSERY  
PART II FOR PLANTING  
PART III - PROTECTION  
PRORATA FOR HA.,**

**Rs. 17300  
Rs. 56700  
Rs. 23265  
Rs. 97265**

District Forest Officer,  
Viluppuram Forest Division,  
Viluppuram.

**MODEL ESTIMATE FOR 1st Year Maintenance FOR COMPENSATORY AFFORESTATION OVER 10 HA., IN  
VILUPPURAM DIVISION DURING 2015-16**

1	Area of Plantation	10	Ha.,
2	Seedlings Planted in 1 Ha.,	400	Nos
3	Total Seedlings Planted in 10 Ha.,	4000	Nos
4	Seedling required for Casualty	400	Nos
	<b>Total Seedlings</b>	<b>4400</b>	<b>Nos</b>

Component

Size of the Bag 30x45x400G

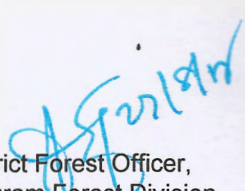
Labour Wage Rate for 2015-16

Rs. 287.75

Sl. No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amount
<b>2015-16</b>								
1	400	Nos.	Cost of Taller Plants	As per Model Estimate		39.00	1	15600
2	400	Nos.	Transporting saplings (transported upto 40 Kms)	As per PCCF ME		5.00	1	2000
3	400	Nos.	Loading and unloading the seedlings.	5.11.7	3.29	946.70	1000	379
4	400	Nos.	Distribution of saplings upto 100 mts.	5.15.1	10	2877.50	1000	1151
5	4000	Nos.	Scrap weeding for 1m dia and soil working 15mm depth around each plant and removing the grass roots away from the site or upturning the soil. Both in plains and hills.	5.24	1.23	353.93	100	14157
6	400	Nos.	Replacement of casualties			1824.34	100	7297
7	4 300	No Days	Engaging protection mazdoor @1 Mazdoor / 10000 Plants from October to March @ 25 days / month.	As per FSR mandays		287.75	1	345300
8		L.S	Contingencies and unforeseen Charges	L.S				
			Sub Total					385884
			Prorata per Ha.,					38588.00

**RATE PER Ha.,**  
**Add 10% escalation**  
**PROTATA PER HA.,**

**Rs. 38588.00**  
**Rs. 3858.80**  
**Rs. 42447.00**

  
District Forest Officer,  
Viluppuram Forest Division,  
Viluppuram.

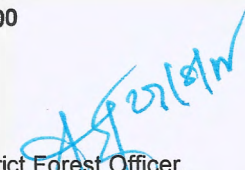
**MODEL ESTIMATE FOR IInd Year Maintenance FOR COMPENSATORY AFFORESTATION OVER 10 HA.,  
IN VILUPPURAM DIVISION DURING 2015-16**

1	Area of Plantation	10	Ha.,
2	Seedlings Planted in 1 Ha.,	400	Nos
3	Total Seedlings Planted in 10 Ha.,	4000	Nos
Labour Wage Rate for 2015-16		Rs. 287.75	

Sl. No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amount
	3200	Nos.	Scrap weeding for 1m dia and soil working 15mm depth around each plant and removing the grass roots away from the site or upturning the soil. Both in plains and hills.	5.24	1.23	353.93	100	11326
10	4	No	Engaging protection mazdoor @1 Mazdoor / 1000 Plants for 300 days in a year	As per FSR mandays		287.75	1	345300
	300	Days						
			<b>Sub Total</b>					<b>356626</b>
			<b>Cost per Ha.,</b>					<b>35663.00</b>

RATE PER HA.,  
Add 20% escalation  
PROTATA PER HA.,

Rs. 35663.00  
Rs. 7132.60  
Rs. 42796.00

  
District Forest Officer,  
Viluppuram Forest Division,  
Viluppuram.