

PROPOSAL FOR COMPENSATORY AFFORESTATION IN VILLUPURAM DIVISION

Cost of Project: Rs. 0.56 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	River bed planting								
1	Afforestation of sandy river bed area of Malattar river	Ha.,	1	29953.00	32948.3	32948.30	1 Ha	32948.30	
2	1st year Maintenance of river bed planting in Malattar river	Ha.,	1	10612.00	1061.20	11673.20	1 Ha	11673.20	10% Weightage towards escalation of labour wage rate during 2016-17
3	11nd year Maintenance of river bed planting in Malattar river	Ha.,	1	8987.00	1797.40	10784.40	1 Ha	10784.40	20% Weightage towards escalation of labour wage rate during 2017-18
						Total	55405.90		
						Or 55406			

(Rupees Fifty five thousand four hundred and six 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 1 HA., IN
VILLUPURAM DIVISION**

Area of Plantation 1 Ha.,
Seedlings required for 1 Ha., 110 Nos
Seedling required for Casualty 11 Nos

Total Seedlings 121
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
			PART I - NURSERY					
			2015-16					
1	121	Nos.	Cost of Polythene Bags 10x20x200 size	Industry rate		567	1000	69
2	121	Nos.	Cost of Polythene Bags 30x45x400 size	Industry rate		6220	1000	753
3	0.121	Kg	Cost of Seeds (1 Kg/ 1000 Nos)	L.R.		50	1	6
4	2.42	M ²	Preparation of Nursery by clearing and levelling the site for forming beds (20 M ² / 1000 Nos.) for 10X 20 cm bags	4.1	2.42	696.36	200	8
5	0.0242	Nos.	Formation of germination bed of size 10mx10mx0.30m@ one bed/5000 Nos.	M.E. 2004-05		100	1	2
6	0.0242	Nos.	Watering the germination beds twice daily with rose can(15 days)	4.5.1	0.82	235.96	10	9
	15	Days					1	0
7	0.0242	Nos.	Watering the germination beds once daily with rose can(15 days)	4.5.1	0.41	117.98	10	4
	15	Days					1	0
8	0.05324	M ³	Collection and supply of good quality earth for filling in (10X 20cm) polythene bags (0.44M ³ /1000)	L.R.		500	1	27
9	0.013	M ³	Collection and supply of Farmyard manure (0.11 M ³ /1000)	L.R.		500	1	7
10	0.018	M ³	Collection and supply of sand 0.147 M ³ /1000)	L.R.		500	1	9
11	121	Nos.	Preparation of Soil Mixture by breaking clods, seiving 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	123
12	121	Nos.	Watering container plants twice daily (10 Days) 10x20 bags	4.10.3	0.20	57.55	1000	70

Sl. No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amount
	10	Days					1	
13	121	Nos.	Watering container plants once daily (30 Days) 10x20 bags	4.11.3	0.10	28.78	1000	104
	30	Days					1	
14	121	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	104
	30	Days					1	
15	121	Nos.	Shifting the container plants (10x20) bags	4.15.3	0.33	94.96	1000	23
	2	Times					1	
16	121		Cost of Water (10x20)			0.60	1000	5
	70	Days					1	
17	8.07	M ²	Preparation of Nursery by clearing and levelling the site for forming beds (20 M ² / 300 Nos.) for 30X 45 cm bags	4.1	2.42	696.36	200	28
18	0.391	M ³	Collection and supply of good quality earth for filling in (30X45 cm) polythene bags (0.44M ³ /1000)	L.R.		500	1	196
19	0.391	M ³	Collection and supply of Farmyard manure (0.11 M ³ /1000)(30X 45cm)	L.R.		500	1	196
20	0.391	M ³	Collection and supply of sand 0.147 M ³ /1000) (30 X 45cm)	L.R.		500	1	196
21	121	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	995
			Cost of Bio-fertilizers					
22	0.5	Kg	Cost of Azospirillum @ 4 gm/plant	Research rate		27	1	14
23	0.5	Kg	Cost of Phospobacteria @ 4 gm/plant			27	1	14
24	0.7	Kg	Cost of VAM @ 6 gm/plant			18	1	13
25	1	Kg	Cost of Vermicasting @ 8 gm/plant			10	1	10
26	121	Mz	Labour cost for transplanting		1	287.75	100	348
27	121	Nos.	Watering container plants twice daily (10 Days) 30x45x400 bags	4.10.7	0.56	161.14	1000	195
	10	Days					1	
28	121	Nos.	Watering container plants once daily (30 Days) 30x45x400 bags	4.10.7	0.28	80.57	1000	292
	30	Days					1	
29	121		Cost of Water (30x40)			3.6	1000	17
	40	Days					1	
30	121	Nos.	Shifting the container (30x45)	4.15.7	2.69	774.05	1000	375

Sl. No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amount
	4	Times					1	
31	0.0121	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	522
	150	Days					1	
32		L.S	Contingencies and unforeseen Charges			L.S.		1743
			Sub Total					6477
			Total cost of Nursery					6477
			Prorata per Ha.,					6477.00


 District Forest Officer,
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 Viluppuram.


 5-2-16

**MODEL ESTIMATE FOR PLANTING FOR COMPENSATORY AFFORESTATION OVER 1 HA., IN
VILLUPURAM DIVISION**

Area of Plantation	1	Ha.,
Seedlings required for 1 Ha.,	110	Nos
Seedling required for Casualty	11	Nos
Total Seedlings	121	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	121	Nos.	Transporting saplings (transported upto 40 Kms)	As per PCCF ME		5.00	1	605
2	121	Nos.	Loading and unloading the seedlings.	5.11.7	3.29	946.70	1000	115
3	121	Nos.	Distribution of saplings upto 100 mts.	5.15.1	10	2877.50	1000	348
4	100	Nos.	Digging 60 cm ³ pits in river bed - sandy soil	5.8.1	9.26	2664.57	100	2665
5	100	Nos.	Planting the container plants by refilling pits of 60 cm ³ in plains	5.22	1.71	492.05	100	492
6	5.4	M ³	Cost and transport of FYM @ 0.054 m3 for 60cm3 pits (1/4 volume)	L.R.		500.00	1	2700
7	100	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	354
8	100	Nos.	Mulching the planted seedlings at 100 gms coconut husk per pit	Lump Sum		2.00	1	200
8	100	Nos.	Watering planted saplings from January to March for 3 months	As per PCCF ME	10000 Nos./3 months	9.00	each/3 months	900
10	100	Nos.	Cost for water 20 litres per seedling	As per PCCF ME	10000 Nos./15 watering days	3.75/20 litres	each/ watering g day	5625
11	11	Nos.	Replacement of casualties			1824.335	100	201
12		L.S.	Contingencies for unforeseen expenditure	Lump Sum				3455
			Sub Total					17660
			Cost per Ha.,					17660.00
			PART III - PROTECTION					
13	100	Nos.	Fencing with locally available materials	5.36.1 Chennai circle		15.00	1	1500
14	0.1	No	Engaging protection mazdoor @1 Mazdoor / 1000 Plants from October to March @ 25 days / month.	As per FSR mandays		287.75	1	4316
	150	Days						
			Sub Total					5816
			Cost per Ha.,					5816.00

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

Rs. 6477
Rs. 17660
Rs. 5816
Rs. 29953

District Forest Officer,
Viluppuram Forest Division,
Viluppuram.

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5-2-18

**MODEL ESTIMATE FOR 1st Year Maintenance FOR COMPENSATORY AFFORESTATION OVER 1 HA., IN
VILUPPURAM DIVISION**

Area of Plantation 1 Ha.,
Seedlings Planted in 1 Ha., 110 Nos
Seedling required for Casualty 11 Nos
Total Seedlings 121 Nos

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
2015-16								
1	11	Nos.	Cost of Taller Plants	As per Model Estimate		39.00	1	429
2	11	Nos.	Transporting saplings (transported upto 40 Kms)	As per PCCF ME		5.00	1	55
3	11	Nos.	Loading and unloading the seedlings.	5.11.7	3.29	946.70	1000	.10
4	11	Nos.	Distribution of saplings upto 100 mts.	5.15.1	10	2877.50	1000	32
5	110	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	389
6	11	Nos.	Replacement of casualties			1824.34	100	201
7	0.11	No	Engaging protection mazdoor @1 Mazdoor / 10000 Plants from	As per FSR mandays		287.75	1	9496
	300	Days	October to March @ 25 days / month.					
8		L.S	Contingencies and unforeseen Charges			L.S		
			Sub Total					10612
			Prorata per Ha.,					10612.00

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

Rs. 10612.00
Rs. 1061.20
Rs. 11673.00

District Forest Officer,
Viluppuram Forest Division,
Viluppuram.

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**MODEL ESTIMATE FOR IInd Year Maintenance FOR COMPENSATORY AFFORESTATION OVER 1 HA.,
IN VILUPPURAM DIVISION**

1 Area of Plantation 1 Ha.,
2 Seedlings Planted in 1 Ha., 100 Nos
Labour Wage Rate for 2015-16 Rs. 287.75

Sl. No.	Quantity		Details of Work	FSR Item No.	Mandays required	Rate	Per	Amount
	100	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	354
10	0.1	No	Engaging protection mazdoor @1 Mazdoor / 1000 Plants for 300 days in a year	As per FSR mandays		287.75	1	8633
	300	Days						
			Sub Total					8987
			Cost per Ha.,					8987.00

RATE PER HA.,	Rs.	8987.00
Add 20% escalation	Rs.	1797.40
PROTATA PER HA.,	Rs.	10784.00


 District Forest Officer,
 Viluppuram Forest Division.
 Viluppuram.

RV
 5-2-16