



**Model Estimate for Raising nursery for native tree species for Compensatory Afforestation over an area of 5.00 Hectare of Forest area during 2023-2024 under State CAMPA scheme**

Total Area : 5 Hectare  
 Seedlings per Ha. : 1000 Nos/Ha  
 No. of Seedlings: 5000 Nos  
 10% Casualty : 500 Nos  
 Total : 5500 Nos

Size of Poly Bags = 13 x 25 x 250 Grams  
 Transplanting Size of Poly Bags = 30 x45x600G

Proposed Espacement = Gap Planting  
Species Proposed for Planting  
 Native Species like Vembu, Velvel, Nelli, Naval, Vengai, Red Sanders, Iluppai etc.,  
 Wages Rate 2023-2024= Rs.612.45

Sl.No	Qty	Unit	Name of Work	FSR/SSR	FSL	Rate	Per	Amount	
<b>PART I - Small Size Poly Bags - 13x 25 Cm</b>									
1	605	Sq.m	Preparation of Nursery site by clearing and levelling the site for forming standard bed of size 10m x 1m (110 Sq.m/1000 Nos)	4.1	2.42	1482.1	200	No	4483
2	11	Kgs	Cost of Seeds (2 Kgs / 1000 Nos)	As per M.E	-	250	1	No	2750
3	5500	Nos.	Cost of 13 x 25 cm x 250 G Polythene Bags	Tender Rate	-	961.7	1000	No	5289
4	17	Cu.m	Forming Generation Beds of Size 10 m x 1 m x 0.3 m by heaping the soil - 2500 Nos per Bed.	PWD SOR item W-0062	-	166.9	1	Cu.m	2837
5	2	Bed	Watering the germination bed twice daily with rose cans for 15 days	4.5.1	0.82	502.21	10	Beds/Day	1507
6	2	Bed	Watering the germination bed Once daily with rose cans for 15 days	4.5.2	0.41	251.1	10	Beds/Day	753
7	4.62	Cu.m	Collection and supply of Sand, Silt and red soil according to the requirement for preparation of Soil mixture - 3/4 th of the total Volume (0.84 Cu.m /1000 Nos).	As per M.E	-	750	1	Cu.m	3465
8	1.54	Cu.m	Cost and Transport of Form yard manure for filling bags - 1/4 th of the total Volume (0.28 Cu.m /1000 Nos).	As per M.E	-	750	1	Cu.m	1155
9	5500	Nos.	Preparation of soil mixture by breaking clods, seiving,mixing red soil, silt, sand according to requirement and farm yard manure in the ratio of 3:1, heaping at the filling site and filling in poly bags, arranging bags in beds and pricking out the seedlings (excluding cost of soil mixture and FYM)	4.6.4	4.48	2743.8	1000	Nos	15091
10	138	Kgs	Cost of Vermicasting @ 25 gram per seedlings	As per Researc h Wing Rate		10	1	kg	1380
11	55	Kgs	Cost of VAM @ 10 gram per seedlings			18	1	kg	990
12	28	Kgs	Cost of Azospirilum @ gram per seedlings	As per Researc h Wing Rate		27	1	kg	756
13	28	Kgs	Cost of phoshobacteria @ 5 gram per seedling			27	1	kg	756
14			Watering the container plants with rose cans -						
a	5500	Nos.	Twice daily - 15 days	4.10.4	0.23	140.86			11621
b	5500	Nos.	Once daily - 30 days		0.115	70.43	1000	Day	11621
c	5500	Nos.	Alternate days spread over 30 days ( Effective days - 15)	4.11.4	0.115	70.43			5810
15	5500	Nos.	Cost of water for watering the container seedlings - 60 watering days	4.18.4 - FSR		0.85	1000	day	281

16	5500 73.33	Nos. Sq.m/ 3	Land rent @ 3000 bags/40 sq.m) - 3 months	4.17	LR	86	40 sq. m / month		473
17	5500	Nos.	Shifting the container plants, weeding, grading and replacement of casualities in the bags ( - shifting to done once in 21 days, first shifting not before 45 days after pricking out ) 2 shifts	4.15.4	0.51	312.35	1000	shift	3436
<b>SUB-TOTAL (A)</b>									<b>74454</b>
<b>PART II -Bigger Size Poly Bags - 30 Cm x 45 Cm x 600 g</b>									
18	5500	Nos	Cost of 30 x 45 cm x 600 G Polythene bags	Tender rate		6584.4	1000	No	36214
19	50.77		Collection & Supply of sand, silt and red soil according to the requirement for preparation of soil mixture - 4/5th of the total volume ( excluding the volume of earth in 13 x 25cm containers). (@ 9.23 Cu.m/1000 Nos)	As per M.E	-	750	1	Cu.m	38078
20	12.71		Cost and transport of Farm yard manure for filling bags - 1/5th of the total volume. (@ 2.31 CU.M/1000 Nos)	-	-	750	1	Cu.m	9533
21	5500		Preparation of soil mixture by breaking clods, seiving, mixing red soil, silt, and sand according to requirement and farm yard manure in the ratio of 4:1, heaping at the fillingsite and filling in poly bags, arranging bags in beds and pricking out the seedinds (excluding cost of soil mixture and FYM)	4.6.7	28.57	17498	1000	Nos	96237
22	193		Cost of Vermicasting @ 35 gram per seedlings	As per M.E	-	10	1	Kg	1930
23	83		cost of VAM @ gram per seedlings	-	-	18	1	Kg	1494
24	33		cost of Azospirilum @ 6 gram per seedlings	As per M.E	-	27	1	Kg	891
25	33		cost of phoshobacteria @ 6 gram per seedlings	-	-	27	1	Kg	891
26	55		Labour cost for transplanting seedlings from 13 x 25cm containers bags in to 30 x 45cm containers - Maz. /1000	As per M.E	-	612.45	1	Nos	33685
27	5500		cost of vertical strick (Casurina poles 5 cm - cm girth and 2.50 m height for each plants)	PWD SS	-	17.5	1	Rm	240625
28	2750		Cost of horzondal strick (Casurina poles 5 cm - 8 cm girth and 1.00 height for each plants)	PWD SS	-	17.5	1	Rm	48125
29	5500		Typing plants to the vertical strick once in a month - 2 times	As per M-	-	0.4	1	Each / Time	4400
30	5500		pruning side branches once in 2 months 2 times	As per M-	-	1			11000
31			Watering the container plants with rose cans	4.10.7	0.56	342.97	1000	Day	28295
a	5500	Nos.	Twice daily - 15 days	4.11.7	0.28	171.49	1000	Shift	28296
b	5500	Nos.	Once daily - 30 days	4.11.7	0.28	171.49	1000	Shift	28296
c	5500	Nos.	Once in alternate days- spread over 60 days (Effective days -30 days)	4.11.7	0.28	171.49	1000	Shift	28296
d	5500	Nos.	Twice in alternate days spread over 105 days (Effective days-30 days)	4.11.7	0.28	171.49	1000	Shift	28296
32	5500 440	Nos. m2/7 months	Land rent @ 500 bags/40 sq.m.)	4.17	LR	86	40	Sq.m/ month	6622
33	5500	Nos.	Shifting for container plants, weeding, grading and replacement of casualities in the bags - shfting to done once in 21 days - 7 shift	4.15.7	2.69	1647.5	1000	shift	63428

34	5500	Nos.	Cost of water for watering the container seedlings - 105 watering days	4.18.4 - FSR		1.6	1000	day	924
35	1.00	Nos.	Nursery Protection mazdoors 1 No./100000 Nos. of Labour charges for application of pesticides - 2 times / month	As per M.E of MTP	1	612.45	1	100000 / M	10105
36			GST 18% (Item No.3, 18)						7471
37	5	Months	Provision for cost of pesticides and fungasides and Labour charges for application of pesticides - 2 times / month	L.R.	..	200	1	times	2000
38		L.S.	Photo & Documentation etc.,						6000
39		L.S.	Contigencies unforeseen items						4214
<b>SUB-TOTAL (B)</b>									<b>737050</b>
<b>TOTAL (A + B)</b>									<b>811504</b>

Raising cost of 5500 Seedlings = 811504

Cost for 1 Seedlings =

Rs. 147.5 per seedling

Specifications:

1) No. of seedlings has been proposed for planting based on the Government of India Letter F.No.11-423/2011-FC dated 08.11.2017, compensatory afforestation has to be carried out at 1000 seedlings per ha. Hence 5000 nos of seedlings has been proposed for 5.00 ha @ 1000/ha. with 10% of casualty 500 Nos. Totally 5500 Nos. of seedlings has been proposed.

The estimate has been prepared based on CAMPA model estimate, FSR, PWD SSR for the year 2023-24 and the local rate

  
**District Forest Officer,  
Theni Forest Division,  
Theni.**

12.07.2023

**Model Estimate for planting of native tree species for Compensatory Afforestation over an area of 5.00 Hectare of degraded forest area during 2023-2024 under State CAMPA scheme**

No. of Seedlings. : 500 Hectare  
 10% Casualty : 1000 Nos/Ha  
 Total : 5000 Nos

Size of Poly Bags = 13 x 25 x 250 Grams  
 Wages Rate 2023-2024 = 612.45

Sl.No	Qty	Unit	Name of Work	FSR/S	FSL	Rate	Per		Amount
<b>PART I -Small Size Poly Bags - 13x 25 Cm</b>									
1	5000	Nos.	Aligning and Marking in plantation area	5.2.4	1.38	845.18	100	Nos.	42259
2	5000	Nos.	Digging of 60 CM3 pits in all types of soil during non rainy season	5.8.1	9.26	5671.29	100	Nos.	283565
3	5000	Nos.	Cost & transport of Farmyard manure each plants 0.60x0.60x0.20-0.072m3/pit	Lowest quotation	..	750	1	M3	270000
	360	No.							
4	5000	Nos.	Application of Farm yard manure by mixing in the pit before planting -1 mazdoor for 200 Nos.	FSR Wage rate	1	612.45	200	Nos.	15311
5	5000	Nos.	Cost of Bio fertilizer including cost of application - Vermcompost -1 Kg. Bio Fertilizers - 100 qms, VAM-100 qms	NHAI ME	..	7.7	1	No.	38500
6	5500	Nos.	Transporting saplings (transported to the radius of 40 kms) excluding loading and unloading by Private Vehicle	NHAI ME	..	7	1	No.	38500
7	5500	Nos.	Loading & unloading the container seedlings (30x45 cm) in private lorry upto a lead of 2 Kms. (Excluding hire charges for the vehicles)	5.11.7	3.29	2014.96	1000	Nos.	11082
8			Distribution of saplings from where seedlings are stocked to the planting spot in plains upto 500 mts.						
a	2200	Nos.	Upto 100 mts.	5.15.1	10	6124.50	1000	Day	13474
b	2200	Nos.	Upto 200 mts.	5.15.2	17.5	10717.88	1000	Day	23579
c	1100	Nos.	Upto 500 mts.	5.15.3	41	25110.45	1000	Day	27621
9	5000	Nos.	Planting the constainer plants by refilling pits of size 60 cm	5.22	1.71	1064.39	100	Nos	53220
10	12500	RM	Provision of vertical casurina poles 5 cm. to 8 cm. 2.50 mtr. Ht. per plant	PWD SSR		17.5	1	RM	218750
11	500	Nos.	Replacement of casualties by reopening failed pits and planting the seedlings (1/2 pitting rate on rainy days + full planting rate)	5.23	6.34	2364.06	100	Nos	11820
12	5000	Nos.	Scraping for 1 m dia and soil working 15 cm. depth around each plants and removing the grass roots away from the size of upturning the soil	5.24	1.23	753.31	100	Nos	37666
13	5000	Nos.	Forming catch water drains for each plant of 90x45x30 cm. size in hillocks and hard gravelly soil		5.26	6.84	4189.16	100	Nos
14	5000	Nos.	Providing Brush wood fencing around each plants	..	0.25	122.06	1	No.	610300
15	5000	Nos.	Watering the plants once in 6 days during summer/non-rainy period from January to March @ one mazdoor for 200 plants/watering day (15 watering days)	NHAI ME-		612.45	200	Nos.	229669
16	1500000	Ltrs	Cost of water @ 20 liter per seedlings 15 watering days (5000 x 20x15 = 1500000 Lts.)	NHAI ME		1200	12000	Lts.	150000

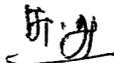
17	1	Nos.	Plantation Protection mazdoors from October to March - 180 m. days	Wage rate	1	612.45	1	Man day	110241
18	5000	Nos	Removing /scrapping vizal monsoon or bothai grass for one meter dia around the plants	5.27	0.21	130.71	100	Nos.	6536
19	5	Months	Provision for cost of pesticides and fungasides and Labour charges for application of pesticides - 2 times / month	L.R.	..	200	1	times	2000
20	L.S.		Photo & Documentation etc.,			L.S.			3000
21	L.S.		Contigencies and unforeseen expenditure to be restricted to as per actuals.			L.S.			2625
<b>TOTAL</b>									<b>2409176</b>
Add 10% of escalation									240918
<b>Total prorate</b>									<b>2650094</b>

**Specifications:**

1) No. of seedlings has been proposed for planting based on the Government of India Letter F.No.11-423/2011-FC dated 08.11.2017, compensatory afforestation has to be carried out at 1000 seedlings per ha. Hence 5000 nos of seedlings has been proposed for 5.00 ha @ 1000/ha. with 10% of casuality 500 Nos. Totally 5500 Nos. of seedlings has been proposed.

The estimate has been prepared based on CAMPA model estimate, FSR, PWD SSR for the year 2023-24 and the local rate

  
**District Forest Officer,**  
**Theni Forest Division,**  
**Theni.**

  
12.07.2023

**Model Estimate for 1st year maintenance of CA plantation over an area of 5.00 Ha. During 2023-2024 under  
CAMPA scheme**

No. of Seedlings planted : 5000  
No. of seedlings for casualty : 500 (10% replacement)

Size of Poly Bags = 30 x 45 x 600g.  
Wages Rate = Rs. 612.45

Sl.No	Qty	Unit	Name of Work	FSR/SSR	FSL	Rate	Per	Amount	
<b>A. NURSERY OPERATION</b>									
1	500	No.	Raising cost of seedlings in 30x45 size polythene bags (As per nursery estimate)	As per nursery estimate	..	147.546	1 No.	73773	
<b>TOTAL (A)</b>								<b>73773</b>	
<b>B. PLANTING OPERATION</b>									
1	500	Nos.	Cost & transport of Farmyard manure each plants 0.60x0.60x0.20 = 0.072m <sup>3</sup> /pit	Lowest	..	750	1	M3	27000
	36	M3							
2	250	Nos.	Application of Farm yard manure by mixing in the pit before planting -1 mazdoor for 200 Nos.	FSL Wage rate	..	612.45	200	Nos.	766
3	500	Nos.	Transporting saplings (transported to the radius of 40 kms) excluding loading and unloading by Private Vehicle	NHAI ME	..	7.00	1	No.	3500
4	500	Nos.	Loading & unloading the container seedlings (30x45 cm) in private lorry upto a lead of 2 Kms. (excluding hire charges for the vehicles)	5.11.7	3.29	2014.96	1000	Nos.	1007
5			Distribution of saplings in the site C.plants upto 500 mts. - in plains						
a	200	Nos.	Upto 100 mts.	5.15.1	10	6124.50	1000	Day	1225
b	200	Nos.	Upto 200 mts.	5.15.2	17.5	10717.88	1000	Day	2144
c	100	Nos.	Upto 500 mts.	5.15.3	41	25110.45	1000	Day	2511
6	500	Nos.	Replacement of casualties by reopening failed pits and planting the seedlings	5.23	5.57	2719.55	100	Nos	13598
7	5000	Nos.	Scraping for 1 m dia and soil working 15 cm. depth around each plants and removing the grass roots away from the size of upturning the soil	5.24	1.23	753.31	100	Nos	37666
8	5000	Nos.	Cost of Bio Fertilizers including cost of application Vermi-campose 1 Kg., Bio fertilizer-100 qms., VAM - 100 Gms	NHAI ME		7.7	1	No.	38500
9	3000000	Ltrs	Cost of water @ 20 liter per seedlings 30 watering days (5000 x 20x30 = 3000000 Lts.)	NHAI ME		1200	12000	Lts.	3000000
10	5000	Nos	Watering the plants once in 6 days (excluding rainy days) from April to June & January to March @ one mazdoor for 200 plants/watering day - (15+15 = 30 watering days)	CAMPA ME	0.28	612.45	200	Shift	459338
11	1.00	Nos.	Engaging Protection mazdoor @ 1 Mazdoor from April to March - 12 months (25 days/ Month)	FSR wage rate	..	612.45	1	No.	183735
12		L.S.	Contingencies and unforeseen expenditure to be restricted to as per actuals.			L.S.			1205
<b>TOTAL (B)</b>								<b>1072195</b>	
<b>TOTAL (A+B) Prorata for 1st year maintenance</b>								<b>1145968</b>	
Add 20% of escalation for 2nd year								229194	
<b>Total prorata</b>								<b>1375162</b>	

**Specifications:**

The estimate has been prepared based on CAMPA model estimate, FSR, PWD SSR for the year 2023-24 and the local rate

  
**District Forest Officer,**  
**Theni Forest Division,**  
**Theni.**

12.07.2023

**Model Estimate for 2nd year maintenance of CA plantation over an area of 5.00 Ha. During 2023-2024 under  
CAMPA scheme**

No. of Seedlings planted : 5000 Nos  
Survival 100% : 5000 Nos

Wages Rate = Rs. 612.45  
2023-2024

Sl.No	Qty	Unit	Name of Work	FSR/SSR	FSL	Rate	Per		Amount
1	5000	Nos.	Scraping for 1 m dia and soil working 15 cm. depth around each plants and removing the grass roots away from the size of upturning the soil	5.24	1.23	753.31	100	Nos	37666
2	5000	Kgs.	Cost of Bio Fertilizers including cost of application Vermi-camposse 1 Kg., Bio fertilizer-100 gms., VAM - 100 Gms	NHAI ME		7.70	1	Kg.	38500
3	3E+06	Ltrs	Cost of water @ 20 liter per seedlings 30 watering days (5000 x 20x30 = 3000000 Lts.)	NHAI ME		1200	12000	Lts.	300000
4	5000	Nos	Watering the plants once in 6 days (excluding rainy days) from April to June & January to March @ one mazdoor for 200 plants/watering day - (15+15 = 30 watering days)	CAMPA ME	0.28	612.45	200	Shift	459338
5	1.00	Nos.	Engaging Protection mazdoor @ 1 Mazdoor (3 months (25 days/ Month)	FSR wage rate	..	612.45	1	No.	45934
6		L.S.	Contigencies and unforeseen expenditure to be restricted to as per actuals.					L.S.	3219
<b>Total prorate</b>									<b>884657</b>
Add 30% of escalation									265397
<b>Total prorate 2nd year maintenance</b>									<b>1150054</b>

**Specifications:**

The estimate has been prepared based on CAMPA model estimate, FSR, PWD SSR for the year 2023-24 and the local rate



**District Forest Officer,  
Theni Forest Division,  
Theni.**

12.07.2023

**Model Estimate for 3rd year maintenance of CA plantation over an area of 5.00 Ha. During 2023-2024 under  
CAMPA scheme**

No. of Seedlings planted : 5000  
Survival 100% : 5000

Wages Rate = Rs. 612.45  
2023-2024

Sl.No	Qty	Unit	Name of Work	FSR/ SOR	FSL	Rate	Per		Amount
1	5000	Nos.	Scraping for 1 m dia and soil working 15 cm. depth around each plants and removing the grass roots away from the size of upturning the soil	5.24	1.23	753.31	100	Nos	37666
2	5000	Nos.	Cost of Bio Fertilizers including cost of application Vermi-camposse 1 Kg., Bio fertilizer-100 qms., VAM - 100 Gms	NHAI ME		7.70	1	Kg.	38500
3	3E+06	Ltrs	Cost of water @ 20 liter per seedlings 30 watering days (5000 x 20x30 = 3000000 Lts.)	NHAI ME		1200	12000	Lts.	300000
4	5000	Nos	Watering the plants once in 6 days (excluding rainy days) from April to June & January to March @ one mazdoor for 200 plants/watering day - (15+15 = 30 watering days)	CAMPA ME		612.45	200	Shift	459338
5	1.00	Nos.	Engaging Protection mazdoor @ 1 Mazdoor (3 months (25 days/ Month)	FSR wage rate	..	612.45	1	No.	45934
6	L.S.		Contigencies and unforeseen expenditure to be restricted to as per actuals.			L.S.			1461
<b>Total prorate</b>									<b>882899</b>
Add 40% of escalation									353159.6
<b>Total prorate 3rd year maintenance</b>									<b>1236059</b>

**Specifications:**

The estimate has been prepared based on CAMPA model estimate, FSR, PWD SSR for the year 2023-24 and the local rate

  
**District Forest Officer,  
Theni Forest Division,  
Theni.**

12.07.2023

**Model Estimate for 4th year maintenance of CA plantation over an area of 5.00 Ha. During 2023-2024 under CAMPA scheme**

No. of Seedlings : 5000  
 planted  
 Survival 100% : 5000

Wages Rate = Rs. 612.45  
 2023-2024

Sl.No	Qty	Unit	Name of Work	SR/SSI	FSL	Rate	Per		Amount
1	5000	Nos.	Scraping for 1 m dia and soil working 15 cm. depth around each plants and removing the grass roots away from the size of upturning the soil	5.24	1.23	753.31	100	Nos	37666
2		L.S.	Contingencies and unforeseen expenditure to be restricted to as per actuals.				L.S.		334
<b>Total prorate</b>									<b>38000</b>
Add 50% of escalation									19000
<b>Total prorate 4th year maintenance</b>									<b>57000</b>
Add 10% of escalation for 5th year									5700
<b>Total prorate 5th year maintenance</b>									<b>62700</b>
Add 10% of escalation for 6th year									6270
<b>Total prorate 6th year maintenance</b>									<b>68970</b>
Add 10% of escalation for 7th year									6897
<b>Total prorate 7th year maintenance</b>									<b>75867</b>
Add 10% of escalation for 8th year									7587
<b>Total prorate 8th year maintenance</b>									<b>83454</b>
Add 10% of escalation for 9th year									8345
<b>Total prorate 9th year maintenance</b>									<b>91799</b>
Add 10% of escalation for 10th year									9180
<b>Total prorate 10th year maintenance</b>									<b>100979</b>

Specifications:

The estimate has been prepared based on CAMPA model estimate, FSR, PWD SSR for the year 2023-24 and the local rate

  
**District Forest Officer,**  
**Theni Forest Division,**  
**Theni.**

  
 12.07.2023

**TAMIL NADU FOREST DEPARTMENT**  
**THENI FOREST DIVISION.**

**DEMAND NOTICE - NET PRESENT VALUE (NPV)**

**Proposal for the diversion of 0.193 ha of forest land for laying of underground optical fiber cable along Cumbum-Kumuly NH Road from Lower Camp to Kumuli through Suranganar Reserved Forest of Theni Forest Division.**

**1. Net Present Value.**

Forest Area Proposed for Diversion	(A)	=	0.193 Ha.
Forest area falling outside of National Parks, Sanctuaries	(B)	=	0.154 Ha.
Forest area falling within the National Parks NPV shall be charged to the extent of Ten times of Normal NPV.	(C)	=	0.039 Ha.

**Revised NPV rates per Hectare**

**Type of Forest**

Canopy Density of the Proposed Forest Area is 40%. Density recorded in Part A Form I is 0.4 (Dense Forest) Eco Class III. As per ISFR - Canopy density 0.4 is consider as Dense Forest.

NPV Rate for Proposed Forest Area falling outside of National Parks, Sanctuaries (B)	(D)	=	12,28,590.00 ₹
NPV Rate for Proposed Forest area falling within the National Parks NPV shall be charged to the extent of Ten times of Normal NPV (C)	(E)	=	12,28,590.00 ₹

Eco Class - III (Dense Forest)  
[Tropical Dry Deciduous Forests]

as per the rates stipulated by the Ministry of Environment and Forests in File No. 5-3/2011-FC (Vol.I) dated 06.01.2022 and 19.01. 2022.

**Actual NPV amount payable by the User Agency** = **6,68,352.96 ₹**  
**F = (B x D) + (10 x (C x E))**

**Total NPV** = **6,68,353.00 ₹**

**Rupees Six Lakhs sixty eight Thousand three hundred and fifty three Only**

**District Forest Officer,  
Theni Forest Division,  
Theni.**

*Fig*  
01/06/2024