

Work schedule

Compensatory afforestation scheme for Raising nursery by native tree species for raising Compensatory afforestation over an area of 1.00 Ha of degraded forest area in Lokkur RF of Danishpet Range, Salem Division during 2023-2024 under TN State CAMPA scheme

Sl. No.	Description of Work	Period of work
1	2	6
1	Raising nursery - 1100 Nos	June 2024 to February 2025
2	Planting operation including brush wood fencing around each plants	March 2025 to August 2025
3	1st year Maintenance	September 2025 to March 2026
4	2nd year Maintenance	September 2026 to March 2027
5	3rd year Maintenance	September 2027 to March 2028
6	4 th year Maintenance	September 2028 to March 2029
7	5 th year Maintenance	September 2029 to March 2030
8	6 th year Maintenance	September 2030 to March 2031
9	7 th year Maintenance	September 2031 to March 2032
10	8 th year Maintenance	September 2032 to March 2033
11	9 th year Maintenance	September 2033 to March 2034
12	10 th year Maintenance	September 2034 to March 2035

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[Signature] 16/5/23

District Forest Officer
Salem Division, Salem

[Signature]
15/05/2023

[Signature]
Forest Range Officer
Danishpet Range
Danishpet

Compensatory afforestation scheme for Raising nursery by native tree species for raising Compensatory afforestation over an area of 1.00 Ha of degraded forest area in Lakkur RT of Danishpet Range, Salem Division during 2023-2024 under TN State CAMPA scheme

No. of seedlings : 1000 Nos. @ 1000 Nos per Ha
 For 10% casualty replacement : 100 Nos.
 TOTAL 1100 Nos

Sl. No.	Description of Work	Proposed estimate cost in Rupees	Remarks
1	2	3	4
1	Raising nursery -1100 Nos	35640	1000 Nos of seedlings per ha has been proposed. 20% Weightage towards escalation of labour wage rate during 2024-25
2	Planting operation - 1000 seedlings	261600	20% Weightage towards escalation of labour wage rate during 2024-25
3	1 st year Maintenance	21125	30% Weightage towards escalation of labour wage rate during 2025-26
4	2 nd year Maintenance	8380	40% Weightage towards escalation of labour wage rate during 2026-27
3	3 rd year Maintenance	8925	50% Weightage towards escalation of labour wage rate during 2027-28
6	4 th year Maintenance	9520	60% Weightage towards escalation of labour wage rate during 2028-29
7	5 th year Maintenance	10472	70% Weightage towards escalation of labour wage rate during 2029-30
8	6 th year Maintenance	11519	80% Weightage towards escalation of labour wage rate during 2030-31
9	7 th year Maintenance	12671	90% Weightage towards escalation of labour wage rate during 2031-32
10	8 th year Maintenance	13938	100% Weightage towards escalation of labour wage rate during 2032-33
11	9 th year Maintenance	15332	110% Weightage towards escalation of labour wage rate during 2033-34
12	10 th year Maintenance	16865	120% Weightage towards escalation of labour wage rate during 2034-35
TOTAL		425987	

Account assigned

[Signature]
 Forest Range Officer
 Danishpet Range
 Danishpet

[Signature]
 15/5/23

**District Forest Officer
 Salem Division, Salem**

[Signature]
 15/5/2023

Compensatory afforestation scheme for Raising nursery by native tree species for raising Compensatory afforestation over an area of 1.00 Ha of degraded forest area in Lokkur RF of Danishpet Range, Salem Division during 2023-2024 under TN State CAMPA scheme

Total Area = 1.00 Ha
 Seedlings per ha = 1000 Nos/ Ha
 No of Seedlings = 1000
 10% Casualty = 100
 Total = 1100

Size of Polybags = 16 x 30 x 300g

Proposed Espacement = Gap planting

Species proposed for planting

Native species like Vembu, Velvei, Nelli, Naval, Vengai, Red Sanders, Iluppai etc.,

Wage rate 2022-2023 = Rs. 483.75

(Grade-II / Class B areas - Salem, Coimbatore and Madurai Districts)

SL No	Qty	Unit	Name of Work	FSR / SSR	FSL	Rate	Per	Amount
Size of Polythene bag - 16X30x300g								
1	110	M ²	Preparation of Nursery site by clearing and levelling the site for forming standard bed of size 10mX1m (110M ² /1000 Nos)	4.1	2.42	1170.68	200 M ²	644
2	2.00	Kg	Cost of seeds.(2kgs/ 1000 Nos)	LR	--	250.00	1 No	500
3	1100	Nos.	Cost of 16x30cmx300G Polythene bags (Including GST 18%)	Tender rate	--	1888.00	1000 No	2077
4	3.00	Cum	Forming germination beds of size 10mx1mx 0.3m by heaping the soil - 2500 No per bed	PWD SSR item 62	--	106.25	1 cum	319
5	1.00	Bed	Watering the germination beds twice daily with rose cans for 15 days	4.5.1	0.82	396.68	10 Beds / day	595
6	1.00	Bed	Watering the germination beds once daily with rose cans for 15 days	4.5.2	0.41	198.34	10 Beds / day	298
7	2.060	Cu.m	Collection and supply of sand, silt and red soil according to the requirements for preparation of soil mixture 4/5th of the total volume (2.060 cu.m / 1000 bags)	LR	--	750.00	1 Cu.m	1545
8	0.561	Cu.m	Cost and transport of farmyard manure for filling bags 1/5th of the total volume (0.561cu.m / 1000 bags)	LR		750.00	1 Cu.m	421
9	1100	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 picking out the seedlings (excluding cost of soil mixture and FYM)	4.6.5	5.95	2878.31	1000 Nos	3166
10	39	Kgs.	Cost of Vermicasting @ 35 gram per seedlings	As per Research	-	10.00	1 Kg	390

SL No	Qty	Unit	Name of Work	FSR / SSR	FSL	Rate	Per		Amount
11	17	Kgs.	Cost of VAM @ 15 gram per seedlings	Research Wing Rate	-	18.00	1	Kg	306
12	7	Kg	Cost of Azospirillum @ 6 gram per seedlings	As per Research Wing Rate	-	27.00	1	Kg	189
13	7	Kg	Cost of Phosphobacteria @ 6 gram per seedling	As per Research Wing Rate	-	27.00	1	Kg	189
14			Watering the container plants with rose cans -						
a	1100	Nos.	Twice daily - 15 days	4.10.5	0.37	178.99	1000	Day	2953
b	1100	Nos.	Once daily - 30 days	4.11.5	0.185	89.50			2953
c	1100	Nos.	Alternate days spread over 30 days (Effective days-15)		0.185	89.50			1477
15	1100	Nos.	cost of water for watering the container seedlings - 60 watering days	4.18 - FSR 1998-99		0.85	1000	day	56
16	1100	Nos.	Land rent @ 3000 bags/40 sq.m) - 3 Months	4.17	LR	86.00	40	sq.m/month	97
	15	M2/ 3 months							
17	1100	Nos.	Shifting the container plants, weeding, grading and replacement of casualties in the bags (-shifting to done once in 21 days, first shifting not before 45 days after pricking out) 7 shifts	4.15.5	0.79	382.16	1000	Shift	2943
18	1100	Nos.	Twice in a week spread over 105 days (Effective days-30 days)	4.11.5	0.185	89.50	1000	day	2953
19	1	Nos.	Nursery protection mazdoors 1 No / 100000 Nos of 16 x 30cm bags - 300 days. (90d+210d) for 1100 seedlings	As per ME of MTP	1	483.75	1	100000/M	1596
20			GST 18% (Item No.3)						0
21	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
22		L.S	Photo & Docymentation etc.,					L.S	1500
23		L.S	Contingencies unforeseen items					L.S	533
TOTAL									29700

Raising cost for 1100 seedlings = 29750

10% 2023-24 2970

10% 2024-25 2970

cost for 1 seedlings = Rs 32.40 or

per seedling

35640

32.00

TAMIL NADU FOREST DEPARTMENT

SL No	Qty	Unit	Name of Work	FSR / SSR	FSL	Rate	Per	Amount
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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 1000 nos of seedlings has been proposed for 1.00 ha @ 1000/ha. with 10% of casualty 100 Nos. Totally 1100 Nos of seedlings has been proposed.

2) Bio-fertilizers may be applied as per norms prescribed by Research wing.

3) The estimate has been prepared based on NHA/MTP model estimate, FSR, PWD SSR for the year 2022-23 and the local rate as per model estimate and Research Wing rate.


Forest Range Officer
Danishpet Range
Danishpet

(count assigned)

16/5/23

**District Forest Officer
Salem Division, Salem**


15/05/2023

Estimate for planting of native tree species for Compensatory afforestation over an area of 1.00 Ha of degraded forest area in Lokkur Rf of Danishpet range during 2023-2024 under TN State CAMPA scheme

No of seedlings = 1000
 10% Casualty = 100
 Total = 1100

Size of Polybags = 16 x 30 x 3000g
 Wage rate = Rs. 483.75
 2022-2023

Sl. No	Qty		Description of work	F.S.R. No.	FSL (Man days)	Rate Rs.	Per		Amount
1	1000	Nos	Aligning and Marking in plantation area	5.2.4	1.38	667.58	100	Nos	6676
2	1000	Nos	Digging of 45 CM3 pits in all types of soil during non rainy season	5.8.1	9.26	4479.53	100	Nos	44795
3	1000	No.	Cost & transport of Farmyard manure each plants	Lowest quotation	-	750.00	1	M3	30750
	41	M3	0.45x0.45x0.20=0.0405m3/pit						
4	1000	Nos	Application of Farm yard manure by mixing in the pit before planting - 1 mazdoor for 200 Nos	FSL Wage rate	1.00	483.75	200	No	2419
5	1000	Nos	Cost of Bio fertilizer including cost of application - Vermicompost - 1 Kg, Bio Fertilizers - 100 gms, VAM- 100 gms	NHAI ME	-	7.70	1	No	7700
6	1100		Transporting saplings (transported to the radius of 40 kms) excluding loading and unloading by Private Vehicle upto 5 Km	As per lowest quotation					4000
7	1100	Nos	Loading & unloading the container seedlings in private lorry upto a lead of 2kms excluding hire charges for the vehicles.)	5.11.5	1.79	865.91	1000	Nos	953
8			Distribution of saplings from where seedlings are stocked to the planting spot in plains upto 500 mts						
a	500	Nos	Upto 100 mts	5.15.1	3.13	1514.14	1000	Nos	757
b	400	Nos	Upto 200 mts	5.15.2	4.66	2254.28	1000	Nos	902
c	200	Nos	Upto 500 mts	5.15.3	8.22	3976.43	1000	Nos	795
9	1000	Nos	Planting the container plants by refilling pits of size 45cm.	5.21	1.15	556.31	100	Nos	5563
10	100	Nos	Replacement of casualties by reopening failed pits and planting the seedlings (1/2 pitting rate on rainy days + full planting rate)	5.23	5.78	2796.08	100	Nos	2796

Sl. No	Qty		Description of work	F.S.R. No.	FSL (Man days)	Rate Rs.	Per		Amount
11	1000	Nos	Scraping for 1m dia and soil working 15cm depth around each plants and removing the grass roots away from the site of upturning the soil	5.24	1.23	595.01	100	Nos	5950
12	1000	Nos	Forming catch water drains for each plant of 90x45x 30 cm size in hillocks and hard gravelly soil	5.26	6.84	3308.85	100	Nos	33089
13	1000	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		483.75	200	Nos	36281
14	300000	Ltrs	Cost of water @ 20 liter per seedlings 15 waterig days (1000x20x15=300000 Lts)	NHAI ME		1200.00	12000	Lts	30000
15	1000	Nos	Removing/scraping vizal monsoon or bothai grass for one meter dia around the plants	5.27	0.21	101.59	100	Nos	1016
16	5	Mon ths	Provision for cost of pesticides and fungasides and Labour charges for application of pesticides - 2 times / month	L.R	-	200	1	time s	2000
17	L.S		Photo & Documentation etc.,	LS					1000
18	LS		Contingencies and unforseen expenditure to be restricted to as per actuals.	LS					558
TOTAL									218000
Add 20% of escalation									43600
Total prorata									261600

Specifications :

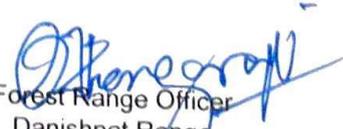
1) No. of seedlings has been proposed for planting based on the Government of India Letter F.No.11-423/2011-FC dated 08.11.2017, compensatory afforestation has to be carried out at 1000 seedlings per ha. Hence 5000 nos of seedlings has been proposed for 1.00 ha @ 1000/ha. with 10% of casuality 100 Nos. Totally 1100 Nos of seedlings has been proposed.

2) Rates for the works in SI No. 2 and 8 have been provided for hills as the area identified for compensatory afforestation is in hilly terrain, the rates for the hills may be followed.

3) The estimate has been prepared based on NHAI/MTP model estimate, FSR, PWD SSR for the year 2022-23 and the local rate as per model estimate and Research Wing rate.

(counter assigned)


District Forest Officer
Salem Division, Salem


 Forest Range Officer
 Danishpet Range
 Danishpet

Estimate for 1st year maintenance of CA plantation over an area of 1.00 Ha. during 2023-2024 under CAMPA scheme.

No of seedlings planted 1000

No of Seedlings for casualty replacement 100

Size of Polybags = 16 x 30 x300g

" (10% replacement)

Wage rate = Rs. 483.75

Sr No	Qty	Description of work	F.S.R. No.	FSL (Man days)	Rate Rs.	Per		Amount	
A. NURSERY OPERATION									
1	100 No	Raising cost of seedlings in 16x30 size polythene bags (As per nursery estimate)	As per nursery estimate	-	27.00	1	No	2700	
B. PLANTING OPERATION									
1	100 No	Cost & transport of Farm yard manure each plants 0.45x0.45x0.20 = 0.0405m ³ /pit	Lowest	-	750.00	1	m ³	3000	
2	0.5 Nos.	Application of Farm yard manure by mixing in the pit before planting - 1 mazdoor for 200 Nos	FSL Wages Rate	-	483.75	200	Nos.	242	
3	100 Nos.	Transporting saplings (transported in the radius of 40 Kms) excluding loading and unloading in Private vehicle up to 5 Km	As per lowest quotation						1000
4	100 Nos	Loading & unloading the container seedlings (16x30cm) in private lorry upto a lead of 2kms (excluding hire charges for the vehicles.)	5.11.5	1.79	865.91	1000	Nos	87	
5		Distribution of seedlings in the site C.plants upto 100mtrs - in hills							
a	100 Nos	Up to 100 m.	5.15.1	3.13	1514.14	1000	Nos	151	
6	100 Nos	Replacement of casualties by reopening failed pits and planting the seedlings	5.23	5.57	2796.08	100	Nos	2796	

Sl. No	Qty	Description of work	F.S.R. No.	FSL (Man days)	Rate Rs.	Per	Amount
7	1000 Nos	Scraping for 1m dia and soil working 15cm depth around each plants and removing the grass roots away from the site of upturning the soil	5.24	1.23	595.01	100 Nos	5950
8	LS	Contingencies and unforeseen expenditure to be restricted to as per actuals.	LS				324
TOTAL							16250
Add 30% of escalation for 2nd year							4875
Total prorata							21125

Specifications :

- 1) The estimate has been prepared based on NHA/MTP model estimate, FSR, PWD SSR for the year 2022-23 and the local rate as per model estimate and research wing rate.
- 2) The rate for the work in Sl No. 5 has been provided for plains.Hills as the area identified for compensatory afforestation is in hilly terrain, the rates for hills may be adopted.

[Signature]
 Forest Range Officer
 Danishpet Range
 Danishpet

(Countersigned)

[Signature] 16/05/23

**District Forest Officer
 Salem Division. Salem**

[Signature]
 15/05/2023

**Estimate for 2nd year maintenance of CA plantation over an area of 1.00 Ha in RF during 2023-2024 under
CAMPA scheme**

No of Seedlings = 1000

Survival 100% = 1000

Wage rate = Rs. 483.75

2022-2023

Sl. No	Qty		Description of work	F.S.R. No.	FSL (Man days)	Rate Rs.	Per		Amount
1	1000	Nos	Scraping for 1m dia and soil working 15cm depth around each plants and removing the grass roots away from the site of upturning the soil	5.24	1.23	595.01	100	Nos	5950
6	LS		Contingencies and unforeseen expenditure to be restricted to as per actuals.	LS					
Total prorata									5950
Add 40% of escalation									2380
Total prorata 2nd year maintenance									8330

Specifications :

The estimate has been prepared based on MTP model estimate, FSR, PWD SSR for the year 2022-23 and the local rate as per model estimate and Research Wing rate.

(counter signed)

16/5/23

**District Forest Officer
Salem Division, Salem**

15/05/2023

[Signature]
Forest Range Officer
Danishpet Range
Danishpet

Estimate for 3rd year maintenance of CA plantation over an area of 1.00 Ha during 2023-2024 under CAMPA scheme

No of Seedlings = 1000
Survival 100% = 1000

Wage rate = Rs. 483.75
2022-2023

Sl. No	Qty	Description of work	F.S.R. No.	FSL (Man days)	Rate Rs.	Per	Amount	
1	1000 Nos	Scraping for 1m dia and soil working 15cm depth around each plants and removing the grass roots away from the site of upturning the soil	5.24	1.23	595.01	100 Nos	5950	
6	LS	Contingencies and unforeseen expenditure to be restricted to as per actuals.	LS					
Total prorata							5950	
Add 50% of escalation							2975	
Total prorata 3rd year maintenance							8925	

Specifications :

The estimate has been prepared based on MTP model estimate, FSR, PWD SSR for the year 2022-23 and the local rate as per model estimate and Research Wing rate.

(countersigned)

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**District Forest Officer
Salem Division, Salem**

15/05/2023

[Signature]
Forest Range Officer
Danishpet Range
Danishpet

Estimate for 4th year maintenance of CA plantation over an area of 1.00 Ha during 2023-2024 under CAMPA scheme

No of Seedlings = 1000
Survival 100% 1000

Wage rate = Rs. 483.75
2022-2023

Sl. No	Qty	Description of work	F.S.R. No.	FSL (Man days)	Rate Rs.	Per	Amount
1	1000 Nos	Scraping for 1m dia and soil working 15cm depth around each plants and removing the grass roots away from the site of upturning the soil	5.24	1.23	595.01	100 Nos	5950
2	LS	Contingencies and unforeseen expenditure to be restricted to as per actuals.	LS				
Total prorata							5950
Add 60% of escalation							3570
Total prorata 4th year maintenance							9520
Add 10% of escalation for 5th year							952
Total prorata for 5th year maintenance							10472
Add 10% of escalation for 6th year							1047
Total prorata for 6th year maintenance							11519
Add 10% of escalation for 7th year							1152
Total prorata for 7th year maintenance							12671
Add 10% of escalation for 8th year							1267
Total prorata for 8th year maintenance							13938
Add 10% of escalation for 9th year							1394
Total prorata for 9th year maintenance							15332
Add 10% of escalation for 10th year							1533
Total prorata for 10th year maintenance							16865

Specifications :

The estimate has been prepared based on MTP model estimate, FSR, PWD SSR for the year 2022-23 and the local rate as per model estimate and Research Wing rate.

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**District Forest Officer
Salem Division, Salem**

15/05/2023

[Signature]
**Forest Range Officer
Danishpet Range
Danishpet**