



## COMPENSATORY AFFORESTATION SCHEME

Cost estimate for Compensatory Afforestation scheme including maintenance of plantation for 10 years in lieu of land diverted for formation of road from Thimmalanmedu to kotturmalai in Kesarguli RF and Thirumalvadi RL of Palacode Range in Dharmapuri Forest Division.

### GENERAL ABSTRACT

Sl. No.	Details of work	Unit	Amount proposed
1	Cost estimate for Compensatory Afforestation scheme over an extent of 5.82 ha in the <b>degraded Forest area</b> of Thoppur Reserved Forest of Dharmapuri Range for Compensatory Afforestation during 2022-2023.	5.82 Ha.	6636332.00
2	Chain link fencing around plantation to prevent biotic pressure @ 250RM per ha at the rate of Rs.2420 per RM for 1210mtr fencing for 5.82Ha of Thoppur degraded forest area of Dharmapuri range (Total Pheripharal Length) (Separate calculation sheet is enclosed)	5.82 ha.	2928200.00
	Total	5.82 ha.	₹ 95,64,532.00 (or) 95.6453 Lakhs

  
District Forest Officer,  
Dharmapuri Forest Division,  
Dharmapuri.

  
10/02/2023

**Abstract Model estimate for Raising Compensatory afforestation over an area of 5.82 Ha of degraded forest area at Thoppur RF of Dharmapuri Range during 2022-2023 under State CAMPA scheme**

No. of seedlings : 5820 @ 1000 Nos per Ha  
 For 10% casualty replacement : 582  
 TOTAL 6402

Sl. No.	Description of Work	Proposed estimate cost in Rupees	Remarks
1	2	3	4
1	Raising nursery - 6402 Nos	9,18,549	1000 Nos of seedlings per ha for 5.82Ha
2	Planting operation - 5820 seedlings	17,40,511	10% Weightage towards escalation of labour wage rate during 2023-24
3	1 <sup>st</sup> year Maintenance	11,87,701	20% Weightage towards escalation of labour wage rate during 2024-25
4	2 <sup>nd</sup> year Maintenance	11,02,921	30% Weightage towards escalation of labour wage rate during 2025-26
3	3 <sup>rd</sup> year Maintenance	11,87,761	40% Weightage towards escalation of labour wage rate during 2026-27
6	4 <sup>th</sup> year Maintenance	52,586	50% Weightage towards escalation of labour wage rate during 2027-28
7	5 <sup>th</sup> year Maintenance	57,844	60% Weightage towards escalation of labour wage rate during 2028-29
8	6 <sup>th</sup> year Maintenance	63,628	70% Weightage towards escalation of labour wage rate during 2029-30
9	7 <sup>th</sup> year Maintenance	69,991	80% Weightage towards escalation of labour wage rate during 2030-31
10	8 <sup>th</sup> year Maintenance	76,990	90% Weightage towards escalation of labour wage rate during 2031-32
11	9 <sup>th</sup> year Maintenance	84,689	100% Weightage towards escalation of labour wage rate during 2032-33
12	10 <sup>th</sup> year Maintenance	93,158	110% Weightage towards escalation of labour wage rate during 2033-34
<b>TOTAL</b>		<b>66,36,332</b>	

Prorata for 1 ha area

11,40,263.21

(OR) Rs. 11.4026 Lakhs

  
 District Forest Officer,  
 Dharmapuri Forest Division,  
 Dharmapuri.  
  
 10/02/2023



**Model estimate for Raising nursery for native tree species for Compensatory afforestation over an area of 5.82 Ha in degraded forest area at Thoppur RF during 2022-2023 under State CAMPA scheme**

Total Area = 5.82 Ha

Seedlings per ha = 1000 Nos per Ha

No of Seedlings = 5820

10% Casualty = 582

Total = 6402

Size of Polybags = 13 x 25 x 250g

Transplanting Size of Polybags = 30 x 45 x 600g

Proposed Espacement = Gap planting

Species proposed for planting

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

Wage rate 2022-2023 = Rs. 475.75

SL No	Qty	Unit	Name of Work	FSR / SSR	FSL	Rate	Per	Amount
<b>PART I - Small size bags.- 13X25 cm.</b>								
1	704	M <sup>2</sup>	Preparation of Nursery site by clearing and levelling the site for forming standard bed of size 10mX1m (110M <sup>2</sup> /1000 Nos)	4.1	2.42	1151.32	200 No	4053
2	12.80	Kg	Cost of seeds (2kgs/ 1000 Nos)	LR	--	250.00	1 No	3200
3	6402	Nos.	Cost of 13x25cmx250G Polythene bags	Tender rate	--	615.00	1000 No	3937
4	19.00	Cum	Forming germination beds of size 10mx1mx 0.3m by heaping the soil - 2500 No per bed	PWD SSR item 62	--	73.10	1 cum	1389
5	2.00	Bed	Watering the germination beds twice daily with rose cans for 15 days	4.5.1	0.82	390.12	10 Beds / day	1170
6	2.00	Bed	Watering the germination beds once daily with rose cans for 15 days	4.5.2	0.41	195.06	10 Beds / day	585
7	5.38	Cu.m	Collection & supply of sand,silt and red soil according to the requirement for preparation of soil mixture - 3/4th of the total volume (0.84 M <sup>3</sup> /1000 Nos)	LR	--	750.00	1 Cu.m	4035
8	1.79	Cu.m	Cost and transport of Farm yard manure for filling bags - 1/ 4th of the total volume. (0.28 M <sup>3</sup> /1000 Nos)	LR		750.00	1 Cu.m	1343
9	6402	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	2131.36	1000 Nos	13645

SL. No	Qty	Unit	Name of Work	FSR / SSR	FSL	Rate	Per		Amount
10	160	Kgs.	Cost of Vermicasting @ 25 gram per seedlings	As per Research Wing Rate	-	10.00	1	Kg	1600
11	64	Kgs.	Cost of VAM @ 10 gram per seedlings		-	18.00	1	Kg	1152
12	32	Kg	Cost of Azospirillum @ 5 gram per seedlings	As per Research Wing Rate	-	27.00	1	Kg	864
13	32	Kg	Cost of Phosphobacteria @ 5 gram per seedling		-	27.00	1	Kg	864
14			Watering the container plants with rose cans -						
a	6402	Nos.	Twice daily - 15 days	4.10.4	0.23	109.42	1000	Day	10508
b	6402	Nos.	Once daily - 30 days	4.11.4	0.115	54.71			10508
c	6402	Nos.	Alternate days spread over 30 days (Effective days-15)		0.115	54.71			5254
15	6402	Nos.	cost of water for watering the container seedlings - 60 watering days	4.18 - FSR 1998-99		0.85	1000	day	245
16	6402	Nos.	Land rent @ 3000 bags/40 sq.m) - 3 Months	4.17	LR	86.00	40	sq.m/month	551
	85.36	M2/ 3 months							
17	6402	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) 2 shifts	4.15.4	0.51	242.63	1000	Shift	3107
SUB - TOTAL (A)									68010
PART II - Bigger size bags: 30x45cmx600g.									
18	6402	Nos.	Cost of 30 X 45cm X 600 G Polythene bags	Tender rate	--	9700.00	1000	No	62099
19	59.09	M3	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 13X25cm containers). (@ 9.23 Cu.m/1000 Nos)	LR	-	750.00	1	M3	44318
20	14.79	M3	Cost and transport of Farm yard manure for filling bags - 1/5th of the total volume. (@ 2.31 Cu.m/1000 Nos)		-	750.00	1	M3	11093



SL No	Qty	Unit	Name of Work	FSR / SSR	FSL	Rate	Per		Amount
21	6402	Nos.	Preparation of soil mixture by breaking clods, sieving, 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 seedlings (excluding cost of soil mixture and FYM)	4.6.7	28.57	13592.18	1000	Nos	87017
22	224	Kgs.	Cost of Vermicasting @ 35 gram per seedlings	As per Research Wing Rate	-	10.00	1	Kg	2240
23	96	Kgs.	Cost of VAM @ 15 gram per seedlings		-	18.00	1	Kg	1728
24	38	Kg	Cost of Azospirillum @ 6 gram per seedlings	As per Research Wing Rate	-	27.00	1	Kg	1026
25	38	Kg	Cost of Phosphobacteria @ 6 gram per seedling		-	27.00	1	Kg	1026
26	64	Mazdoors	Labour cost for transplanting seedlings from 13 X 25 cm containers bags in to 30 X 45 cm containers - 10 Maz. / 1000	As per ME of MTP	--	475.75	1	Nos	30448
27	6402	Nos.	Cost of vertical strick (Casurina poles 5 cm -8 cm girth and 2.50 m height for each plants)	PWD SSR	--	17.50	1	Rm	280088
28	6402	Nos.	Cost of horizondal strick (Casurina poles 5 cm -8 cm girth and 1.00 m height for each plants)	PWD SSR	--	17.50	1	Rm	112035
29	6402	Nos.	Tying plants to the vertical stick once in a month - 2 times	ME	--	0.40	1	Each/ time	5122
30	6402	Nos.	Pruning side branches once in 2 months - 2 times	ME	--	1.00			12804
31			Watering the container plants with rose cans						
a	6402	Nos.	Twice daily - 15 days	4.10.7	0.56	266.42	1000	Day	25584
b	6402	Nos.	Once daily - 30 days	4.11.7	0.28	133.21	1000	Shift	25584

SL No	Qty	Unit	Name of Work	FSR / SSR	FSL	Rate	Per		Amount
c	6402	Nos.	Once in alternate days -spread over 60 days (Effective days-30 days)	4.11.7	0.28	133.21	1000	Shift	25584
d	6402	Nos.	Twice in a week spread over 105 days (Effective days-30 days)	4.11.7	0.28	133.21	1000	Shift	25584
32	6402	Nos.	Land rent @ 500 bags/40 sq.m)	4.17	LR	86.00	40	sq.m/mo nth	7708
	512.2	m2/7 months							
33	6402	Nos.	Shifting the container plants, weeding, grading and replacement of casualties in the bags - shifting to done once in 21 days- 7 shift	4.15.7	2.69	1279.77	1000	Shift	57352
34	6402	Nos.	cost of water for watering the container seedlings - 105 watering days	4.18 - FSR 1998-99		1.60	1000	day	1076
35	1.00	Nos.	Nursery protection mazdoors 1 No / 100000 Nos of 30 x45cm bags - 300 days. (90d+210d)	As per ME of MTP	1	475.75	1	100000/M	9137
36			GST 18% (Item No.3, 17)						11886
37	5	Months	Provision for cost of pesticides and fungasides and Labour charges for application of pesticides - 2 times / month	LR	-	200	1	times	3000
39	L.S		Photo & Documentation etc.,			L.S			4000
39	L.S		Contingencies unforeseen items			L.S			3000
SUB - TOTAL (B)									850539
TOTAL (A + B)									918549

Raising cost for 6402nos of seedlings = 918549

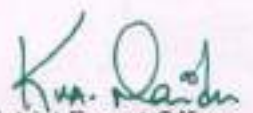
cost for 1 seedlings = Rs 143.48 per seedling 143.48


#### 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 for 5.82Ha. Hence 5820 nos of seedlings has been proposed for 5.82 ha with 10% of casualty 582 Nos. Totally 6402 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 NHAI/MTP model estimate, FSR, PWD SSR for the year 2022-23 and the local rate as per model estimate and Research Wing rate.

  
District Forest Officer,  
Dharmapuri Forest Division  
Dharmapuri.

  
10/02/2023



**Model estimate for planting of native tree species for Compensatory afforestation over an area of 5.82 Ha in degraded forest area at Thoppur RF during 2022-2023 under State CAMPA scheme**

No of seedlings = 5820  
10% Casualty = 582  
Total = 6402

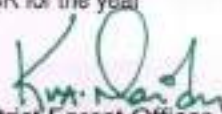
Size of Polybags = 30 x 45 x 600g  
Wage rate = Rs. 475.75  
2022-2023

Sl. No	Qty		Description of work	F.S.R. No.	FSL (Man days)	Rate Rs.	Per		Amount
1	5820	Nos	Aligning and Marking in plantation area	5.2.4	1.38	656.54	100	Nos	38211
2	5820	Nos	Digging of 60 CM3 pits in all types of soil during non rainy season	5.8.1	9.26	4405.45	100	Nos	256397
3	5820	No.	Cost & transport of Farmyard manure each plants 0.60x0.60x0.20=0.072m3/pit	Lowest quotation	-	750.00	1	M3	314280
	419	M3							
4	5820	Nos	Application of Farm yard manure by mixing in the pit before planting - 1 mazdoor for 200 Nos	FSL Wage rate	1.00	475.75	200	No	13844
5	5820	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	44814
6	6402		Transporting saplings (transported to the radius of 40 kms) excluding loading and unloading by Private Vehicle	NHAI ME	-	7.00	1	No	44814
7	6402	Nos	Loading & unloading the container seedlings (30x45cm) in private lorry upto a lead of 2kms excluding hire charges for the vehicles.)	5.11.7	3.29	1565.22	1000	Nos	10021
8			Distribution of saplings from where seedlings are stocked to the planting spot in plains upto 500 mts						
a	2561	Nos	Upto 100 mts	5.15.1	10.00	4757.50	1000	Nos	12183
b	2561	Nos	Upto 200 mts	5.15.2	17.50	8325.63	1000	Nos	21320
c	1280	Nos	Upto 500 mts	5.15.3	41.00	19505.75	1000	Nos	24975
9	5820	Nos	Planting the container plants by refilling pits of size 60cm.	5.22	1.71	813.53	100	Nos	47347
10	12500	RM	Provision of vertical casurina poles 5cm to 8cm 2.50mtr ht. per plant	PWD SSR		17.50	1	RM	218750
11	582	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	3016.26	100	Nos	17555
Sl. No	Qty		Description of work	F.S.R. No.	FSL (Man days)	Rate Rs.	Per		Amount

12	5820	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	585.17	100	Nos	34057
13	0	Nos	Forming catch water drains for each plant of 90x45x 30 cm size in hillocks and hard gravelly soil	5.26	6.84	3254.13	100	Nos	0
14	0	Nos	Providing Brush wood fencing around each plants	-	0.25	118.94	1	No	0
15	5820	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		475.75	200	Nos	207665
16	1746000	Ltrs	Cost of water @ 20 liter per seedlings 15 watering days (5820x20x15=1746000 Ltrs)	NHAI ME		1200.00	12000	Lts	174600
17	1	Nos	Plantation Protection mazdoors from October to March - 180 m.days	Wage rate	1	475.75	1	M. Days	85635
18	5820	Nos	Removing/scrapping vizal monsoon or bothai grass for one meter dia around the plants	5.27	0.21	99.91	100	Nos	5815
19	5	Months	Provision for cost of pesticides and fungasides and Labour charges for application of pesticides - 2 times / month	L.R	-	200	1	time s	2000
20	L.S		Photo & Documentation etc.,			LS			5000
21	LS		Contingencies and unforeseen expenditure to be restricted to as per actuals.			LS			3000
<b>TOTAL</b>									<b>1582283</b>
Add 10% of escalation									158228
<b>Total prorata</b>									<b>1740511</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 for 5.82Ha . Hence 5820 nos of seedlings has been proposed for 5.82 ha with 10% of casualty 582 Nos. Totally 6402 Nos of seedlings has been proposed.
- 2) Rates for the works in SI No. 2 and 8 have been provided for plains. If the area identified for compensatory afforestation is in hilly terrain, the rates for the hills may be followed - **Thoppur RF (Plains)**.
- 3) The Chain link fencing is adopted all round (Pheripheral length) in degraded Forest area , hence brush wood fencing component for each plant is not necessary.
- 4) 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.

  
 District Forest Officer,  
 Dharmapuri Forest Division,  
 Dharmapuri.  
 10/02/2023



**Model estimate for 1st year maintenance of CA plantation over an area of 5.82 Ha in degraded forest area at  
Thoppur RF during 2022-2023 under CAMPA scheme**

No of seedlings  
planted 5820

No of Seedlings for  
casualty replacement = 582

(10% replacement)

Size of Polybags = 30 x 45 x 600g

Wage rate = Rs. 475.75

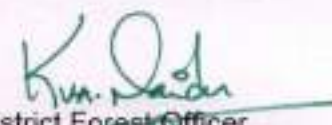

Sl. No	Qty		Description of work	F.S.R. No.	FSL (Man days)	Rate Rs.	Per		Amount
<b>A. NURSERY OPERATION</b>									
1	582	No	Raising cost of seedlings in 30x45 size polythene bags (As per nursery estimate)	As per nursery estimate	-	143.48	1	No	83506
<b>TOTAL (A)</b>									<b>83506</b>
<b>B. PLANTING OPERATION</b>									
1	582	No	Cost & transport of Farm yard manure each plants	Lowest	-	750.00	1	m3	31428
	42	M3	0.60x0.60x0.20=0.072m3/pit						
2	291	Nos.	Application of Farm yard manure by mixing in the pit before planting - 1 mazdoor for 200 Nos	FSL Wages Rate	-	475.75	200	Nos.	692
3	582	Nos.	Transporting saplings (transported in the radius of 40 Kms) excluding loading and unloading in Private vehicle	NHAI ME	--	7.00	1	No.	4074
4	582	Nos	Loading & unloading the container seedlings (30x45cm) in private lorry upto a lead of 2kms (excluding hire charges for the vehicles.)	5.11.7	3.29	1565.22	1000	Nos	911
5			Distribution of seedlings in the site C.plants upto 500mtrs - in plains						
a	232.8	Nos	Up to 100 m.	5.15.1	10.00	4757.50	1000	Nos	1108
b	232.8	Nos	Up to 200 m.	5.15.2	17.50	8325.63	1000	Nos	1938
c	116.4	Nos	Up to 500 m.	5.15.2	41.00	19505.75	1000	Nos	2270
6	582	Nos	Replacement of casualties by reopening failed pits and planting the seedlings	5.23	5.57	2649.93	100	Nos	15423

7	5820	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	585.17	100	Nos	34057
8	5820	Nos	Cost of Bio Fertilizers including cost of application Vermi-campose 1 kg,Bio fertilizer 100 gms VAM 100 Gms	NHAI ME	-	7.70	1	No.	44814
9	3492000	Ltrs	Cost of water @ 20 liter per seedlings 30 watering days (5820x20x30=3492000 Ltrs)	NHAI ME	-	1200.00	12000	Lts	349200
10	5820	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)	4.11.7	0.28	475.75	200	Shift	415330
11	0.00	No	Engaging protection Mazdoor @ 1 Mazdoor from April to March - 12 months (25 days/ Month)	FSR wage rate	-	475.75	0	No	0
12	LS		Contingencies and unforeseen expenditure to be restricted to as per actuals.	LS					5000
TOTAL (B)									906245
TOTAL (A+B) prorata for 1st year maintenance									989751
Add 20% of escalation									197950
Total prorata									1187701

#### Specifications :

- 1) 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.
- 2) The rate for the work in SI No. 5 has been provided for plains. If the area identified for compensatory afforestation is in hilly terrain, the rates for hills may be adopted - **Thoppur RF (Plains)**

**Note:** The degraded Forest land is managable by the respective Range Front line staffs for protection and maintenance.Hence separate Protection mazdoor doesnot requires ( item No.11 ).

  
 District Forest Officer,  
 Dharmapuri Forest Division,  
 Dharmapuri.  
  
 10/02/2023



**Model estimate for 2nd year maintenance of CA plantation over an area of 5.82 Ha in degraded forest area at Thoppur RF during 2022-2023 under CAMPA scheme**

No of Seedlings = 5820

Survival 100% = 5820

Wage rate = Rs. 475.75

2022-2023

Sl. No	Qty		Description of work	F.S.R. No.	FSL (Man days)	Rate Rs.	Per		Amount
1	5820	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	585.17	100	Nos	34057
2	5820	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	44814
3	3492000	Ltrs	Cost of water @ 20 liter per seedlings 30 watering days (5820x20x30=3492000 Ltrs)	NHAI ME	-	1200.00	12000	Lts	349200
4	5820	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)	4.11.7		475.75	200	Shift	415330
5	0.00	No	Engaging protection Mazdoor @ 1 Mazdoor (3 months) (25 days/ Month)	FSR wage rate	-	475.75	0	No	0
6	LS		Contingencies and unforeseen expenditure to be restricted to as per actuals.	LS					5000
Total prorata									848401
Add 30% of escalation									254520
Total prorata 2nd year maintenance									1102921

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.

**Note:** The degraded Forest land is managable by the respective Range Front line staffs for protection and maintenance.Hence separate Protection mazdoor doesnot requires (item no.5).

*K. N. Nandan*  
District Forest Officer,  
Dharmapuri Forest Division,  
Dharmapuri.

*10/02/2023*

**Model estimate for 3rd year maintenance of CA plantation over an area of 5.82 Ha in degraded forest area at Thoppur RF during 2022-2023 under CAMPA scheme**

No of Seedlings = 5820  
Survival 100% = 5820

Wage rate = Rs. 475.75  
2022-2023

Sl. No	Qty		Description of work	F.S.R. No.	FSL (Man days)	Rate Rs.	Per		Amount
1	5820	Nos	Scrapping 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	585.17	100	Nos	34057
2	5820	Kgs	Cost of Bio Fertilizers including cost of application Vermi-campose 1 kg,Bio fertilizer 100 gms VAM 100 Gms	NHAI ME	-	7.70	1	Kg	44814
3	3492000	Ltrs	Cost of water @ 20 liter per seedlings 30 watering days (5820x20x30=3492000 Ltrs)	NHAI ME	-	1200.00	12000	Lts	349200
4	5820	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)	4.11.7	0.28	475.75	200	Shift	415330
5	0.00	No	Engaging protection Mazdoor @ 1 Mazdoor (3 months) (25 days/ Month)	FSR wage rate	-	475.75	0	No	0
6	LS		Contingencies and unforeseen expenditure to be restricted to as per actuals.	LS					5000
Total prorata									848401
Add 40% of escalation									339360
Total prorata 3rd year maintenance									1187761

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.

**Note:** The degraded Forest land is managable by the respective Range Front line staffs for protection, Hence separate Protection mazdoor doesnot requires(item no.5).

  
 K. Q. Singh  
 District Forest Officer,  
 Dharmapuri Forest Division,  
 Dharmapuri.  
 10/02/2023



**Model estimate for 4th year maintenance of CA plantation over an area of 5.82 Ha in degraded forest area at Thoppur RF during 2022-2023 under CAMPA scheme**

No of Seedlings = 5820  
Survival 100% 5820


Wage rate = Rs. 475.75  
2022-2023

Sl. No	Qty		Description of work	F.S.R. No.	FSL (Man days)	Rate Rs.	Per		Amount
1	5820	Nos	Scrapping 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	585.17	100	Nos	34057
2	LS		Contingencies and unforeseen expenditure to be restricted to as per actuals.	LS					1000
Total prorata									35057
Add 50% of escalation									17529
Total prorata 4th year maintenance									52586
Add 10% of escalation for 5th year									5259
Total prorata for 5th year maintenance									57844
Add 10% of escalation for 6th year									5784
Total prorata for 6th year maintenance									63628
Add 10% of escalation for 7th year									6363
Total prorata for 7th year maintenance									69991
Add 10% of escalation for 8th year									6999
Total prorata for 8th year maintenance									76990
Add 10% of escalation for 9th year									7699
Total prorata for 9th year maintenance									84689
Add 10% of escalation for 10th year									8469
Total prorata for 10th year maintenance									93158

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.

  
 District Forest Officer,  
 Dharmapuri Forest Division,  
 Dharmapuri.

  
 10/02/2023

**Providing Chain link fencing (for 1000m) around Compensatory Afforestation area of Thoppur degraded Forest land of 5.82Ha in Dharmapuri range of Dharmapuri Forest Division during 2022-23**

**ABSTRACT ESTIMATE**

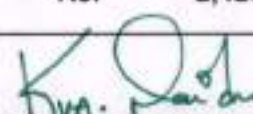
Sl. No.	Quantity		Description	Rate	per	Amount
1	2000.00	M <sup>2</sup>	Clearing the light jungle as per standard specification.	6.66	M <sup>2</sup>	13,320.00
2	108.43	M <sup>3</sup>	Earth work open excavation in SDR - (Not Requiring Blasting) Earth work excavating and depositing on bank with initial lead of 10 m & initial lift of 2m in Soft disintegrated rock, laterite, soft rock or kankar, not requiring blasting inclusive of shoring shuttering, bailing out water wherever necessary and depositing the excavated earth with a lead of 10 m'ts. in places shown by the departmental officers and clearing and levelling the site, etc., complete complying with standard specification.	189.84	M <sup>3</sup>	20,584.00
3	33.89	M <sup>3</sup>	Cement Concrete 1:2:4 (One Cement, Two sand and Four hard broken stone jelly) using 20 mm gauge hard broken granite stone jelly for foundation including dewatering wherever necessary and laid in layers of not more than 15 cm thick, well rammed, consolidated and curing etc. complete complying with standard specification	6,935.01	M <sup>3</sup>	2,35,027.00
4	451.80	M <sup>2</sup>	Supplying and erecting steel centering including necessary supports for plane surfaces for Reinforced Cement Concrete works such as column footings, column pedestals, plinth beams, grade beams, staircase steps, etc. which require only nominal strutting using mild steel sheets of size 90cm x 60cm and 10 BG stiffened with welded mild steel angles of size 25mm x 25mm x 3 mm for boarding, laid over silver oak joists of size 10cm x 6.5cm spaced at about 75cm centre to centre or at suitable intervals etc. complete in all floors complying with standard specification. (Payment for centering shall be given after the concrete is laid)	872.74	M <sup>2</sup>	3,94,304.00
5	5421.60	kg.	Supplying and fixing in position of 2 1/2" x 2 1/2" x 1/4" (62.50 x 62.5 x 6.25mm) MS angles including cost and conveyance of materials and fixing in position including cutting and welding etc; complete complying with standard specification and as directed by the departmental officers.	69.12	M <sup>3</sup>	3,74,741.00
6	1830.00	M <sup>2</sup>	Supplying and fixing in position of Chain Link 2" x 2" using 10 Gauge Galvanised Iron Wire (of all sizes) including cost and conveyance of all materials at site and labour for fixing including cost of binding wire etc. complete complying with standard specification.	274.32	M <sup>3</sup>	5,02,006.00




Sl. No.	Quantity		Description	Rate	per	Amount
7	135.54	M <sup>2</sup>	Plastering with Cement mortar 1:5 ( one cement and five sand ) 20mm thick in all floors including mixing mortar, working in all heights including curing with all leads and lifts for good water etc., complete complying with TNBSS and as directed by the departmental officers.	508.65	M <sup>2</sup>	68,942.00
8	135.54	M <sup>2</sup>	WHITE WASHING TWO COATS using best freshly burnt shell lime and colouring pigments in all floors including cost of lime blue powder, fevical type gum brushes, scaffolding charges etc., complete complying with standard specification.	36.40	M <sup>2</sup>	4,934.00
9	225.90	M <sup>3</sup>	Painting new iron works such as steel doors, windows, ventilators, window bars, balustrades etc., with two coats of best approved first quality and colour of synthetic enamel paint over the existing red oxide priming coat in all floors excluding cost of priming coat etc., complete complying with standard specification. (The make, quality and colour of paint should be got approved by the Executive Engineer before use on works.)	165.00	M <sup>3</sup>	37,274.00
10	36.14	M <sup>2</sup>	Refilling the excavated soil for basement level filling using foundation cutting earth etc complete complying with standard specification.	44.34	M <sup>2</sup>	1,602.00
11	LS		Transportation charges of chain link fencing and angles to the work site including loading and unloading etc; complete.	LS		15,000.00
			<b>Sub Total</b>			<b>16,67,734.00</b>
12	LS		GST at 18% (CGST at 9%o + SGST at 9%) is leviable for any Government contract, whether Civil or Electrical, irrespective of the GST rate applicable on purchase of goods used in the execution of Government Contract.	LS		3,00,192.12
13	LS		Provision for Labour welfare fund 1.00%	LS		16,677.00
14	LS		Provision for unforeseen items of works such as painting and writting awareness sign boards, documentation & photographic charges etc.	LS		15,461.00
			<b>Total</b>			<b>20,00,064.12</b>

( Cost per 1RM = Rs.2000064/1000 = Rs. 2000/- )

Sl. No.	Quantity	Description	Rate	per	Amount
		Rate per 1RM for the year 2022-2023	=	Rs.	2,000.00
		Rate per 1RM for the year 2023-2024 (Add for 10% cost escalation)	=	Rs.	2,200.00
		Rate per 1RM for the year 2024-2025 (Add for 10% cost escalation)	=	Rs.	2,420.00

  
 District Forest Officer  
 Dharmapuri Division  
 Dharmapuri

  
 10/02/2023