


**ABSTRACT PROPOSAL FOR RAISING SEEDLINGS, PLANTING AND MAINTENANCE FOR 10 YEARS
OVER AN AREA OF 1.328 HA. IN RADHAPURAM RF OF SATHANUR RANGE OF TIRUVANNAMALAI
FOREST DIVISION UNDER CAMPA SCHEME**

Sl. No.	Description of Work	Proposed Estimate Cost	Remarks
1	2	3	4
1	Raising Nursery Operation - 1461 Nos	200000.00	--
2	Planting Operation - 1328 seedlings	708400.00	10% weightage towards esclation of labour wage rate during 2023-24 from 1st year maintenance
3	1st Year Maintenance	441848.40	20% weightage towards esclation of labour wage rate during 2024-25 from 2nd year maintenance
4	2nd Year Maintenance	297700.00	30% weightage towards esclation of labour wage rate during 2025-26 from 3rd year maintenance
5	3rd Year Maintenance	320600.00	40% weightage towards esclation of labour wage rate during 2026-27 from 4th year maintenance
6	4th Year Maintenance	12000.00	50% weightage towards esclation of labour wage rate during 2027-28 from 5th year maintenance
7	5th Year Maintenance	13200.00	60% weightage towards esclation of labour wage rate during 2028-29 from 6th year maintenance
8	6th Year Maintenance	14520.00	70% weightage towards esclation of labour wage rate during 2029-30 from 7th year maintenance
9	7th Year Maintenance	15972.00	80% weightage towards esclation of labour wage rate during 2030-31 from 8th year maintenance
10	8th Year Maintenance	17569.00	90% weightage towards esclation of labour wage rate during 2031-32 from 9th year maintenance
11	9th Year Maintenance	19326.00	100% weightage towards esclation of labour wage rate during 2032-33 from 10th year maintenance
12	10th Year Maintenance	21259.00	110% weightage towards esclation of labour wage rate during 2033-34 from 10th year maintenance
	Total	2082394	


 District Forest Officer,
 Tiruvannamalai Forest Division,
 Tiruvannamalai.

**MODEL ESTIMATE FOR RAISING NURSERY FOR COMPENSATORY AFFORESTATION OVER
AN AREA OF 1.328 HA. IN RADHAPURAM RF OF SATHANUR RANGE OF
TIRUVANNAMALAI FOREST DIVISION UNDER CAMPA SCHEME DURING 2022-23.**

Total Area 1.328
Seedlings per ha 1000
No.of seedlings 1328
Casualty 10% 133
Total 1461

Size of poly bags : 13x25x250gms
Transplanting Size of Jute bags :
30x45x600gms
Labour Rate : 475.75


Total Amount Rs. **200000**
Pro rate / Seedling **136.89**

Sl. No.	Qty	Unit	Description of works	FSR No.	Rate	Per/Qty	Amount
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
PART-I - SMALL SIZE BAGES : 13X25cmX250gms							
1	161	m ²	Preparation of Nursery site by clearing and levelling the site for forming standard bed of size 10mx1m	4.1	1151.32	200 m ²	925
2	3.00	kgs	Cost of seeds	LR	250.00	1 kg	750
3	1461	Nos	Cost of Polythene bags of 13x25cmx250gms size bags	As per Tender Rate	962.00	1000 Nos	1405
4	4.5	m ³	Formation of Germination bed of size 10m x 1m x 0.30m by heaping the soil	PWD SSR Item No.62 (2021-22)	73.10	1 m ³	330
5	1.0	Beds	Watering the GerminationBeds twice daily with rose can for 15 days	4.5.1	390.12	1 10 B/D	585
6	1.0	Beds	Watering the Germination beds Once daily with rose can for 15 days	4.5.2	195.06	1 10 B/D	293
7	1.2272	m ³	Collection and supply of Red soil, Sand, Silt for filling in Polythene bags	LR	750.00	1 m ³	920
8	0.4091	m ³	Collection and supply of Farmyard Manure for filling in Polythene bags	LR	750.00	1 m ³	307
9	1461	Nos	Preparation of Soil Mixture by breaking clods, sieving and mixing of fertile earth (including red soil, sand and silt etc according to requirements) and Farm Yard Manure at 4:1 ratio heaping at the filling site and filling in the polythene bags - 10x20cms.	4.6.4	2131.36	1000 Nos	3114

Sl. No.	Qty	Unit	Description of works	FSR No.	Rate	Per/Qty		Amount
(1)	(2)	(3)	(4)	(5)	(6)	(7)		(8)
10	36.53	Kgs	Cost of Vermicasting @ 25gm/ container seedlings	Modern Nursery, Dharma puri Rate	10.00	1	kg	365
11	14.61	kgs	Cost of VAM @ 10gm / Container seedlings		18.00	1	kg	263
12	7.31	kgs	Cost of Bio-fertilizers such as Azospirillum @ 5gm / container seedlings		27.00	1	kg	197
13	7.31	Kgs	Cost of Phospobacteria @ 6gms / container seedlings		27.00	1	kg	197
14			Watering the container plants with rose cane - watering regime as per the NHA ME approved in PCCF's Ref.No.J1/57395/2003/dt.12.12.2003)					
a)	1461	15 days	Twice daily - 15 days	4.10.4	109.42	1000	Nos	2398
b)	1461	30 days	Once daily - 30 days	4.11.4	54.71	1000	Nos	2398
c)	1461	15 days	Alternate days - 15 days	4.11.4	54.71	1000	Nos	1199
15	1461	60 days	Cost of water for watering the container seedlings from private wells - 60 days	4.18 - FSR 1998-99	0.85	1000	Nos	75
16	1461	Nos.	Land rent for keeping nursery in private land @ 3000/40sqm	4.17	86	40	Sqm/month	126
	19.48	M2/3 months						
17	1461	2 shifts	Shifting and grading the container plants including weeding and replacement of casualties - 2 shifts	4.15.4	242.63	1000	Nos	709
			SUB TOTAL (A)					16556
PART-II - BIGGER SIZE BAGS - 30X45cmX600gms								
18	1461	Nos.	Cost of Polythene bag of size 30x45cmx600 G size	Tender Rate	6584	1000	Nos.	9619
19	13.49	m ³	Collection and supply of sand, silt and red soil according to the requirement for preparation of soil mixture - 4/5th of the total volume (excluding volume of 13x25cm bags) 30x45cm poly bags volume = 9.23m ³ /1000 Nos	LR	750	1	m ³	10118
20	3.37	m ³	Cost of Farm Yard Manure for filling 30x45cm bags 1/5 of the total volume (2.31m ³ /1000 Nos.)	LR	750	1	m ³	2528

Sl. No.	Qty	Unit	Description of works	FSR No.	Rate	Per/Qty		Amount
(1)	(2)	(3)	(4)	(5)	(6)	(7)		(8)
21	1461	Nos.	Preparation of Soil Mixture by breaking clods, sieving and mixing soil, silt and sand according to requirement and farm year manure in the ratio of 4:1, heaping at the fillingsite and filing in poly bags, arranging bags in beds and pricking out the seedlings (excluding cost of soil mixture and FYM)	4.6.7	13592.18	1000	Nos.	19858
22	51.14	Kgs	Cost of Vermicasting @ 35gm/ container seedlings	Modern Nursery, Dharma puri Rate	10.00	1	kg	511
23	21.92	kgs	Cost of VAM @ 15gm / Container seedlings		18.00	1	kg	394
24	8.77	kgs	Cost of Bio-fertilizers such as Azospirillum @ 6gm / container seedlings		27.00	1	kg	237
25	8.77	Kgs	Cost of Phospobacteria @ 6gms / container seedlings		27.00	1	kg	237
26	14.61	Maz	Labour cost for transplanting seedlings from 13x25cm containers bags into 30x45cm containers - 10 maz./1000	As per ME of MTP	475.75	1	Maz	6951
27	1461	Nos.	Cost of vertical supporting stick (Casurina poles 5cm - 8cm girth and 2.50m height for each plants)	PWDSSR	17.50	1	RM	63919
28	731	Nos.	Cost of horizontal supporting stick of (Casurina poles 5cm - 8cm girth and 1 m height for each plants)	PWDSSR	17.50	1	No.	12793
29	1461	Nos.	Tying plants to the vertical stick once in a month - 2 times	ME	0.40	1	No.	1169
30	1461	Nos.	Pruning side branches once in 2 months 2 times	ME	1.00	1	No.	2922
31			Watering the container plants with rose cans - watering regime as per the NHAJ M.E. approved in PCCF's Ref.No.J1/57395/2003/ dt.12.12.03)					
a)	1461	Nos	Twice Daily - 15 days	4.10.7	266.42	1000	Nos.	5839
b)	1461	Nos	Once Daily - 30 days	4.11.7	133.21	1000	Nos.	5839
c)	1461	Nos	Once in alternate days - spread over 60 days (Effective days-30 days)	4.11.7	133.21	1000	Nos.	5839
d)	1461	Nos	Twice in a week spread over 105 days (Effective days-30 days)	4.11.7	133.21	1000	Nos.	5839
32	1461	Nos.	Land rent for keeping nursery in private land @ 3000/40sqm	4.17	86	40	Sq/ month	1759
	116.88	M2/7 months						

Sl. No.	Qty	Unit	Description of works	FSR No.	Rate	Per/Qty		Amount
(1)	(2)	(3)	(4)	(5)	(6)	(7)		(8)
33	1461	7 shifts	Shifting the container once in 21 days. First shift after 45 days from the date of transplanting - 6 times.	4.15.7	1279.77	1000	1 shift	13088
34	1461	105 days	Cost of Water for watering the container seedlings from private wells - 105 days	4.18 - FSR 1998-99	1.60	1000	Nos.	245
35	1461	300 Days	Nursery Protection mazdoor to watch and ward the nursery and for application of manure etc.,	Wage Rate	475.75	100000	Month / Nos.	2085
36			GST 18% (item No.3,17)					1984
33	LS		Provision for cost of pesticides and fungicides including labour charges	LS				5000
34	LS		Photograph and Documentation charges					3000
35	LS		Contingencies for application of pesticides and panchagavya etc, and unforeseen items and transporting of Vermic casting from Dharmapuri Modern Division.	LS				1671
			Total - B					183444
			Total (A+B)					200000
			Seedlings cost					136.89


 District Forest Officer,
 Tiruvannamalai Division,
 Tiruvannamalai.

21/2/23

**MODEL ESTIMATE FOR COMPENSATORY AFFORESTATION PLANTING OVER AN AREA OF 1.328 HA.
IN RADHAPURAM RF OF SATHANUR RANGE OF TIRUVANNAMALAI FOREST DIVISION UNDER CAMPA
SCHEME DURING 2023-24.**

No. of seedling 1328

Species : Miscellaneous

Size of Pits: 60cm³ (30x45cm size)


Total Cost Rs. 708400 /-

Pro-rata/seed 533.43

Labour Rate : 475.75 /day

Sl. No.	Qty	Unit	Description of works	FSR No.	Rate	Per/Qty	Amount
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	1328	Nos.	Aligning and Marking in plantation area	5.2.4	656.54	100 Nos.	8719
2	1328	Nos.	Digging of 60 cm ³ pits in all types of soil during non rainy season	5.8.1	4405.45	100 Nos.	58504
3	1328	kgs	Cost & Transport of Farmyard manure each plants 0.60x0.60x0.20=0.072m ³ /pit	Lower quotation	750	1 kgs	72000
	96	M3					
4	1328	Nos.	Application of Farmyard manure by mixing in the pit before planting-1 mazdoor for 200 Nos	FSL Wages Rate	475.75	200 Nos.	3159
5	1328	Nos.	Cost of Bio fertilizer including cost of application - vermicompot 1kg. Bio fertilizers 100gms, VAM 100gms	NHAI ME	7.70	1 Each	10226
6	1461	Nos.	Transporting saplings (Transported to the radius of 40 kms) excluding loading and unloading	NHAI ME	7.00	1 Each	10227
7	1461	Nos.	Loading and unloading the polythene container seedlings in private / department vehicles (excluding hire charges)	5.11.7	1565.22	1000 Nos.	2287
8			Distribution of saplings from where seedlings are stocked to the planting spot upto 100mts				
	584	Nos.	Upto 100 mts	5.15.1	4757.50	1000 Nos.	2778
	584	Nos.	Upto 200 mts	5.15.2	8325.63	1000 Nos.	4862
	293	Nos.	Upto 500 mts	5.15.3	19505.75	1000 Nos.	5715
9	1328	Nos.	Planting the container seedlings by refilling the pits of size 60cm	5.22	813.53	100 Nos.	10804
10	3320	RM	Provision of vertical casuarina poles 5cm to 8cm 2.5mtr height per plant	PWDSSR	17.50	1 RM	58100
11	133	Nos.	Replacement of casualties by re-opening the failed pits and planting the container plants and refilling the pits (1/2 pitting rate + full planting rate)	5.23	3016.26	100 Nos.	4012

Sl. No.	Qty	Unit	Description of works	FSR No.	Rate	Per/Qty	Amount
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
12	1328	Nos.	Scrap weeding for 1m dia and soil working 15cm depth around each plant and removing the grass roots away from the site by upturning the soil	5.24	585.17	100 Nos.	7771
13	1328	Nos.	Forming catch water drains for each plant of 90x45x30cm size in hillocks and hard gravelly soil	5.26	3254.13	100 Nos.	43215
14	1328	Nos.	Providing Brush wood fencing around each plants	--	118.94	1 Nos.	157952
15	1328	Nos.	Watering the plants once in 6 days during summer / non-rainy season period from January to March @ one mazdoor for 200 plants / watering day (15 watering days)	NHAI ME	475.75	200 1 day	47385
16	398400	Litters	Cost of water @ 20 liters per seedlings 15 watering days (5000x20x15=1500000 Lts)	NHAI ME	1200.00	12000 Lit.	39840
17	1	Nos.	Plantation Protection mazdoor from October to March - 180 m.days	Wages	475.75	1 M. Days	85635
18	5000	Nos.	Removing / Scrapping vizal monsoon or bothai grass for one meter dia around the plants	5.27	99.91	100 Nos.	4996
19	5	Months	Provision for cost of pesticides and fungicides and Labour charges for application of pesticides - 2 times / months	L.R.	200.00	1 times	2000
20	LS		Photo & Documentation etc.,	LS			2000
21	LS.		Contingencies and unforeseen expenditure to be restricted to as per actuals	-	-	-	1813
			TOTAL				644000
			10% Escalation Charges				64400
			Grand Total				708400
			Cost per seedling				533.43


 District Forest Officer,
 Tiruvannamalai Division,
 Tiruvannamalai.

**MODEL ESTIMATE FOR 1ST YEAR MAINTENANCE OF COMPENSATORY AFFORESTATION
PLANTATION OVER AN AREA OF 1.328 HA. IN RADHAPURAM RF OF SATHANUR RANGE OF
TIRUVANNAMALAI FOREST DIVISION UNDER CAMPA SCHEME DURING 2024-25.**

No.of seedlings 1328
Planted:

No.of seedlings for
casualty 133

Size of Polybags = 30x45x600g

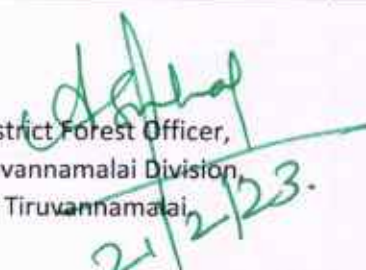
(10 % Replancement)

Wage Rate Rs.:

475.75

Sl. No.	Qty	Unit	Description of works	FSR No.	Rate	Per/Qty	Amount
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			Nursery Operation				
1	133	Nos.	Raising cost of seedlings (as per Nursery Estimate)	As per Nurser Estimate	136.89	1 No	18207
TOTAL (A)							18207
			Planting Operations				
1	133.00	Kgs	Cost & Transport of Farmyard manure each plants 0.60x0.60x0.20=0.072 m3/pit	Lower Quotation	750	1 M3	7182
	9.58	M3					
2	67	Nos.	Application of poultry manure @ 500 gms pr plant by mixing in the pit before planting - 1 mazdoor for 200 Nos.	FSL Wage Rate	475.75	200 Nos.	158
3	133	Nos.	Transporting saplings (transported to the radius of 40 kms) excluding loading and unloading in private vehicle	LS	7.00	1 Nos.	931
4	133	Nos.	Loading & Unloading the container seedlings (30x45cm) in private lorry upto lead of 2kms (excluding hire charges for the vehicle)	5.11.7	1565.22	1000 Nos.	208
5			Distribution of saplings from where seedlings are stocked to the planting spot upto 100mts				
	53	Nos.	Upto 100 mts	5.15.1	4757.50	1000 Nos.	252
	53	Nos.	Upto 200 mts	5.15.2	8325.63	1000 Nos.	441
	27	Nos.	Upto 500 mts	5.15.3	19505.75	1000 Nos.	527

Sl. No.	Qty	Unit	Description of works	FSR No.	Rate	Per/Qty	Amount
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
6	133	Nos.	Replacement of casualties by re-opening the failed pits and planting the container plants and refilling the pits (1/2 pitting rate + full planting rate)	5.23	2649.93	100 Nos.	3524
7	1328	Nos.	Scrap weeding for 1m dia and soil working 15cm depth around each plant and removing the grass roots away from the site by upturning the soil	5.24	585.17	100 Nos.	7771
8	1328	Nos.	Cost of Bio Fertilizers including cost of application Vermi-compost 1 Kg Bio fertilizer 100 gms VAM 100 Gms	NHAI ME	7.70	1 No	10226
9	796800	Lts	Cost of water @ 20 liter per seedlings 30 watering days (5000x20x30=300000 Lts)	NHAI ME	1200.00	12000 Lts	79680
10	1328	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	100 nos/day	94769
11	1	No	Engaging protection Mazdoor @ 1 Mazdoor from April to March - 12 months (25 days / Month)	FSR wage rate	475.75	1 No	142725
10	LS.		Contingencies and unforeseen items to be restricted to as per actuals	LS	-	-	1606
						TOTAL (B)	350000
						Total (A+B) prorata for 1st year maintenance	368207
						Add 20% Escalation for 2nd year	73641
						Grand Total	441848


 District Forest Officer,
 Tiruvannamalai Division
 Tiruvannamalai

21/2/23.

**MODEL ESTIMATE FOR 2ND YEAR MAINTENANCE OF COMPENSATORY AFFORESTATION
PLANTING OVER AN AREA OF 1.328 HA. IN RADHAPURAM RF OF SATHANUR RANGE OF
TIRUVANNAMALAI FOREST DIVISION UNDER CAMPA SCHEME DURING 2025-26**

No. of seedlings planted : 1328
Survival 100% : 1328

Labour Rate per day: 475.75

Sl. No.	Qty		Name of work	FSR / SSR Item No.	Rate	Per	Amount
1	2		3	4	5	6	7
1	1328	Nos.	Scrap weeding for 1m dia and soil working 15cm depth around each plant and removing the grass roots away from the site by upturning the soil	5.24	585.17	100 Nos.	7771
2	1328	Nos.	Cost of Bio Fertilizers including cost of application Vermi-compost 1 Kg Bio fertilizer 100 gms VAM 100 Gms	NHAI ME	7.70	1 No	10226
3	796800	Lts	Cost of water @ 20 liter per seedlings 30 watering days (5000x20x30=300000 Lts)	NHAI ME	1200.00	12000 Lts	79680
4	1328	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	100 nos/day	94769
5	1	No	Engaging protection Mazdoor @ 1 Mazdoor for 3 months months (25 days / Month)	FSR wage rate	475.75	1 No	35681
6	LS.		Contingencies and unforeseen items to be restricted to as per actuals	LS	-	-	873
			Cost for 2nd year maintenance				229000
			Add Escalation cost 30%				68700
			Total Cost for 2nd year maintenance				297700



 District Forest Officer
 Tiruvannamalai Division
 Tiruvannamalai.
 21/2/23

**MODEL ESTIMATE FOR 3RD YEAR MAINTENANCE OF COMPENSATORY AFFORESTATION
PLANTING OVER AN AREA OF 1.328 HA. IN RADHAPURAM RF OF SATHANUR RANGE OF
TIRUVANNAMALAI FOREST DIVISION UNDER CAMPA SCHEME DURING 2026-27.**

No.of seedings
planted : 1328
Survival 100% : 1328

Labour Rate per day: 475.75

Sl. No.	Qty		Name of work	FSR / SSR Item No.	Rate	Per	Amount
1	2		3	4	5	6	7
1	1328	Nos.	Scrap weeding for 1m dia and soil working 15cm depth around each plant and removing the grass roots away from the site by upturning the soil	5.24	585.17	100 Nos.	7771
2	1328	Nos.	Cost of Bio Fertilizers including cost of application Vermi-compost 1 Kg Bio fertilizer 100 gms VAM 100 Gms	NHAI ME	7.70	1 No	10226
3	796800	Lts	Cost of water @ 20 liter per seedlings 30 watering days (5000x20x30=300000 Lts)	NHAI ME	1200.00	12000 Lts	79680
4	1328	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	100 Nos.	94769
5	1	No	Engaging protection Mazdoor @ 1 Mazdoor for 3 months months (25 days / Month)	FSR wage rate	475.75	1 No	35681
6	LS.		Contingencies and unforeseen items to be restricted to as per actuals	LS	-	-	873
			Total prorata				229000
			Add Escalation cost 40%				91600
			Total Cost for 3rd year maintenance				320600


 District Forest Officer,
 Tiruvannamalai Division,
 Tiruvannamalai.

**MODEL ESTIMATE FOR 4TH YEAR MAINTENANCE OF COMPENSATORY AFFORESTATION
PLANTING OVER AN AREA OF 1.328 HA. IN RADHAPURAM RF OF SATHANUR RANGE OF
TIRUVANNAMALAI FOREST DIVISION UNDER CAMPA SCHEME DURING 2027-28.**

No.of seedings planted : 1328
Survival 100% : 1328

Labour Rate per day: 475.75

Sl. No.	Qty		Name of work	FSR / SSR Item No.	Rate	Per	Amount
1	2		3	4	5	6	7
1	1328	Nos.	Scrap weeding for 1m dia and soil working 15cm depth around each plant and removing the grass roots away from the site by upturning the soil	5.24	585.17	100 Nos.	7771
2	LS.		Contingencies and unforeseen items to be restricted to as per actuals	LS	-	-	229
			Total prorata				8000
			Add Escalation cost 50%				4000
			Total Prorata for 4th year maintenance				12000

Add 10% escalation	1200
Cost for 5th year maintenance	13200
Add 10% escalation	1320
Cost for 6th year maintenance	14520
Add 10% escalation	1452
Cost for 7th year maintenance	15972
Add 10% escalation	1597
Cost for 8th year maintenance	17569

Add 10% escalation	1757
Cost for 9th year maintenance	19326

Add 10% escalation	1933
Cost for 10th year maintenance	21259

District Forest Officer,
Tiruvannamalai Division
Tiruvannamalai

