

**MODEL ESTIMATE FOR RAISING NURSERY FOR COMPENSATORY AFFORESTATION OVER  
AN AREA OF 1.80 HA. IN PINJUR C-BLOCK RF OF CHENGAM RANGE OF  
TIRUVANNAMALAI FOREST DIVISION UNDER CAMPA SCHEME DURING 2022-23.**

Area in ha                      1.80  
Seedlings per ha              1000  
No.of seedlings               1800  
Casualty 10%                180  
Total                              1980

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

Total Amount Rs.            **495000**  
Pro rate /                        **250.00**

Sl. No.	Qty	Unit	Description of works	FSR No.	Rate	Per/Qty	Amount
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
<b>PART-I - SMALL SIZE BAGES : 13X25cmX250gms</b>							
1	326	m <sup>2</sup>	Preparation of Nursery site by clearing and levelling the site for forming standard bed of size 10mx1m	4.1	1151.32	200 m <sup>2</sup>	1878
2	4.0	kgs	Cost of seeds	LR	250.00	1 kg	990
3	1980	Nos	Cost of Jute bags of 13x25cmx250gms size bags	As per Tender Rate	30000.00	1000 Nos	59400
4	5.7	m <sup>3</sup>	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 <sup>3</sup>	416
5	5.7	Beds	Watering the GerminationBeds twice daily with rose can for 15 days	4.5.1	390.12	1 10 B/D	2207
6	5.7	Beds	Watering the Germination beds Once daily with rose can for 15 days	4.5.2	195.06	1 10 B/D	1103
7	2.1266	m <sup>3</sup>	Collection and supply of Red soil, Sand, Silt for filling in Polythene bags 10 x 20 cm	LR	750.00	1 m <sup>3</sup>	1595
8	0.5349	m <sup>3</sup>	Collection and supply of Farmyard Manure for filling in Polythene bags	LR	750.00	1 m <sup>3</sup>	401
9	1980	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	4220
10	69.30	Kgs	Cost of Vermicasting @ 35gm/ container seedlings	Modern Nursery, Dharma puri Rate	10.00	1 kg	693
11	29.70	kgs	Cost of VAM @ 15gm / Container seedlings		18.00	1 kg	535
12	11.88	kgs	Cost of Bio-fertilizers such as Azosphirillum @ 6gm / container seedlings		27.00	1 kg	321

Sl. No.	Qty	Unit	Description of works	FSR No.	Rate	Per/Qty		Amount
(1)	(2)	(3)	(4)	(5)	(6)	(7)		(8)
13	11.88	Kgs	Cost of Phospobacteria @ 6gms / container seedlings		27.00	1	kg	321
14			Watering the container plants with rose cane - watering regime as per the NHAI ME approved in PCCF's Ref.No.J1/57395/2003/dt.12.12.2003)					
a)	1980	15 days	Twice daily - 15 days	4.10.4	109.42	1000	Nos	3250
b)	1980	30 days	Once daily - 30 days	4.11.4	54.71	1000	Nos	3250
c)	1980	15 days	Alternate days - 15 days	4.11.4	54.71	1000	Nos	1625
15	1980	60 days	Cost of water for watering the container seedlings from private wells - 60 days	4.18 - FSR 1998-99	0.85	1000	Nos	101
16	1980	2 shifts	Shifting and grading the container plants including weeding and replacement of casualties - 2 shifts	4.15.4	242.63	1000	Nos	961
			<b>SUB TOTAL (A)</b>					<b>83267</b>
<b>PART-II - BIGGER SIZE BAGS - 30X45cmX600gms</b>								
17	1980	Nos.	Cost of Jute bag of size 30x45cm size	Tender Rate	89680	1000	Nos.	177566
18	18.28	m <sup>3</sup>	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 <sup>3</sup> /1000 Nos	LR	750	1	m <sup>3</sup>	13706
19	4.57	m <sup>3</sup>	Cost of Farm Yard Manure for filling 30x45cm bags 1/5 of the total volume (2.31m <sup>3</sup> /1000 Nos.)	LR	750	1	m <sup>3</sup>	3431
20	1980	Nos.	Preparation of Soil Mixture by breaking clods, sieving and mixing soil, silt and sand according to requirement and farm year mannure 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.	26913
21	69.30	Kgs	Cost of Vermicasting @ 35gm/ container seedlings	Modern Nursery, Dharma puri Rate	10.00	1	kg	693
22	29.70	kgs	Cost of VAM @ 15gm / Container seedlings		18.00	1	kg	535
23	11.88	kgs	Cost of Bio-fertilizers such as Azosphirillum @ 6gm / container seedlings		27.00	1	kg	321
24	11.88	Kgs	Cost of Phospobacteria @ 6gms / container seedlings		27.00	1	kg	321



Sl. No.	Qty	Unit	Description of works	FSR No.	Rate	Per/Qty	Amount
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
25	19.8	Maz	Labour cost for transplanting seedlings from 13x25cm containers bags into 30x45cm containers - 10 maz./1000	LR	475.75	1 Maz	9420
26	1980	Nos.	Cost of vertical supporting stick of size 2.5m Ht.		13.00	1 No.	25740
27	990	Nos.	Cost of horizontal supporting stick of 2.5 m ht.		3.00	1 No.	2970
28	1980	Nos.	Tying plants to the vertical stick once in a month - 2 times		0.40	1 No.	1584
29	1980	Nos.	Pruning side branches once in 2 months - 2 times		1.00	1 No.	3960
30			<b>Watering the container plants with rose cans - watering regime as per the NHAI M.E. approved in PCCF's Ref.No.J1/57395/2003/ dt.12.12.03)</b>				
a)	1980	60 Days	Twice Daily - 60 days	4.10.7	266.42	1000 Nos.	31651
b)	1980	60 Days	Once Daily - 60 days	4.11.7	133.21	1000 Nos.	15825
31	1980	6 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	15204
32	1980	120 days	Cost of Water for watering the container seedlings from private wells - 120 days	4.18 - FSR 1998-99	1.60	1000 Nos.	380
33	462	5 months	Land Rent for keeping nursery in private land - 1000/60sqm	4.17 FSR 1998-99	86.00	40 m <sup>2</sup>	4967
32	1980	210 Days	Nursery Protection mazdoor to watch and ward the nursery and for application of manure etc.,	Wage Rate	475.75	20000 Nos.	9891
33	LS		Provision for cost of pesticides and fungasides including labour charges	LS			5000
34	LS		Photograph and Documentation charges				5000
35	LS		Contingencies for application of pesticides and panchagavya etc, and unforeseen items and transporting of Vermic casting from Dharmapuri Modern Division.	LS			11655
			<b>Total - B</b>				<b>366733</b>
			<b>Total (A+B)</b>				<b>450000</b>
			<b>10% Escalation Cost</b>				<b>45000</b>
			<b>Grand Total</b>				<b>495000</b>
			<b>Seedlings cost</b>				<b>250.00</b>

  
 District Forest Officer,  
 Tiruvannamalai Division,  
 Tiruvannamalai.

**MODEL ESTIMATE FOR COMPENSATORY AFFORESTATION PLANTING OVER AN AREA OF 1.80 HA.  
IN PINJUR C-BLOCK RF OF CHENGAM RANGE OF TIRUVANNAMALAI FOREST DIVISION UNDER  
CAMPA SCHEME DURING 2022-23.**

No. of seedling 1800

Species : Miscellaneous

Size of Pits: 60cm<sup>3</sup> (30x45cm size)

Total Cost Rs. 341000


Pro-rata/seed 189.44

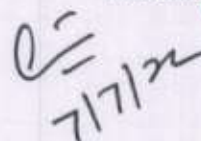
Labour Rate : 475.75 /day

Sl. No.	Qty	Unit	Description of works	FSR No.	Rate	Per/Qty	Amount
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	1800	Nos.	Digging of 60 cm <sup>3</sup> pits in all types of soil during Rainy season	5.8.2	3672.79	100 Nos.	66110
2	900	kgs	Cost & Transport of poultry manure each plants 500 gms	Lower quotation	7500	1000 kgs	6750
3	1800	Nos.	Application of poultry manure @500 gms per plant by mixing in the pit before planting 1 mazdoor for 200 Nos.	FSL Wages Rate	475.75	200 Nos.	4282
4	1800	Nos.	Cost of Bio fertilizer including cost of application - vermicompot 1kg. Bio fertilizers 100gms, VAM 100gms	NHAI ME	10.00	1 Each	18000
5	1980	Nos.	Transporting saplings (Transported to the radius of 40 kms) excluding loading and unloading	NHAI ME	10.00	1 Each	19800
6	1980	Nos.	Loading and unloading the polythene container seedlings in private / department vehicles (excluding hire charges)	5.11.7	1565.22	1000 Nos.	3099
7	1980	Nos.	Distribution of saplings from where seedlings are stocked to the planting spot upto 100mts	5.15.1	4757.50	1000 Nos.	9420
8	1980	Nos.	Planting the container seedlings by refilling the pits of size 60cm	5.22	813.53	100 Nos.	16108
9	1800	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.	10533
10	180	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.	4770



Sl. No.	Qty	Unit	Description of works	FSR No.	Rate	Per/Qty	Amount
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
11	900	15 days	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	32113
12	270000	Litters	Cost of water @ 20- liters per seedlings January to March - 3 months 15 watering days) at the rate once in 6 days - 20x900x15 = 270000 litters	NHAI ME	1200.00	12000 Lit.	27000
13	1	maz.	Engaging Protection mazdoor @ 1 mazdoor/500 plants (road avenue alone) from Oct to Mar-14 Nos/175 days	FSL Wages Rate	475.75	1 maz.	83256
14	LS.		Contingencies and unforeseen items if any	-	-	-	8759
			<b>TOTAL</b>				<b>310000</b>
			<b>10% Escalation cost</b>				<b>31000</b>
			<b>Grand Total</b>				<b>341000</b>
			<b>Cost per seedling</b>				<b>189.44</b>

  
 District Forest Officer,  
 Tiruvannamalai Division,  
 Tiruvannamalai

7/7/22  


**MODEL ESTIMATE FOR 1ST YEAR MAINTENANCE OF COMPENSATORY AFFORESTATION PLANTING OVER AN AREA OF 1.80 HA. IN PINJUR C-BLOCK RF OF CHENGAM RANGE OF TIRUVANNAMALAI FOREST DIVISION UNDER CAMPA SCHEME DURING 2023-24.**

No.of seedlings : 180

Species : Miscellaneous


Wage

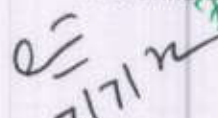
Rate Rs.: 475.75

Sl. No.	Qty	Unit	Description of works	FSR No.	Rate	Per/Qty	Amount
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			<b>Nursery Operation</b>				
1	180	Nos.	Raising cost of seedlings (as per Nursery Estimate)	As per Nurser Estimate	250.00	1 No	45000
			<b>Planting Operations</b>				
2	90.00	Kgs	Cost & Transport of Poultry manure each plants 500 gms 100 plants (10% casuality)	Lower Quotation	2000	1000 kg	180
3	180	Nos.	Application of poultry manure @ 500 gms pr plant by mixing in the pit before planting - 1 mazdoor for 250 Nos.	FSL Wage Rate	475.75	200 Nos.	428
4	180	Nos.	Cost of Bio fertilizer including cost of application - vemicompot - 1 kg, Bio fertilizers - 100 gms, VAM - 100 gms	LS	10.00	1 Nos.	1800
5	180	Nos.	Transporting saplings (transported to the radius of 40 kms) excluding loading and unloading	LS	10.00	1 Nos.	1800
6	180	Nos.	Loading and unloading the polythene container seedlings in private / department vehicles (excluding hire charges)	5.11.7	1565.22	1000 Nos.	282
7	180	Nos.	Distribution of saplings from where seedlings are stocked to the planting spot upto 100 mts	5.15.1	4757.50	1000 Nos.	856
8	180	Nos.	Replacement of casualities by re-opening the failed pits and planting the container plants and refiling the pits (1/2 pitting rate + full planting rate)	5.23	2649.93	1000 Nos.	477



Sl. No.	Qty	Unit	Description of works	FSR No.	Rate	Per/Qty	Amount
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
9	1800	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.	10533
10	1	Nos.	Engaging protection mazdoor @ 1 mazdoor / 500 plants (for Road Avenue) from April to March @ 25 days / month - 300 days	FSL Wage Rate	475.75	1 Nos.	142725
11	LS.		Contingencies and unforeseen items if any	LS	-	-	9
			<b>TOTAL</b>				<b>204090</b>
			<b>10% Escalation cost</b>				<b>20409</b>
			<b>Grand Total</b>				<b>224499</b>
						or	<b>224500</b>

  
 District Forest Officer,  
 Tiruvannamalai Division,  
 Tiruvannamalai.

  
 7/7/22

**MODEL ESTIMATE FOR 2ND YEAR MAINTENANCE OF COMPENSATORY AFFORESTATION PLANTING OVER AN AREA OF 1.80 HA. IN PINJUR C-BLOCK RF OF CHENGAM RANGE OF TIRUVANNAMALAI FOREST DIVISION UNDER CAMPA SCHEME DURING 2024-25.**

Total Area in ha : 1.80

No.of seedings per ha : 1000/ha

No.of seedings planted : 1800

Survival 98% : 1764

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	1764	Nos.	Application of poultry manure @ 500 gms per plant by mixing in the pit before planting including cost & transport	LR	3.00	1	No.	5292
2	1764	Nos.	Application of DAP mixture @ 20 gms per plant by mixing in the pit before planting including cost & Transport	LR	1.20	1	No.	2117
3	1764	Nos.	Scraping for 1 m dia and soil working 15cm depth around each plants and removing the grass roots away from the site of upturning the soil	5.24	585.17	100	Nos.	10322
4	6	kms	Fireline creation (around 3 m width) work around CA Land	2.4	8306.60	1	Nos.	49840
5	1	Nos.	Engaging Fire Protection Watcher in CA Land 3 months	Wage Rate	475.75	1	Maz	35681
6			Contingencies					2748
			<b>Cost for 2nd year maintenance</b>					<b>106000</b>
			<b>Add Escalation cost 20%</b>					<b>21200</b>
			<b>Total Cost for 2nd year maintenance</b>					<b>127200</b>

*[Signature]*  
District Forest Officer,  
Tiruvannamalai Division,  
Tiruvannamalai.

7/7/22



**MODEL ESTIMATE FOR 3RD YEAR MAINTENANCE OF COMPENSATORY AFFORESTATION PLANTING OVER AN AREA OF 1.80 HA. IN PINJUR C-BLOCK RF OF CHENGAM RANGE OF TIRUVANNAMALAI FOREST DIVISION UNDER CAMPA SCHEME DURING 2025-26.**

Total Area in ha : 1.80

No. of seedlings per ha : 1000/ha

No. of seedlings planted : 1800

Survival 95% : 1710

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	1710	Nos.	Application of poultry manure @ 250 gms per plant by mixing in the pit before planting including cost & transport	LR	3.00	1	No.	5130
2	1710	Nos.	Application of DAP mixture @ 20 gms per plant by mixing in the pit before planting including cost & Transport	LR	1.20	1	No.	2052
3	1710	Nos.	Scraping for 1 m dia and soil working 15cm depth around each palnts and removing the grass roots away from the site of upturning the soil	5.24	585.17	100	Nos.	10006
4	6	kms	Fireline creation (around 3 m width) work aruond CA Land	2.4	8306.60	1	Nos.	49840
5	1	Nos.	Engaging Fire Protection Watcher in CA Land 3 months	Wage Rate	475.75	1	Maz	35681
6			Contingencies					2291
			<b>Cost for 3rd year maintenance</b>					<b>105000</b>
			<b>Add Escalation cost 30%</b>					<b>31500</b>
			<b>Total Cost for 3rd year maintenance</b>					<b>136500</b>

Add 10% escalation  
Cost for 4th year maintenance 13650  
150150

Add 10% escalation  
Cost for 5th year maintenance 15015  
165165

Add 10% escalation  
Cost for 6th year maintenance 16517  
181682

Add 10% escalation  
Cost for 7th year maintenance 18168  
199850

Add 10% escalation  
Cost for 8th year maintenance


19985  
219835

Add 10% escalation  
Cost for 9th year maintenance

21984  
241819

Add 10% escalation  
Cost for 10th year maintenance

24182  
266001

  
District Forest Officer,  
Tiruvannamalai Division,  
Tiruvannamalai.

02  
7/8/24



**ABSTRACT PROPOSAL FOR RAISING SEEDLINGS, PLANTING AND MAINTENANCE FOR 10 YEARS OVER AN AREA OF 1.80 HA. IN PINJUR C-BLOCK RF OF CHENGAM RANGE OF TIRUVANNAMALAI FOREST DIVISION UNDER CAMPA SCHEME**

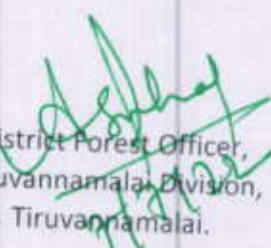
Sl. No.	Description of Work	Proposed Estimate Cost	Remarks
1	2	3	4
1	Raising Nursery Operation	495000	--
2	Planting Operation	341000	--
3	1st Year Maintenance	224500	10% weightage towards escalation of labour wage rate during 2023-24 from 1st year maintenance
4	2nd Year Maintenance	127200	20% weightage towards escalation of labour wage rate during 2024-25 from 2nd year maintenance
5	3rd Year Maintenance	136500	30% weightage towards escalation of labour wage rate during 2025-26 from 3rd year maintenance
6	4th Year Maintenance	150150	40% weightage towards escalation of labour wage rate during 2026-27 from 4th year maintenance
7	5th Year Maintenance	165165	50% weightage towards escalation of labour wage rate during 2027-28 from 5th year maintenance
8	6th Year Maintenance	181682	60% weightage towards escalation of labour wage rate during 2028-29 from 6th year maintenance
9	7th Year Maintenance	199850	70% weightage towards escalation of labour wage rate during 2029-30 from 7th year maintenance
10	8th Year Maintenance	219835	80% weightage towards escalation of labour wage rate during 2030-31 from 8th year maintenance
11	9th Year Maintenance	241819	90% weightage towards escalation of labour wage rate during 2031-32 from 9th year maintenance
12	10th Year Maintenance	266001	90% weightage towards escalation of labour wage rate during 2032-33 from 10th year maintenance
	<b>Total</b>	<b>2748702</b>	

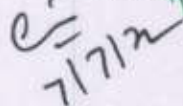
District Forest Officer,  
Tiruvannamalai Forest Division,  
Tiruvannamalai.

7/7/22

**WORK SCHEDULE FOR COMPENSATORY AFFORESTATION PLANTING OVER AN AREA OF 1.80  
HA. IN PINJUR C-BLOCK RF OF CHENGAM RANGE OF TIRUVANNAMALAI FOREST DIVISION  
UNDER CAMPA SCHEME**

Sl. No.	Description of Work	Period of Work
1	Raising Nursery	June 2022 to November-2022
2	Planting Operation	December-2022 to January-2023
3	1st Year Maintenance	April-2023 to March-2024
4	2nd Year Maintenance	April-2024 to March-2025
5	3rd Year Maintenance	April-2025 to March-2026
6	4th Year Maintenance	April-2026 to March-2027
7	5th Year Maintenance	April-2027 to March-2028
8	6th Year Maintenance	April-2028 to March-2029
9	7th Year Maintenance	April-2030 to March-2031
10	8th Year Maintenance	April-2031 to March-2032
11	9th Year Maintenance	April-2032to March-2033
12	10th Year Maintenance	April-2033 to March-2034


  
 District Forest Officer,  
 Tiruvannamalai Division,  
 Tiruvannamalai.

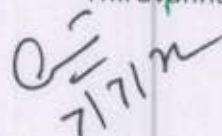
  
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The Compensatory Amount to be collected from the User Agency is furnished below.

Sl. No.	Work Description	Area in ha	Pro-rata per Ha. in Rs.	Amount in Rs.
1	(a) Afforestation cost	For raising 1980 saplings (1800 + 180 casualties) @ 1000/ ha. to an extent of 1.80 Ha. (Total extent 1.80 ha) degraded forest area identified for raising plantations.	464444	836000
	Raising Nursery in 13x45 cm poly bags and planting works.			
2	1 <sup>st</sup> year maintenance	1.80	124722.22	224500
3	2 <sup>nd</sup> year maintenance	1.80	70666.67	127200
4	3 <sup>rd</sup> year maintenance	1.80	75833.33	136500
5	4 <sup>th</sup> year maintenance	1.80	83416.67	150150
6	5 <sup>th</sup> year maintenance	1.80	91758.33	165165
7	6 <sup>th</sup> year maintenance	1.80	100934.44	181682
8	7 <sup>th</sup> year maintenance	1.80	111027.78	199850
9	8 <sup>th</sup> year maintenance	1.80	122130.56	219835
10	9 <sup>th</sup> year maintenance	1.80	134343.89	241819
11	10 <sup>th</sup> year maintenance	1.80	147778.33	266001
	<b>Total</b>			<b>2748702</b>

  
District Forest Officer,  
Thiruvannamalai Division,  
Thiruvannamalai.

  
7/7/22