

DETAILS OF COMPENSATORY AFFORESTATION WORKS TO BE CARRIED BY USER AGENCY DIRECTLY.

Sl. No	Details	Physcial Tatget	Unit Cost		Amount	Remarks
1	Planting dwarf species below the transmission line in the diverted forest area.					
a.	Raising dwarf species 4270 Seedlings	4270	31	/ 1No	132370	
b.	Planting dwarf species 4697 Seedlings	4697	102	/ 1No	479094	The User Agency will be entrusted with raising of Dwarf species preferably medicinal plants @ 1000 seedlings per ha under the transmission line with maintenance of plantation over five years period under the guidance of Forest Department.
b.	Maintenance	4270				
	1 st year		29.16	/ 1No	124513	
	2 nd year		29.28	/ 1No	125026	
	3 rd year		36.6	/ 1No	156282	
	4 th year		12.24	/ 1No	52265	
	5 th year		13.46	/ 1No	57474	
			Grand Total		1127024	

Rs.1127024/- (Rupees Eleven Lakhs twenty seven thousand and twenty four only)


 District Forest Office, 19/06/23
 Chengalattu Division,
 kancheepuram
 19/6/2023

Model Estimate for Raising Nursery (Dwarf Seedlings)

Size of bags :16x30cm

No of Seedlings : 1000 Nos

10% Casualty : 100 Nos

Total No. of seedlings :1100 Nos.

Period of Nursery : 7 months

Wages Rate : Rs.612.45

Sl. No	Qty		Details of Work	FSR / SSR Item No	FSL	Rate	Per	Amount
NURSERY OPERATIONS FOR 16 X 30 BAGS								
1	1100	Nos	Cost of polybags	Tender Rate 2019-20	2.42	1670.00	1000 No	1837
2	2	Kg	Cost of Seeds	LR		200	1	400
3	10	M ²	Preparation of Nursery site by Clearing and levelling the site for forming standard bed of size 10mx1m	4.1 FSR 2023-24		1482.13	200	74
4	3	M ³	Formation of germination beds of size 10x1x3M by breaking clods with farm yard manure and the earth with side support sowing of seeds watering for the day and covering with straw. including cost of manure @ 2500Nos / bed	PWD SSR	PWD SSR 2023-24	111.70	1	335
5	1	Bed/ 15 Days	Watering the Germination Beds twice daily with rose can (15days)	4.5.1 FSR 2023-24	0.82	502.21	10 Beds/ day	753
6	1	Bed/ 15 Days	Watering the germination beds once daily with rose can (15days)	4.5.2 FSR 2023-24	0.41	251.10	10 Beds/ day	377
7	1.96	Cu.m	Collection and supply of sand, silt and red soil according to the requirement for preparation of soil mixture -4/5th of the total volume	MTP ME		750	Cu.m	1470

Sl. No	Qty		Details of Work	FSR / SSR Item No	FSL	Rate	Per	Amount
8	0.48	Cu.m	Collection and supply of farm yard manure filling bags 1/5th of total volume	MTP ME		750	Cu.m	360
9	1100	Nos	Preparation of soil mixture by breaking clods, seiving, mixing fertile earth (including redsoil, silt and sand according to requiements) and farmyard manure in the reation of 3.1.heaping at the filling site and filling in poly bags arranging bags in beds and pricking out the seedlings	4.6.5 FSR 2023-24	5.95	3644.08	1000	4008
10	35	kg	Cost of Vermicasting @ 35gm / container	MTP ME		10.00	each	350
11	15	Kg	Cost of Vam@15gm/container			18.00	each	270
12	6	Kg	Cost of Azospirillum @ 6gm/. container			27.00	each	162
13	6	Kg	Cost of phosphobacteria @ 6gm/ container			27.00	each	162
14			Watering the container plants with rose can watering regime approved PCCF's Ref.No.J1/57395/2003, dt:12.12.2003					
a	1100	Nos	Watering the container plants twice daily with rose can (10days)	4.10.5 FSR 2023-24	0.37	226.61	1000 / day	2493
b	1100	Nos	Watering the container plants once daily with rose can (30days)	4.11.5 FSR 2023-24	0.185	113.30	1000 / day	3739
15	1100	Nos	Watering the container plants alternate days with rose can (70days)	4.11.5 FSR 2023-24	0.185	113.30	1000 / day	8724

Sl. No	Qty		Details of Work	FSR / SSR Item No	FSL	Rate	Per	Amount
16	1100	Nos	Cost of water for watering the container seedlings from private wells - 110 days	4.18 FSR 2010-11		1.60	1000 / day	194
17	1100/60	Sqm	Land rent for nursery in private lands for 7 months	4.17 FSR 2010-11		86.00	40 sqm	903
18	1100	Nos	Shifting the container plants weeding grading and replacement of casualties in the bags -shifting to done once in 21dyas, 1 shifting not before 45days after pricking out - 8 shifts	4.15.5 FSR 2023-24	0.79	483.84	1000 / shifts	4258
19	LS		Contingencies for application of pesticides and panchakaviya etc., and unforeseen items if any					131
TOTAL								31000

Rate calculated for 2023-24

31000

Rs.31/- per seedling

District Forest Officer,
Chengalpattu Division,
Kancheepuram.

19/06/23

Model Estimate for Planting

Size of bags : 16x30cm

No of Seedlings : 1000

Wages Rate : Rs.612.45

Sl. No	Qty		Details of Work	FSR / SSR Item No	FSL	Rate	Per	Amount
1	1000	Nos	Digging of 45cm ³ pits in hard gravelly soil in plains during rainy season	5.5.2 FSR 2023-24	3.92	2400.80	100	24008
2	1100	Nos	Loading & Unloading the Container Seedlings (16x30cm) in private Lorry upto a lead of 2 Kms excluding hire charges for the vehicles)	5.11.5 FSR 2023-24	1.79	1096.29	1000	1206
3	1100	Nos	Transport of container seedlings (16x30cm) in private vehicles upto a lead of 10 kms excluding loading and unloading charges @ 2000 Loads	LR		1500	2000	825
4			Transporting of container seedlings (16x30cm) by head load in the places where approach roads are not available to take vehicles to planting site upto 500mts					
a	1100	Nos	in plains	5.13.2 FSR 2023-24	5.22	3196.99	1000	3517
5			Distribution of saplings from where seedlings are stocked to the planting spot upto 100mts.					
a	440	Nos	upto 100m	5.15.1 FSR 2023-24	3.13	1916.97	1000	843
b	440	Nos	upto 200m	5.15.2	4.66	2854.02	1000	1256
c	220	Nos	upto 500m	5.15.3	8.22	5034.34	1000	1108

6	1100	Nos	Application of poultry manure @ 250g per plant by mixing in the pit before planting including cost and transport	LR		1.25	1	1375
7	1100	Nos	Application of DAP mixture @ 20g.per plant by mixing in the pit before planting including cost and transport	LR		0.50	1	550
8	1100	Nos	Planting the Container plants by refilling pits of size 45cm	5.21 FSR 2023-24	1.15	704.32	100	7748
9	100	Nos	Replacement of casualties by reopening the failed pits and planting the container plants and refilling the pits (1/2 pitting rate + full planting rate)	5.23	3.11	12727	100	12727
10	1000	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	753.31	100	7533
	500	Nos	Forming semi circular bunds to the plants in hillocks sloppy and undulating areas by collecting stone and earth from the area, forming a revetment on the lower side with stone and earth heaped and giving an inward slope.	5.25	6.84	1763.86	100	8819
11	500	Nos	Forming catchwater drains for each plant of 90x45x30cm size in hillocks and hard gravelly soil	5.26	6.84	4189.16	100	20946
13			Contingencies					540
TOTAL								93000

Rate calculated for 2023-24

93000

Coat of seedlings for 2023-24

93

Add annual 10% escalation for subsequent years

9

cost of seedlings for 2024-25

102 per seedlings

Ramkumar
District Forest Officer,
Chengalpattu Division,
Kancheepuram.

19/6/2022

Model Estimate for 1st Year Maintenance

Size of bags :16x30cm

Replacement of Casualties : 10%

Wages Rate 612.45

SI. No	Qty		Details of Work	FSR / SSR Item No	FSL	Rate	Per	Amount
1	100	Nos	Cost of seedlings	ME 19-20		25.00	1	2500
2	100	Nos	Loading & Unloading the Container Seedlings (16x30cm) in private Lorry upto a lead of 2 Kms excluding hire charges for the vehicles)	5.11.5 FSR 2023-24	1.79	1096.29	1000	110
3	100	Nos	Transport of container seedlings (16x30cm) in private vehicles upto a lead of 10 kms excluding loading and unloading charges @ 2000 Loads	LR		1500	2000	75
4			Transporting of container seedlings (16x30cm) by head load in the places where approach roads are not available to take vehicles to planting site upto 500mts					
a	100	Nos	in plains	5.13.2	5.22	3196.99	1000	320
5			Distribution of saplings from where seedlings are stocked to the planting spot upto 100mts.					
a	75	Nos	upto 100m	5.15.1	3.13	1916.97	1000	144
b	75	Nos	upto 200m	5.15.2	4.66	2854.02	1000	214
c	50	Nos	upto 500m	5.15.3	8.22	5034.34	1000	252
6	100	Nos	Application of poultry manure @ 250g per plant by mixing in the pit before planting including cost and transport	LR		1.25	1	125

Sl. No	Qty		Details of Work	FSR / SSR Item No	FSL	Rate	Per	Amount
7	100	Nos	Application of DAP mixture @ 20g.per plant by mixing in the pit before planting including cost and transport	LR		0.50	1	50
8	100	Nos	Replacement of casualties by reopening the failed pits and planting the container plants and refilling the pits (1/2 pitting rate + full planting rate)	5.23	3.11	12727	100	12727
9	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	753.31	100	7533
10	LS		Contingencies for application of pesticides and panchakaviya etc., and unforeseen items if any					51
TOTAL								24100

Rate calculated for 2023-24 24100

Cost of seedlings for 2023-24 **24.10 per seedling**

Add 10 % escalation for 2024-25 2.41

Cost of seedlings for 2024-25 26.51 per seedling

Add 10 % escalation for 2025-26 2.65

Cost of seedlings for 2025-26 29.16 per seedling

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District Forest Officer,

Chengalpattu Division,

Kancheepuram

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Model Estimate for 2nd Year Maintenance

Size of bags : 16x30cm

Replacement of Casualties : 10%

Wages Rate : Rs.612.45

Sl. No	Qty		Details of Work	FSR / SSR Item No	FSL	Rate	Per	Amount
1	100	Nos	Cost of seedlings	ME 17-18		25.00	1	2500
2	100	Nos	Loading & Unloading the Container Seedlings (30x45cm) in private Lorry upto a lead of 2 Kms excluding hire charges for the vehicles)	5.11.5	1.79	483.84	1000	48
3	100	Nos	Transport of container seedlings (16x30cm) in private vehicles upto a lead of 10 kms excluding loading and unloading charges @ 2000 Loads	LR		1500	2000	75
4			Transporting of container seedlings (16x30cm) by head load in the places where approach roads are not available to take vehicles to planting site upto 500mts					
a	100	Nos	in plains	5.13.2	5.22	3196.99	1000	320
5			Distribution of saplings from where seedlings are stocked to the planting spot upto 100mts.					
a	65	Nos	upto 100m	5.15.1	3.13	1916.97	1000	125
b	65	Nos	upto 200m	5.15.2	4.66	2854.02	1000	186
c	20	Nos	upto 500m	5.15.3	8.22	5034.34	1000	101
6	100	Nos	Application of poultry manure @ 250g per plant by mixing in the pit before planting including cost and transport	LR		1.25	1	125

Sl. No	Qty		Details of Work	FSR / SSR Item No	FSL	Rate	Per	Amount
7	100	Nos	Application of DAP mixture @ 20g.per plant by mixing in the pit before planting including cost and transport	LR		0.50	1	50
8	100	Nos	Replacement of casualties by reopening the failed pits and planting the container plants and refilling the pits (1/2 pitting rate + full planting rate)	5.23	3.11	12726.7	100	12727
9	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	558.60	100	5586
10	LS		Contingencies for application of pesticides and panchakaviya etc., and unforeseen items if any					158
TOTAL								22000

Rate calculated for 2023-24 22000

Cost of seedlings for 2023-24 22.00 per seedling

Add 10 % escalation for 2024-25 2.20


Cost of seedlings for 2024-25 24.20 per seedling

Add 10 % escalation for 2025-26 2.42

Cost of seedlings for 2025-26 26.62 per seedling

Add 10 % escalation for 2026-27 2.66

Cost of seedlings for 2026-27 29.28 per seedling


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Model Estimate for 3rd Year Maintenance

Size of bags : 16x30cm


Replacement of Casualties : 10%


Wages Rate : Rs.612.45

Sl. No	Qty		Details of Work	FSR / SSR Item No	FSL	Rate	Per	Amount
1	100	Nos	Cost of seedlings	ME 17-18		25.00	1	2500
2	100	Nos	Loading & Unloading the Container Seedlings (30x45cm) in private Lorry upto a lead of 2 Kms excluding hire charges for the vehicles)	5.11.5	1.79	1096.29	1000	110
3	100	Nos	Transport of container seedlings (16x30cm) in private vehicles upto a lead of 10 kms excluding loading and unloading charges @ 2000 Loads	LR		1500	2000	75
4			Transporting of container seedlings (16x30cm) by head load in the places where approach roads are not available to take vehicles to planting site upto 500mts					
a	100	Nos	in plains	5.13.2	5.22	3196.99	1000	320
5			Distribution of saplings from where seedlings are stocked to the planting spot upto 100mts.					
a	65	Nos	upto 100m	5.15.1	3.13	1916.97	1000	125
b	65	Nos	upto 200m	5.15.2	4.66	2854.02	1000	186
c	20	Nos	upto 500m	5.15.3	8.22	5034.34	1000	101
6	100	Nos	Application of poultry manure @ 250g per plant by mixing in the pit before planting including cost and transport	LR		1.25	1	125

Sl. No	Qty		Details of Work	FSR / SSR Item No	FSL	Rate	Per	Amount
7	100	Nos	Application of DAP mixture @ 20g.per plant by mixing in the pit before planting including cost and transport	LR		0.50	1	50
8	100	Nos	Replacement of casualties by reopening the failed pits and planting the container plants and refilling the pits (1/2 pitting rate + full planting rate)	5.23	3.11	12726.7	100	12727
9	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	772.99	100	7730
10	LS		Contingencies for application of pesticides and panchakaviya etc., and unforeseen items if any					953
TOTAL								25000

Rate calculated for 2023-24 25000
Cost of seedlings for 2023-24 25.00 per seedling
 Add 10 % escalation for 2024-25 2.50
Cost of seedlings for 2024-25 27.50 per seedling
 Add 10 % escalation for 2025-26 2.75
Cost of seedlings for 2025-26 30.25 per seedling
 Add 10 % escalation for 2026-27 3.02
Cost of seedlings for 2026-27 33.27 per seedling
 Add 10 % escalation for 2027-28 3.33
Cost of seedlings for 2027-28 36.60 per seedling


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Model Estimate for 4th Year Maintenance

Size of bags : 16x30cm

Wages Rate : Rs.612.45

Sl. No	Qty		Details of Work	FSR / SSR Item No	FSL	Rate	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 FSR 2023-24	0	753.31	100 Nos	7533
2	LS		Contingencies for application of pesticides etc. and unforeseen items if any					67
TOTAL								7600

Rate calculated for 2023-24	7600
Cost of seedlings for 2023-24	7.60 per seedling
Add 10 % escalation for 2024-25	0.76
Cost of seedlings for 2024-25	8.36 per seedling
Add 10 % escalation for 2025-26	0.84
Cost of seedlings for 2025-26	9.20 per seedling
Add 10 % escalation for 2026-27	0.92
Cost of seedlings for 2026-27	10.12 per seedling
Add 10 % escalation for 2027-28	1.01
Cost of seedlings for 2027-28	11.13 per seedling
Add 10 % escalation for 2028-29	1.11
Cost of seedlings for 2028-29	12.24 per seedling


District Forest Officer
Chengalpattu Division,
Kancheepuram


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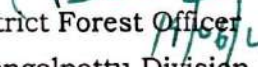
Model Estimate for 5th Year Maintenance

Size of bags :16x30cm

Wages Rate : Rs.612.45

Sl. No	Qty		Details of Work	FSR / SSR Item No	FSL	Rate	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 FSR 2023-24	0	753.31	100 Nos	7533
2	LS		Contingencies for application of pesticides etc. and unforeseen items if any					67
TOTAL								7600

Rate calculated for 2023-24	7600
Cost of seedlings for 2023-24	7.60 per seedling
Add 10 % escalation for 2024-25	0.76
Cost of seedlings for 2024-25	8.36 per seedling
Add 10 % escalation for 2025-26	0.84
Cost of seedlings for 2025-26	9.20 per seedling
Add 10 % escalation for 2026-27	0.92
Cost of seedlings for 2026-27	10.12 per seedling
Add 10 % escalation for 2027-28	1.01
Cost of seedlings for 2027-28	11.13 per seedling
Add 10 % escalation for 2028-29	1.11
Cost of seedlings for 2028-29	12.24 per seedling
Add 10 % escalation for 2029-30	1.22
Cost of seedlings for 2029-30	13.46 per seedling


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 Kancheepuram


 19/6/2023