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Abstract Estimate for Raising Compnsation Afforestation Over and Area of 0.51 Ha of degraded forest area of Avanam RF in Pattukkottai Range, Thanjavur Division During 2023-24 under state CAMPA SCHEME.

No.of seedlings : 100
For 10% casualty Replacement : 10
Total : 110



Sl.No	Description of Work	Proposed estimate cost in RS	Remarks
1	2	3	4
1	Raising nursery -110 Nos	19175	Gap Plantation in Avanam RF
2	Planting Operation - 100 Seedling	56946	10% Weightage towards escalation of labor wage rate during 2024 -25
3	1st Year Maintenance	29954	20% Weightage towards escalation of labor wage rate during 2025 -26
4	2nd Year Maintenance	22808	30% Weightage towards escalation of labor wage rate during 2026 -27
5	3rd Year Maintenance	24563	40% Weightage towards escalation of labor wage rate during 2027 -28
6	4th Year Maintenance	2382	50% Weightage towards escalation of labor wage rate during 2028 -29
7	5th Year Maintenance	2620	60% Weightage towards escalation of labor wage rate during 2029 -30
8	6th Year Maintenance	2882	70% Weightage towards escalation of labor wage rate during 2030 -31
9	7th Year Maintenance	3170	80% Weightage towards escalation of labor wage rate during 2031-32
10	8th Year Maintenance	3487	90% Weightage towards escalation of labor wage rate during 2032 -33
11	9th Year Maintenance	3804	100% Weightage towards escalation of labor wage rate during 2033 -34
12	10th Year Maintenance	4184	110% Weightage towards escalation of labor wage rate during 2034 -35
Total		175975	

(Rupees One Laksh Seventy five Thousand Nine Hundred and seventy Five only)

Sir,
Submitted in favour of early sanction.

Handwritten signature and date: 13/06/2023
வனச்சரக அலுவலர்
பட்டுக்கோட்டை வனச்சரகம்
பட்டுக்கோட்டை

மா.வட்ட வன அலுவலர்
தஞ்சாவூர் வனக்கோட்டம்
தஞ்சாவூர்.

Estimate For Raising of Nursery for Native Tree species for Compnsation Afforestation Over and Area of Ha of degraded forest area of Avanam RF in Pattukkottai Range,Thanjavur Division During 2023-24 under state CAMPA SCHEME.

Total area	:	
Total No.of Seedlings Raised	:	100
10% Replacement of casualties	:	10
Total	:	110
Size of polythene bags	:	13x25 cm x
Transplanting Size of Polybags	:	30x45 cmx
Proposed espacement	:	Gap Plantation
Species	:	Miscellaneous
Mazdoor rate for 2023-24 per day	:	Rs.612.45

Sl. No	QTY	Unit	Description Operation	FSR / SSR No.	Fsl	Rate (Rs)	Per	Amount (Rs)
PART-I Small size bags -13x25 cm								
1	12.1	M ²	Preparation of Nursery site by clearing and leveling the site for forming standard beds.of size 10m x1 (110M2/1000 Nos)	4.1	2.42	1482.13	200 No	90
2	1.00	Kg	Cost of seeds (2kgs /1000 Nos)	LR		500.00	1	500
3	110	Nos	Cost of 13x25cmx250G polythene bags	ender rate		944	1000 No	103
4	3	Cum	Forming of germination beds of size 10mx1mx0.3m by heaping the soil-2500 No per bed	PWD SSR item 62		73.1	1 cum	219
5	1	Bed	watering the germination beds twice daily with rose can 15 days	4.5.1	0.82	502.21	10 Beds /day	754
6	1	Bed	watering the germination beds once daily with rose can 15 days	4.5.2	0.41	251.1	10 Beds /day	377
7	0.0924	cu.m	collection & supply of sand , still and red soil according to the requirement for preparation of soil mixure -3/4th of the total volume (0.84 m3/1000 Nos)	LR		750	1 cu.m	69

8	0.0308	cu.m	cost and transport of farm yard manure for filling bags -1/4 th of the total volume(0.28 m3/1000 Nos)	LR		750	1	cu.m	23
9	110	Nos	preparation of soil mixture by breaking clods sieving and mixing of fertile earth(including red soil silt sand etc according to requirements) and farmyard manure at 3:1 ratio heaping at the filling site and filling in polythene bags arranging bags in bays and pricking - out of the seedlings(excluding cost of	4.6.4	4.48	2743.78	1000	Nos	302
10	2.75	kgs	Cost of vermicasting 25 gram per seedlings	As per Research Division		10.00	1.00	kg	27
11	1.1	kgs	Cost of VAM 10 gm/container			18.00	1.00	kg	20
12	0.55	kg	Cost of Azospirillum 5gm gram per seedlings	As per Research Division		27.00	1.00	kg	15
13	0.55	kg	Cost of phosphobacteria 5gm gram per seedlings			27.00	1.00	kg	15
14			Watering the container plants with rose cans						
a	110	Nos	Twice daily - 15 days	4.10.4	0.23	140.86	1000	Day	232
b	110	Nos	Once daily - 30 days	4.11.4	0.115	70.43			232
c	110	Nos	Alternate days spread over 30 days (Effective days - 15)		0.115	70.43			232
15	110	Nos	Cost of water for watering the container seedlings -60 watering days	4.18-FSR 1998-99		0.85	1000	DAYS	6
16	110	Nos	Shifting the container plants weeding grading and replacement of casualties in the bags - shifting to done once in 21 days (shifting not before 45 days after pricking out.	4.15.4	0.51	312.35	1000	SHIFT	69
SUB - Total(A)									3285
PART-II - Bigger size bags :30x 45cmx 600g.									
17	110	Nos	Cost of 30x45 cmx 600 G polythene bags	Tender rate		9263	1000	No	1019
18	1.01	M3	Collection and supply of sand, silt and red soil according to the requirement for preparation of soil mixture -4/5 th of the total volume of (earth in 35x25cm containers) (@9.23 cu.m/1000 Nos)	LR		750	1	M3	757

19	0.25	M3	Cost and transport of farmyard manure for filling bags -1/5th of the total volume (@2.31cu.m/1000 Nos)			750	1	M3	187
20	110	Nos	Preparation of soil mixture by breaking clods sieving and mixing of fertile earth(including red soil silt sand etc according to requirements) and farmyard manure at 4:1 heaping at the filling site and filling in polythene bags arranging bags in beds and pricking - out of the seedlings (excluding cost of soil mixture and FYM)	4.67	28.57	17497.7	1000	Nos	1534
21	4	kgs	Cost of vermicasting@ 35gram per seedlings	As per Research Division Rate		10	1	kg	40
22	2	kgs	Cost of VAM@ 15gram per seedlings			18	1	kg	36
23	1	kgs	Cost of Azospirillum 6gm per seedlings	As per Research Division Rate		27	1	kg	27
24	1	kgs	Cost of phosphobacteria 6gm gram per seedlings			27	1	kg	27
25	1.1	1azdoo	Labour cost transplanting seedlings from 13x25m containers bags in to 30x45cm containers -10Maz /1000	As per ME OF MTP		612.45	1	Nos	674
26	110	Nos	Cost of verticalstrick (casurina poles 5 cm -8 cm girth and 2.50 m height for each plants)	PWD SSR		17.5	1	RM	1925
27	55	Nos	Cost of horizontal strick (casurina poles 5 cm -8 cm girth and 1.00 m height for each plants)	PWD SSR		17.5	1	RM	962
28	110	Nos	Tying plants to the vertical stick once in a month -2 times	ME		0.4	1	Each/time	88
29	110	Nos	Pruning side lanches once in 2 months -2 time	ME		1			110
30			Watering the container plants with rose cans						
a	110	Nos	Twice daily - 15 days	4.10.7	0.56	342.97	1000	Day	566
b	110	Nos	Once daily - 30 days	4.11.7	0.28	171.49	1000	Shift	566
c	110	Nos	Once in alternate days - spread over 60 days (Effective days -30 days)	4.11.7	0.28	171.49	1000	Shift	566

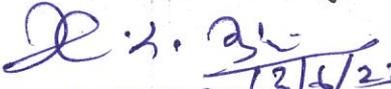
	110	Nos	Twice in a week spread over 105 days (Effective days -30 days)	4.117	0.28	171.49	1000	Shift	566
31	110	Nos	Shifting the container plants weeding grading and replacement of causalities in the bags - shifting to done once in 21 days shifting not before 45 days after	4.15.7	2.69	1647.49	1000	Shift	1268
32	110	Nos	Cost of water watering the container seedlings -105 watering days	4.18-FSR 1998-99		1.6	1000	Day	18
33	1	Nos	Engaging Nursey protection mazdoors 1 No/100000 Nos of 30 x 45 bags - 300 days. (90+ 210 d)	4.18-FSR 1998-99		1.6	1000	Day	202
34	1	Nos	GST 18% (ITEM No 3 , 7)						202
35	5	Mont hs	Provision for cost of pesticides and fungicides and labour charges for application of pesticides - 2 times/ month	LR		200	1	TIMES	2000
36	LS		Photo & Documentation etc.,			LS			2000
37	LS		Contingencies unforeseen items			LS			550
Sub total (B)									15890
Total (A+B)									19175

Raising cost of seedling = 19175
Cost of 1 seedling = Rs 174

Per seedling Rs 174.

Specification: Submitted to District forest officer Thanjavur for favour of early sanction.

This estimate is prepared based on Govt Ltr No F.No 11-423/2011-Fc dt 08-11-2017, Compensatory afforestation, NHA/ MTP model estimate, FSR, PWDSS and the local rates as per model estimate and research wing rate. Hence this estimate may be approved.


12/1/21
வனசரக அலுவலர்
பட்டுக்கோட்டை வனசரகம்
பட்டுக்கோட்டை


மாவட்ட வன அலுவலர்
தஞ்சாவூர் வனக்கோட்டம்
தஞ்சாவூர்.

Estimate For Planting of Native Tree species for Compnsation Afforestation Over and Area of Ha of degraded forest area of Avanam RF in Pattukkottai Range,Thanjavur Division During 2023-24 under state CAMPA SCHEME.

No. of seedlings = 100

Size of poly bag = 30 x 45 x 600g

10% casuality = 10

Total

Sl. No.	QTY	Unit	Description Operation	FSR / SSR No.	Fsl	Rate(Rs)	Per		Amount (Rs)
1	100	Nos	Aligning and marking I Plantation area	5.2.4	1.38	845.18	100	Nos	845
2	100.00	Nos	Digging of 60 cm ³ pits in all types of soil during non rainy season	5.8.1	9.26	5671.00	100.00	Nos	5671
3	100	Nos	cost and transport of farm yard manure each plant 0.60 x 0.60x 0.20 = 0.072 m ³ /pit 7.2 m ³	LQ		750	1	M3	5400
4	100	Nos	Application of farm yard manure by mixing in the pit before planting(1 mazdoor for 200 Nos)	FSL WAGE RATE	1	612.45	200	Nos	306
5	100	Nos	Cost of Bio fertilizer including cost of application Vermicompost 1 kg Bio Fertilizer 100 g, VAM- 100g	NHAI ME		7.7	1	No	770
6	110	Nos	Transporting saplings (Transporting to radius of 40 km) excluding loadind and unloading by private vechile	NHAI ME		7	1	No	770
7	110	Nos	Loading and unloading the container seedlings 30 x 45cm in private lorry upto a lead of 2 kms excluding hire charges of vechile	5.11.7	3.29	2014.96	1000	Nos	221

8			Distribution of sapplings from where seedlings are stocked to the planting spot in plains upto 500 mts						
a	40	Nos	Upto 100 mts	5.15.1	10	6124.5	1000	Nos	245
b	40	Nos	Upto 200 mts	5.15.2	17.5	10717	1000	cu.m	429
c	30	Nos	Upto 500 mts	5.15.3	41	25110.5	1000	Nos	753
9	100	Nos	Planting the container plants by refilling pits of size 60 cm	5.22	1.71	1047.29	100	Nos	1047
10	250	RM	Provision of vertical casurina poles 5cm to 8 cm 2.5mtr ht per plant	PWD SSR		17.5	1	RM	4375
11	10	Nos	Replacement of casualties by reopening failed pits and planting the seedlings	5.23		5671.29	100	Nos	567
12	100	Nos	Scarpping for 1 m dia and soil working 15 cm depth around each plants and removing the grass roots away from the site of upturning the soil	5.24	1.23	753.31	100	Nos	753
13	100	Nos	Forming catch water drains for each plants of 90 x 45 x 30 cm size	5.26	6.84	4189.16	100	Nos	4189
14	100	Nos	Providing Brush wood fencing around each plants		0.25	122.06	1	Nos	12206
15	100	Nos	Watering the plants once in 6 days during summer/ non rainy period from january to march @ one mazdoor forr 200 plants/ watering days (15 watering days)	NHAI ME		612.45	200	Nos	4593
16	30000	Ltrs	Cost of water @ 20 liter per seedling 15 watering days (100 x 20 x 15 = 30000) Lts	NHAI ME		1200	12000	Lts	3000
17	100	Nos	Removing / scarpping vizal monsoon or bothai grass for one meter dia around the plants	5.27	0.21	128.61	100	Nos	129

18	5	Mnths	Provision for cost of pesticides and fungicide and labour charge for application of pesticides 2 times / month	L.R	200	1	Times	2000
19	LS		Photo and Documentation charges		LS			2000
20	LS		Contingencies and unforeseen expenditure to be restricted to as per actuals		LS			1500
Total								51769
Add 10% escalation								5177
Total prorata								56946

Specification: Submitted to District Forest Officer Thanjavur in favour of early sanction. This estimate is prepared based on NHA/NTP model estimate, FSR, PWD SSR and local rate and research wing rate. Hence this estimate may be approved.

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 வனசரக அலுவலர்
 பட்டுக்கோட்டை வனச்சரகம்
 பட்டுக்கோட்டை
 13/6/23

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 மாவட்ட வன அலுவலர்
 தஞ்சாவூர் வனக்கோட்டம்
 தஞ்சாவூர்.

Estimate For 1 st year maintenance of Compnsation Afforestation Over and Area of Ha of Avanam RF in Pattukkottai Range,Thanjavur Division During 2023-24 under state CAMPA SCHEME.

No. of seedlings = 100

Size of poly bag = 30 x 45 x 600g

10% casuality = 10

Total

Sl. No.	QTY	Unit	Description Operation	FSR / SSR No.	FSL	Rate (Rs)	Per	Amount (Rs)
A . NURSERY OPERATION								
1	10	No	Raising cost of seedlings in 30 x 45 size polythene bags (As per actual nursery estimate)	As per nursery estimate		136.36	174 No	1360
TOTAL								1360
B. PLANTING OPERATION								
1	10	No	cost and transport of farm yard manure each plant 0.60 x 0.60x 0.20 = 0.072 m3/pit 7.2 M3	LQ		750	1 m3	5400
2	10	Nos	Application of farm yard manure by mixing in the pit before planting(1 mazdoor for 200 Nos)	FSL WAGE RATE	1	612.45	200 Nos	31
3	10	Nos	Transporting saplings (Transporting to radius of 40 km) excluding loadind and unloading by private vechile	NHAI ME		7	1 No	70
4	110	Nos	Loading and unloading the container seedlings 30 x 45cm in private lorry upto a lead of 2 kms excluding hire charges of vechile	5.11.7	3.29	2014.96	1000 Nos	20
5			Distrubition of sapplings from where seedlings are stocked to the planting spot in plains upto 500 mts					
a	4	Nos	Upto 100 mts	5.15.1	10	6124.5	1000 Nos	24
b	4	Nos	Upto 200 mts	5.15.2	17.5	10717	1000 cu.m	43

c	2	Nos	Upto 500 mts	5.15.3	41	25110.45	1000	Nos	50
6	10	Nos	Replacement of casualities by reopening failed pits and planting the seedlings	5.23		5671.29	100	Nos	567
7	100	Nos	Scarping for 1 m dia and soil working 15 cm depth around each plants and removing the grass roots away from the site of upturning the soil	5.24	1.23	753.31	100	Nos	753
8	100	Nos	Cost of Bio fertilizer including cost of application Vermicompost 1 kg Bio Fertilizer 100 g, VAM- 100g	NHAI ME		7.7	1	No	770
9	60000	Ltrs	Cost of water @ 20 liter per seedling 15 watering days (100 x 20 x 30 = 60000) Ltrs	NHAI ME		1200	12000	Lts	6000
10	100	Nos	Watering the plants once in 6 days exculiding rainy days from April to june & january to march @ one mazdoor forr 200 plants/ watering days (15+ 15 = 30watering days)	4.11.7	0.28	612.45	200	Shift	9187
11	LS		Contingencies and unforeseen			LS			687
Total (B)									23602
Total (A+B) Prorata for 1st year maintenance									24962
Add 20% of escalation for 2nd year									4992
Total prorata									29954

Specation Specification: Submitted to District Forest Office Thanyaruvu in favours of early sanction. This estimate has been prepared as per Gov letter on 3/1/2014, NHAI / MTP model estimate, FSR, PWD SSR, loc rate and research wage rate. Hence this estimate m be sanctioned.


 வனசரக அலுவலர்
 பட்டுக்கோட்டை வனசரகம்
 பட்டுக்கோட்டை


 மாவட்ட வன அலுவலர்
 தஞ்சாவூர் வனக்கோட்டம்
 தஞ்சாவூர்,

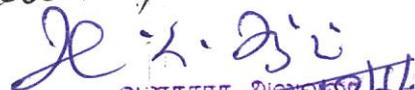
Estimate For 2nd year maintenance of Compnsation Afforestation Over and Area of Ha of Avanam RF in Pattukkottai Range, Thanjavur Division During 2023-24 under state CAMPA SCHEME.

No. of seedlings = 100

Survival 100% =

Sl. No.	QTY	Unit	Description Operation	FSR / SSR No.	FSL	Rate.Rs	Per		Amount (Rs)
1	100	Nos	Scarping for 1 m dia and soil working 15 cm depth around each plants and removing the grass roots away from the site of upturning the soil	5.24	1.23	753.31	100	Nos	753
2	100	Nos	Cost of Bio fertilizer including cost of application Vermicompost 1 kg Bio Fertilizer 100 g, VAM- 100g	NHAI ME		7.7	1	No	770
3	60000	Ltrs	Cost of water @ 20 liter per seedling 15 watering days (100 x 20 x 30 = 60000) Lts	NHAI ME		1200	12000	Lts	6000
4	100	Nos	Watering the plants once in 6 days exculiding rainy days from April to june & january to march @ one mazdoor forr 200 plants/ watering days (15+ 15 = 30watering days)	4.11.7	0.28	612.45	200	Shift	9187
5		LS	Contingencies and unforseen			LS			835
Total Prorata									17545
Add 30% of escalation for 2nd year									5263
Total prorata 2 nd year maintenance									22808

Specification: Submitted to District Forest offices in favour of early sanction. This estimate is prepared as per FSR, PWD SSR, NHAI / MTR model estimate, research wage rate, Local rate. Hence this estimate may be sanctioned


 வனசரக அலுவலர்
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 பட்டுக்கோட்டை


 மாவட்ட வன அலுவலர்
 தஞ்சாவூர் வனக்கோட்டம்
 தஞ்சாவூர்.

Estimate For 4 nd year maintenance of Compnsation Afforestation Over and Area of Ha in Avanam RF - Pattukkottai Range, Thanjavur Division During 2023-24 under state CAMPA SCHEME.

No. of seedlings = 100

Survival 100% = 100

Sl. No.	QTY	Unit	Description Operation	FSR / SSR No.	FSL	Rate.Rs	Per		Amount (Rs)
1	100	Nos	Scarping for 1 m dia and soil working 15 cm depth around each plants and removing the grass roots away from the site of upturning the soil	5.24	1.23	753.31	100	Nos	753
2	LS		Contingencies and unforeseen expenditure to be restricted to as per actuals			LS			835
Total Prorata									1588
Add 50% of escalation for 4th year									794
Total prorata 4th year maintenance									2382
Add 10% of escalation for 5th year									238
Total prorata 5 th year maintenance									2620
Add 10% of escalation for 6th year									262
Total prorata 6th year maintenance									2882
Add 10% of escalation for 7th year									288
Total prorata 7th year maintenance									3170
Add 10% of escalation for 8th year									317
Total prorata 8th year maintenance									3487
Add 10% of escalation for 9th year									317
Total prorata 9th year maintenance									3804
Add 10% of escalation for 10th year									380
Total prorata 10th year maintenance									4184

Specification: Submitted to District Forest Officer Thanjavur in favour of early sanction. This estimate is prepared as per Govt letter on CAMPA, NHAH/MTP model estimate, PSP, MWDSSR, local rate and research wing rate. Hence this estimate may be approved.

J. S. S. S.
 வனச்சரக அலுவலர்/3/6/22
 பட்டுக்கோட்டை வனச்சரகம்
 பட்டுக்கோட்டை

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 மாவட்ட வன அலுவலர்
 தஞ்சாவூர் வனக்கோட்டம்
 தஞ்சாவூர்.