

Aratel.

**ABSTRACT ESTIMATE FOR RAISING COMPENSATORY AFFORESTATION OVER
AN AREA OF 0.063 Ha. OF FOREST AREA**

	AREA	0.126 Ha
	NO Of Plants per Ha	1000
	No of Seedlings	126 Nos.
	10% for casualty replacement	12 Nos.
	Total	138 Nos.
Sl.No.	DESCRIPTION OF WORK	ESTIMATE AMOUNT(in Rs)
1	Raising advance nursery during 1 st year - 2023-24	13000
2	Nursery maintenance till planting during 2 nd year-2024-25	8800
3	Planting operation - during 2 nd year-2024-25	35200
4	1 st year Maintenance - 3 rd year-2025-26	20662
5	2 nd year Maintenance - 4 th year-2026-27	2662
6	3 rd year Maintenance - 5 th year-2027-28	2929
7	4 th year Maintenance - 6 th year-2028-29	3222
8	5 th year Maintenance - 7 th year-2029-30	3544
9	6 th year Maintenance - 8 th year-2030-31	3898
10	7 th year Maintenance - 9 th year-2031-32	4288
11	8 th year Maintenance - 10 th year-2032-33	4717
12	9 th year Maintenance - 11 th year-2033-34	5188
13	10 th year Maintenance - 12 th year-2034-35	5707
	Total	113818
	Or	114000

Note : The estimate amount has been prepared based on the FSR of 2023-24. Hence for every subsequent years esclation of 10% have been added in the estimate cost

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5. KQJ 11/10/23

District Forest Officer,
Vellore Division

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VELLORE RANGE, VELLORE-9

Estimate for Raising Advance Nursery

Size of polybags

:30x45cm

No of seedlings

138

Wages rate Rs.

612.45

Sl. No	Qty	Details of Work	FSR Item No	Rate	Per	Amount
NURSERY OPERATIONS FOR 13x25cm bags						
1	138 Nos	Cost of 13x25cmx250G jute bags	LR	1500	1000	207
2	40 M2	Preparation of Nursery site by Clearing and levelling the site for forming standard bed of size 10mx1m	4.1	1482.13	200	296
3	1 kg	Cost of Seeds	LR	250	1	250
4	1 Cu.m	Formation of germination beds of size 10x1x0.3M	PWD SSR item 62	74.85	1	75
5	1.0 Beds	Watering the Germination Beds twice daily with rose can (15days)	4.5.1	502.21	10beds / day	753
6	1.0 Beds	Watering the germination beds once daily with rose can (15days)	4.5.2	251.10	10beds / day	377
7	0.148 Cu.m	Collection and supply of sand silt and red soil according the requirement of preparation of soil mixture 4/5th of total volume	LR	1500	Cu.m	222
8	0.037 Cu.m	Collection and supply of farm yard manure filling bags 1/5th of total volume	LR	1500.00	Cu.m	56
9	138 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	4.6.4	2743.78	1000	379
10	138 Nos	Watering the container plants twice daily with rose can 13x25cm (15days)	4.10.4	140.86	1000	292
11	138 Nos	Watering the container plants once in daily with rose can 13x25cm (30days)	4.11.4	70.43	1000	292
14	138 Nos	Cost of 30x45cmx600 gauge bags	LR	6000	1000	828
13	1.274 M3	Collection and supply of sand silt and red soil according the requirement of preparation of soil misture 4/5th of total volume (excluding volume of 13x25bags)	LR	1500	M3	1911

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14	0.319	M3	Cost & transport of Farmyard manure for filling bags 1/5th of total volume (excluding volume of 13x25 bags)	LR	1500	M3	478
15	138	Nos	Preparation of soil mixture by breaking clods, sieving, mixing fertile earth (including red soil, silt and sand according to requirements) and farmyard manure in the ratio of 4:1, heaping at the filling site and filling in poly bags 30x45cm arranging bags in beds and pricking out the seedling (excluding cost of soil mixture and FYM)	4.6.7	17497.70	1000	2415
16	1.38	Maz	Labour cost of transplanting seedlings from 13x25cm container bags into 30x45cm containers 10maz/1000	NHAI ME	612.45	each	845
17	4.14	Kg	Cost of Vermicasting @ 30gm / container		10.00	each	41
18	2.07	Kg	Cost of VAM @ 15gm/container		18.00	each	37
19	0.83	Kg	Cost of Azospirillum @ 6gm/ container		27.00	each	22
20	0.83	Kg	Cost of phosphobacteria @ 6gm/ container		27.00	each	22
			Watering the container plants with rose can watering regime approved PCCF's Ref.No. J1/57395/2003, dt: 12.12.2003				
25	138		Twice daily - 30days	4.10.7	342.97	1000	1420
27	138		Shifting the container plants weeding grading and replacement of casualties in the bags - 1 shifting not before 45days after pricking out - one shift	4.15.7	1647.49	1000	227
30	138	Nos	Nursery protection mazdoors 1 No /10000 Nos for - 90 days	wages rate	612.45	per day	761
31	LS		Contingencies for application of pesticides etc., and unforeseen items if any				794
			Total			Total	13000
			Rate per seedlings for 2023-24			14300	
			Rate including 10% escalation for 2024-25			15730	
			Rate including 10% escalation for 2025-26			17303	
			Rate including 10% escalation for 2026-27			19034	
			Rate including 10% escalation for 2027-28			20937	
			Rate including 10% escalation for 2028-29			23031	
			Rate including 10% escalation for 2029-30			25334	
			Rate including 10% escalation for 2030-31			27867	

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J.KAL 11.1.23

2/10/2023
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Estimate for MAINTENANCE OF NURSERY TILL PLANTING OF 30x45cm CONTAINER seedlings

Size of polybags
Wages rate Rs.

:30x45cm
612.45

Sl. No	Qty	Details of Work	FSR Item No	FSL	Rate	Per	Amount
Maintenance of Bigger size bags seedlings - 6 months							
1		Watering the container plants with rose can watering regime approved PCCF's Ref.No. J1/57395/2003, dt:12.12.2003					
	138	Twice daily - 15days	4.10.7	0.56	342.97	1000	710
	138	Once daily - 30 days	4.10.7	0.28	171.49	1000	710
	138	alternative days-145	4.10.8	0.28	171.49	1000	1728
2	138	Nos Cost of vertical stick of size 2.50 mts	NHAI ME		13.00	Each	1794
3	69	Mtrs Cost of Horizontal stick			5.00	Mtrs	345
4	138	Nos Tying plants to vertical stick one in a month 2times			0.50	Each/ time	138
5	138	Nos Pruning side branches once in 2 months - 3 times			1.00	Each/ time	414
6	138	Shifting the container plants weeding grading and replacement of casualities in the bags -shifting to done once in 21days - 6 shifts	4.15.7	2.69	1647.49	1000	1364
9	138	Nos Nursery protection mazdoors 1 No /10000 Nos of 30x45cm bags - 180 days	wages rate		612.45	20000/M	761
10	LS	Contingencies for application of pesticides etc., and unforeseen items if any					37
					Total		8000
						8800	
		Rate per seedlings for 2023-24				9680	
		Rate including 10% esclation for 2024-25				10648	
		Rate including 10% esclation for 2025-26				11713	
		Rate including 10% esclation for 2026-27				12885	
		Rate including 10% esclation for 2027-28				14173	
		Rate including 10% esclation for 2028-29				15590	
		Rate including 10% esclation for 2029-30				17149	
		Rate including 10% esclation for 2030-31					

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VELLORE RANGE, VELLORE-9

Estimate for Planting for 30x45cm seedlings- 6.02 HA

No of plants per Ha
Total no of seedlings
Replacement of casualties 10%
Total seedlings

1000 nos/Ha
126
12
138

Size of polybags
Wages rate Rs.

:30x45cm
612.45

Sl. No	Qty	Details of Work	FSR Item No	Rate	Per	Amount
1	126 Nos	Digging of 60cm ³ pits in hard gravelly soil / soft rock during non-rainy season	FSR 5.8.1	5671.29	100 Nos	7146
2	138 Nos	Transport of container seedlings in private vehicles upto a lead of 10Kms. Excluding load and unloading charges @ 2000/Load	NHAI & MTP PME	7.00	1 No	966
3	138 Nos	Loading & Unloading the Container plants charges	5.11.7	2014.96	1000 Nos	278
4	138 Nos	Transporting seedlings by headload up to 200 m in hills	5.13.1	9186.75	1000	1268
5		Distribution of saplings from where seedlings are stocked to the planting spot in hills				
a	75 Nos	Upto 100mt	5.16.1	11024.10	1000 Nos	827
b	63 Nos	Upto 200mt	5.16.2	18373.50	1000 Nos	1158
6	126 Nos	Planting the Container plants by refilling pits of size 60cm ³	FSR 5.22	1047.29	100 Nos	1320
7	12 Nos	Replacement of casualties by reopening failed pits and planting the saplings (1/2 pitting rate + full planting rate)	5.23	3882.94	100 Nos	466
8	126 Nos	Scrap weeding for 1m dia and soil working 15cm depth around each plants and removing the grass roots away from the site of upturning the soil - 2 times	5.24	753.31	100 Nos	949
9	126 Nos	Forming semi-circular bunds to the plants in the hillocks 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	1763.86	100 Nos	2222
10	126 Nos	Providing each plant protection by nylon green shade net 1.5m x 3m	LS	80.00	each	10080
11	28350 Ltrs	Cost of water @ 15 liter per seedlings 15 watering days	As per ME	1500.00	12000 Ltrs	3544
12	9.45 Nos	Watering the plants once in 6 days during non rainy period (from January to March) 200 Plants per mazdoor - 15 watering days	As per ME	612.45	200 Nos	434
14	LS	Contingencies for application of pesticides etc., and unforeseen items if any				1343
					Total	32000
		rate for 2023-24				35200
		Rate including 10% esclation for 2024-25				38720
		Rate including 10% esclation for 2025-26				42592
		Rate including 10% esclation for 2026-27				46851
		Rate including 10% esclation for 2027-28				51536
		Rate including 10% esclation for 2028-29				56690
		Rate including 10% esclation for 2029-30				62359
		Rate including 10% esclation for 2030-31				

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Estimate for 1st Year Maintenance Plantation

No fo plants planted

126

No fo plants proposed for casulity replacement 20%

12

Size of polybags

:30x45cm

No of seedlings

1000 Nos

Wages rate Rs.

612.45

Sl. No	Qty	Details of Work	FSR Item No	Rate	Per	Amount
1	12 nos	coast of plants	ME	193.16	each	2318
1	12 Nos	Transporting seedlings in private vehicle excluding loading and unloading charges	NHAI & MTP PME	7.00	1 No	84
2	12 Nos	Loading & Unloading the Container plants charges	5.11.7	2014.96	1000 Nos	24
3	12 Nos	Transporting seedlings by headload up to 200 m in hills	5.13.1	9186.75	1000	110
4		Distribution of saplings from where seedlings are stocked to the planting spot upto 100mts.in hills				
a	12 Nos	Upto 100mt	5.16.1	11024.10	1000 Nos	132
5	12 Nos	Replacement of casualties by reopening failed pits and planting the saplings (1/2 pitting rate + full planting rate)	5.23	3882.94	100 Nos	466
6	126 Nos	Scrapling for 1m dia and soil working 15cm depth around each plants and removing the grass roots away from the site of upturning the soil - 2 times	5.24	753.31	100 Nos	1898
8	126 Nos	Providing each plant protection by nylon green shade net 1.5m x 3m	LS	80.00	each	10080
11	LS	Contingencies for application of pesticides etc., and unforeseen intems if any				411
					Total	15524
						17076
		Rate per for 2023-24				
		Rate including 10% esclation for 2024-25				18784
		Rate including 10% esclation for 2025-26				20662
		Rate including 10% esclation for 2026-27				22729
		Rate including 10% esclation for 2027-28				25001
		Rate including 10% esclation for 2028-29				27502
		Rate including 10% esclation for 2029-30				30252
		Rate including 10% esclation for 2030-31				33277

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3/10/2023
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Model Estimate for 2 nd 3rd year and subsequent year Maintenance of Plantation

No fo plants planted

126

Size of polybags :30x45cm

Wages rate Rs. 612.45

Sl. No	Qty	Details of Work	FSR Item No	FSL	Rate	Per	Amount
1	126 Nos	Scrapling for 1m dia and soil working 15cm depth around each plants and removing the grass roots away from the site of upturning the soil - 1st time before monsoon	5.24		753.31	100 Nos	949
2	126 Nos	Scrapling for 1m dia and soil working 15cm depth around each plants and removing the grass roots away from the site of upturning the soil - 2nd time after monsoon	5.24		753.31	100 Nos	949
3	LS	Contingencies for application of pesticides etc., and unforeseen intems if any					102
Total							2000
		Rate per Ha for 2023-24				2000	
		Rate including 10% esclation for 2024-25				2200	
		Rate including 10% esclation for 2025-26				2420	
		Rate including 10% esclation for 2026-27				2662	
		Rate including 10% esclation for 2027-28				2929	
		Rate including 10% esclation for 2028-29				3222	
		Rate including 10% esclation for 2029-30				3544	
		Rate including 10% esclation for 2030-31				3898	
		Rate including 10% esclation for 2031-32				4288	
		Rate including 10% esclation for 2032-33				4717	
		Rate including 10% esclation for 2033-34				5188	
		Rate including 10% esclation for 2034-35				5707	

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11/10/23

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