

Arctel

ABSTRACT ESTIMATE FOR RAISING COMPENSATORY AFFORESTATION OVER AN AREA OF 0.246 Ha OF Net FOREST AREA		
	AREA	0.492 Ha
	NO Of Plants per Ha	1000
	No of Seedlings	492 Nos.
	10% for casualty replacement	49 Nos.
	Total	541 Nos.
Sl.No.	DESCRIPTION OF WORK	ESTIMATE AMOUNT(in Rs)
1	Raising advance nursery during 1 st year - 2023-24	38000
2	Nursery maintenance till planting during 2 nd year-2024-25	38720
3	Planting operation - during 2 nd year-2024-25	132000
4	1 st year Maintenance - 3 rd year-2025-26	79860
5	2nd year Maintenance - 4 th year-2026-27	10647
6	3rd year Maintenance - 5 th year-2027-28	11712
7	4th year Maintenance - 6 th year-2028-29	12883
8	5th year Maintenance - 7 th year-2029-30	14172
9	6th year Maintenance - 8 th year-2030-31	15589
10	7th year Maintenance - 9 th year-2031-32	17148
11	8th year Maintenance - 10 th year-2032-33	18863
12	9th year Maintenance - 11 th year-2033-34	20749
13	10th year Maintenance - 12 th year-2034-35	22824
	Total	433167
	Or	356000

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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Estimate for Raising Advance Nursery

Size of polybags

:30x45cm

No of seedlings

541

Wages rate Rs.

612.45

Wages rate Rs. 612.45							
Sl. No	Qty		Details of Work	FSR Item No	Rate	Per	Amount
NURSERY OPERATIONS FOR 13x25cm bags							
1	541	Nos	Cost of 13x25cmx250G jute bags	LR	1500	1000	812
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	0.581	Cu.m	Collection and supply of sand silt and red soil according the requirement of prepartion of soil mixture 4/5th of total volume	LR	1500	Cu.m	872
8	0.146	Cu.m	Collection and supply of farm yard manure filling bags 1/5th of total volume	LR	1500.00	Cu.m	219
9	541	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	1484
10	541	Nos	Watering the container plants twice daily with rose can 13x25cm (15days)	4.10.4	140.86	1000	1143
11	541	Nos	Watering the container plants once in daily with rose can 13x25cm (30days)	4.11.4	70.43	1000	1143
14	541	Nos	Cost of 30x45cmx600 gauge bags	LR	6000	1000	3246
13	1.274	M3	Collection and supply of sand silt and red soil according the requirement of prepartion of soil misture 4/5th of total volume (excluding volume of 13x25bags)	LR	1500	M3	1911
14	1.25	M3	Cost & transport of Farmyard manure for filling bags 1/5th of total volume (excluding volume of 13x25 bags)	LR	1500	M3	1875

15	541	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	9466
16	5.41	Maz	Labour cost of transplanting seedlings from 13x25cm container bags into 30x45cm containers 10maz/1000	NHAI ME	612.45	each	3313
17	16.23	Kg	Cost of Vermicasting @ 30gm / container		10.00	each	162
18	8.12	Kg	Cost of VAM @15gm/container		18.00	each	146
19	3.25	Kg	Cost of Azospirillum @ 6gm/ container		27.00	each	88
20	3.25	Kg	Cost of phosphobacteria @ 6gm/ container		27.00	each	88
			Watering the container plants with rose can watering regime approved PCCF's Ref.No. J1/57395/2003, dt:12.12.2003				
25	541		Twice daily - 30days	4.10.7	342.97	1000	5566
27	541		Shifting the container plants weeding grading and replacement of casualties in the bags - 1shifting not before 45days after pricking out - one shift	4.15.7	1647.49	1000	891
30	541	Nos	Nursery protection mazdoors 1 No. /10000 Nos for - 90 days	wages rate	612.45	per day	2982
31	LS		Contingencies for application of pesticides etc., and unforeseen items if any				842
			Total		Total		38000
			Rate per seedlings for 2023-24			41800	
			Rate including 10% escalation for 2024-25			45980	
			Rate including 10% escalation for 2025-26			50578	
			Rate including 10% escalation for 2022-23			55636	
			Rate including 10% escalation for 2023-24			61200	
			Rate including 10% escalation for 2024-25			67319	
			Rate including 10% escalation for 2025-26			74051	
			Rate including 10% escalation for 2026-27			81457	

COUNTER SIGNED
J.K.G.
 11/10/23
 District Forest Officer,
 Vellore Division, Vellore-9.

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 FOREST RANGE OFFICER
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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					
	541	Twice daily - 15days	4.10.7	0.6	342.97	1000	2783
	541	Once daily - 30 days	4.10.7	0.3	171.49	1000	2783
	541	alternative days-145	4.10.8	0.3	171.49	1000	6773
2	541 Nos	Cost of vertical stick of size 2.50 mts	NHAI ME		13.00	Each	7033
3	270.5 Mtrs	Cost of Horizontal stick			5.00	Mtrs	1353
4	541 Nos	Tying plants to vertical stick one in a month 2times			0.50	Each/time	541
5	541 Nos	Pruning side branches once in 2 months - 3 times			1.00	Each/time	1623
6	541	Shifting the container plants weeding grading and replacement of casualties in the bags -shifting to done once in 21days - 6 shifts	4.15.7	2.7	1647.49	1000	5348
9	541 Nos	Nursery protection mazdoors 1 No /10000 Nos of 30x45cm bags - 180 days	wages rate		612.45	20000/M	2982
10	LS	Contingencies for application of pesticides etc., and unforeseen items if any					782
					Total		32000
		Rate per seedlings 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				46852	
		Rate including 10% esclation for 2027-28				51537	
		Rate including 10% esclation for 2028-29				56691	
		Rate including 10% esclation for 2029-30				62360	
		Rate including 10% esclation for 2030-31				68596	

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Estimate for Planting for 30x45cm seedlings- 6.02 HA

No of plants per Ha	1000 nos/Ha
Total no of seedlings	492
Replacement of casualties 10%	49
Total seedlings	541

Size of polybags
Wages rate Rs.

:30x45cm
612.45

Sl. No	Qty	Details of Work	FSR Item No	Rate	Per	Amount
1	492 Nos	Digging of 60cm ³ pits in hard gravelly soil / soft rock during non-rainy season	FSR 5.8.1	5671.29	100 Nos	27903
2	541 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	3788
3	541 Nos	Loading & Unloading the Container plants charges	5.11.7	2014.96	1000 Nos	1090
4	541 Nos	Transporting seedlings by headload up to 200 m in hills	5.13.1	9186.75	1000	4972
5		Distribution of saplings from where seedlings are stocked to the planting spot in hills				
a	300 Nos	Upto 100mt	5.16.1	11024.10	1000 Nos	3307
b	241 Nos	Upto 200mt	5.16.2	18373.50	1000 Nos	4432
6	492 Nos	Planting the Container plants by refilling pits of size 60cm ³	FSR 5.22	1047.29	100 Nos	5153
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	492 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	3706
9	492 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	8678
10	492 Nos	Providing each plant protection by nylon green shade net 1.5m x 3m	LS	80.00	each	39360
11	110700 Ltrs	Cost of water @ 15 liter per seedlings 15 watering days	As per ME	1500.00	12000 Ltrs	13838

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12	36.9	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	1695
14	LS		Contingencies for application of pesticides etc., and unforeseen intems if any				1612
			rate for 2023-24		Total		120000
			Rate including 10% esclation for 2024-25				132000
			Rate including 10% esclation for 2025-26				145200
			Rate including 10% esclation for 2026-27				159720
			Rate including 10% esclation for 2027-28				175692
			Rate including 10% esclation for 2028-29				193261
			Rate including 10% esclation for 2029-30				212587
			Rate including 10% esclation for 2030-31				233846

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Estimate for 1st Year Maintenance Plantation

No fo plants planted 492

No fo plants proposed for casuality replacement 20% 49

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	49 Nos	Cost of Seedlings	Each	193.16		9465
2	49 Nos	Transporting seedlings in private vehicle excluding loading and unloading charges	NHAI & MTP PME	7.00	1 No	343
3	49 Nos	Loading & Unloading the Container plants charges	5.11.7	2014.96	1000 Nos	99
4	49 Nos	Transporting seedlings by headload up to 200 m in hills	5.13.1	9186.75	1000	450
5		Distribution of saplings from where seedlings are stocked to the planting spot upto 100mts.in hills				
6	49 Nos	Upto 100mt	5.16.1	11024.10	1000 Nos	540
7	49 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	1903
8	492 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	7413
9	492 Nos	Providing each plant protection by nylon green shade net 1.5m x 3m	LS	80.00	each	39360
10	LS	Contingencies for application of pesticides etc., and unforeseen intems if any				428
					Total	60000
		Rate per Ha for 2023-24				66000
		Rate including 10% esclation for 2024-25				72600
		Rate including 10% esclation for 2025-26				79860
		Rate including 10% esclation for 2026-27				87846
		Rate including 10% esclation for 2027-28				96631
		Rate including 10% esclation for 2028-29				106294
		Rate including 10% esclation for 2029-30				116923
		Rate including 10% esclation for 2030-31				128616

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

No fo plants planted

492

Size of polybags :30x45cm

Wages rate Rs. 612.45

Sl. No	Qty	Details of Work	FSR Item No	FSL	Rate	Per	Amount
1	492 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	3706
2	492 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	3706
3	LS	Contingencies for application of pesticides etc., and unforeseen intems if any					587
					Total		8000
		Rate per Ha for 2023-24				8000	
		Rate including 10% esclation for 2024-25				8800	
		Rate including 10% esclation for 2025-26				9679	
		Rate including 10% esclation for 2026-27				10647	
		Rate including 10% esclation for 2027-28				11712	
		Rate including 10% esclation for 2028-29				12883	
		Rate including 10% esclation for 2029-30				14172	
		Rate including 10% esclation for 2030-31				15589	
		Rate including 10% esclation for 2031-32				17148	
		Rate including 10% esclation for 2032-33				18863	
		Rate including 10% esclation for 2033-34				20749	
		Rate including 10% esclation for 2034-35				22824	

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