

**Unit Cost for Maintenance of (9X11) Bag Plants nursery of Miscellaneous species- FSR 2021-22
(For 2022-23)**

Sl. No.	FSR Code No.	Item of work	Qty.	Unit	Rate	25% Agency Allowance	Amount
1	2	3	4	5	6	7	8
		MAINTENANCE YEAR OF NURSERY					
1	01.04.00	MAINTENANCE OF BAG PLANTS NURSERY UPTO PLANTING SEASON (APRIL TO AUGUST) for 10 m X 1 m size secondary beds (2600 Nos of 4" X 7" bags; 1700 Nos of 5" X9" bags ; 1100 Nos. of 6"X12" & 6"x8" bags ; 800 Nos. of 8"X12" bags; 400 Nos. of 10"x16" bags per bed)					
2	01.04.01 (2020-21 FSR)	Watering polybag secondary beds twice a day for 4 months					
		(a) Manually with rose cans or finely perforated nozzle attached to a hose pipe	1	Per bed per / Month	286.76	358.45	1075
	01.04.01 (2021-22 FSR)	(a) Manually with rose cans or finely perforated nozzle attached to a hose pipe	1	Per bed per / Month	301.09	376.36	3387
3	01.03.02	Weeding the plants (1100 no. of 6"x12"bags; 800 no. of 8"x12" bags; and 400 no. of 10"x16" bags; 300 Nos of 12"x13" bags) a) If the Conversion of small size bags into bigger size bag is done during May - June					
		(i) 1st weeding - August	1	Bed / weeding	55.29	69.11	69
		(ii) 2nd Weeding - October	1	Bed / weeding	55.29	69.11	69
		(iii) 3rd weeding - December	1	Bed / weeding	55.29	69.11	69
		(iv) 4th weeding - February	1	Bed / weeding	55.29	69.11	69
4	01.04.03	Shifting, grading and rearrangement in beds(3 shiftings)	1	Bed / Shifting	258.26	322.83	968
5	01.04.04	Application prophylactic foliar spray of 0.2% of Carbendazim / Dithane M-45 and any organo-phosphate(Monocrotophos / Phosphamidon @ 3-4 ml in 1 lit of water) at regular interval (once in a month from April to August) alternatively. Similarly, application of NPK 19:19:19 (1 teaspoon in 1 lit water) - once in a month - to be applied by back-packed power-sprayer (preferably in morning or evening and no watering for at least 12 hours after spray)		By Nursery Watcher			
6	01.04.05	Cost of foliar nutrient formulations like NPK-19:19:19; fungicides and insecticides (from April - August)		As per actuals with a maximum limit of Rs. 2000/ per 1 lakh polybag seedlings			1000
7	01.04.06	Cowdung Slurry application (One can apply chemical foliar spray or apply cowdung slurry -not both)					
		(a) Cost and transportation of fresh cowdung		per 100 beds for 3 months			2500
		(b) Application of cowdung slurry - once per month between April to June - Watering should not be done 12 hours before and after application of cowdung slurry treatment	1	By Nursery Watcher			
8	01.04.07	Weeding in the space between the beds, inspection path and surroundings of Nursery	1	Per bed	28.98	36.23	36
9	01.04.08	Contingencies for Maintenance Year towards the expenditure like cost of hose pipe, nursery boards, etc (Store register for materials purchased to be maintained).		As per actuals, subject to max. of 3% of estimate in maintenance year			6782
10	01.04.09	Contingencies for Electricity charges, Running & maintenance charges of oil engine (Bills to be certified by DFO / FDO and a separate log book to be maintained for oil engine)		As per Actuals			3000
11	01.05.04	Cost of Protection: One Nursery Watcher is allowed up to 1 lakh RT nursery or 100 secondary beds of polybags / 100 Teak beds of 10 m x 1 m size or combination of both. One additional Nursery Watcher is permitted for nurseries having more than 1 lakh up to 3 lakh RT seedlings or more than 100 up to 300 secondary beds or Teak beds of 10 m x 1 m size	1	Watcher / Month		9194.85	9195
12	01.05.04	Cost of Protection: One Nursery Watcher is allowed up to 1 lakh RT nursery or 100 secondary beds of polybags / 100 Teak beds of 10 m x 1 m size or combination of both. One additional Nursery Watcher is permitted for nurseries having more than 1 lakh up to 3 lakh RT seedlings or more than 100 up to 300 secondary beds or Teak beds of 10 m x 1 m size or combination of both. For more than 3 lakh RT or 300 secondary beds of Teak beds or combination of both another additional Nursery Watcher is allowed. While calculating the number of Nursery Watcher, care shall be taken	1	Watcher / Month		9654.59	9655
		Total:					37875

Total : 2021-22 37875

Escalation 10% 3788

Total: 2022-23. 41663

Escalation 10% 4166

Total: 2023-24. 45829

Escalation 10% 4583

Total: 2024-25. 50412

Escalation 10% 5041

Total: 2025-26. 55453

Escalation 10% 5545

Total: 2026-27. 60998

Escalation 10% 6100

Total: 2027-28. 67098

Escalation 10% 6710

Total: 2028-28. 73808

Escalation 10% 7381

Total: 2029-30. 81189

Escalation 10% 8119

Total: 2030-31. 89308

Escalation 10% 8931

Total: 2031-32. 98239

[Signature]
Forest Divisional Officer,
Bhadrachalam

16/10/2022

Unit Cost for Conversion from (4"x7" To 9" X 11") of Misc.Bag Plants as per FSR 2021-22 (for 2022-23)

Scheme : CAMPA - NFM

Target : 100000 Nos

Sl. No.	Item of Work	FSR Item no.	Qty	Rate	Unit	Agency Allowance 25%	Amount
1	2	3	4	5	6	7	8
1	CONVERSION of Root Trainer plants or 4"x7" or 5"x9" or 6"x8" bag-plants into higher size						
	Cost & Transport of ingredients for Potting Mixture: Red Soil, tank-silt / clayey soil, FYM in						
2	Transportation of soil mixture ingredients up to a distance of 5 km (e) 4" x 7" to 9" x 11" bags (4.717 - 0.56 = 4.157 cum)	01.03.21	500	1614.27	1000	bed	807
3	Transportation of soil mixture ingredients more than 5 km distance and upto 25 km distance (e) 4" x 7" to 9" x 11" bags (4.717 - 0.56 = 4.157 cum) (20X41.94 =838.8)	01.03.22	500	838.8	1000	0	419
	Cost of Polythene Bags-6.02 Kgs, 83 Nos. per KG	Nos.	6.024	158			952
4	Cost of Chemical component	01.03.23	500	LS	LS	0	500
5	Preparation of Potting Mixture by powdering of various ingredients, sieving and mixing them in prescribed proportion; opening of bags and filling with potting mixture partially, tearing the polybag plants and repotting them inside bigger bags and filling the rest of bags; gently pressing the same with finger tips and arranging in beds of 10x1 m size (6"x12" size: 1100 bag plants / bed and 8"x12" size": 800 bag plants per bed) (e) 4" x 7" to 9" x 11" bags (4.717 - 0.56 = 4.157 cum)	01.03.24	500	2878	1000	3597.50	1799
6	Stakes to be provided to plants in 8"X12", 9"X11", 10"X16" and 12"X13" bags with a minimum 1.50 mtr height	01.03.30	500	5250	1000	5250.00	2625
7	Weeding the plants (1100 no. of 6"x12"bags; 800 no. of 8"x12" bags; and 400 no. of 10"x16"						0
	a) If the Conversion of small size bags into bigger size bag is done during May - June						
	(ii) 2nd Weeding - October	01.03.31	1	55.29	Bed / weeding	69.11	69
	(iii) 3rd weeding - December	01.03.31	1	55.29	Bed / weeding	69.11	69
	(iv) 4th weeding - February	01.03.31	1	55.29	Bed / weeding	69.11	69
8	Shifting, grading and re-arrangement in beds	01.03.32					
8	a) If the shifting and grading is done during May - June						
8	i) One additional shifting and grading after 3 months after conversion and consecutive shifting and grading after every 2 months till the nursery stock is lifted (1+2=3)	01.03.32	1	258.26	Bed / shifting	322.83	968

9.	Watering the plants manually twice a day with rose cans or finely perforated nozzle					0
	Watering from September - March	01.03.33				
	(a) Manually with rose cans or finely perforated nozzle attached to a hose pipe (10/21 to 03/2021)		1	301.15	Per Month / Per Bed	376.44
10	Application prophylactic foliar spray of 0.2% of Carbendazim / Dithane M-45 and any organo-phosphate (Monocrotophos / Phosphamidon @ 3-4 ml in 1 lit of water) at regular interval (once in a month from Dec - March) alternatively. Similarly application of NPK 19:19:19 (a teaspoon in 1 lit water) - once in a month - to start 1 month after conversion by back-packed power-	01.03.34	1		By Nursery Watcher	
10	Cost of foliar nutrient formulations like NPK-19:19:19; fungicides and insecticides (from Dec - March)	01.03.35	1		LS	0
11	Contingencies for Raising Year towards the expenditure like cost of hose pipe, nursery boards, (store register for materials purchased to be maintained.)	01.03.35	1	1840945	LS	0
12	Contingencies for Electricity charges running and maint. Of charges of Oil engage bill to be certified by DFO /FDO and a separte log book to be maint. For oil engine.	01.03.36	1	LS	LS	0
13	Cost of Protection: One Nursery Watcher is allowed up to 1 lakh RT nursery or 100 secondary beds of polybags / 100 Teak beds of 10 m x 1 m size or combination of both. One additional Nursery Watcher	01.05.04	1	9654.59	Month	0
					TOTAL :	25191

Total : 2021-22	25191
Escalation 10%	2519
Total: 2022-23.	27710
Escalation 10%	2771
Total: 2023-24.	30481
Escalation 10%	3048
Total: 2024-25.	33529
Escalation 10%	3353
Total: 2025-26.	36882
Escalation 10%	3688
Total: 2026-27.	40570
Escalation 10%	4057
Total: 2027-28.	44627
Escalation 10%	4463
Total: 2028-28.	49090
Escalation 10%	4909
Total: 2029-30.	53999
Escalation 10%	5400
Total: 2030-31.	59399
Escalation 10%	5940
Total: 2031-32.	65339


 Forest Divisional Officer,
 Bhadrachalam

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 10/01/2022

Unit Cost for Misc., Bag Plants (4"X7") Bags FSR 2021-22(for 2022)

Sl. No.	Item of work	FSR Code No.	Qty	Unit	Rate (In Rs.)	Agency Allowance 25%	Total Amount
1	2	3	4	5	5		
	Raising of Primary beds of size 1x1x0.3 m for raising Miscellaneous Species						
1	Preparation of old site - by clearing misceleneous unavailble Jungle growth, uprootal of stumps and removal of surface stones, pebbles etc.,	01.01.01	1	Per bed	1.38	1.725	2
2	Digging soil of the demarcated beds of 1X1X0.3M Size	01.01.03	1	Bed	42.06	52.575	53
3	Cost of sandy soil and transportation with 5 km lead including loading and unloading charges (Sandy soil and FYM. in 5:1 proprtion) 0.125 cum sandy soil and 0.025 cum FYM per primary bed.	01.01.04	1	Bed	31.81	39.7625	40
4	Cost and transport of 0.025 Farm yard manure	01.01.06	1	Bed	27.34	34.175	34
5	Mixing of Sandy soil and FYM in 5:1 Proportion(50% of Volume of bed) with exacavated soil and refilling the bed and leveling	01.01.07	1	Bed	11.96	14.95	15
6	Covering the bed with dried grass and leaf litter and burning them to ash wich can form the upper layer	01.01.08	1	Bed	13.67	17.0875	17
7	Soil drenching with 0.1% Carbendazim(10 grams or 10 ml of Carbendazim in 1 lit of water	01.01.09	1		Through Nursery Watcher		0
8	Cost of Seed,weight, germination percentage and taget of planting stock of individual species are to be taken into consideration while estimationthe requirment of seeds	01.01.10	1		A/a		100
9	Sowing of seed (finer seeds like Adina, Mitragyna, Anthocephalus etc., to be mixed twith sand and bradcasted - Bigger seeds to be dibbled in lines 1 - 2 cm apart) and covering the bed to a thickness of 2.5 cm with paddy hay including cost and conveyance	01.01.12	1	Bed	13.62	17.025	17
10	Watering the primary nursery beds	01.01.13	1	Bed/ Month	15.32	19.15	19
11	Cost of chemicals,fungisides and insecticides/ Fertilizers	01.01.15	1		A/a		200
	BAG PLANTS NURSERY						

12	Site Preparation for old sites - Clearing of growth, uprootal of stumps and removal of surface stones, rubbish of all sorts etc.,	01.03.01	1	Per bed	14.61	18.2625	18
13	Cost and transport of ingredients for Potting mixture (as per CSSR) Red Soil, tank silt, Fym in 2:1:1 ratio.to this soil mixture, 220 gm of indophyll m -45, 4.5 kg of SSP and 250 gm of phorite granuels for 1cum of potting mixture will be added. Cost of chemicals is as per actuals.	01.03.04					
	Transportation of soil mixture ingredients						
	a). Distance upto 5 Km						
	(a) 10 cm x 17.5 cm (4" x 7") = 0.56 cum vol. for 1000 bags	01.03.05	2600	1000 Bags	217.41	271.7625	707
	a). Distance for every extra Km Beyond 5 Kms upto 25 Kms						
	(a) 10 cm x 17.5 cm (4" x 7") = 0.56 cum vol. for 1000 bags (20*5.67=113.40)	01.03.06	2600	1000 Bags	113.4	141.75	369
	Cost of chemical component	01.03.07	A/a				500
	Preparation of potting mixture by powdering of various ingredients, sieving and mixing them in the prescribed proportion, Opening the bags and filling with potting mixture and gently pressing the same with finger tips and arranging in beds.	01.03.08					
15	(a) 10 cm x 17.5 cm (4" x 7") size bags: 2600 bags / bed		2600	1000 Bags	643.75	804.6875	2092
14	Alignment of beds including alignment of inspection path etc.,	01.03.09	1	Bed	8.38	10.475	10
16	Pricking out seedlings from primary beds and transplanting in bags.	01.03.10	2600	1000 Bags	155.12	193.9	504
	Watering the plants twice a day from October - March						
17	(a) Manually with rose cans or finely perforated nozzle attached to a hose pipe July to September	01.03.12	1	Bed/ Month	301.09	376.3625	1129
18	Weeding to be done for every 2 months from the date of transplantation up to March up to September (1 times)	01.03.13					
	1st Weeding -		1	Bed/ Weeding	55.29	69.1125	69
19	1st shifting and grading after three months and consecutive shifting and grading after every two months till the nursery stock is lifted						

	1st Shifting -	01.03.14	1	Bed/ Shifting	258.26	322.825	323
20	Replacement of Casualties after sort out empty bags and keeping of one end of the bed (maximum 10% of total stock is permissible)	01.03.15	1	Bed	73.32	91.65	92
21	Cost of foliar nutrient formulations like multiplex or NPK-19:19:19; fungicides and insecticides from July to Oct.	01.03.16	2600		A/a		500
22	Weeding the space between the space, inspection path and surroundings of nursery	01.03.18	1	Bed	37.71	47.1375	47
23	Contingencies for Raising Year towards the expenditure like cost of hose pipe, nursery boards, (store register for materials purchased to be maintained.)	01.03.35	2600		10715		321
23	Contingencies for Electricity charges, Running & maintenance charges of oil engine (bills to be certified by DFO / FDO and a separate log book to be maintained for oil engine	01.03.36	1		A/a		500
24	Cost of protection watcher October to March (6) Months 1 No's @ 9654.59 /3 month	01.05.04	1	Month	9654.59		9655
				GRAND TOTAL::			17333

Total : 2021-22 **17333**
Escalation 10% 1733
Total: 2022-23. **19066**
Escalation 10% 1907
Total: 2023-24. **20973**
Escalation 10% 2097
Total: 2024-25. **23070**
Escalation 10% 2307
Total: 2025-26. **25377**
Escalation 10% 2538
Total: 2026-27. **27915**
Escalation 10% 2791
Total: 2027-28. **30706**
Escalation 10% 3071
Total: 2028-28. **33777**
Escalation 10% 3378
Total: 2029-30. **37155**
Escalation 10% 3715
Total: 2030-31. **40870**
Escalation 10% 4087
Total: 2031-32. **44957**

Bdhn
Forest Divisional Officer,

Bhadrachalam

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10/01/2022

Unit Cost Estimate for Advance Operation for raising of Plantation under SMM

Sl. No.	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount	
				Asper FSR	Agency allowance 25%	Total			
1	2	3	4	5	6	7	8	9	
	02.08.00	ADVANCE OPERATION (PRE-PLANTING OPERATION) - All advance-operation works of plantations to be raised shall be completed before March. Perambulation of site, preparing site inspection report including type of vegetation and density, approval of site suitability and the category of jungle growth clearance, taking the							
	02.08.01	Survey with hand-held GPS (staff to carry out) and demarcation one manday is allowed for assistance. The surveyed sketch with exact effective area statement will be uploaded in MIS platform by end of December.	1	Ha.	393.21	0.00	393	Ha	393
	02.08.02	Clearing unsalable unwanted jungle growth (leaving all the tree species of good form particularly the hardwood tree species like Teak, Nallamaddi, Yegisa, Narepa, Somi, Jitregi, Billudu, Chenangi etc. and NTFP species							
		(b) Very Light Jungle Growth (>10% and upto 20% ground area covered with Jungle growth)	1.00		3284.95	4106.19	4106	Ha	4106
	02.08.03	Uprootal of Stumps (excluding unsuitable patches) to a minimum depth of 45 cm with heavy machinery fitted with 0.90 cum and above capacity bucket, filling the pits caused by uprootal, and levelling. For retrived encroached area, the approval of Circle Head is required and the approval should indicate clearly the density of stumps or vegetation to be removed through uprootal. The uprootal work can be carried out preferably through tender process.							
		(b) Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)	1.00		11037.51	0.00	0	Ha	11038
	02.08.04	Collection and Removal of Uprooted Stumps of all sizes, other debris etc., to outside the plantation site.							
		(b) Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)	1.00		9657.68	0.00	0	Ha	9658
	02.08.05	Tilling (PERMISSIBLE FOR CA AREA ONLY) the soil to a depth of 45 cm in the effective area (excluding unsuitable patches) with heavy duty machinerv fitted with 0.90 cum and							
		(b) Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)			13962.8		13963		13963
	02.19.02	Digging of Peripheral Trenches (1 M Depth ; 1m top width, 1.5 M Bottom width) by machine for 1. km 1000 Rmt, (320 X 1.25 = 400)	100		42.40		0		4240
							sub Total:		43004

Total : 2021-22 43004

Escalation 10% 4300

Total: 2022-23. 47304

Escalation 10% 4730

Total: 2023-24. 52034

Escalation 10% 5203

Total: 2024-25. 57237

Escalation 10% 5724

Total: 2025-26. 62961

Escalation 10% 6296

Total: 2026-27. 69257

Escalation 10% 6926

Total: 2027-28. 76183

Escalation 10% 7618

Total: 2028-28. 83801

Escalation 10% 8380

Total: 2029-30. 92181

Escalation 10% 9218

Total: 2030-31. 101399

Escalation 10% 10140

Total: 2031-32. 111539



Forest Divisional Officer,
Bhadrachalam

10/01/2022

Unit Cost Estimate for Raising of Plantation under SMM

Sl. No.	FSR Code No.	Item of work	Qty		Rate in Rs.			Per		Amount
					Asper FSR	Agency allowance 25%	Total			
1	2	3	4		5	6	7	8		9
	02.09.00	PLANTING OPERATIONS DURING RAISING YEAR								
1	02.09.01	Removing congestion of root suckers and other uprooted material hindering the effective ploughing	1	Ha	1119.37	279.84	1399.21	1	Ha	1399
2	02.09.03	Deep Ploughing the effective (excluding unsuitable patches) plantation area across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough. FOR UN TILLED AREA ONLY								
		(a) Ordinary soils like gravel and morum	0.50	Ha	3744.62	0.00	3744.62	1	Ha	1872
		(b) Hard soils like gravel and morum	0.50	Ha	5620.89	0.00	5620.89	1	Ha	2810
3	02.09.04	Alignment & Stacking including demarcation of base line								
		(c) 3X3 m espacement = 1111 planting points	1111	No.	93.82	23.46	117.28	100	No.	1303
4	02.09.05	i) Cost of preparation of stakes (0.45 m length) and transportation to site	1111	No.	59.81	0.00	59.81	100	No.	664
		ii) Cost of preparation of stakes (2.0 m length) and transportation to site (subject to condition that the seedling height is 1.5m to 2.0m height) which includes cost of stake, coaltar application at the bottom of the stake (30 cm), transportation, fixing and tying.	1111	No.	1260.00	0.00	1260.00	100	No.	13999
5	02.09.06	Digging of Pits in Ploughed Areas in June - July by adopting 50% of original rate of digging of pits of ordinary soil								
		b) 45 cm3 pits	1111	No.	11.19	2.80	13.99	1	No.	15540
6	02.09.07	(a) Transportation of Planting Stock (including loading and unloading) up to a distance of 5 km								
		(d) 23 X 28 cm (9"X11") bag plants	1111	No.	268.03	0.00	268.03	100	No.	2978
7	02.09.08	(d) 23 X 28 cm (9"X11") bag plants For the distance of 15 Kms. i.e. 9.42 x 15=Rs. 94.20 / 100 Nos. per Km.	1111	No.	94.20	0.00	94.20	100	No.	1047
8	02.09.10	Internal transportation to planting points on head loads								
		(d) 23 X 28 cm (9"X11") bag plants	1111	No.	173.08	43.27	216.35	100	No.	2404
9	02.09.11	Fortification of seedling with insecticide and treating pits with SSP								
		(a) Application of 50 gm of SSP per pit (1 day before planting) for root growth and early establishment of plant after planting. ii) Similarly, the bag plants to be planted will be dipped inside Chloropyriphos solution (5ml Chloropyriphos in 1 lit water) either at nursery site before transport or at plantation site before planting	1111	No.	41.23	10.31	51.54	100	No.	573
		(b) Cost of SSP, Chloridine dust or Chloropyriphos (50 gm. X 11110 = 555500 Grms. /1000 = 560 Kgs. / 45 Kgs. = 12.44 or 13 bags x Rs. 500/- = Rs. 6500/-	1111	No.	13	0.00	500.00	1	No.	6500
10	02.09.12	Planting in various size pits								
		b) Planting in 45 cm3 Pit	1111	No.	459.36	114.84	574.20	100	No.	6379
	02.09.14	Watering (one time) immediately after planting if the planting takes place on a non-rainy days and during dry spell								
		a) One critical watering after planting if planting takes place on non-rainy days with the prior written permission of DFO / FDO.	1111	No.	278.11	69.53	347.64	100	No.	3862
11	02.09.16	Cost of DAP @ 25 gm / planting point. (25 gm. X 11110 = 277750 Grms. /1000 = 277.75 Kgs. / 45 Kgs. = 6.172 or 7 bags x Rs. 1300/- = Rs. 9100/-	1111	No.	A/a	0.00	0.00	1	No.	9100
12	02.09.17	Application of fertilizer in August (30 days after planting) by making 3 holes of 10 cm depth with crow bar holes at a distance of 10 cm away from plant and putting fertilizers and closing. Ensure that the soil is really wet at the time of DAP application.	1111	No.	41.23	10.31	51.54	100	No.	573

Sl. No.	FSR Code No.	Item of work	Qty		Rate in Rs.			Per		Amount
					Asper FSR	Agency allowance 25%	Total			
13	02.09.15	Replacement of Casualties: 20% during Raising Year. (In case of Eucalyptus: 10% during raising and no casualty replacement for further maintenance). The casualty replacement should be done in 3 stages at an interval of 15 days immediately after planting during raising year.								
	02.09.07	Transportation of Planting Stock (up to 5 km) (d) 23 X 28 cm (9"X11") bag plants.	278	No.	268.03	0.00	268.03	100	No.	745
14	02.09.08	b) Transportation of Planting Stock (including loading and unloading) more than 5 km distance and upto 25 km distance								
		(d) 23 X 28 cm (9"X11") bag plants For the distance of 15 Kms. i.e. 9.42 x 15=Rs. 94.20 / 100 Nos. per Km.	278	No.	94.20	0.00	94.20	100	No.	262
15	02.09.10	Internal transportation to planting points on head loads								
		(c) 20 X 30 cm (9"X11") bag plants	278	No.	173.08	43.27	216.35	100	No.	601
16	02.09.06	Digging of Pits	278	No.	5.60	1.40	6.99	1	No.	1944
17	02.09.12	b) Planting in 45 cm3 Pit	278	No.	437.48	109.37	546.85	100	No.	1520
18	02.09.16	Cost of DAP @ 25 gm / planting point. (25 gm. X 2222 = 55550 Grms. /1000 = 55.55 Kgs. / 45 Kgs. = 1.5 or 2 bags x Rs. 1300/- = Rs. 2600/-	278	No.	2.00	0.00	1300.00	1	No.	2600
	02.09.17	Application of fertilizer in August (30 days after planting) by making 3 holes of 10 cm depth with crow bar holes at a distance of 10 cm away from plant and putting fertilizers and closing. Ensure that the soil is really wet at the time of DAP application.	278	No.	41.02	0.00	41.02	100	No.	114
19	02.09.18	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.	1111	No.	131.20	32.80	164.00	100	No.	1822
20	02.09.19	Circular weeding cum Deep Soil working to a radius of 0.5m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (during Nov - Dec)	1111	No.	689.06	172.27	861.33	100	No.	9569
21	02.09.20	Inter-ploughing (during November) the effective (excluding unsuitable patches) plantation area across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough								
		(a) Ordinary soil	0.50	Ha	2553.54	0.00	2553.54	1	Ha	1277
		(b) Hard gravelly soil	0.50	Ha	3502.95	0.00	3502.95	1	Ha	1751
22	02.09.21	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during October)	1111	No.	130.43	32.61	163.04	100	No.	1811
23	02.09.22	Uprootal of Mahaveera (<i>Hyptis suaveolens</i>) weed with prior written approval of Circle Head and taking photograph before and after uprootal. The weed removal shall be completed before September-end at any cost before inter-ploughing.	1	Ha	3833.45	958.36	4791.81	1	Ha	4792
24	02.09.23	Enumeration of row-wise survival and average growth twice in raising year - Number of plants planted and Number surviving (to be undertaken during May & Dec.) and entered in Plantation Journal. Minimum stocking of 90% and average minimum height of 1.5 m at the end of raising year.				To be done by the staff (plantation-in-charge) with the help of Plantation Watcher				
25	02.09.24	Contingencies provision for Raising of plantaitons:								
		i) Fixing of Plantation Boards and Corner Stones	1	No.	A/a					1500
		ii) Contingencies and Miscellaneous (with in 5% of the estimate cost subject to ceiling of Rs. 5,000/-)	99813		5%					4991

Sl. No.	FSR Code No.	Item of work	Qty		Rate in Rs.			Per		Amount
					As per FSR	Agency allowance 25%	Total			
26	02.09.25	Cost of Protection: (a) For fenced area: One Casual labour is allowed for the plantation more than 10.00 ha but less than 30.00 ha. in extent and two Casual labourers are allowed for more than 30.00 ha.	1	No.	10 Months		9194.85			4597
							Grand Total			110901

Total : 2021-22	110901
Escalation 10%	11090
Total: 2022-23.	121991
Escalation 10%	12199
Total: 2023-24.	134190
Escalation 10%	13419
Total: 2024-25.	147609
Escalation 10%	14761
Total: 2025-26.	162370
Escalation 10%	16237
Total: 2026-27.	178607
Escalation 10%	17861
Total: 2027-28.	196468
Escalation 10%	19647
Total: 2028-28.	216115
Escalation 10%	21611
Total: 2029-30.	237726
Escalation 10%	23773
Total: 2030-31.	261499
Escalation 10%	26150
Total: 2031-32.	287649

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Forest Divisional Officer,
Bhadrachalam

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10/01/2022

Unit Cost Estimate for 1st Year maint. of Plantation under SMM										
Sl. No.	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount		
				As per FSR	Agency allowance 25%	Total				
1	2	3	4	5	6	7	8	9		
	02.03.00	1st YEAR MAINTENANCE								
1	02.03.01	Replacement of Casualties: 25% in 1st year (In case of Eucalyptus: no casualty replacement). The list of all casualty points shall be prepared by concerned FRO by and made a report to DFO latest by end of May. The pitting of all such casualty points shall be over by end of June. The casualty replacement shall be completed by end of July.			Pitting, planting, transportation and internal transportation same as precribed in fresh planting					
2		Digging of Pits - Manual : All efforts shall be made to complete pitting works before March-end. Under exceptional circumstances (if the target of plantation is given in the month of March-April), the pitting can be done during June and July. But any pitting done during June-July, plants can only be planted after the pits are verified by field inspections of FROs and DFOs of proper dimensions to avoid simultaneous pitting and planting which may result in higher percentage of caualties.								
	02.09.06	Between June - July								
		b) 45 cm3 pits	277	No.	11.190	2.798	13.99	10	No.	3875
3	02.09.07	(a) Transportation of Planting Stock (including loading and unloading) up to a distance of 5 km								
		(d) 23 X 28 cm (9"X11") bag plants	277	No.	268.03	0.00	268.03	100	No.	742
4	02.09.08	(b) Transportation of Planting Stock (including loading and unloading) more than 5 km distance and upto 25 km distance								
		(d) 23 X 28 cm (9"X11") bag plants For the distance of 20 Kms. i.e. 9.42 x 20=Rs. 188.4 / 100 Nos. per Km.	277	No.	9.42	0.00	188.40	100	No.	522
5	02.09.10	Internal transportation to planting points on head loads								
		(d) 23 X 28 cm (9"X11") bag plants	277	No.	173.08	43.27	216.35	100	No.	599
5	02.09.12	Planting in various size pits								
		b) Planting in 45 cm3 Pit	277	No.	459.36	114.84	574.20	100	No.	1591
6	02.10.02	Weeding and saucer formation to a radius of 0.5 mts around the plant during June.	1111	No.	131.20	32.80	164.00	100	No.	1822
	02.10.03	Circular weeding cum Deep Soil working to a radius of 0.5m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (during Nov - Dec)								
8		(b) For hard gravelly soil	1111	No.	689.06	172.27	861.33	100	No.	9569
9	02.10.04	Uprootal of Mahaveera (Hyptis suaveolens) weed with prior written approval of Circle Head and taking photograph before and after uprootal. The weed removal shall be completed before August-end (before flowering) at any cost before inter-ploughing.	1	Ha	3833.45	0.00	3833.45	1	No.	3833
9	02.10.05	Inter-ploughing (during September) the effective plantation area (excluding unsuitable patches) across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough. This operation shall be carried out after Mahaveera uprootal is completed. Inter-ploughing should not be used as a means of Mahaveera uprootal.	1	Ha	2553.54	0.00	2553.54	1	No.	2554
10	02.10.06	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height during October.	1111	No.	130.48	32.62	163.10	100	No.	1812
	02.10.07	Enumeration of row-wise survival and average growth twice a year - Number of plants planted and Number surviving (to be undertaken during May & Dec.) and entered in Plantation Journal. Minimum stocking of 90% and average minimum height of 2.5 m at the end of raising year			To be done by the staff (plantation-in-charge) with the help of Plantation Watcher					
11	02.10.08	Contingencies provision for maintenance of plantaitons:								
		i) Maintenance of Plantation Boards and Corner Stones			As per Actuals	As per Actuals				500
		ii) Contingencies and Miscellaneous (with in 3% of the estimate cost subject to ceiling of Rs. 3,000/-)	27419							500

Sl. No.	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				Asper FSR	Agency allowance 25%	Total		
13	02.10.09	(b) For unfenced area: One Casual labour is allowed for plantation more than 10.00 ha but less than 20.00 ha and one more Casual labour is permitted for multiples of 20.00 ha.	1	Months		9654.59		965
						Grand Total		28885

Total : 2021-22 **28885**
Escalation 10% **2888**
Total: 2022-23. **31773**
Escalation 10% **3177**
Total: 2023-24. **34950**
Escalation 10% **3495**
Total: 2024-25. **38445**
Escalation 10% **3844**
Total: 2025-26. **42289**
Escalation 10% **4229**
Total: 2026-27. **46518**
Escalation 10% **4652**
Total: 2027-28. **51170**
Escalation 10% **5117**
Total: 2028-28. **56287**
Escalation 10% **5629**
Total: 2029-30. **61916**
Escalation 10% **6192**
Total: 2030-31. **68108**
Escalation 10% **6811**
Total: 2031-32. **74919**


Forest Divisional Officer,
Bhadrachalam


10/01/2021

Unit Cost Estimate for 2nd Year maint. of Plantation under SMM

Sl. No.	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				Asper FSR	Agency allowance 25%	Total		
1	2	3	4	5	6	7	8	9
	02.11.00	2nd YEAR MAINTENANCE						
1	02.11.01	Broadcasting of Stylosanthes hamata seeds in the inter-planting rows of the plantations raised under semi-mechanical plantations by ploughing with a tractor-mounted cultivator after receipt of good rains in the month of June-July in place of existing provision of inter-ploughing in the month of September given for the 1st and 2nd year MAINTENANCE years of semi-mechanical plantations						
		(b) Inter ploughing using tractors with cultivator in 1st year maintenance and old plantations	1	Ha	2195.83	548.96	2744.79	Ha 2745
2	02.11.02	Circular weeding cum Deep Soil working to a radius of 0.5m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (during Nov - Dec)(b) For hard gravelly soil	1111	No.	689.06	172.27	861.33	100 No. 9569
3	02.11.03	Pruning of lower branch initials of Timber and NTFP species by sciculture upto 1/3 rd height <i>during October.</i>	1111	No.	130.48	32.62	163.10	100 No. 1812
	02.11.04	Enumeration of row-wise survival and average growth twice a year - Number of plants planted and Number surviving (to be undertaken during May & Dec.) and entered in Plantation Journal. Minimum stocking of 90% and average minimum height of 2.5 m at the end of raising year		To be done by the staff (plantation-in-charge) with the help of Plantation Watcher				
4	02.11.05	Contingencies provision for maintenance of plantations:						
		i) Maintenance of Plantation Boards and Corner Stones						500
		ii) Contingencies and Miscellaneous (with in 3% of the estimate cost subject to ceiling of Rs. 3,000/-)	14126					500
6	02.11.06	(b) For unfenced area: One Casual labour is allowed for plantation more than 10.00 ha but less than 20.00 ha and one more Casual labour is permitted for multiples of 20.00 ha.	1	Months		9654.59		965
						Grand Total		16092

Total : 2021-22 16092

Escalation 10% 1609

Total: 2022-23. 17701

Escalation 10% 1770

Total: 2023-24. 19471

Escalation 10% 1947

Total: 2024-25. 21418

Escalation 10% 2142

Total: 2025-26. 23560

Escalation 10% 2356

Total: 2026-27. 25916

Escalation 10% 2592

Total: 2027-28. 28508

Escalation 10% 2851

Total: 2028-28. 31359

Escalation 10% 3136


Total: 2029-30. 34495


Escalation 10% 3449

Total: 2030-31. 37944

Escalation 10% 3794

Total: 2031-32. 41738


 Forest Divisional Officer,
 Bhadrachalam


 10/01/2021

Unit Cost Estimate for 3rd to 10th Year maint. of Plantation under SMM

Sl. No.	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				As per FSR	Agency allowance 25%	Total		
1	2	3	4	5	6	7	8	9
	02.11.00	3rd YEAR MAINTENANCE						
1	02.11.06	(b) For unfenced area: One Casual labour is allowed for plantation more than 10.00 ha but less than 20.00 ha and one more Casual labour is permitted for multiples of 20.00 ha.	1	Months		9654.59		9654
						Grand Total		9654

Total : 2021-22 9654
 Escalation 10% 965
 Total: 2022-23. 10619
 Escalation 10% 1062
 Total: 2023-24. 11681
 Escalation 10% 1168
 Total: 2024-25. 12849
 Escalation 10% 1285
 Total: 2025-26. 14134
 Escalation 10% 1413
 Total: 2026-27. 15547
 Escalation 10% 1555
 Total: 2027-28. 17102
 Escalation 10% 1710
 Total: 2028-28. 18812
 Escalation 10% 1881
 Total: 2029-30. 20693
 Escalation 10% 2069
 Total: 2030-31. 22762
 Escalation 10% 2276
 Total: 2031-32. 25038


 Forest Divisional Officer,
 Bhadrachalam

10/01/2021