

UNIT COST FOR RAISING OF PRIMARY BEDS

Sl. No.	FSR-2019-20 Code	Item of work	Unit	FSR Rate (Rs.)	Agency allowance 25% (Rs)	Total Rate (Rs.)	Amount (Rs.)
1	01.00.00	PRIMARY BEDS of 1x1x0.3 m size for Miscellaneous species including bamboo - 50 primary beds for 1 lakh nursery is permitted. Primary beds should start from Jan - May depending on availability of fresh seeds. Once primary beds are formed, they can be used upto 5 years without changing the medium - what is required each time is solarization, burning a layer of grass on it and adding the below recommended fungicides and insecticides to the medium.					
2	01.01.01	Preparation of New Site by clearing jungle growth, uprootal of stumps and removal of surface stones, pebbles etc.	Bed	5.20	0.00	5.20	5.20
3	01.01.03	Digging soil of the demarcated beds of 1x1x0.30 m size	Bed	40.06	0.00	40.06	40.06
4	01.01.04	Cost of sandy soil and transportation with 5 kms lead including loading and unloading charges (sandy soil and FYM in 5:1 ratio, i.e., 0.125 cum sandy soil and 0.025 cum FYM per primary bed	Bed	30.29	0.00	30.29	30.29
5	01.01.05	For every extra km beyond 5 km upto 25 km	Bed	23.00	0.00	23.00	23.00
6	01.01.06	Cost and transport of 0.025 cum FYM	Bed	26.04	0.00	26.04	26.04
7	01.01.07	Mixing of sandy soil and FYM in 5:1 proportion (50 % of volume of bed) with excavated soil and refilling the bed and levelling.	Bed	11.39	0.00	11.39	11.39
8	01.01.08	Covering the beds with dried grass and leaf litter and burning them to ash which can form the upper layer	Bed	13.02	0.00	13.02	13.02
10	01.01.10	Cost of seed - seed weight, germination percentage and target of planting stock of individual species are to be taken into consideration while estimating the requirement of seeds	Bed	500.00	0.00	500.00	500.00
11	01.01.12	Sowing of seed (finer seeds like Adina, Mitragyna, Anthocephalus etc. to be mixed with sand and broadcasted - 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	Bed	12.97	0.00	12.97	12.97
12	01.01.13	Watering the primary nursery beds with rose water cans twice daily for a maximum period of 2 months.	45 Days	14.60	0.00	14.60	21.90
13	01.01.15	Cost of chemicals, fungicide and insecticide	Bed	6.00	0.00	6.00	6.00
14		Electrical Charges		25.00	0.00	25.00	25.00
		Total					714.87
		Rasing of seedlings 110% for abtaining 100%				10%	71.49
		Total					786.36
		cost of each plant (1100 plants per bed) - 2020-21					0.3932

10% escalation every year


 Forest Divisional Officer,
 Armour

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UNIT COST FOR RAISING OF (4"x7") BAG PLANT NURSERY

Sl. No.	FSR-2019-20 Code	Item of work	Unit	Quantity	As per FSR				Amount (Rs.)
					Rate (Rs)	Per	Agency allowance 25% (Rs)	Total (Rs)	
		BAG PLANT NURSERY: Seedlings need to be raised in 4"x7" (200 gauge) or 5"x9" (250 gauge) bags which are to be converted into 6"x12" (400 gauge) or 8"x12" (400 gauge) polybags. The seedlings are to be transplanted from primary beds in June - July. Hence the bags are to be filled during April-May when the soil is dry.							
		Raising of Nursery in Polythene bags in sizes of 4"x7" (200 gauge) or 5"x9" (250 gauge) bags and arranging in secondary beds (Bed size: 10 X 1 M).							
1	01.03.01	Site preparation for New Sites - Clearing of growth, uprootal of stumps and removal of surface stones, rubbish of all sorts etc.	Bed	2	52.08	1	0.00	52.08	104.16
		Cost of Polybags (including the cost of certification by): To ensure quality control, the quality of bags have to be certified by CIPET (Central Institute of Plastic Engineering & Technology), Hyderabad at the cost of tenderer by taking samples from various lots of polybags.							
2	01.03.03	10 cm x 17.5 cm (4" x 7") size bags of 200 g: 2200 bags / kg	Kg	13.23	159.00	1	0.00	159.00	2103.57
	01.03.04	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 single super phosphate (SSP) and 250 gm of phorate granules per 1 cum of potting mixture will be added. Cost of chemicals is as per actuals.							
	01.03.05	Distance upto 5 km							
3	a	10 cm x 17.5 cm (4" x 7") size bags: 2600 bags / bed	No's	1000	207.60	1000		207.60	207.60
	01.03.06	For every extra km beyond 5 km upto 25 km							
4	a	10 cm x 17.5 cm (4" x 7") = 0.56 cum vol. for 1000 bags	No's	1000	5.15	1000		5.15	5.15
	01.03.08	Preparation of Potting Mixture by powdering of various ingredients, sieving and mixing them in prescribed proportion; opening of bags and filling with potting mixture and gently pressing the same with finger tips and arranging in beds.							
5	a	10 cm x 17.5 cm (4" x 7") size bags: 2600 bags / bed	No's	1000	613.10	1000	0.00	613.10	613.10
6	01.03.09	Alignment of beds including alignment of inspection paths etc	Bed	1	7.98	1	0.00	7.98	7.98
7	01.03.10	Pricking out seedlings from primary beds and transplanting into polybags	No's	1000	147.74	1000	0.00	147.74	147.74
8	01.03.11	Sowing / dibbling of pretreated seeds (e.g. Yegisa, Nalamadi, Yerumaddi etc.) directly into bags including cost of treatment	No's	1000	87.89	1000	0.00	87.89	87.89
9	01.03.12	Watering the plants (2 Months) twice a day from Feb-March - a) Manually with rose cans or finely perforated nozzle attached to a hose pipe	Bed	4	286.76	1	0.00	286.76	1147.04
10	01.03.13	Weeding to be done for every 2 months from the date of transplantation up to March	Bed	4	52.66	1	0.00	52.66	210.64
11	01.03.14	1st shifting and grading after three months and consecutive shifting and grading after every two months till the nursery stock is lifted	Bed	1	245.96	1	0.00	245.96	245.96
12	01.03.15	Replacement of casualties after sorting out the empty bags and keeping at one end of the bed (maximum 10% of total stock is permissible)	Bed	1	69.83	1	0.00	69.83	69.83
13	01.03.16	Cost of foliar nutrient formulations like multiplex or NPK-19:19:19; fungicides and insecticides from July to Oct.	Bed	1	34.00	1	0.00	34.00	34.00
14	01.03.18	Weeding in the space between the beds, inspection path and surroundings of Nursery	Bed	1	35.91	1	0.00	35.91	35.91
15	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 x 1 m size or combination of both. One additional Nursery Watcher is permitted for nurseries having more than 1 lakh upto 3 lakh RT seedlings or more than 100 upto 300 secondary beds or Teak beds of 10 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 to include the nursery raising under all Schemes at a particular site. No extra Nursery Watcher is allowed for primary beds of 1x1 m size. However, the above narrative is subject to the provisions cited under general instructions.							
			Bed	1	9194.85	100	0.00	9194.85	91.95
16		Electricity charges					0.00	300.00	300.00
		Total							5412.52
17		Add casualty 10%							751.09
		2020-21 Grand Total							6163.61
		cost of each plant (1700 plants per bed)							3.6257

10% escalation every year

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UNIT COST FOR MAINTENANCE OF BAG PLANTS (4"x7")

Sl. No.	FSR-2019-20 Code	Item of work	Unit	Quantity	As per FSR				Amount (Rs.)
					Rate (Rs)	Per	Agency allowance 25% (Rs)	Total (Rs)	
		Maintenance of 4"x7" or 5"x9" bag-plants from April – August - Watering the plants twice a day from April – August							
1	01.03.12	(a) Manually with rose cans or finely perforated nozzle attached to a hose pipe	Bed	1	286.755	1	0	286.755	286.76
2	01.03.13	Weeding the beds during May & July	Bed	1	52.66	1	0	52.6575	52.66
3	01.03.14	Shifting, grading and rearrangement in beds	Bed	1	245.96	1	0	245.96	245.96
4		Electricity charges							300.00
5	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 x 1 m size or combination of both. One additional Nursery Watcher is permitted for nurseries having more than 1 lakh upto 3 lakh RT seedlings or more than 100 upto 300 secondary beds or Teak beds of 10 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 to include the nursery raising under all Schemes at a particular site. No extra Nursery Watcher is allowed for primary beds of 1x1 m size. However, the above narrative is subject to the provisions cited under general instructions.	Bed	1	9194.85	100	0.00	9194.85	91.95
2020-21 Total									977.32
cost of each plant (Per bed)									0.3759
10% escalation every year									


 Forest Divisional Officer,
 Armoor

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UNIT COST FOR CONVERSION FROM 4"x7" to 9"x11"

Sl. No.	FSR-2019-20 Code	Item of work	Unit	Quantity	As per FSR				Amount (Rs.)
					Rate (Rs)	Per	Agency allowance 25% (Rs)	Total (Rs)	
1	01.03.19	CONVERSION of Root Trainer plants or 4"x7" or 5"x9" bag-plants into higher size bags - to be done during September - October. At the time of conversion, the height of the plants should be at least above 0.45m in height (excluding the height of polybag).							
2	01.03.20	Cost and Transport of ingredients for Potting Mixture: Red Soil, tank-silt / clayey soil, FYM in 2:1:1 ratio. To this soil mixture, 220 gm of Indophyll M-45, 4.5 kg of single super phosphate (SSP) and 250 gm of phorate granules per 1 cum of potting mixture will be added. Cost of chemicals is as per actuals.							
3	01.03.21	Transportation of soil mixture ingredients							
		Distance up to 5 km							
	e	4" x 7" to 9" x 11" polybags (4.717 - 0.56 = 4.157 cum)	No	500	1537.40	1000	0.00	1537.40	768.70
4	01.03.22	Transportation of soil mixture ingredients more than 5 km distance and upto 25 km distance					0		
	e	4" x 7" to 9" x 11" polybags (4.717 - 0.56 = 4.157 cum) (20 Kms)	No	500	38.13	1000	0.00	38.13	381.30
5	01.03.23	Cost of Chemical component							40.00
6	01.03.24	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" polybags (4.717 - 0.56 = 4.157 cum)	No	500	2740.95	1000	0.00	2740.95	1370.48
7	01.03.29	Stakes to be provided to plants in 8"x12", 9"x11", 10"x16" and 12"x13" bags with a minimum 1.50 mtr height	No	500	5000.00	1000	0.00	5000.00	2500.00
8	01.03.30	Weeding the plants (1100 no. of 6"x12"bags; 800 no. of 8"x12" bags; and 400 no. of 10"x16" bags) from November - March: 2 weedings							
		(a) 1st weeding - December	Bed	1	52.66	1	0.00	52.66	52.66
		(b) 2nd weeding - February	Bed	1	52.66	1	0.00	52.66	52.66
9	01.03.31	Shifting, Grading and rearranging in secondary beds - One Grading in February	Bed	1	245.96	1	0.00	245.96	245.96
10	01.03.32	Watering the plants manually twice a day (from Novemembr - March) with rose spray or finely perforated nozzle attached to a hose pipe.							
	a	Manually with rose spray or finely perforated nozzle attached to a hose pipe	Bed	5	286.81	1	0.00	286.81	1434.04
11	01.03.34	Cost of foliar nutrient formulations like multiplex or NPK-19:19:19; fungicides and insecticides from December to March.							50.00
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 x 1 m size or combination of both. One additional Nursery Watcher is permitted for nurseries having more than 1 lakh upto 3 lakh RT seedlings or more than 100 upto 300 secondray beds or Teak beds of 10 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.	Bed	1	9194.85	100	0.00	9194.85	91.95
13	01.03.03	Cost of the ploythene bags		6.024	148	Kg		891.55	891.55
14	01.03.39	Electricity charges							100.00
		Total							7979.29
15	01.03.38	Contingencies @ 5%							100.000
		2020-21 Total for 500 plants							8079.29
		cost of each plant							16.1586

10% escalation every year

Forest Divisional Officer,
Arm6or

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UNIT COST FOR MAINTENANCE OF BAG PLANTS (April to August)

Sl. No.	FSR-2019-20 Code	Item of work	Unit	Quantity	As per FSR				Amount (Rs.)
					Rate (Rs.)	Per	Agency allowance 25% (Rs)	Total (Rs.)	
	01.04.00	MAINTAINANCE 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" bags; 800 Nos. of 8"X12" bags; 400 Nos. of 10"x16" bags per bed)							
	01.04.01	Watering polybag secondary beds twice a day for 4 months							
1	a	Manually with rose spray or finely perforated nozzle attached to a hose pipe	Bed/ month	5	286.76	1	0.00	286.76	1433.78
2	01.04.02	Weeding once during maintenance year	Bed/ weeding	1	52.66	1	0.00	52.66	52.66
3	01.04.03	Shifting, grading and rearrangement in beds (2 shifts)	Bed/ shifting	1	245.96	1	0.00	245.96	491.93
4	01.04.05	Cost of foliar nutrient formulations like multiplex or NPK-19:19:19; fungicides and insecticides from April to August	As per actuals	1	25.00	1	0.00	25.00	25.00
5	01.04.07	Weeding in the space between the beds, inspection path and surroundings of Nursery	Bed	1	28.98	1	0.00	28.98	28.98
6	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 x 1 m size or combination of both. One additional Nursery Watcher is permitted for nurseries having more than 1 lakh upto 3 lakh RT seedlings or more than 100 upto 300 secondary beds or Teak beds of 10 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 to include the nursery raising under all Schemes at a particular site. No extra Nursery Watcher is allowed for primary beds of 1x1 m size. However, the above narrative is subject to the provisions cited under general instructions.	Watcher/ month	5	9194.85	100	0.00	9194.85	459.74
8	01.04.09	Electricity charges			100.00		0.00	100.00	100.00
		Total							2592.08
9	01.04.08	Contingencies @ 5%							129.60
		2020-21 Total							2721.68
		cost of each plant (500 Plants per bed)							5.4434

10% escalation every year

Forest Divisional Officer,
Armoor

UNIT COST FOR MAINTENANCE OF BAG PLANTS (September to till disposal)

Sl. No.	FSR-2019-20 Code	Item of work	Unit	Quantity	As per FSR				Amount (Rs.)
					Rate (Rs.)	Per	Agency allowance 25% (Rs)	Total (Rs.)	
		MAINTENANCE OF BAG NURSERY FROM SEPTEMBER TO TILL DISPOSAL							
1	01.05.01	Watering plants for 10 m X 1 m size secondary bed	Bed/month	2	177.14	1	0.00	177.14	354.27
2	01.05.02	Shifting, grading and rearrangement in beds	Bed/weeding	1	245.96	1	0.00	245.96	245.96
3	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 x 1 m size or combination of both. One additional Nursery Watcher is permitted for nurseries having more than 1 lakh upto 3 lakh RT seedlings or more than 100 upto 300 secondary beds or Teak beds of 10 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 to include the nursery raising under all Schemes at a particular site. No extra Nursery Watcher is allowed for primary beds of 1x1 m size. However, the above narrative is subject to the provisions cited under general instructions.	Watcher/month	2	9194.85	100	0.00	9194.85	183.90
		Total							784.13
		cost of each plant (500 Plants per bed)							1.5683

10% escalation every year


 Forest Divisional Officer,
 Armoor

16 -155-
Unit Cost for Advance Operations (0.21 Ha) for Raising of N.T.S.H. Plantations 3m X 3m (SMM)

FSR Code	Item of work	Unit	Quantity	Unit Rate per 0.5 ha				Amount (Rs.)
				As per FSR				
				Rate (Rs.)	Agency allowance 25% (Rs)	Total (Rs.)	Per	
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.	Plantation	0.21	374.48	0.00	374.48	1	79
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 like Ippa, Morri, Tani, Karaka, Vepa, Maredu, Tapasi, Tuniki, Chinta, Usuri, Nallajeedi etc.); Spreading the cut material all over the site; and Burning the same twice till completely burnt. The unsuitable area shall be excuded from the clearing opearation and the expenditure shall be incurred for effective area only. All the above operations shall be completed before December.							
a	Sparse Jungle growth (< 10% ground area covered with Jungle growth)	Ha	0.10	2081.36	0.00	2081.36	1	208
b	Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)	Ha	0.11	3128.53	0.00	3128.53	1	344
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.				0.00	0.00		
a	Sparse Jungle growth (< 10% ground area covered with Jungle growth)	Ha	0.10	5184.30	0.00	5184.30	1	518
b	Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)	Ha	0.11	10034.10	0.00	10034.10	1	1104
02.08.04	Collection and Removal of uprooted stumps of all sizes, other debris etc. to outside plantation site							
a	Sparse Jungle growth (< 10% ground area covered with Jungle growth)	Ha	0.10	5796.11	0.00	5796.11	1	580
b	Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)	Ha	0.11	9197.79	0.00	9197.79	1	1012
02.08.05	Tilling (Permissible for CA area only) the soil to a depth of 0.45 cm in the affected area (excluding unsuitable patches) with heavy duty machinery fitted with 0.9 cum and above capacity bucket and levelling - Permissible for CA area only (and written approval of Circle head is needed and required budgetary provision has to find place in annual approved plan) and VIP planting area (minimum area should be more than 1 ha). The uprootal and tilling works shall be done preferably through a tender process and the execution of work completed before end of March							
a	Sparce jungle growth (<10% ground area covered with jungle growth)	ha	0.10	16378.65	0.00	16378.65	1	1638
	(b) Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)	ha	0.11	13962.80		13962.80	1	1536
	Unit Rate for 2020-21							7019

10% escalation every year

Forest Divisional Officer,
Armoor

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Unit Cost for Raising of (0.21 Ha) N.T.S.H. Plantations 3m X 3m. (SMM)

Unit Rate per 0.21 Ha

FSR Code	Item of work	Unit	Quantity	As per FSR				Amount (Rs.)
				Rate (Rs.)	Agency allowance 25% (Rs)	Total (Rs.)	Per	
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 TILLED AREA ONLY							
a	Ordinary Soil	Ha	0.21	3056.00	0.00	3056	1	642
02.09.01	Removing congestion of root suckers and other uprooted material hindering the effective ploughing	Ha	0.21	1066.07	0.00	1066.07	1	224
02.09.04	© Alignment and staking including demarcation of base line for Misc species with espacement 3mX3m (1111 Nos)	No's	230	89.36	0.00	89.36	100	206
02.09.05	Cost of preparation of stakes (0.45 m length) and transportation of site	No's	230	56.96	0.00	56.96	100	131
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 cm cube size pits	No's	230	10.66	0.00	10.66	1	1226
	PLANTING OPERATIONS DURING RAISING YEAR							
	Transportation of Bag plants / Root trainer plants from nursery site to plantation site including loading and unloading				0	0.00		
02.09.07	c) upto 5 Km lead (20X30 cm (8"X12")bag plants)	No's	230	206.43	0	206.43	100	475
02.09.08	c) 5 Km to 25 Km lead (20X30 cm (8"X12")bag plants)	No's	230	153.00	0	153.00	100	352
02.09.10	Internal transport of bag plants/root trainers to planting points on head loads.				0	0.00		
c	20X30 cm (8"X12")bag plants	No's	230	142.01	0.00	142.01	100	327
02.09.11	Fortification of seedling with insecticide and treating pits with SSP				0			
	(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	No's	230	39.27	0.00	39.27	100	90
	(b) Cost of SSP, Chloridine dust or Chloropyriphos	No's	230	2.00	0.00	2.00	1	460
	Planting Bag Plants							
02.09.12	Planting in 45 cm size cubic pit Pit	No's	230	437.48	0.00	437.48	100	1006
02.09.14	Watering (one time) immediately after planting if the planting takes place on a non-rainy day and if there is no rains after planting for 1-2 days with prior written permission of Circle Head and under intimation to Head Office. Also the date of watering is to be recorded in plantation Journal (Refer PCCF Office Rc. No. 17309/2000/G1, Dt. 16.08.2005 - Circular No. 6B/2005/G1)	No's	230	264.86	0.00	264.86	100	609
02.09.15	Replacement of Casualties 20% during Raising & 25% in 1st year (In case of Eucalyptus 10% during raising and no causality 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.							
02.09.06	Digging of Pits in Ploughed Areas in June - July by adopting 50% of original rate of digging of pits of ordinary soil - a) 45 cm size cubic pits	No's	23	5.33	0.00	5.33	1	123
02.09.07, 02.09.08	Transportation of Bag plants / Root trainer plants from nursery site to plantation site including loading and unloading - b) upto 25 Km lead (20X30 cm (8"X12")bag plants)	No's	23	359.43	0.00	359.43	100	83
02.09.10	Internal transport of bag plants/root trainers to planting points on head loads - b) 20X30 cm (8"X12")bag plants	No's	23	142.01	0.00	142.01	100	33
02.09.12	Planting in 45 cm size cubic pit Pit	No's	23	437.48	0.00	437.48	100	101

FSR Code	Item of work	Unit	Quantity	As per FSR				Amount (Rs.)
				Rate (Rs.)	Agency allowance 25% (Rs)	Total (Rs.)	Per	
02.09.16	Cost of DAP @25gm / planting point	No's	230	1.00	0.00	1.00	1	230
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.	No's	230	39.27	0.00	39.27	100	90
WEEDING & SOIL WORKING								
02.09.18	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) June.	No's	230	124.95	0.00	124.95	100	287
02.09.19	b) Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (during Nov - Dec.)	No's	230	656.25	0.00	656.25	100	1509
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) in Ordinary Soils	Ha	0.21	2321.40	0.00	2321.40	1	487
02.09.22	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 September-end at any cost before inter-ploughing.	Ha	0.21	3650.90	0.00	3650.90	1	767
Unit Rate for 2020-21								9458

10% escalation every year


 Forest Divisional Officer,
 Armoor

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Unit Cost for 1st Year Maintenance of (0.21 Ha) NTSH Plantation (3m X 3 m) SMM per 0.021 Ha

Unit Rate per 0.5 ha

FSR Code	Item of work	Unit	Quantity	As per FSR				Amount (Rs.)
				Rate (Rs.)	Agency allowance 25% (Rs)	Total (Rs.)	Per	
02.10.01	Replacement of Casualties 20% during Raising & 25% in 1st year (In case of Eucalyptus 10% during raising and no causality 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.			50% of rate of original pitting rate during raising year and 100% during maintenance years. Planting, Transportation and internal transportation as prescribed above.				
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 - a) 45 cm size cubic pits	No's	58	10.66	0.00	10.66	1	618
02.09.07	Transportation of Bag plants / Root trainer plants from nursery site to plantation site including loading and unloading - b) upto 5 Km lead (20X30 cm (8"X12" plants)	No's	58	206.43	0.00	206.43	100	120
02.09.08	Transportation of Bag plants / Root trainer plants from nursery site to plantation site including loading and unloading - b) beyond 5 km and upto 25 Km lead (15X30 cm (8"X12")bag plants)	No's	58	153.00	0.00	153.00	100	89
02.09.10	Internal transport of bag plants/root trainers to planting points on head loads - b) 15X30 cm (8"X12")bag plants	No's	58	142.01	0.00	142.01	100	82
02.09.12	Planting in 45 cm size cubic pit Pit	No's	58	437.48	0.00	437.48	100	254
02.09.14	Watering (one time) immediately after planting if the planting takes place on a non-rainy day and if there is no rains after planting for 1-2 days with prior written permission of Circle Head and under intimation to Head Office. Also the date of watering is to be recorded in plantation Journal (Refer PCCF Office Rc. No. 17309/2000/G1, Dt. 16.08.2005 - Circular No. 6B/2005/G1)	No's	0	264.86	0.00	264.86	100	0
02.09.16	Cost of DAP @25gm / planting point-50% of raising cost	No's	230	0.50		0.50	1	115
02.09.11	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.	No's	230	19.64	0.00	19.64	100	45
	WEEDING & SOIL WORKING							
02.09.19	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant during Nov - Dec	No's	230	656.25	0.00	656.25	100	1509
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 September-end at any cost before inter-ploughing.	ha	0.21	3650.90	0.00	3650.90	1	767
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.	ha	0.21	2321.40	0.00	2321.40	1	487
02.10.06	Pruning of lower branch initials of Timber and NTFP species by sciculture upto 1/3 rd height (to be done during July - Aug)	No's	230	124.27	0.00	124.27	100	286
	Unit Rate for 2020-21							4372

10% escalation every year

Forest Divisional Officer,
Armoor

Unit Cost for 2nd Year Maintenance of (0.21 Ha) NTSH Plantation (3 m X 3 m) SMM per 0.21 Ha

Unit Rate per 0.5 ha

FSR Code	Item of work	Unit	Quantity	As per FSR				Amount (Rs.)
				Rate (Rs.)	Agency allowance 25% (Rs)	Total (Rs.)	Per	
02.10.01	Replacement of Casualties 20% during Raising & 25% in 1st year (In case of Eucalyptus 10% during raising and no causality 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. - 5% proposed			50% of rate of original pitting rate during raising year and 100% during maintenance years. Planting, Transportation and internal transportation as prescribed above.				
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 - a) 45 cm size cubic pits	No's	12	10.66	0.00	10.66	1	128
02.09.07	Transportation of Bag plants / Root trainer plants from nursery site to plantation site including loading and unloading - b) upto 5 Km lead (20X30 cm (8"X12") plants)	No's	12	206.43	0.00	206.43	100	25
02.09.08	Transportation of Bag plants / Root trainer plants from nursery site to plantation site including loading and unloading - b) beyond 5 km and upto 25 Km lead (20X30 cm (8"X12") bag plants)=7.65*20	No's	12	153.00	0.00	153.00	100	18
02.09.10	Internal transport of bag plants/root trainers to planting points on head loads - b) 20X30 cm (8"X12") bag plants	No's	12	142.01	0.00	142.01	100	17
02.09.12	Planting in 45 cm size cubic pit Pit	No's	12	437.48	0.00	437.48	100	52
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.	ha	0.21	2321.40	0.00	2321.40	1	487
02.11.02	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (July-Aug)	No's	230	656.25	0.00	656.25	100	1509
02.11.03	Pruning of lower branch initials of Timber and NTFP species by sciculture upto 1/3 rd height (to be carried out during July-Aug)	No's	230	124.27	0.00	124.27	100	286
02.01.03	Formation of Sector Lines / Fire Lines to a width of 3 m by giving surface treatment (sector to be in conformity with slope direction). All stumps to be cut to ground level.	Rmt	250	6.14	0.00	6.14	1	1535
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 September-end at any cost before inter-ploughing.	ha	0.21	3650.90	0.00	3650.90	1	767
Unit Rate for 2020-21								4824

10% escalation every year


 Forest Divisional Officer,
 Armoor

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Unit Cost for 3rd Year Maintenance of NTSH (0.21 Ha) Plantation (3m X 2m) SMM per 0.21 ha**Unit Rate per 0.21 ha**

FSR Code	Item of work	Unit	Quantity	As per FSR				Amount (Rs.)
				Rate (Rs.)	Agency allowen ce 25% (Rs)	Total (Rs.)	Per	
02.11.02	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (July-Aug)	No's	230	656.25	0	656.25	100	1509
02.11.03	Pruning of lower branch initials of Timber and NTFP species by sciculture upto 1/3 rd height (to be done during July - Aug)	No's	230	124.27	0	124.27	100	286
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	Rmt	250	608.27	0	608.27	100	1521
Unit Rate for 2020-21								3316

10% escalation every year


 Forest Divisional Officer,
 Armoor

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Unit Cost for 4th Year Maintenance of (0.21 Ha) NTFP Plantation (3m X 3m) SMM per 0.21 ha

Unit Rate per 0.21 ha

FSR Code	Item of work	Unit	Quantity	As per FSR				Amount (Rs.)
				Rate (Rs.)	Agency allowance 25% (Rs)	Total (Rs.)	Per	
02.11.02	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (July-Aug)	No's	230	656.25	0	656.25	100	1509
02.11.03	Pruning of lower branch initials of Timber and NTFP species by sciculture upto 1/3 rd height (to be done during July - Aug)	No's	230	124.27	0	124.27	100	286
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - proportionate cost - 0.60 times	Rmt	250	608.27	0	608.27	100	1521
Unit Rate for 2020-21								3316

10% escalation every year


Forest Divisional Officer,
Armoor

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Unit.Cost for 5th Year Maintenance of (0.21 Ha) NTSH Plantation (3m X 3m) SMM per 0.21 ha

Unit Rate per 0.21 ha

FSR Code	Item of work	Unit	Quantity	As per FSR				Amount (Rs.)
				Rate (Rs.)	Agency allowance 25% (Rs)	Total (Rs.)	Per	
02.11.02	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (July-Aug)- the work will be carried out between 1 m to 1.1 m in a ring formation- Hence 25% of cost adopted	No's	230	656.25	0	656.25	100	1509
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	Rmt	250	608.27	0	608.27	100	608
Unit Rate for 2020-21								2117

10% escalation every year


 Forest Divisional Officer,
 Armour

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Unit Cost for 6th Year Maintenance of (0.21 Ha) NTSH Plantation (3m X 3m) SMM per 0.21 ha

Unit Rate per 0.21 ha

FSR Code	Item of work	Unit	Quantity	As per FSR				Amount (Rs.)
				Rate (Rs.)	Agency allowance 25% (Rs)	Total (Rs.)	Per	
02.11.03	Pruning of lower branch initials of Timber and NTFP species by sciculture upto 1/3 rd height (to be done during July - Aug)	No's	230	124.27	0	124.27	100	286
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	Rmt	250	608.27	0	608.27	100	1521
Unit Rate for 2020-21								1807

10% escalation every year

Forest Divisional Officer,
Armoor

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Unit Cost for 7th Year Maintenance of (0.21 Ha)NTSH Plantation (3m X 3m) SMM per 0.21 ha

Unit Rate per 0.21 ha

FSR Code	Item of work	Unit	Quantity	As per FSR				Amount (Rs.)
				Rate (Rs.)	Agency allowance 25% (Rs)	Total (Rs.)	Per	
02.11.02	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (July-Aug)- the work will be carried out between 1 m to 1.1 m in a ring formation-Hence 25% of cost adopted	No's	230	656.25	0	656.25	100	1509
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	Rmt	250	608.27	0	608.27	100	1521
Unit Rate for 2020-21								3030

10% escalation every year


 Forest Divisional Officer,
 Armoor

Unit Cost for 8th Year Maintenance of (0.21 Ha) NTSH Plantation (3m X 3m) SMM per 0.21 ha

Unit Rate per 0.21 ha

FSR Code	Item of work	Unit	Quantity	As per FSR				Amount (Rs.)
				Rate (Rs.)	Agency allowance 25% (Rs)	Total (Rs.)	Per	
02.11.03	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)	No's	230	124.27	0	124.27	100	286
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	Rmt	250	608.27	0	608.27	100	1521
Unit Rate for 2020-21								1807

10% escalation every year


 Forest Divisional Officer,
 Armoor

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Unit Cost for 9th Year Maintenance of (0.21 Ha) NTSH Plantation (3m X 3m) SMM per 0.21 ha

Unit Rate per 0.21 ha

FSR Code	Item of work	Unit	Quantity	As per FSR				Amount (Rs.)
				Rate (Rs.)	Agency allowance 25% (Rs)	Total (Rs.)	Per	
02.11.02	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (July-Aug)- the work will be carried out between 1 m to 1.1 m in a ring formation- Hence 25% of cost adopted	No's	230	656.25	0	656.25	100	1509
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - proportionate cost - 0.60 times	Rmt	250	608.27	0	608.27	100	1521
Unit Rate for 2020-21								3030

10% escalation every year



 Forest Divisional Officer,
 Armoor

Unit Cost for 10th Year Maintenance of (0.21 Ha) NTSH Plantation (3m X 3m) SMM per 0.21 ha

Unit Rate per 0.21 ha

FSR Code	Item of work	Unit	Quantity	As per FSR				Amount (Rs.)
				Rate (Rs.)	Agency allowance 25% (Rs)	Total (Rs.)	Per	
02.11.03	Pruning of flower branch initials of Timber and NTFP species by sciculture upto 1/3 rd height (to be done during July - Aug)	No's	230	124.27	0.000	124.27	100	286
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	Rmt	250	608.27	0.000	608.27	100	1521
Unit Rate for 2020-21								1807

10% escalation every year


 Forest Divisional Officer,
 Armour