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

Sl. No.	FSR-2021-22 Code	Item of work	Unit	Quantity	As per FSR				Amount (Rs.)
					Rate 2022-23	Per	Agency allowance 25% (Rs)	Rate (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	4	316.14	1	79.04	395.18	1580.72
2	01.04.02	Weeding once during maintenance year	Bed/weeding	1	58.05	1	14.51	72.57	72.57
3	01.04.03	Shifting, grading and rearrangement in beds	Bed/shifting	2	271.17	1	67.79	338.97	677.93
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	21.00	1	5.25	26.25	26.25
	01.04.06	Cowdung Slurry application (One can apply chemical foliar spray or apply cowdung slurry - not both)							
5	a	Cost and transportation of fresh cowdung	As per actuals	1	27.50	1	6.88	34.38	34.38
6	01.04.07	Weeding in the space between the beds, inspection path and surroundings of Nursery	Bed	1	31.95	1	7.99	39.94	39.94
7	01.05.04	<b>Cost of Protection:</b> 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	4	10137.32	100	2534.33	12671.65	506.87
8	01.04.09	Electricity charges			500.00		0.00	500.00	500.00
		<b>Total</b>							<b>3438.65</b>
9	01.04.08	Contingencies @ 5%							<b>171.93</b>
		<b>2019-20 Total</b>							<b>3610.59</b>
		<b>cost of each plant (1100 Plants per bed)</b>							<b>3.2824</b>

  
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UNIT COST FOR CONVERSION FROM 4"x7" to 6"x12"

Sl. No.	FSR-2021-22 Code	Item of work	Unit	Quantity	As per FSR				Amount (Rs.)
					Rate 2022-23	Per	Agency allowance 25% (Rs)	Rate (Rs)	
		CONVERSION of Root Trainer plants 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).							
		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.							
	01.03.21	Transportation of soil mixture ingredients							
		Distance up to 5 km							
1	c	5" x 9" to 6" x 12" polybags (2.15 - 0.56 = 1.59 cum)	No	1100	648.27	1000	0.00	648.27	713.10
	01.03.22	Transportation of soil mixture ingredients more than 5 km distance and upto 25 km distance							
2	c	5" x 9" to 6" x 12" polybags (2.15 - 0.56 = 1.59 cum)	No	1100	17.67	1000	0.00	17.67	19.43
	01.03.28	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)							
3	c	5" x 9" to 6" x 12" polybags (2.15 - 0.56 = 1.59 cum)	No	1100	1100.79	1000	275.20	1375.99	1513.58
	01.03.31	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							
4		Weeding the plants (2 weedings)	Bed	2	55.29	1	13.82	69.11	138.23
5	01.03.32	Shifting, Grading and rearranging in secondary beds - One Grading in February	Bed	2	271.17	1	67.79	338.97	677.93
	01.03.33	Watering the plants manually twice a day (from Novemehr - March) with rose spray or finely perforated nozzle attached to a hose pipe.							
6	a	Manually with rose spray or finely perforated nozzle attached to a hose pipe	Bed	5	331.27	1	82.82	414.08	2070.41
	01.03.33	Cost of foliar nutrient formulations like multiplex or NPK-19:19:19; fungicides and insecticides from July to Oct.			2000.00		0.00	2000.00	2000.00
7	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	4	10137.32	100	2534.33	12671.65	506.87
8		Cost of the playthene bags							2340.00
9	01.03.39	Electricity charges							500.00
		Total							10479.54
10	01.03.38	Contingencies @ 5%							523.977
		2019-20 Total for 1100 plants							11003.52
		cost of each plant							10.0032

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

Sl. No.	FSR-2021-22 Code	Item of work	Unit	Quantity	As per FSR				Amount (Rs.)
					Rate 2022-23	Per	Agency allowance 25% (Rs)	Rate (Rs)	
		Maintenance of 4"x7" or 5"x9" bag-plants from April – August - Watering the plants twice a day from April – August							
1	01.02.11	(a) Manually with rose cans or finely perforated nozzle attached to a hose pipe	Bed	5	172.58	1	43.15	215.73	1078.63
2	01.02.12	Weeding the beds during May & July	Bed	2	20.25	1	5.06	25.32	50.64
3	01.02.13	Shifting, grading and rearrangement in beds	Bed	1	271.12	1	67.78	338.90	338.90
4		Electricity charges			0.00		0.00	0.00	300.00
5	01.05.04	<b>Cost of Protection:</b> 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	4	10137.32	100	2534.33	12671.65	506.87
		<b>2019-20 Total</b>							<b>2275.03</b>
		<b>cost of each plant (2600 plants per bed)</b>							<b>0.8750</b>

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UNIT COST FOR BAG PLANT NURSERY

Sl. No.	FSR-2021-22 Code	Item of work	Unit	Quantity	As per FSR				Amount (Rs.)
					Rate 2022-23	Per	Agency allowance 25% (Rs)	Rate (Rs)	
		<b>BAG PLANT NURSERY:</b> 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.							
		<b>Raising of Nursery in Polythene bags</b> 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	1	57.41	1	14.35	71.77	71.77
		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: 589 bags / kg	Kg	4.41	163.80	1	40.95	204.75	902.95
	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	2600	239.15	1000	59.79	298.94	777.24
	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	2600	5.95	1000	1.49	7.44	19.35
	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	2600	675.94	1000	168.98	844.92	2196.80
6	01.03.09	Allignment of beds including allignment of inspection paths etc	Bed	1	8.80	1	2.20	11.00	11.00
7	01.03.10	Pricking out seedlings from primary beds and transplanting into polybags	No's	2600	162.88	1000	40.72	203.60	529.35
8	01.03.11	Sowing / dibbling of pretreated seeds (e.g. Yegisa, Nalamadi, Yerumaddi etc.) directly into bags including cost of treatment	No's	2600	96.89	1000	24.22	121.12	314.91
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	316.14	1	79.04	395.18	1580.72
10	01.03.13	Weeding to be done for every 2 months from the date of transplantation up to March	Bed	4	58.05	1	14.51	72.57	290.27
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	271.17	1	67.79	338.97	338.97
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	76.99	1	19.25	96.23	96.23

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Sl. No.	FSR-2021-22 Code	Item of work	Unit	Quantity	As per FSR				Amount (Rs.)
					Rate 2022-23	Per	Agency allowance 25% (Rs)	Rate (Rs)	
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	35.70	1	0.00	35.70	35.70
14	01.03.18	Weeding in the space between the beds, inspection path and surroundings of Nursery	Bed	2	39.60	1	9.90	49.49	98.99
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	4	10137.32	100	2534.33	12671.65	506.87
16		Electricity charges			300.00		0.00	300.00	300.00
		<b>Total</b>							<b>8071.10</b>
17		Add casualty 10%							751.09
		<b>2019-20 Grand Total</b>							<b>8822.19</b>
		cost of each plant (2600 plants per bed)							5.1895

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## UNIT COST FOR RAISING OF PRIMARY BEDS

Sl. No.	FSR-2022-23 Code	Item of work	Unit	Rate 2022-23	Agency allowance 25% (Rs)	Rate (Rs.)	Amount (Rs.)
1		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	5.73	1.43	7.17	7.17
3	01.01.03	Digging soil of the demarcated beds of 1x1x0.30 m size	Bed	44.16	11.04	55.20	55.20
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	34.99	0.00	34.99	34.99
5	01.01.05	For every extra km beyond 5 km upto 25 km	Bed	1.40	0.00	1.40	1.40
6	01.01.06	Cost and transport of 0.025 cum FYM	Bed	30.07	0.00	30.07	30.07
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 lavelling.	Bed	12.56	0.00	12.56	12.56
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	14.35	0.00	14.35	14.35
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	525.00	0.00	525.00	525.00
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	14.30	3.58	17.88	17.88
12	01.01.13	Watering the primary nursery beds with rose water cans twice daily for a maximum period of 2 months.	45 Days	16.09	4.02	20.11	30.16
13	01.01.15	Cost of chemicals, fungicide and insecticide	Bed	5.25	0.00	5.25	5.25
14		Electrical Charges		20.00	0.00	20.00	20.00
		Total					754.03
		Rasing of seedlings 110% for abtaining 100%				10%	75.40
		Total					829.43
		cost of each plant (2000 plants per bed)					0.4147

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Unit Cost for Advance Operations for Raising of N.T.S.H. Plantations 3m x 2m (SMM)

FSR Code	Item of work	Unit	Quantity	Unit Rate per Ha				Amount (Rs.)
				As per FSR				
				Rate 2022-23	Agency allowance 25% (Rs)	Rate (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	1	432.53	108.13	540.66	1	541.00
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 excused from the clearing operation 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	0.2	2294.70	573.68	2868.38	1	574.00
b	Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)	Ha	0.2	3449.20	862.30	4311.50	1	862.00
c	Light Jungle Growth (> 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on the field inspection of DFO.	Ha	0.6	8103.38	2025.84	10129.22	1	6078.00
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 retrieved 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.							
a	Sparse Jungle growth (< 10% ground area covered with Jungle growth)	Ha	0.4	5987.87	1496.97	7484.83	1	2994.00
b	Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)	Ha	0.3	11589.39	2897.35	14486.73	1	4346.00
c	Light Jungle Growth (> 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on the field inspection of DFO.	Ha	0.3	15066.74	3766.69	18833.43	1	5650.00
d	Uprootal of stumps in old eucalyptus plantation with machinery		0.3	21314.95	5328.74	26643.68	1	7993.00
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	0.4	6390.21	1597.55	7987.76	1	3195.00
b	Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)	Ha	0.4	10140.56	2535.14	12675.71	1	5070.00
c	Light Jungle Growth (> 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on the field inspection of DFO.	Ha	0.2	11823.92	2955.98	14779.91	1	2956.00
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	Sparse jungle growth (<10% ground area covered with jungle growth)	ha	1	18917.35	4729.34	23646.68	1	23647.00
TOTAL								63906.00

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

Sl. No.	FSR-2021-22 Code	Item of work	Unit	Quantity	As per FSR				Amount (Rs.)
					Rate 2022-23	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	4	195.29	1	48.82	244.11	976.45
2	01.05.02	Shifting, grading and rearrangement in beds	Bed/weeding	1	271.17	1	67.79	338.97	338.97
3	01.05.04	<b>Cost of Protection:</b> 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	10137.32	100	2534.33	12671.65	633.58
		Total							1949.00
		cost of each plant (1100 Plants per bed)							1.7718

  
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Unit Cost for Raising of N.T.S.H. Plantations 3m x 2m. (SMM)

Unit Rate per Ha								
FSR Code	Item of work	Unit	Quantity	As per FSR				Amount (Rs.)
				Rate 2022-23	Agency allowance 25% (Rs)	Rate (Rs.)	Per	
02.09.02	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	1	3931.85	982.96	4914.81	1	4915
02.09.01	Removing congestion of root suckers and other uprooted material hindering the effective ploughing	Ha	1	1175.34	293.83	1469.17	1	1469
02.09.04	© Alignment and staking including demarcation of base line for Misc species with espacement 3mX3m (1111 Nos)	No's	1666	98.51	0.00	98.51	100	1641
02.09.05	Cost of preparation of stakes (0.45 m length) and transportation of site	No's	1666	59.81	0.00	59.81	100	996
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	1666	11.75	2.94	14.69	1	24468
	PLANTING OPERATIONS DURING RAISING YEAR							
01.03.05	Cost and transportation of soil mixtue for filling half of the pit and spreading around the pit	cum	0.000	310.86	0.00	310.86	1	0
02.09.07	b) upto 5 Km lead (15X30 cm (5"X9")bag plants)	No's	1666	59.72	0.00	59.72	100	995
02.09.08	b) 5 Km to 25 Km lead (15X30 cm (5"X9")bag plants)	No's	1666	2.49	0.00	2.49	100	41
02.09.10	Internal transport of bag plants/root trainers to planting points on head loads.							
b	15X30 cm (5"X9")bag plants	No's	1666	62.35	15.59	77.94	100	1298
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 Chloropyriohos in 1 lit water) either at nursery site before transport or at plantation site before planting	No's	1666	43.29	0.00	43.29	100	721
	(b) Cost of SSP, Chloridine dust or Chloropyriphos	No's	1666	1.05	0.00	1.05	1	1749
	Planting Bag Plants							
02.09.12	Planting in 45 cm size cubic pit Pit	No's	1666	482.33	120.58	602.91	100	10044
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	1666	292.02	73.00	365.02	101	6081
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 caualty 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	333	11.75	2.94	14.69	1	4891
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 (15X30 cm (5"X9")bag plants)	No's	333	62.57	0.00	62.57	100	208

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FSR Code	Item of work	Unit	Quantity	As per FSR				Amount (Rs.)
				Rate 2022-23	Agency allowance 25% (Rs)	Rate (Rs.)	Per	
02.09.10	Internal transport of bag plants/root trainers to planting points on head loads - b) 15X30 cm (5"X9") bag plants	No's	333	65.47	16.37	81.83	100	273
02.09.12	Planting in 45 cm size cubic pit Pit	No's	333	482.33	120.58	602.91	100	2008
02.09.16	Cost of DAP @25gm / planting point	No's	1666	1.05	0.26	1.31	1	2187
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	1666	43.29	10.82	54.11	100	902
	<b>WEEDING &amp; SOIL WORKING</b>							
02.09.18	a) Circular weeding to a radius of 0.50 m around the plant (during July - Aug)	No's	1666	137.76	34.44	172.20	100	2869
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	1666	723.51	180.88	904.39	100	15067
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	1	2681.22	670.30	3351.52	1	3352
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	1	4025.12	1006.28	5031.40	1	5031
	<b>TOTAL</b>							<b>91206.00</b>

  
 District Forest Officer  
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Unit Cost for 1st Year Maintenance of NTSH Plantation (3m X 3 m) SMM per Ha

FSR Code	Item of work	Unit	Quantity	Unit Rate per Ha				Amount (Rs.)
				As per FSR				
				Rate 2022-23	Agency allowance 25% (Rs)	Rate (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	417	11.75	2.94	14.69	1	6117
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 (15X30 cm (5"X9")bag plants)	No's	417	59.72	0.00	59.72	100	249
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 (5"X9")bag plants)	No's	417	2.49	0.00	2.49	100	10
02.09.10	Internal transport of bag plants/root trainers to planting points on head loads - b) 15X30 cm (5"X9")bag plants	No's	417	65.47	16.37	81.83	100	341
02.09.12	Planting in 45 cm size cubic pit Pit	No's	417	482.33	120.58	602.91	100	2511
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. 68/2005/G1)	No's	0	292.02	73.00	365.02	100	0
02.09.16	Cost of DAP @25gm / planting point-50% of raising cost	No's	1666	0.53	0.00	0.53	1	875
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	1666	43.29	10.82	54.11	100	902
	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	1666	723.51	180.88	904.39	100	15067
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	0.7	4025.12	1006.28	5031.40	1	3522
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	1	2681.22	670.30	3351.52	1	3352
02.10.06	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	1666	137.00	34.25	171.26	100	2853
	TOTAL							35799.00

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

Unit Rate per Ha								
FSR Code	Item of work	Unit	Quantity	As per FSR				Amount (Rs.)
				Rate 2022-23	Agency allowance 25% (Rs)	Rate (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 caualty 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	83	11.75	2.94	14.69	1	1223
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 (15X30 cm (5"X9")bag plants)	No's	83	59.72	0.00	59.72	100	50
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 (5"X9")bag plants)	No's	83	2.49	0.00	2.49	100	2
02.09.10	Internal transport of bag plants/root trainers to planting points on head loads - b) 15X30 cm (5"X9")bag plants	No's	83	65.47	16.37	81.83	100	68
02.09.13	Planting in 45 cm size cubic pit Pit	No's	83	576.83	144.21	721.04	100	601
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	1	2681.22	670.30	3351.52	1	3352
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	1666	723.51	180.88	904.39	100	15067
02.11.03	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be carried out during July-Aug)	No's	1666	137.00	34.25	171.26	100	2853
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	100	6.77	1.69	8.47	1	847
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	0.6	3833.45	958.36	4791.81	1	2875
TOTAL								26938.00

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Unit Cost for 3rd Year Maintenance of NTS Plantation (3m X 2m) SMM per Ha

Unit Rate per Ha								
FSR Code	Item of work	Unit	Quantity	As per FSR				Amount (Rs.)
				Rate 2022-23	Agency allowence 25% (Rs)	Rate (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	1666	723.51	180.88	904.39	100	15067
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	1666	137.00	34.25	171.26	100	2853
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	100	670.61	167.65	838.27	100	838
	TOTAL							18758.00

  
District Forest Officer  
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Unit Cost for 4th Year Maintenance of NTSH Plantation (3m x 2m) SMM per Ha

Unit Rate per Ha								
FSR Code	Item of work	Unit	Quantity	As per FSR				Amount (Rs.)
				Rate 2022-23	Agency allowance 25% (Rs)	Rate (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	1666	723.51	180.88	904.39	100	15067
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	1666	137.00	34.25	171.26	100	2853
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	100	670.61	167.65	838.27	100	838
TOTAL								18758.00

  
District Forest Officer  
Ranga Reddy

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Unit Cost for 5th Year Maintenance of NTSH Plantation (3m x 2m) SMM per Ha

Unit Rate per Ha

FSR Code	Item of work	Unit	Quantity	As per FSR				Amount (Rs.)
				Rate 2022-23	Agency allowance 25% (Rs)	Rate (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	1666	723.51	180.88	904.39	100	15067
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	100	670.61	167.65	838.27	100	838
TOTAL								15905.27

  
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Unit Cost for 6th Year Maintenance of NTS Plantation (3m x 2m) SMM per Ha

Unit Rate per Ha								
FSR Code	Item of work	Unit	Quantity	As per FSR				Amount (Rs.)
				Rate 2022-23	Agency allowen ce 25% (Rs)	Rate (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	1666	137.00	34.25	171.26	100	2853
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	100	670.61	167.65	838.27	100	838
	TOTAL							3691.00

  
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Unit Cost for 7th Year Maintenance of NTSH Plantation (3m x 2m) SMM per Ha

Unit Rate per Ha								
FSR Code	Item of work	Unit	Quantity	As per FSR				Amount (Rs.)
				Rate 2022-23	Agency allowance 25% (Rs)	Rate (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	1666	723.51	180.88	904.39	100	15067
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	100	670.61	167.65	838.27	100	838
	TOTAL							15905.00

  
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Unit Cost for 8th Year Maintenance of NTSH Plantation (3m x 2m) SMM per Ha

Unit Rate per Ha								
FSR Code	Item of work	Unit	Quantity	As per FSR				Amount (Rs.)
				Rate 2022-23	Agency allowance 25% (Rs)	Rate (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	1666	137.00	34.25	171.26	100	2853
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	100	670.61	167.65	838.27	100	838
	TOTAL							3691.00

  
District Forest Officer  
Ranga Reddy

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**Unit Cost for 9th Year Maintenance of NTSH Plantation (3m x 2m) SMM per Ha**

Unit Rate per Ha								
FSR Code	Item of work	Unit	Quantity	As per FSR				Amount (Rs.)
				Rate 2022-23	Agency allowance 25% (Rs)	Rate (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	1666	723.51	180.88	904.39	100	15067
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	100	670.61	167.65	838.27	100	838
TOTAL								15905.00

  
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Unit Cost for 10th Year Maintenance of NTS Plantation (3m x 2m) SMM per Ha

Unit Rate per Ha									
FSR Code	Item of work	Unit	Quantity	As per FSR				Amount (Rs.)	
				Rate 2022-23	Agency allowance 25% (Rs)	Rate (Rs.)	Per		
02.11.03	Pruning of flower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)	No's	1666	137.00	34.25	171.26	100	2853	
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	100	670.61	167.65	838.27	100	838	
	TOTAL							3691.00	

  
District Forest Officer  
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