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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 allowence 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	4	286.76	1	71.69	358.45	1433.80
2	01.04.02	Weeding once during maintenance year	Bed/weeding	1	52.66	1	13.17	65.83	65.83
3	01.04.03	Shifting, grading and rearrangement in beds	Bed/shifting	2	245.96	1	61.49	307.45	614.90
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	20.00	1	0.00	20.00	20.00
	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	25.00	1	0.00	25.00	25.00
6	01.04.07	Weeding in the space between the beds, inspection path and sorroundings of Nursery	Bed	1	28.98	1	7.25	36.225	36.23
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 secondray beds or Teak beds of 10 x 1 m size or combination of both. For more than 3 lakh RT or 300 secodary beds of Teak bedor 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	9194.85	1	2298.71	11493.56	45974.25
8	01.04.09	Electricity charges			500.00		0.00	500.00	500.00
		Total							48670.00
9	01.04.08	Contingencies @ 5%							2433.50
		2019-20 Total							51103.50
		cost of each plant (1100 Plants per bed)							46.4577

10% escalation every year

Forest Divisional Officer,  
Amangal

District Forest Officer  
Ranga Reddy.

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

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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.)	
		<b>MAINTENANCE OF BAG NURSERY FROM SEPTEMBER TO TILL DISPOSAL</b>							
1	01.05.01	Watering plants for 10 m X 1 m size secondary bed	Bed/month	4	177.14	1	44.29	221.43	885.70
2	01.05.02	Shifting, grading and rearrangement in beds	Bed/weeding	1	245.96	1	61.49	307.45	307.45
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	9194.85	1	2298.71	11493.56	57467.81
		<b>Total</b>							58660.96
		<b>cost of each plant (1100 Plants per bed)</b>							53.3281

10% escalation every year

Forest Divisional Officer,  
Amangal

District Forest Officer  
Ranga Reddy.

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.)	
		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).							
		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	4" x 7" to 6" x 12" polybags (2.15 - 0.56 = 1.59 cum)	No	1100	588.00	1000	0.00	588.00	646.80
	01.03.22	Transportation of soil mixture ingredients more than 5 km distance and upto 25 km distance							
2	c	4" x 7" to 6" x 12" polybags (2.15 - 0.56 = 1.59 cum)	No	1100	14.60	1000	0.00	14.60	16.06
	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	4" x 7" to 6" x 12" polybags (2.15 - 0.56 = 1.59 cum)	No	1100	1048.37	1000	262.09	1310.46	1441.51
	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							
4		Weeding the plants (2 weedings)	Bed	2	52.66	1	13.17	65.83	131.65
5	01.03.31	Shifting, Grading and rearranging in secondary beds - One Grading in February	Bed	2	245.96	1	61.49	307.45	614.90
	01.03.32	Watering the plants manually twice a day (from November - 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	286.81	1	71.70	358.51	1792.56
	01.03.33	Cost of foliar nutrient formulations like multiplex or NPK-19:19:19; fungicides and insecticides from July to Oct.							30.00
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	9194.85	1	2298.71	11493.56	45974.25
8		Cost of the polythene bags							2340.00
9	01.03.39	Electricity charges							500.00
		Total							53487.73
10	01.03.38	Contingencies @ 5%							2674.387
		2019-20 Total for 1100 plants							56162.12
		cost of each plant							51.0565

10% escalation every year

Forest Divisional Officer,

District Forest Officer  
Ranga Reddy.

## 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	01.02.11	(a) Manually with rose cans or finely perforated nozzle attached to a hose pipe	Bed	5	79.8	1	19.95	99.75	498.75
2	01.02.12	Weeding the beds during May & July	Bed	2	18.38	1	4.60	22.98	45.95
3	01.02.13	Shifting, grading and rearrangement in beds	Bed	1	245.91	1	61.48	307.39	307.39
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	4	9194.85	1	2298.71	11493.56	45974.25
		2019-20 Total							47126.34
		cost of each plant (2600 plants per bed)							18.1255

10% escalation every year

Forest Divisional Officer,  
AmangalDistrict Forest Officer  
Ranga Reddy.

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UNIT COST FOR 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.)	
		<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	<b>01.03.01</b>	Site preparation for New Sites - Clearing of growth, uprootal of stumps and removal of surface stones, rubbish of all sorts etc.	Bed	1	52.08	1	13.02	65.10	65.10
		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	<b>01.03.03</b>	10 cm x 17.5 cm (4" x 7") size bags of 200 g: 589 bags / kg	Kg	4.41	156.00	1	39.00	195.00	859.95
	<b>01.03.04</b>	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.							
	<b>01.03.05</b>	<b>Distance upto 5 km</b>							
3	a	10 cm x 17.5 cm (4" x 7") size bags: 2600 bags / bed	No's	2600	207.06	1000		207.06	538.36
	<b>01.03.06</b>	<b>For every extra km beyond 5 km upto 25 km</b>							
4	a	10 cm x 17.5 cm (4" x 7") = 0.56 cum vol. for 1000 bags	No's	2600	5.15	1000		5.15	13.39
	<b>01.03.08</b>	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	613.10	1000	153.28	766.38	1992.58
6	<b>01.03.09</b>	Alignment of beds including alignment of inspection paths etc	Bed	1	7.98	1	2.00	9.98	9.98
7	<b>01.03.10</b>	Pricking out seedlings from primary beds and transplanting into polybags	No's	2600	147.74	1000	36.94	184.68	480.16
8	<b>01.03.11</b>	Sowing / dibbling of pretreated seeds (e.g. Yegisa, Nalamadi, Yerumaddi etc.) directly into bags including cost of treatment	No's	2600	87.89	1000	21.97	109.86	285.64
9	<b>01.03.12</b>	<b>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</b>	Bed	4	286.76	1	71.69	358.45	1433.80
10	<b>01.03.13</b>	Weeding to be done for every 2 months from the date of transplantation up to March	Bed	4	52.66	1	13.17	65.83	263.30
11	<b>01.03.14</b>	1st shifting and grading after three months and consecutive shifting and grading after every two months till the nursery stock is lifted	Bed	1		1	0.00	0.00	0.00
12	<b>01.03.15</b>	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	17.46	87.29	87.29

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.)	
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 sorroundings of Nursery	Bed	2	35.91	1	8.98	44.89	89.78
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 seconday beds or Teak beds of 10 x 1 m size or combination of both. For more than 3 lakh RT or 300 secodary 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	9194.85	1	2298.71	11493.56	45974.25
16		Electricity charges			300.00		0.00	300.00	300.00
17		Total							52427.56
		Add casualty 10%							751.09
		Grand Total							53178.65
		cost of each plant (2600 plants per bed)							31.2816

10% escalation every year

Forest Divisional Officer,  
Amangal

District Forest Officer  
Ranga Reddy.

## 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 (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	1.30	6.50	6.50
3	01.01.03	Digging soil of the demarcated beds of 1x1x0.30 m size	Bed	40.06	10.02	50.08	50.08
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	1.15	0.00	1.15	1.15
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	3.24	16.21	16.21
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	3.65	18.25	18.25
13	01.01.15	Cost of chemicals, fungicide and insecticide	Bed	5.00	0.00	5.00	5.00
14		Electrical Charges		20.00	0.00	20.00	20.00
		<b>Total</b>					<b>697.93</b>
		<b>Rasing of seedlings 110% for obtaining 100%</b>				<b>10%</b>	<b>69.79</b>
		<b>Total</b>					<b>767.72</b>
		<b>cost of each plant (2000 plants per bed) - 2020-21</b>					<b>0.3839</b>

10% escalation every year

Forest Divisional Officer,  
AmangalDistrict Forest Officer  
Ranga Reddy.

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FSR Code	Item of work	Unit	Quant ity	As per FSR				Amount (Rs.)
				Rate (Rs.)	Per	Agency allowence 25% (Rs)		
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.	Plantat ion	1	374.48	1	93.62	468.10	468.10
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	0.2	2081.36	1	520.34	2601.70	520.34
b	Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)	Ha	0.2	3128.53	1	782.13	3910.66	782.13
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	7350.00	1	1837.50	9187.50	5512.50
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.			0.00		0.00	0.00	0.00
a	Sparse Jungle growth (< 10% ground area covered with Jungle growth)	Ha	0.4	5184.30	1	1296.08	6480.38	2592.15
b	Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)	Ha	0.3	10034.10	1	2508.53	12542.63	3762.79
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	13044.80	1	3261.20	16306.00	4891.80
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	5796.11	1	1449.03	7245.14	2898.06
b	Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)	Ha	0.4	9197.79	1	2299.45	11497.24	4598.90
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	10724.65	1	2681.16	13405.81	2681.16
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	1	16378.65	1	4094.66	20473.31	20473.31
<b>Unit Rate for 2020-21</b>								<b>49181</b>

10% escalation every year

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				Rate (Rs.)	Per	Agency allowance 25% (Rs)		
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. <b>FOR TILLED AREA ONLY</b>							
a	Ordinary Soil	Ha	1	3056.00	1	764.00	3820.00	3820
02.09.01	Removing congestion of root suckers and other uprooted material hindering the effective ploughing	Ha	1	1066.07	1	266.52	1332.59	1333
02.09.04	⑤ Alignment and staking including demarcation of base line for Misc species with espacement 3mX3m (1111 Nos)	No's	1666	89.36	100		89.36	1489
02.09.05	Cost of preparation of stakes (0.45 m length) and transportation of site	No's	1666	56.96	100		56.96	949
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	10.66	1	2.67	13.33	22199
<b>PLANTING OPERATIONS DURING RAISING YEAR</b>								
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	1		310.86	0
	Transportation of Bag plants / Root trainer plants from nursery site to plantation site including loading and unloading							
02.09.07	b) upto 5 Km lead (15X30 cm (4"X7")bag plants)	No's	1666	115.19	100		115.19	1919
02.09.08	b) 5 Km to 25 Km lead (15X30 cm (4"X7")bag plants)	No's	1666	3.85	100		3.85	64
02.09.10	Internal transport of bag plants/root trainers to planting points on head loads.							
b	15X30 cm (4"X7")bag plants	No's	1666	1.95	100	0.49	2.44	41
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	No's	1666	39.27	100		39.27	654
	(b) Cost of SSP, Chloridine dust or Chloropyriphos	No's	1666	1.00	1		1.00	1666
	Planting Bag Plants							
02.09.12	Planting in 45 cm size cubic pit Pit	No's	1666	437.48	100	109.37	546.85	9111
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	264.86	101	66.22	331.08	5461
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 causality 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	10.66	1	2.67	13.33	4437

FSR Code	Item of work	Unit	Quantity	As per FSR				Amount (Rs.)
				Rate (Rs.)	Per	Agency allowance 25% (Rs)		
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 (4"X7")bag plants)	No's	333	192.19	100		192.19	640
02.09.10	Internal transport of bag plants/root trainers to planting points on head loads - b) 15X30 cm (4"X7")bag plants	No's	333	91.82	100	22.96	114.78	382
02.09.12	Planting in 45 cm size cubic pit Pit	No's	333	437.48	100	109.37	546.85	1821
02.09.16	Cost of DAP @25gm / planting point	No's	1666	1.00	1	0.25	1.25	2083
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	39.27	100	9.82	49.09	818
<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	124.95	100	31.24	156.19	2602
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	656.25	100	164.06	820.31	13666
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	2321.40	1	580.35	2901.75	2902
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	3650.90	1	912.73	4563.63	4564
<b>Unit Rate for 2020-21</b>								
10% escalation every year								

Forest Divisional Officer,  
Amangal

District Forest Officer  
Ranga Reddy.

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**Unit Cost for 1st Year Maintenance of NTSH Plantation (3m X 3 m) SMM per Ha during 2019-20**

FSR Code	Item of work	Unit	Quantity	Unit Rate per Ha				Amount (Rs.)
				As per FSR	Rate (Rs.)	Per	Agency allowance 25% (Rs)	
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 causality 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	10.66	1	2.67	13.33	5550
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 (4"X7")bag plants)	No's	417	115.19	100		115.19	480
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 (4"X7")bag plants)	No's	417	3.85	100		3.85	16
02.09.10	Internal transport of bag plants/root trainers to planting points on head loads - b) 15X30 cm (4"X7")bag plants	No's	417	91.82	100	22.96	114.78	478
02.09.12	<b>Planting in 45 cm size cubic pit Pit</b>	No's	417	437.48	100	109.37	546.85	2278
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	264.86	100	66.22	331.08	0
02.09.16	Cost of DAP @25gm / planting point-50% of raising cost	No's	1666	0.50	1		0.50	833
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	39.27	100	9.82	49.09	818
<b>WEEDING &amp; SOIL WORKING</b>								
02.09.19	<b>Circular weeding cum Deep soil working</b> 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	656.25	100	164.06	820.31	13666
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	3650.90	1	912.73	4563.63	3195
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	2321.40	1	580.35	2901.75	2902
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	124.27	100	31.07	155.34	2588
<b>Unit Rate for 2020-21</b>								<b>32803</b>

10% escalation every year

Forest Divisional Officer,  
Amangal

**District Forest Officer**  
**Ranga Reddy.**

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

FSR Code	Item of work	Unit	Quantit y	As per FSR				Amount (Rs.)
				Rate (Rs.)	Per	Agency allowance 25% (Rs)	Total (Rs.)	
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	83	10.66	1	2.67	13.33	1109.97
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 (4"X7")bag plants)	No's	83	115.19	100		115.19	95.95
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 (4"X7")bag plants)	No's	83	3.85	100		3.85	3.21
02.09.10	Internal transport of bag plants/root trainers to planting points on head loads - b) 15X30 cm (4"X7")bag plants	No's	83	91.82	100	22.96	114.78	95.61
02.09.13	Planting in 45 cm size cubic pit Pit	No's	83	437.48	100	109.37	546.85	455.53
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	2321.40	1	580.35	2901.75	2901.75
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	656.25	100	164.06	820.31	13666.41
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	124.27	100	31.07	155.34	2587.92
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	6.14	1	1.54	7.68	767.50
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	3650.90	1	912.73	4563.63	2738.18
<b>Unit Rate for 2020-21</b>								<b>24422</b>

10% escalation every year

Forest Divisional Officer,  
Amangal

**District Forest Officer**  
Ranga Reddy.

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

FSR Code	Item of work			As per FSR				Amount (Rs.)	
		Unit	Quantity	Rate (Rs.)	Per	Agency allowance 25% (Rs)			
						Total (Rs.)			
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	656.25	100	164.06	820.31	13666.41	
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	124.27	100	31.07	155.34	2587.92	
<b>03.05.01</b>	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	Rmt	100	608.27	100	152.07	760.34	760.34	
<b>Unit Rate for 2020-21</b>								<b>17015</b>	

10% escalation every year

Forest Divisional Officer,  
Amangal

District Forest Officer  
Ranga Reddy.

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

FSR Code	Item of work	Unit Rate per Ha						Amount (Rs.)
		Unit	Quantity	As per FSR				
				Rate (Rs.)	Per	Agency allowance 25% (Rs)	Total (Rs.)	
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	656.25	100	164.06	820.31	13666.41
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	124.27	100	31.07	155.34	2587.92
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	608.27	100	152.07	760.34	760.34
<b>Unit Rate for 2020-21</b>								17015
10% escalation every year								

Forest Divisional Officer,  
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**Unit Cost for 5th Year Maintenance of NTSH Plantation (3m x 2m) SMM per Ha**

FSR Code	Item of work	Unit	Quantity	Unit Rate per Ha				Amount (Rs.)
				As per FSR	Rate (Rs.)	Per	Agency allowance 25% (Rs.)	
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	656.25	100	164.06	820.31	13666.41
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	608.27	100	152.07	760.34	760.34
<b>Unit Rate for 2020-21</b>								<b>14427</b>

10% escalation every year

Forest Divisional Officer,  
Amangal

District Forest Officer  
Ranga Reddy.

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

FSR Code	Item of work	Unit	Quantity	As per FSR				Amount (Rs.)
				Rate (Rs.)	Per	Agency allowance 25% (Rs)	Total (Rs.)	
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	124.27	100	31.07	155.34	2587.92
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	608.27	100	152.07	760.34	760.34
<b>Unit Rate for 2020-21</b>								<b>3348</b>

10% escalation every year

Forest Divisional Officer,  
AmangalDistrict Forest Officer  
Ranga Reddy.

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

FSR Code	Item of work	Unit	Quantit y	As per FSR				Amount (Rs.)
				Rate (Rs.)	Per	Agency allowence 25% (Rs)	Total (Rs.)	
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	656.25	100	164.06	820.31	13666.41
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	608.27	100	152.07	760.34	760.34
<b>Unit Rate for 2020-21</b>								<b>14427</b>

10% escalation every year

Forest Divisional Officer,  
Amangal

District Forest Officer  
Ranga Reddy.

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

FSR Code	Item of work	Unit	Quantity	Unit Rate per Ha				Amount (Rs.)
				As per FSR				
				Rate (Rs.)	Per	Agency allowance 25% (Rs)		
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	124.27	100	31.07	155.34	2587.92
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	608.27	100	152.07	760.34	760.34
<b>Unit Rate for 2020-21</b>								<b>3348</b>
10% escalation every year								

Forest Divisional Officer,  
Amangal

District Forest Officer  
Ranga Reddy.

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

FSR Code	Item of work	Unit	Quantit y	Unit Rate per Ha				Amount (Rs.)
				As per FSR				
				Rate (Rs.)	Per	Agency allowence 25% (Rs)		
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	656.25	100	164.06	820.31	13666.41
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	608.27	100	152.07	760.34	760.34
<b>Unit Rate for 2020-21</b>								<b>14427</b>
10% escalation every year								

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Amangal

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

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FSR Code	Item of work	Unit	Quantity	Unit Rate per Ha				Amount (Rs.)
				Rate (Rs.)	Per	Agency allowance 25% (Rs)		
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	124.27	100	31.07	155.34	2587.92
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	608.27	100	152.07	760.34	760.34
<b>Unit Rate for 2020-21</b>								<b>3348</b>

10% escalation every year

Forest Divisional Officer,  
Amangal

District Forest Officer  
Ranga Reddy.