

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	4	177.14	1	44.28	221.42	885.68
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	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
		Total							
		cost of each plant (1100 Plants per bed)							1652.87
		10% escalation every year							1.5026


 District Forest Officer
 Bhadravri Kothagudem District

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	4	286.76	1	71.69	358.44	1433.78
2	01.04.02	Weeding once during maintenance year	Bed/weeding	1	52.66	1	13.16	65.82	65.82
3	01.04.03	Shifting, grading and rearrangement in beds	Bed/shifting	2	245.96	1	61.49	307.45	614.91
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 surroundings of Nursery	Bed	1	28.98	1	7.25	36.23	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 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	9194.85	100	0.00	9194.85	367.79
8	01.04.09	Electricity charges			500.00		0.00	500.00	500.00
		Total							3063.52
9	01.04.08	Contingencies @ 5%							153.18
		2020-21 Total							3216.70
		cost of each plant (1100 Plants per bed)							2.9243
		10% escalation every year							

District Forest Officer
Bhadradi Kothagudem District

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

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 / clay 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.							
	01.03.24	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	147.00	735.00	808.50
	01.03.25	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	3.65	18.25	20.08
	01.03.27	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	1310.47	1441.51
	01.03.33	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	13.16	65.82	131.64
5	01.03.34	Shifting, Grading and rearranging in secondary beds - One Grading in February	Bed	2	245.96	1	61.49	307.45	614.91
	01.03.35	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	1792.55
	01.03.37	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	100	0.00	9194.85	367.79
8		Cost of the ploythene bags							2340.00
9	01.03.39	Electricity charges							500.00
		Total							8046.98
10	01.03.38	Contingencies @ 5%							402.349
		2020-21 Total for 1100 plants							8449.33
		cost of each plant							7.6812
		10% escalation every year							

District Forest Officer
Bhadradi Kothagudem District

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 allowence 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	01.04.01	(a) Manually with rose cans or finely perforated nozzle attached to a hose pipe	Bed	5	286.76	1	71.68875	358.44375	1792.22
2	01.04.02	Weeding the beds during May & July	Bed	2	52.66	1	13.164375	65.821875	131.64
3	01.04.03	Shifting, grading and rearrangement in beds	Bed	1	245.96	1	61.490625	307.453125	307.45
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	100	0.00	9194.85	367.79
		2020-21 Total							2899.11
		cost of each plant (2600 plants per bed)							1.1150
		10% escalation every year							


 District Forest Officer
 Bhadradi Kothagudem District

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)	
		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	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	01.03.03	10 cm x 17.5 cm (4" x 7") size bags of 200 g: 589 bags / kg	Kg	4.41	156.00	1	0.00	156.00	687.96
	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	207.06	1000		207.06	538.36
	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	5.15	1000		5.15	13.39
	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	613.10	1000	153.27	766.37	1992.56
6	01.03.09	Alignment of beds including alignment of inspection paths etc	Bed	1	7.98	1	2.00	9.98	9.98
7	01.03.10	Pricking out seedlings from primary beds and transplanting into polybags	No's	2600	147.74	1000	36.93	184.67	480.14
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	87.89	1000	21.97	109.86	285.63
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	71.69	358.44	1433.78
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	13.16	65.82	263.29
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	61.49	307.45	307.45

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)	
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	17.46	87.28	87.28
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	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 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	100	0.00	9194.85	367.79
16		Electricity charges					0.00	300.00	300.00
		Total							6956.47
17		Add casualty 10%							751.09
		2020-21 Grand Total							7707.56
		cost of each plant (2600 plants per bed)							4.5339

10% escalation every year

District Forest Officer
Bhadradi Kothagudem District

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	1.30	6.50	6.50
3	01.01.03	Digging soil of the demarcated beds of 1x1x0.30 m size	Bed	40.06	10.01	50.07	50.07
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	7.57	37.87	37.87
5	01.01.05	For every extra km beyond 5 km upto 25 km	Bed	23.00	5.75	28.75	28.75
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 lavelling.	Bed	11.39	2.85	14.24	14.24
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	3.26	16.28	16.28
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 bradcasted - Bigger seeds to be dibbled in lines 1-2 cm apart) and covering the bed to a thickness of 2.5 cm with paddy hay including cost and conveyance	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	18.24	27.37
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
		Total					748.32
		Rasing of seedlings 110% for obtaining 100%				10%	74.83
		Total					823.15
		cost of each plant (2000 plants per bed) - 2020-21					0.4116
		10% escalation every year					

District Forest Officer
Bhadradi Kothagudem District

Unit Cost for Advance Operations for Raising of N.T.S.H. Plantations 3m X 3m (SMM) during 2019-20

FSR Code	Item of work	Unit	Quantity	Unit Rate per 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	1	374.48	0.00	374.48	1	374
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 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	2081.36	520.34	2601.70	1	520
b	Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)	Ha	0.2	3128.53	782.13	3910.66	1	782
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	1837.50	9187.50	1	5513
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	0.4	5184.30	0.00	5184.30	1	2074
b	Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)	Ha	0.3	10034.10	0.00	10034.10	1	3010
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	0.00	13044.80	1	3913
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	1449.03	7245.13	1	2898
b	Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)	Ha	0.4	9197.79	2299.45	11497.24	1	4599
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	2681.16	13405.81	1	2681
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	4094.66	20473.31	1	20473
Unit Rate for 2020 -21								46837
10% escalation every year								

District Forest Officer
Bhadradi Kottagudem District

Unit Rate per 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	1	3056.00	0.00	3056	1	3056
02.09.01	Removing congestion of root suckers and other uprooted material hindering the effective ploughing	Ha	1	1066.07	266.52	1332.58	1	1333
02.09.04	Ø Alignment and staking including demarcation of base line for Misc species with espacement 3mX3m (1111 Nos)	No's	1111	89.36	22.34	111.69	100	1241
02.09.05	ii) Cost of preparation of stakes (2.0 m length) and transportation to site (subject to condition that the seedling height is 1.5m to 2.0m height)	No's	1111	1200.00	300.00	1500.00	100	16665
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	1111	10.66	2.66	13.32	1	14801
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	310.86	1	0
	Transportation of Bag plants / Root trainer plants from nursery site to plantation site including loading and unloading				0	0.00		
02.09.07	b) upto 5 Km lead (15X30 cm (6"X12") bag plants)	No's	1111	115.19	0	115.19	100	1280
02.09.08	b) 5 Km to 25 Km lead (15X30 cm (6"X12") bag plants)	No's	1111	77.00	0	77.00	100	855
02.09.10	Internal transport of bag plants/root trainers to planting points on head loads.				0	0.00		
b	15X30 cm (6"X12") bag plants	No's	1111	91.82	22.96	114.78	100	1275
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	1111	39.27	9.82	49.09	100	545
	(b) Cost of SSP, Chloridine dust or Chloropyriphos	No's	1111	1.00	0.00	1.00	1	1111
Planting Bag Plants								
02.09.13	Planting in 45 cm size cubic pit Pit	No's	1111	437.48	109.37	546.85	100	6076
02.09.14	Watering (one time) immediately after planting if the planting takes place on a non-rainy days and during dry spell a) One critical watering after planting if planting takes place on non-rainy days with the prior written permission of DFO / FDO.	No's	1111	264.86	66.22	331.08	100	7357
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 same as adopted 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	222	5.33	1.33	6.66	1	1479
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 (6"X12") bag plants)	No's	222	192.19	0.00	192.19	100	427
02.09.10	Internal transport of bag plants/root trainers to planting points on head loads - b) 15X30 cm (6"X12") bag plants	No's	222	91.82	22.96	114.78	100	255
02.09.13	Planting in 45 cm size cubic pit Pit	No's	222	437.48	109.37	546.85	100	1214
02.09.16	Cost of DAP @25gm / planting point	No's	1111	1.00	0.00	1.00	1	1111
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	1111	39.27	9.82	49.09	100	545
WEEDING & SOIL WORKING								
02.09.18	a) Circular weeding to a radius of 0.50 m around the plant (during July - Aug)	No's	1111	124.95	31.24	156.19	100	1735
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	1111	656.25	164.06	820.31	100	9114
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	0.00	2321.40	1	2321
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	912.73	4563.63	1	4564
02.09.25	Cost of Protection: (b) For unfenced area: One Casual labour is allowed for plantation more than 10.00 ha but less than 20.00 ha and one more Casual labour is permitted for multiples of 20.00 ha Rs.8757 per month - nine months	per person per month	1	9194.85	0.00	9194.85	Ha	4138
Unit Rate for 2020 -21								
10% escalation every year								82498

District Forest Officer
Bhadrahi Kotebuddeni District

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	Unit Rate per Ha					Amount (Rs.)
			Quantity	As per FSR				
				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	278	10.66	2.66	13.32	1	3703
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 (6"X12")bag plants)	No's	278	115.19	28.80	143.98	100	400
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 (6"X12")bag plants)	No's	278	77.00	19.25	96.25	100	268
02.09.10	Internal transport of bag plants/root trainers to planting points on head loads - b) 15X30 cm (6"X12")bag plants	No's	278	142.01	35.50	177.52	100	493
02.09.13	Planting in 45 cm size cubic pit Pit	No's	278	437.48	109.37	546.85	100	1520
02.09.14	Watering (one time) immediately after planting if the planting takes place on a non-rainy days and during dry spell a) One critical watering after planting if planting takes place on non-rainy days with the prior written permission of DFO / FDO.	No's	0	264.86	66.22	331.08	100	0
02.09.16	Cost of DAP @25gm / planting point-50% of raising cost	No's	1111	0.50		0.50	1	556
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	1111	19.64	4.91	24.54	100	273
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	1111	656.25	164.06	820.31	100	9114
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	912.73	4563.63	1	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	580.35	2901.75	1	2902
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	1111	124.27	31.07	155.33	100	1726
02.10.09	Cost of Protection: (b) For unfenced area: One Casual labour is allowed for plantation more than 10.00 ha but less than 20.00 ha and one more Casual labour is permitted for multiples of 20.00 ha Rs.8757 per month - 12 months	per pers on per mon th	1	9194.85	0.00	9194.85	Ha	5517
Unit Rate for 2020 - 21								29667
10% escalation every year								

10% escalation every year

District Forest Officer
Bhadradi Kothagudem District

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

FSR Code	Item of work	Unit	Unit Rate per Ha					Amount (Rs.)
			Quantit y	As per FSR				
				Rate (Rs.)	Agency allowenc e 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	56	10.66	2.66	13.32	1	746
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 (6"X12")bag plants)	No's	56	115.19	28.80	143.98	100	81
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 (6"X12")bag plants)	No's	56	77.00	19.25	96.25	100	54
02.09.10	Internal transport of bag plants/root trainers to planting points on head loads - b) 15X30 cm (6"X12")bag plants	No's	56	142.01	35.50	177.52	100	99
02.09.13	Planting in 45 cm size cubic pit Pit	No's	56	437.48	109.37	546.85	100	306
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	580.35	2901.75	1	2902
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	1111	656.25	164.06	820.31	100	9114
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	1111	124.27	31.07	155.33	100	1726
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	1.54	7.68	1	768
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	912.73	4563.63	1	2738
02.11.06	Cost of Protection: (b) For unfenced area: One Casual labour is allowed for plantation more than 10.00 ha but less than 20.00 ha and one more Casual labour is permitted for multiples of 20.00 ha Rs.8757 per month - 12 months	per pers on per mon th	1	9194.85	0.00	9194.85	Ha	5517
Unit Rate for 2020 - 21								24051
10% escalation every year								


 District Forest Officer
 Bhadradi Kothagudem District

Unit Cost for 3rd 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 (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	1111	656.25	164.063	820.31	100	9114
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	1111	124.27	31.0669	155.33	100	1726
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	364.96	91.2405	456.20	100	456
02.11.06	Cost of Protection: (b) For unfenced area: One Casual labour is allowed for plantation more than 10.00 ha but less than 20.00 ha and one more Casual labour is permitted for multiples of 20.00 ha Rs.8757 per month - six months	per pers on per mon th	1	9194.85	0.00	9194.85	1	2758
Unit Rate for 2020 - 21								14054

10% escalation every year

District Forest Officer
Bhadradi Kothagudem District

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

Unit Rate per 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	1111	656.25	164.0625	820.31	100	9114
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	1111	124.27	31.06688	155.33	100	1726
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	364.96	91.2405	456.20	100	456
Unit Rate for 2020 - 21								11296
10% escalation every year								

District Forest Officer
Bhadradi Kothagudem District

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

Unit Rate per 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	1111	656.25	164.0625	820.31	100	9114
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	364.96	91.2405	456.20	100	456
Unit Rate for 2020 - 21								9570
10% escalation every year								


District Forest Officer
Bhadradi Kothagudem District

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

FSR Code	Item of work	Unit	Quantity	Unit Rate per Ha				Amount (Rs.)
				As per FSR				
				Rate (Rs.)	Agency allowen ce 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	1111	124.27	31.0669	155.33	100	1726
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	364.96	91.2405	456.20	100	456
Unit Rate for 2020 - 21								2182
10% escalation every year								

District Forest Officer
Bhadradi Kothagudem District

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

Unit Rate per 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	1111	656.25	164.0625	820.31	100	9114
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	364.96	91.2405	456.20	100	456
Unit Rate for 2020 - 21								
10% escalation every year								9570

District Forest Officer
Bhadradi Kothagudem District

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

Unit Rate per 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	1111	124.27	31.066875	155.33	100	1726
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	364.96	91.2405	456.20	100	456
Unit Rate for 2020 - 21								
10% escalation every year								2182

District Forest Officer
Bhadradi Kothagudem District

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

FSR Code	Item of work	Unit Rate per Ha						
		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	1111	656.25	164.0625	820.31	100	9114
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	364.96	91.2405	456.20	100	456
	Unit Rate for 2020 - 21							
	10% escalation every year							9570

District Forest Officer
Bhadradi Kothagudem District

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

Unit Rate per 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 scicature upto 1/3 rd height (to be done during July - Aug)	No's	1111	124.27	31.067	155.33	100	1726
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	364.96	91.241	456.20	100	456
Unit Rate for 2020 - 21								
10% escalation every year								2182


 District Forest Officer
 Bhadradi Kothagudem District