#### UNIT COST FOR RAISING OF PRIMARY BEDS

SI. No.	FSR-2020- 21 Code	Item of work	Unit	FSR Rate (Rs.)	MAA 20% (Rs)	Total Rate (Rs.)	Amount (Rs.)
1	01.00.00	species including bamboo - 50 primary beds for 1 lakt nursery is permitted. Primary beds should start from Jan May depending on availability of fresh seeds. Once				,,	1
		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.	i		-	* 1 × 1	
2	01.01.01	Preparation of New Site by clearing jungle growth uprootal of stumps and removal of surface stones pebbles etc.		5.20	1.30	6.50	6.5
3	01.01.03	Digging soil of the demarcated beds of 1x1x0.30 m size	Bed	40.06	10.01	50.07	50.0
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	Pod	30.29	7.57	37.87	37.8
5	01.01.05	For every extra km beyond 5 km upto 25 km	Bed	23.00	5.75	28.75	28.7
6	01.01.06	Cost and transport of 0.025 cum FYM	Bed	26.04	0.00	26.04	26.0
7	01.01.07	Mixing of sandy soil and FYM in 5:1 proportion (50 % of volume of bed) with exacavated soil and refilling the bed and lavelling.		11.39	2.85	14.24	14.2
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	16.2
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		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		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.	30 Days	14.60	3.65	18.24	18.24
13	01.01.15	Cost of chemicals, fungicide and insecticide	Bed	200.00	0.00	200.00	
14		Electrical Charges	beu	200.00	0.00	200.00	200.00
		Total		200.00	0.00	200.00	200.00
		Rasing of seedlings 110% for obtaining 100%				100/	1114.19
		Total				10%	111.42
1/2		cost of each plant (2000 plants per bed) - 2020-21					1,225.61 0.6128

#### UNIT COST FOR BAG PLANT NURSERY (6"x8" size bags)

SI. No.	FSR-2020-	Manus of week				As	s per FSR		- NSV-5
SI. NO.	21 Code	Item of work		Quantity	Rate (Rs)	Per	MAA 20% (Rs)	Total (Rs)	Amount (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.(6"x8" size per bed 1100 bags)							240
		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
X u		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.				ii ii	e v		
2	01.03.03	15 cm x 20 cm (6" x 8") size bags of 250 g:	Kg	4.40	165.00	1	0.00	165.00	726.00
	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.						103.00	720.00
	01.03.05	Distance upto 5 km							Α'
3		15 cm x 20 cm (6" x 8") size bags: 1100 bags / bed	No's	1100	F20.00	1000			of the
	01.03.06	For every extra km beyond 5 km upto 25 km	INO S	1100	529.99	1000		529.99	582.99
4	a	15 cm x 20 cm (6" x 8") = 1.433 cum vol. for 1000 bags	No's	1100	263.60	1000		263.60	289.96
5	01.03.07	Cost of chemicals (Thimmet)	No's	H 91					5000.00
Harris Harris		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.							5000.00
6	С	15 cm x 20 cm (6" x 8") size bags: 1100 bags / bed	No's	1100	1048.37	1000	262.09	1310.46	1441.51
6		Allignment of beds including allignment of inspection paths etc	Bed	1	7.98	1	2.00	9.98	9.98
7		Pricking out seedlings from primary beds and transplanting into polybags	No's	1100	147.74	1000	36.93	184.67	203.14
8	2.	Sowing / dibbling of pretreated seeds (e.g. Yegisa, Nalamadi, Yerumaddi etc.) directly into bags including cost of treatment	No's	1100	87.89	1000	21.97	109.86	120.84
9		Watering the plants (6 Months) twice a day from Oct- March - a) Manually with rose cans or finely perforated nozzle attached to a hose pipe	Bed	12	286.76	1	71.69	358.44	4301.33
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
	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	3	245.96	1	61.49	307.45	922.36
12	1	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

	FSR-2020-	ltem of work							
SI. No.	FSR-2020- 21 Code		Unit	Quantity	Rate (Rs)	Per	MAA 20% (Rs)	Total (Rs)	Amount (Rs.)
13	01.03.16	Cost of foliar nutritient formulations like multiplex or NPK-19:19; fungicides and insecticides from July to Oct.	Bed	1	5000.00	1	0.00	5000.00	5000.00
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 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 bedsor 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	9 . 4	Application of fertilizers (Neem Cake)					- 11		3000.00
17		Electricity charges					0.00	2000.00	2000.00
H 52	7	Total					0.00	2000.00	24471.33
17		Add casualty 10%							2447.13
25 = 1		2020-21 Grand Total						-	26918.47
		cost of each plant (1100 plants per bed)							24.4713

10% escalation every year

nt	FSR-2019-				Lenin	A	s per FSR		
SI. No.	20 Code	Item of work	Unit	Quantity	Rate (Rs)	Per	MAA 20%	Total (Rs)	Amount (R
		CONVERSION of Root Trainer plants or 4"x7" or 5"x9" or 6"x8" 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).					(Rs)		
		Cost and Transport of ingredients for Potting Mixture: Red Soil, tank-silt / claey 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.	< 5				- Ti		
	01.03.21	Transportation of soil mixture ingredients							
1	h	Distance up to 5 km 6" x 8" to 9" x 11" polybags (4.717 - 1.433 = 3.284 cum)							
		2	No	500	1537.40	1000	0.00	1537.40	768
	01.03.22	Transportation of soil mixture ingredients more than 5 km distance and upto 25 km distance		ELEN.					
2	i	6" x 8" to 9" x 11" polybags (4.717 - 1.433 = 3.284 cum)	No	500	603.20	1000	0.00	603.20	301.
	01.03.24	Preparation of Potting Mixture by powdering of various ingredients, sieving and mixing them in prescribed proportion; opening of bags and filling with potting mixture partially, tearing the polybag plants and repotting them inside bigger bags and filling the rest of bags; gently pressing the same with finger tips and arranging in beds of 10x1 m size (6"x12" size: 1100 bag plants / bed and 8"x12" size": 800 bag plants per bed)					- 2		
3	h	6" x 8" to 9" x 11" polybags (4.717 - 1.433 = 3.284 cum)	.No	500	2165.28	1000	541.32	2706.60	1353
-	01.03.30	Weeding the plants (1100 no. of 6"x12"bags; 800 no. of 8"x12" bags; 500 no. of 9"x12"and 400 no. of 10"x16" bags) from April - March: 4 weedings							
4		Weeding the plants (4 weedings)	Bed	4	52.66	1	13.16	65.82	263.
5	01.03.31	Shifting, Grading and rearranging in secondary beds	Bed	3	245.96	1	61.49	307.45	922
	-	Watering the plants manually twice a day (from Novemebr - March) with rose spray or finely perforated nozzle attached to a hose pipe.							
6	а	Manually with rose spray or finely perforated nozzle attached to a hose pipe from April to March	Bed	12	286.81	1	71.70	358.51	4302.
	-	Cost of foliar nutritient formulations like multiplex or NPK-19:19:19; fungicides and insecticides from July to Oct.							5000.
7		Cost of Protection: One Nursery Watcher is allowed up to 1 lakh RT nursery or 100 secondary beds of polybags / 100 Teak beds of 10 x 1 m size or combination of both. One additional Nursery Watcher is permitted for nurseries having more than 1 lakh upto 3 lakh RT seedlings or more than 100 upto 300 secondray beds or Teak beds of 10 x 1 m size or combination of both. For more than 3 lakh RT or 300 secondary beds of Teak bedsor 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	12	9194.85	100	0.00	9194.85	1103.:
8		Cost of the ploythene bags							3000.0
9	01.03.39	Electricity charges		A DO					2000.0
10	01.03.38	Contingencies @ 5%	-			1			19014.7
		2020-21 Total for 500 plants					1		950.73
	- 0	cost of each plant		1000000	10000	-		- X	19965.4

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

C1 A1	FSR-2019-20				As per FSR				
Si. No.	Code	Item of work	Unit	Quantity	Rate (Rs.)	Per	MAA 20% (Rs)	Total (Rs.)	Amount (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)	E. 17-1						
	01.04.01	Watering polybag secondary beds twice a day for 4 months							
1	а	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	65.8
3	01.04.03	Shifting, grading and rearrangement in beds	Bed/shifting	2	245.96	1	61.49	307.45	614.9
4	01.04.05	Cost of foliar nutritient formulations like multiplex or NPK-19:19:19; fungicides and insecticides from April to August		1	2500.00	1	0.00	2500.00	2500.00
	01.04.06	Cowdung Slurry application (One can apply chemical foliar spray or apply cowdung slurry - not both)							
5	а	Cost and transportation of fresh cowdung	As per actuals	1	500.00	1	0.00	500.00	500.00
6	01.04.07	Weeding in the space between the beds, inspection path and sorroundings of Nursery	- Bed	1	28.98	1	7.25	36.23	36.23
7		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 bedsor 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			2000.00	$\rightarrow$	0.00	2000.00	2000.00
		Total			2000.00	$\rightarrow$	0.00	2000.00	2000.00
9	01.04.08	Contingencies @ 5%				-			7518.52
		2020-21 Total				-			375.93
		cost of each plant (500 Plants per bed)				-			7894.45 15.7889

10% escalation every year

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

SI. No.	FSR-2019-	Item of work	Unit	Overable		A	s per FSR		1 9 8
	20 Code	ode		Quantity	Rate (Rs.)	Per	MAA 20% (Rs)	Total (Rs.)	Amount (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	8	177.14	1	44.28	221.42	1771.35
2	01.05.02	Shifting, grading and rearrangement in beds	Bed/weeding	2	245.96	1	61.49	307.45	307.45
3		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 bedsor 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.	month	8	9194.85	100	0.00	9194.85	735.59
		Electricity charges			5000.00		0.00	5000.00	5000.00
	54.1.5	Total							7814.39
		cost of each plant (500 Plants per bed)							15.6288

10% escalation every year

# 19

## Unit Cost for Advance Operations for Raising of SMM Plantation 3m X 3m. (SMM)

Unit Rate per Ha

			Onit Rate pe	Offic Rate per Ha							
FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)						
02.08.01	Survey with GPS (Only staff to carry out) (Staff to carryout GPS Survey. One manday is allowed for assistance)	1	374.48	Plantati on	374						
02.08.02	Clearing unsalable unwanted jungle growth										
	(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.	1	7350.00	На	7350						
02.08.03	Uprootal of stumps										
	(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.	1	13044.80	На	13045						
02.08.04	Collection and Removal of uprooted stumps of all sizes										
	(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.	1	10724.65	На	10725						
	Misc Exp			-	1506						
	Unit Rate for 2020 -21				33000						

10% escalation every year

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

Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	3	4	5	6
02.09.02 (b)	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 UNTILLED AREA) - to be completed by 15 th of June (b) Hard soils like gravel and morum		5109.90	На	511
02.09.01	Removing congestion of root suckers and other uprooted material hindering the effective ploughing	1	1066.07	На	106
(c)	Allignment & Stacking including demarcation of base line: (c) 3X3 m espacement = 1111 planting points		118.91	100	132
(i)	i) Cost of preparation of stakes (0.45 m length) and transportation to site	1111	56.96	100	63.
(Ii)	ii) Cost of preparation of stakes (2.0 m length) and transportation to site (subject to condition that the seedling height is 1.5m to 2.0m height) which includes cost of stake, coaltar application at the bottom of the stake (30 cm), transportation, fixing and tying.	1111	1200.00	100	1333
02.09.06	Digging of Pits in Ploughed Areas in June - July by adopting 50% of original rate of digging of pits of ordinary soil b) 45 cm3 pits	1111	10.66	1	11843
02.09.07	Transportation of Planting Stock (including loading and unloading) up to a distance of 5 km (9"x11" bags size rates aproved vide the Prl.CCF, HoF, Hyd, Rc.No.2563/2020/WLR-2, Dt.13.07.2020)	1111	243.66	100	2707
02.09.08	Transportation of Planting Stock (including loading and unloading) more than 5 km distance and upto 25 km distance: (9"x11" bags size rates aproved vide the Prl.CCF, HoF, Hyd, Rc.No.2563/2020/WLR-2, Dt.13.07.2020)	1111	171.20	100	1902
02.09.10 (c)	Internal transportation to planting points on head loads (9"x11" bags size rates aproved vide the Prl.CCF, HoF, Hyd, Rc.No.2563/2020/WLR-2, Dt.13.07.2020)	1111	164.84	100	1831
	Fortification of seedling with insecticide and treating pits with SSP				
7	(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	1111	39.27	100	436
02.09.11 (b)	(b) Cost of SSP, Chloridine dust or Chloropyriphos	1111	As per a	ictuals	5000
(b)	Planting in various size pits: b) Planting in 60 cm3 Pit	1111	437.48	100	4860
02.09.14	Watering (one time) immediately after planting if the planting takes place on a non-rainy days and during dry spell				
(a)	<ul> <li>a) One critical watering after planting if planting takes place on non-rainy days with the prior written permission of DFO / FDO.</li> </ul>	1111 x 1 watering	264.86	100	2943
(b)	Watering to plants in Non-Rainy days i.e., Jan to March @ 4 waterings per month: 12 waterings  Note: The Plantation in-charge Officer should record the watering operations in Watering Watch Register and MB on the same day of watering.	1111 x 12 waterings	264.86	100	35311
02.09.15	Replacement of Casualties: 20% during Raising Year. (In case of Eucalyptus: 10% during raising and no casualty replacement for further maintenance). The caualty replacement should be done in 3 stages at an interval of 15 days immediately after planting during raising year. (1111X20%=222 Nos)	50% of unit rate of original pitting during raising year and 100% during maint. year. Planting, transportation and internal transportation same as adopted during raising year		- 1	
1	Digging of Pits in Ploughed Areas in June - July by adopting 50% of original rate of digging of pits of ordinary soil b) 45 cm3 pits	222	5.33	1	1183

Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	3	4	5	6
02.09.12 (b)	Planting in various size pits: b) Planting in 60 cm3 Pit	222	437.48	100	97
02.09.07	Transportation of Planting Stock (including loading and unloading) up to a distance of 5 km (9"x11" bags size rates aproved vide the Prl.CCF, HoF, Hyd. Rc.No.2563/2020/WLR-2, Dt.13.07.2020)		243.66	100	54
02.09.08	Transportation of Planting Stock (including loading and unloading) more than 5 km distance and upto 25 km distance: (9"x11" bags size rates aproved vide the Prl.CCF, HoF, Hyd, Rc.No.2563/2020/WLR-2, Dt.13.07.2020)		153.00	100	34
02.09.10 (c)	Internal transportation to planting points on head loads (9"x11" bags size rates aproved vide the Prl.CCF, HoF, Hyd, Rc.No.2563/2020/WLR-2, Dt.13.07.2020)	222	164.84	100	366
02.09.16	Cost of DAP, Thimmet etc.,	1111	As per	actuals	5000
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.		39.27	100	436
02.09.18	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting	3times	124.95	100	4165
02.09.19	Circular weeding cum Deep Soil working to a redius of 0.5m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (during Nov - Dec)	1111	656.25	100	7291
02.09.20 (b)	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: (b) Hard gravelly soil		3184.50	1	3185
02.09.21	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during October)	1111	124.22	100	1380
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 interploughing. (Already deducted un workable area)	1	3650.90	1	3651
02.09.23	Enumeration of row-wise survival and average growth twicw in raising year - Number of plants planted and Number surviving (to be undertaken during May & Dec.) and entered in Plantation Journal. Minimum stocking of 90% and average minimum height of 1.5 m at the end of raising year.  Contingencies provision for Raising of plantaitons:				0
02.09.24		1	2000		2000
(i) 02.09.24	i) Fixing of Plantation Boards and Corner Stones (4 locations)	1	2000	each	2000
(ii)	ii) Contingencies and Miscellaneous				3667
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 - nine months	per person per month	9194.85	PM	4138
	Unit Rate for 2020 -21				126610
	10% escalation every year				220010

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

1111x25%=278 Nos Unit Rate per Ha **FSR Code** Item of work Rate (Rs.) Qty Per Amount (Rs.) 6 02.10.01 Replacement of Casualties 25% during Raising & 25% in 1st Pitting, planting, transportation year (In case oif Eucalyptus 10% during raising and no andinternal transportation same as casuality replacement for further maintenance) - 25 % proposed 02.09.06 Digging of Pits in Ploughed Areas in June - July by adopting 278 5.330 1 1482 50% of original rate of digging of pits of ordinary soil b) 45 cm3 pits 02.09.07 Transportation up 5km 278 243.66 100 677 02.09.08 Transportation beyond 5 Km (25 - 5) = 20 KM 278 171.20 100 476 Internal Transportation 02.09.10 278 164.84 100 458 02.09.12 Planting in 45 cm<sup>3</sup> Pit 278 437.48 100 1216 02.09.14 1111x 246.86 100 65823 Watering to plants in Non-Rainy days i.e., April to June and (b) 24times Jan to March @ 4 waterings per month: 24 waterings 02.09.16 Cost of DAP, Thimmet etc., 1111 As per actuals 5000 02.10.02 Weeding and saucer formation to a radius of 0.5 mts around 1111 x 124.95 100 6941 the plant immediately after planting 5times 02.10.03 Circular weeding cum Deep Soil working to a redius of 0.5m 1111 656.25 100 7291 and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (during Nov - Dec) 02.10.04 Uprootal of Mahaveera (Hyptis suaveolens ) weed with prior 3650.90 Ha 3651 written approval of Circle Head and taking photograph before and after uprootal. The weed removal shall be completed before August-end (before flowering) at any cost before inter-ploughing. 02.10.05 Inter-ploughing (during September) the effective plantation 2321.40 На 2321 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. Pruning of flower branch initials of Timber and NTFP species 02.10.06 1111 124.27 100 1381 by scicature upto 1/3 rd height (to be done during July -Contingencies provision for Raising of plantaitons: 02.10.08 (i) 1 2000 i) Fixing of Plantation Boards and Corner Stones each 2000 02.10.08 ii) Contingencies and Miscellaneous 1096 (ii) Cost of Protection: (b) For unfenced area: One Casual labour is 02.10.09 9194.85 PM 5517 allowed for plantation more than 10.00 ha but less than 20.00 ha and per month one more Casual labour is permitted for multiples of 20.00 ha - 12 months Unit Rate for 2020 -21 105330

10% escalation every year

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

1111x25%=278 Nos

Unit Rate per Ha

	1111x25%=278 Nos	Unit Rate	Unit Rate per Ha						
FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)				
1	2	4	5	6	7				
02.10.01	Replacement of Casualties 25% during Raising & 25% in 1st year (In case oif Eucalyptus 10% during raising and no casuality replacement for further maintenance) - 25 % proposed	andir	ting,planting nternaltransp						
02.09.06	Digging of Pits in Ploughed Areas in June - July by adopting 50% of original rate of digging of pits of ordinary soil b) 45 cm3 pits	1	5.330	1	148				
02.09.07	Transportation up 5km	278	243.66	100	67				
02.09.08	Transportation beyond 5 Km (25 - 5) = 20 KM	278	171.20	100	47				
02.09.10	Internal Transportation	278	164.84	100	45				
02.09.12	Planting in 45 cm <sup>3</sup> Pit	278	437.48	100	121				
02.09.14 (b)	Watering to plants in Non-Rainy days i.e., April to June and Jan to March @ 4 waterings per month: 24 waterings	1111x 24times	246.86	100	6582				
02.09.16	Cost of DAP, Fertlizer, insecticides, Thimmet etc.,	1111	As per a	ctuals	500				
02.10.02	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) duringJune.		124.95	100	694				
02.10.03	Circular weeding cum Deep Soil working to a redius of 0.5m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (during Nov - Dec)	1111	656.25	100	729				
02.10.04	Uprootal of Mahaveera (Hyptis suaveolens ) weed with prior written approval of Circle Head and taking photograph before and after uprootal. The weed removal shall be completed before August-end (before flowering) at any cost before inter-ploughing.	1	3650.90	На	365				
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.		2321.40	На	232				
02.10.06	Pruning of flower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July -	1111	124.27	100	138:				
	Contingencies provision for Raising of plantaitons:								
2.10.08 (i)	i) Fixing of Plantation Boards and Corner Stones	1	2000	each	2000				
02.10.08 (ii)	ii) Contingencies and Miscellaneous				1066				
	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 - 12 months	per month	9194.85	PM	5517				
HELL BOX 1	Unit Rate for 2020 -21				105300				
	10% escalation every year								

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

		Rate pe	r Ha		
FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
02.09.14 (b)	Watering to plants in Non-Rainy days i.e., April to June and Jan to March @ 4 waterings per month: 24 waterings	1111x 24time s	246.86	100	65823
02.10.02	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) duringJune.		124.95	100	694:
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)		656.25	100	729:
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)		108.35	100	1204
02.10.04	Uprootal of Mahaveera (Hyptis suaveolens) weed with prior written approval of Circle Head and taking photograph before and after uprootal. The weed removal shall be completed before August-end (before flowering) at any cost before inter-ploughing.	1	3650.90	На	3651
02.10.05	Inter-ploughing (during September) the effective plantation area (excluding unsuitable patches) across the slope to a depth of 30 cm with Heavyduty Tractor of 55 HP and above with Firm Mould Board (FMB) plough.	1	2321.40	На	2321
02.09.16	Cost of DAP, Fertlizer, insecticides, Thimmet etc.,	1111	As per ac	tuals	5000
	Contingencies provision for Raising of plantaitons:		2.4		
)2.11.05 (i)	i) Fixing of Plantation Boards and Corner Stones	1	2000	each	2000
02.11.05 (ii)	ii) Contingencies and Miscellaneous				902
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 - 12 months	per person per month	9194.85	PM	5517
	Unit Rate for 2020 -21				100650
	10% escalation every year	/			100030

10% escalation every year

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

	Unit Rate per Ha							
FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)			
1	2	4	5	6	7			
02.10.02	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) duringJune.		124.95	100	6941			
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)	P 2 1	656.25	100	7291			
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)		108.35	100	1204			
02.09.16	Cost of DAP, Fertlizer, insecticides, Thimmet etc.,	1111	As per ac	tuals	5000			
02.10.04	Uprootal of Mahaveera (Hyptis suaveolens) weed with prior written approval of Circle Head and taking photograph before and after uprootal. The weed removal shall be completed before August-end (before flowering) at any cost before inter-ploughing.	1	3650.90	На	3651			
02.10.05	Inter-ploughing (during September) the effective plantation area (excluding unsuitable patches) across the slope to a depth of 30 cm with Heavyduty Tractor of 55 HP and above with Firm Mould Board (FMB) plough.	1	2321.40	На	2321			
	Contingencies provision for Raising of plantaitons:							
02.11.05 (i)	i) Fixing of Plantation Boards and Corner Stones	1	2000	each	2000			
02.11.05 (ii)	ii) Contingencies and Miscellaneous				1075			
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 - 12 months	per person per month	9194.85	PM	5517			
	Unit Rate for 2020 -21				35000			
	10% escalation every year	7			55000			

10% escalation every year

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

FSR Code	Unit Rate per Ha					
	Tom or work	Qty	Rate (Rs.)	Per	Amount (Rs.)	
1 02 10 02	2	4	5	6	7	
02.10.02	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) duringJune.	1111 x 5times	124.95	100	694	
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)		656.25	100	729	
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)	1111	108.35	100	1204	
02.09.16	Cost of DAP, Fertlizer, insecticides, Thimmet etc.,	1111	As per actuals		5000	
02.10.04	Uprootal of Mahaveera (Hyptis suaveolens) weed with prior written approval of Circle Head and taking photograph before and after uprootal. The weed removal shall be completed before August-end (before flowering) at any cost before inter-ploughing.	1	3650.90	На	3651	
02.10.05	Inter-ploughing (during September) the effective plantation area (excluding unsuitable patches) across the slope to a depth of 30 cm with Heavyduty Tractor of 55 HP and above with Firm Mould Board (FMB) plough.	1	2321.40	На	2321	
	Contingencies provision for Raising of plantaitons:					
)2.11.05 (i)	i) Fixing of Plantation Boards and Corner Stones	1	2000	each	2000	
07 11 05 1	ii) Contingencies and Miscellaneous				1075	
	permitted for multiples of 20.00 has 12	per person per month	9194.85	PM	5517	
	Unit Rate for 2020 -21					
	10% escalation every year		W. I		35000	

10% escalation every year

District Forest Officer

9709

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

Unit Rate per Ha **FSR Code** Item of work Qty Rate (Rs.) Per Amount (Rs.) 4 5 6 02.11.03 Pruning of flower branch initials of Timber and 1111 108.35 100 1204 NTFP species by scicature upto 1/3 rd height (to be done during July - Aug) Contingencies provision for Raising plantaitons: 02.11.05 (i) 1 2000 i) Fixing of Plantation Boards and Corner Stones each 2000 02.11.05 ii) Contingencies and Miscellaneous (with in 3% 988 (ii) of the estimate cost subject to ceiling of Rs. 3,000/-) 02.11.06 Cost of Protection: (b) For unfenced area: One Casual 9194.85 per PM 5517 labour is allowed for plantation more than 10.00 ha but person less than 20.00 ha and one more Casual labour is per permitted for multiples of 20.00 ha - 12 months month Unit Rate for 2020 -21

10% escalation every year

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

Unit Rate per Ha

		Onicita	ite per ma		
FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
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)		656.25	100	7291
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)	1111	108.35	100	1204
	Contingencies provision for Raising of plantaitons:				
02.11.05 (i)	i) Fixing of Plantation Boards and Corner Stones	1	2000	each	2000
02.11.05 (ii)	ii) Contingencies and Miscellaneous				988
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 - 12 months	per person per month	9194.85	PM	5517
	Unit Rate for 2020 -21				17000

10% escalation every year

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

Unit Rate per Ha

	Onit Rate per Ha				
FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
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)	1111	108.35	100	1204
	Contingencies provision for Raising of plantaitons:				
02.11.05 (i)	i) Fixing of Plantation Boards and Corner Stones	1	2000	each	2000
(ii)	ii) Contingencies and Miscellaneous (with in 3% of the estimate cost subject to ceiling of Rs. 3,000/-)				1279
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 - 12 months	per person per month	9194.85	PM	5517
	Unit Rate for 2020 -21				10000

10% escalation every year

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

Unit Rate per Ha

		Unit ita	ite per na		
FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
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)		656.25	100	7291
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)		108.35	100	1204
	Contingencies provision for Raising of plantaitons:	,		1	1.
02.11.05 (i)	i) Fixing of Plantation Boards and Corner Stones	1	2000	each	2000
02.11.05 (ii)	ii) Contingencies and Miscellaneous				988
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 - 12 months	per person per month	9194.85	PM	5517
	Unit Rate for 2020 -21				17000

10% escalation every year

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

Unit Rate per Ha

Unit kate per Ha				
Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
2	4	-5	6	7
NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)	1111	108.35	100	1204
Contingencies provision for Raising of plantaitons:				
i) Fixing of Plantation Boards and Corner Stones	1	2000	each	2000
ii) Contingencies and Miscellaneous (with in 3% of the estimate cost subject to ceiling of Rs. 3,000/-)				1279
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 - 12 months	per person per month	9194.85	PM	5517
Unit Rate for 2020 -21			-	10000
	Pruning of flower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)  Contingencies provision for Raising of plantaitons:  i) Fixing of Plantation Boards and Corner Stones  ii) Contingencies and Miscellaneous (with in 3% of the estimate cost subject to ceiling of Rs. 3,000/-)  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 - 12 months	2 4 Pruning of flower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)  Contingencies provision for Raising of plantaitons:  i) Fixing of Plantation Boards and Corner Stones  ii) Contingencies and Miscellaneous (with in 3% of the estimate cost subject to ceiling of Rs. 3,000/-)  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 per month	Item of work  2 4 5 Pruning of flower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)  Contingencies provision for Raising of plantaitons:  i) Fixing of Plantation Boards and Corner Stones  ii) Contingencies and Miscellaneous (with in 3% of the estimate cost subject to ceiling of Rs. 3,000/-)  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 per month	Item of work  2 4 5 6 Pruning of flower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)  Contingencies provision for Raising of plantaitons:  i) Fixing of Plantation Boards and Corner Stones  ii) Contingencies and Miscellaneous (with in 3% of the estimate cost subject to ceiling of Rs. 3,000/-)  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 - 12 months  Per  4 5 6 11111 108.35 100  2000 each  9194.85 PM

10% escalation every year