Unit Cost for 1st 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
02.10.01	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	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 60 cm cube size pits in Ploughed Areas in June - July by adopting 50% of original rate of digging of pits of ordinary soil - Half of the rate of Rs.9.65 *1.333*1.333*1.333 (Rate for 45 cm cube pit - Rs.9.65 per pit)	278	11.43	1	3177
02.09.07	Transportation © upto 5 km lead (20X30 cm (8"X12") bag plants)	278	190.84	100	531
02.09.08	Transportation © 5 km to 25 km lead (20X30 cm (8"X12") bag plants)	278	148.60	100	413
02.09.10	Internal transportation to planting points on head loads - © 20X30 cm (8"X12") bag plants	278	128.79	100	358
02.09.13	Planting in 60 cm cubic Pit (for 45 cm cubic pit - Rs.396.80)	278	939.86	100	2613
02.15.13	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)- **3 waterings**	1111	720.72	100	8007
02.09.16	Cost of DAP @25gm / planting point	1111	1.00	1	1111
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 & closing. -	1111	35.62	100	396
02.10.02	**Circular weeding** to a radius of 0.50 m around the plant during raising year (July - Aug)	1111	113.34	100	1259
02.10.03	**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	1111	595.23	100	6613
02.10.04	Uprootal of Mahaveera (70% of the area)	0.7	3311.47	Ha	2318
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.	1	2253.79	Ha	2254
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 - Aug)	1111	112.68	100	1252
02.10.09	**Cost of Protection**: One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers shall be pasted in respective Plantation Journal. Every month payment to be made after satisfaction by Plantation-in-charge that fence is in proper condition and entry of grazing animals is stopped. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival at the end of raising year. Rs.8340 per month x 12 months / 20 ha	1	5004.00	Ha	5004
	Unit Rate for 2018 -19				**35306**

4/1/19

Forest Divisional Officer
Mancherial

4/1/19

Unit Cost for 2nd 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
02.10.01	Replacement of Casualties 25% during Raising & 25% in 1st year (In case oif Eucalyptus 10% during raising and no casuality replacement for further maintenance) **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 60 cm cube size pits in Ploughed Areas in June - July by adopting 50% of original rate of digging of pits of ordinary soil - Half of the rate of Rs.9.65 *1.333*1.333*1.333 (Rate for 45 cm cube pit - Rs.9.65 per pit)	56	11.428	1	640
02.09.07	Transportation © upto 5 km lead (20X30 cm (8"X12") bag plants)	56	190.84	100	107
02.09.08	Transportation © 5 km to 25 km lead (20X30 cm (8"X12") bag plants)	56	148.60	100	83
02.09.10	Internal transportation to planting points on head loads - © 20X30 cm (8"X12") bag plants	56	128.79	100	72
02.09.13	Planting in 60 cm cubic Pit (for 45 cm cubic pit - Rs.396.80)	56	939.86	100	526
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.	1	2253.79	Ha	2254
02.11.01	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)	1111	595.23	100	6613.00
02.11.02	Pruning of flower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Auf)	1111	112.68	100	1252.00
02.10.04	Uprootal of Mahaveera (60% of the area)	0.6	3311.47	Ha	1987
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.	100	5.55	Rmt	555
02.11.05	**Cost of Protection**: One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers shall be pasted in respective Plantation Journal. Every month payment to be made after satisfaction by Plantation-in-charge that fence is in proper condition and entry of grazing animals is stopped. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival at the end of raising year. Rs.8340 per month x 12 months / 20 ha	1	5004.00	Ha	5004.00
	Unit Rate for 2018 -19				**19093**

10% escalation every year

4/1/19

Forest Divisional Officer
Mancherial

4/1/19

Unit Cost for 3rd 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
02.11.01	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)	1111	595.23	100	6613
02.11.02	Pruning of flower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)	1111	112.68	100	1252
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	100	551.70	100 Rmt	552
02.11.05	**Cost of Protection**: One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers shall be pasted in respective Plantation Journal. Every month payment to be made after satisfaction by Plantation-in-charge that fence is in proper condition and entry of grazing animals is stopped. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival at the end of raising year. Rs.8340 per month x 9 months / 20 ha	1	3753.00	Ha	3753
	Unit Rate for 2018 -19				**12170**

10% escalation every year

4/1/19

Forest Divisional Officer
Mancherial

4/1/19

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
02.11.01	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)	1111	595.23	100	6613
02.11.02	Pruning of flower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)	1111	112.68	100	1252
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	100	551.70	100 Rmt	552
	Unit Rate for 2018 -19				**8417**

10% escalation every year

4/1/19

Forest Divisional Officer
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4/1/19

Unit Rate per Ha

FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
02.11.01	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	1111	148.81	100	1653
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	100	331.02	100 Rmt	331
	Unit Rate for 2018 -19				**1984**

10% escalation every year

Forest Divisional Officer
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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.)
1	2	4	5	6	7
02.11.02	Pruning of flower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)	1111	112.68	100	1252
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	100	331.02	100 Rmt	331
	Unit Rate for 2018 -19				**1583**

10% escalation every year

Forest Divisional Officer
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4/11/19

Unit Cost for 7th 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
02.11.01	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	1111	148.83	100	1654
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	100	331.02	100 Rmt	331
	Unit Rate for 2018 -19				**1985**

10% escalation every year

Forest Divisional Officer
Mancherial

4/1/19

Unit Cost for 8th 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
02.11.02	Pruning of flower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)	1111	112.68	100	1252
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	100	331.02	100 Rmt	331
	Unit Rate for 2018 -19				**1583**

10% escalation every year

Forest Divisional Officer
Mancherial

4/1/19

Unit Cost for 9th 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
02.11.01	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	1111	148.83	100	1654
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and	100	331.02	100 Rmt	331
	Unit Rate for 2018 -19				**1985**
	10% escalation every year				

Forest Divisional Officer
Mancherial

4/1/19

Unit Cost for 10th 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
02.11.02	Pruning of flower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)	1111	112.68	100	1252
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	100	331.02	100 Rmt	331
	Unit Rate for 2018 -19				**1583**

10% escalation every year

Forest Divisional Officer
Mancherial

Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	3	4	5	6
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 & closing.	1111	35.62	100	396
02.09.18	a) Circular weeding to a radius of 0.50 m around the plant (during July - Aug)	1111	113.34	100	1259
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.)	1111	595.23	100	6613
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 (b) Hard gravelly soil	1	3091.77	1	3092
02.09.21	Prunning of lower branch initials of Timber and NTFP species by scicature upto 1/3rd height (to be during October)	1111	112.68	100	1252
02.09.22	Uprootal of Mahaveera Weed	1	3311.47	1	3311
02.09.24	**Cost of Protection**: One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers shall be pasted in respective Plantation Journal. Every month payment to be made after satisfaction by Plantation-in-charge that fence is in proper condition and entry of grazing animals is stopped: The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival at the end of raising year. Rs.8340 per month x 9 months / 20 ha	1	3753.00	Ha	3753
	Unit Rate for 2018 -19				118561

10% escalation every year

Forest Divisional Officer
Mancherial

4/12/19

UNIT COST FOR MAINTENANCE OF BAG PLANTS (8"X12") from September to till disposal

Sl. No.	FSR-2017-18 Code	Item of work	Unit	Rate (Rs.)	Quantity	Amount (Rs.)
1	2	3	4	5	6	7
		MAINTENANCE OF BAG NURSERY FROM SEPTEMBER ONWARDS TILL DISPOSAL				
1	**01.05.01**	**Watering** the plants for 10 m X 1 m size secondary bed	Bed / month	157.79	10	1577.90
2	**01.05.02**	Shifting, grading and rearrangement in beds	Bed/shifting	223.07	3	669.21
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 m 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 m 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 1 m x1 m size. However, the above narrative is subject to the provisions cited under general instructions.	Month	83.37	10	833.70
		Total				**3080.81**
		cost of each plant (800 Plants per bed)				**3.8510**

Unit Cost for 2018-19	4.236114
Unit Cost for 2019-20	4.659725
Unit Cost for 2020 -21	5.125698
Unit Cost for 2021-22	5.638267

Forest Divisional Officer
Mancherial
4/1/19

Unit Rate per Ha

FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
	ADVANCE OPERATION (PRE-PLANTING OPERATION) - *All advance-operation works of plantations to be raised shall be completed before March. Perambulation of site, preparing site inspection report including type of vegetation and density, approval of site suitabilty and the category of jungle growth clearance, taking the images of the existing vegetation, preparation of treatment plan shall be prepared and approved by DFO before taking up advance operation. In case of retrived encroached area to be planted with SMM, mention will be made regarding the type of vegetation existing and whether uprootal is required, or can be directly ploughed with a heavy-duty tractor)*				
02.08.01	Survey with GPS (Only staff to carry out) (Staff to carryout GPS Survey. One manday is allowed for assistance)	1	339.66	Plantation	340
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.				
	(a) Sparse Jungle growth (< 10% ground area covered with Jungle growth)	0.4	1887.86	Ha	755
	(b) Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)	0.4	2837.66	Ha	1135
	(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.	0.2	5686.75	Ha	1137
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.				
	(a) Sparse Jungle growth (< 10% ground area covered with Jungle growth)	0.4	5033.32	Ha	2013
	(b) Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)	0.4	9741.86	Ha	3897
	(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.	0.2	12664.86	Ha	2533
02.08.04	Collection and Removal of Uprooted Stumps of all sizes, other debris etc., to outside the plantation site.				
	(a) Sparse Jungle growth (< 10% ground area covered with Jungle growth)	0.4	5359.33	Ha	2144
	(b) Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)	0.4	8504.65	Ha	3402
	(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.	0.2	9916.46	Ha	1983
	Unit Rate for 2018 -19				**19339.00**

10% escalation every year

Forest Divisional Officer
Mancherial
4/11/19

UNIT COST FOR MAINTENANCE OF BAG PLANTS (5"x9")

Sl. No.	FSR-2018-19 Code	Item of work	Unit	Rate	Quantity	Amount
1	2	3	4	5	6	7
1	**01.03.19**	**Maintenance** of 4"x7" or 5"x9" bag-plants from April – August - **Watering** the plants *twice a day* from April – August				
2		*(a) Manually* with rose cans or finely perforated nozzle attached to a hose pipe	Bed / month	260.10	1	260.10
3	**01.03.20**	Weeding the beds during May & July	Bed / weeding	47.76	2	95.53
	01.03.21	Shifting, grading and rearrangement in beds - As per 01.03.14	Bed / Shifting	223.07	1	223.07
		Total				**578.70**
		cost of each plant (1700 plants per bed)				**0.3404**

10% escalation every year

Forest Divisional Officer
Mancherial

4/1/19

Sl. No.	FSR-2018-19 Code	Item of work	Unit	Rate (Rs.)	Quantity	Amount (Rs.)
1	2	3	4	5	6	7
		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).				
1		Cost and conveyance of coco husk	1000 bags	2000.00	1000	2000.00
2	**01.03.24**	Cost & Transport of ingredients for Potting Mixture (e) 5" x 9" to 8" x 12" polybags (3.82 - 1.12 = 2.70 cum)	1000 bags	950.46	1000	950.46
3	**01.03.25**	Cost & Transport of ingredients for Potting Mixture (e) Transportation of soil mixture ingradients more than 5km. and upto 25 Km. distance	1000 bags/ km	24.06	20	481.20
4	**01.03.27**	Preparation of potting mixture by powering of various ingredients sieving and mixing them in prescribed proportion; opening of bags and filling with potting mixture partially, tearing the polybag plants and repotting them inside bigger bags and filling the rest of bags; gently pressing the same with finger tips and arranging in beds of 10x1 m size (6"x12" size: 1100 bag plants / bed and 8"x12" size": 800 bag plants per bed) e) 5"x9" to 8"x12" polybags (3.82 - 1.12 = 2.70 cum)	1000 bags	1614.72	800	1291.78
5	**01.03.32**	Stakes to be provided to plants in 8"X12" bags and 10"X16" bags	1000 bags	2246.40	800	1797.12
6	**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*	Bed/ weeding	47.76	2	95.52
7	**01.03.34**	Shifting, grading and rearrangement in beds - As per 01.03.14	Bed/ shifting	223.07	1	223.07
8	**01.03.35**	**Watering** the plants manually twice a day (from Novemebr - March) with rose cans or finely perforated nozzle attached to a hose pipe.	Per bed / month	260.10	5	1300.50
9	**01.03.37**	Cost of Fertilizers		20.00		20.00
10		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 m 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 m 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 1 m x1 m size. However, the above narrative is subject to the provisions cited under general instructions.	Month	83.40	5	417.00
11		Cost of the ploythene bags (10000x1.15/86x175)		2340.12		2340.12
		Total				**10916.76**
12		**cost of each plant (800 plants/bed)**				**13.6460**

10% escalation every year

Forest Divisional Officer
Mancherial

4/1/19

UNIT COST FOR MAINTENANCE OF BAG PLANTS

Sl. No.	FSR-2018-19 Code	Item of work	Unit	Rate (Rs.)	Quantity	Amount (Rs.)
1	2	3	4	5	6	7
		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)*				
1	**01.04.01**	**Watering** polybag secondary beds twice a day for 4 months	Bed / month	260.10	4	1040.40
2	**01.04.02**	**Weeding** *once* during maintenance year	Bed / weeding	47.76	1	47.76
3	**01.04.03**	Shifting, grading and rearrangement in beds - As per 01.03.14	Bed	223.07	2	446.14
4	**01.04.05**	**Cost** of foliar nutritient formulations like NPK-19:19:19; fungicides and insecticides (from April -	As per actuals	20.00		20.00
5	**01.04.06**	**Cowdung Slurry application** (*One can apply chemical foliar spray* ***or*** *apply cowdung slurry - not both*)	Bed	25.00	1	25.00
6	**01.04.07**	**Weeding in the space between the beds,** inspection path and sorroundings of Nursery	Bed	26.30	1	26.30
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 m 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 m 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 1 m x1 m size. However, the above narrative is subject to the provisions cited under general instructions.	Month	83.40	5	417.00
		Total				**2022.60**
		cost of each plant (800 Plants per bed)				**2.5283**

10% escalation every year

Forest Divisional Officer
Mancherial
10/11/19

UNIT COST FOR RAISING OF PRIMARY BEDS

Sl. No.	FSR-2018-19 Code	Item of work	Unit	Rate (Rs.)	Quantity	Amount (Rs.)
1	2	3	4	5	6	7
1	**01.00.00**	**Raising of primary beds** 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	4.72	1	4.72
3	**01.01.03**	**Digging** soil of the demarcated beds of 1x1x0.30 m size	Bed	36.32	1	36.32
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	28.00	1	28.00
5	**01.01.05**	*For every extra km beyond 5 km upto 25 km*	Bed	1.11	20	22.20
6	**01.01.06**	**Cost** and transport of 0.025 cum **FYM**	Bed	24.06	1	24.06
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 levelling.	Bed	10.32	1	10.32
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	11.79	1	11.79
9	**01.01.09**	**Soil drenching** with 0.1% Carbendazim (10 gm or 10 ml of Carbendazim in 1 lit of water)				0.00
10	**01.01.10**	Cost of seed	Bed	500.00	1	500.00
11	**01.01.12**	**Sowing of seed** (finer seeds like *Adina, Mitragyna, Anthocephalus* etc. to be mixed with sand and broadcast - 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	11.74	1	11.74
12	**01.01.13**	**Watering the primary nursery beds** with rose water cans twice daily for a maximum period of 2 months.	Bed	13.21	2	26.42
13	**01.01.14**	**Kerbing** the primary beds all around with Cement Bricks (in permanent nurseries only), if required. In all such permanent primary beds, no incurring of expenditure for making the primary beds every year is permitted except for cost of fungicides. **<u>This item has to be done with prior written approval of DFO.</u>**	Bed	27.50		0.00
14	**01.01.15**	**Cost** of chemicals, fungicide and insecticide - As per actuals limited to Rs.1000/- per 1 lakh seedlings in primary bed stage	Bed	20.00	1	20.00
		Total				**695.57**
		Rasing of seedlings 110% for abtaining 100%		10%		**69.56**
		Total				**765.13**
		cost of each plant (2600 plants per bed) - 2018-19				**0.2943**
		10% escalation every year				

Forest Divisional Officer
Mancherial
4/1/19

UNIT COST FOR BAG PLANT NURSERY (NOVEMBER TO MARCH)

Sl. No.	FSR-2018-19 Code	Item of work	Unit	Rate (Rs.)	Quantity	Amount (Rs.)
1	2	3	4	5	6	7
		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) or 10"x16" (400 guage) polybags. The seedlings are to be transplanted from primary beds in February - March. Hence the bags are to be filled during January - February 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: 10.00 m X 1.00 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	48.18	1	48.18
2	**01.03.03**	**Cost of Polybags** (including the cost): 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. (b) 12.5 cm x 22.5 cm (5" x 9") size bags: 200 g: 366 bags / kg	Bed	232.00	4.64	1076.48
3	**01.03.04**	**Cost & 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.				0.00
4	**01.03.05**	*Distance up to 5 km* *(b) 12.5 cm x 22.5 cm (5" x 9") = 1.12 cum vol. for 1000 bags*	1000 Bags	382.98	1700	651.07
5	**01.03.06**	For every extra km beyond 5 Kms upto 25 Kms b) 12.5 cm x 22.5 (5" x 9") = = 1.12 cum vol. for 1000 bags	1000 Bags/km	9.98	1700	339.32
6	**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. (b) 12.5 cm x 22.5 (5" x 9") size bags: 1700 bags / bed	1000 Bags	907.40	1700	1542.58
7	**01.03.09**	Alignment of beds including alignment of inspection paths etc	Bed	7.20	1	7.20
8	**01.03.10**	**Pricking** out seedlings from primary beds and transplanting into polybags	1000 Bags	134.03	2600	348.48
9	**01.03.12**	Watering the plants twice a day from February - March a) Manually with rose cans or finely perforated nozzle attached to a hose pipe	Bed/ month	260.10	2	520.20
10	**01.03.13**	Weeding to be done for every 2 months from the date of transplantation up to March	Bed/ weeding	47.76	3	143.28
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/ shifting	223.07	1	223.07
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	63.34	1	63.34
13	**01.03.16**	**Cost** of foliar nutritient formulations like multiplex or NPK-19:19:19; fungicides and insecticides from July to Oct.	Bed	34.00	1	34.00
14	**01.03.18**	**Weeding in the space between the beds**, inspection path and sorroundings of Nursery	Bed	32.55	1	32.55

		Total				**5029.74**
		add casualty 10%				502.97
		Grand Total				**5532.72**
		cost of each plant (1700 plants per bed)				**3.2545**

10% escalation every year

Forest Divisional Officer
Mancherial

4/11/19

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

Unit Rate per Ha

Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	3	4	5	6
02.09.02	**Deep Ploughing** the effective (excluding unsuitable patches) plantation area across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough. **For untilled areas - Hard Soils**	1	4961.06	Ha	4961
02.09.01	Removing congestion of root suckers and other uprooted material hindering the effective ploughing	1	985.70	1	986
02.09.04	© Alignment and staking including laying base line for Misc species with espacement 3mX3m (1111 Nos)	1111	72.88	100	810
02.09.05	Cost of preparation of stakes (0.45 m length) and transportation to site	1111	51.65	100	574
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 - Digging of **60 cm cube size pits** - (Rate for 45 cm cube pit - Rs.9.65 per pit)	1111	11.43	1	12697
01.03.05	Cost and transportation of soil mixtue for filling the pit and spreading around the pit - 0.216/4 cum per pit; Rate per 1.12 cum - Rs.382.98 (per cum = Rs.382.98/1.12 = Rs.341.95)	59.994	341.95	cum	20515
	Transportation of Bag plants / Root trainer plants from nursery site to plantation site including loading and unloading				
02.09.07	© upto 5 km lead (20X30 cm (8"X12") bag plants)	1111	190.84	100	2120
02.09.08	© 5 km to 25 km lead (20X30 cm (8"X12") bag plants)	1111	148.60	100	1651
	Internal transport of bag plants/root trainers to planting points on head loads.				
02.09.10	(c)20X30 cm (8"X12")bag plants	1111	128.79	100	1431
02.09.11	**Fortification of seedling with insecticide and treating pits with SSP**				
	(b) Cost of SSP, Chloridine dust or Chloropyriphos	1111	2.50	1	2778
	(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	35.62	100	396
	Planting Bag Plants				
02.09.13	Planting in 60 cm cubic Pit (for 45 cm cubic pit - Rs.396.8)	1111	939.86	100	10442
02.15.10	Cost of supporting stake of 2.5 m long sturdy and straight and minimum 10 cm girth at base	1111	15.00	1.00	16665
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) - 6 **waterings**	1111	1441.44	100	16014
02.09.15	Replacement of Casualties 20% during Raising & 20% in 1st year (In case of Eucalyptus 10% during raising and no causality replacement for further maintenance)	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 60 cm cube size pits in Ploughed Areas in June - July by adopting 50% of original rate of digging of pits of ordinary soil - Half of the rate of Rs.9.65 *1.333*1.333*1.333 (Rate for 45 cm cube pit - Rs.9.65 per pit)	222	5.71	1	1269
02.09.07	Transportation © upto 5 km lead (20X30 cm (8"X12") bag plants)	222	190.84	100	424
02.09.08	Transportation © 5 km to 25 km lead (20X30 cm (8"X12") bag plants)	222	148.60	100	330
02.09.10	Internal transportation to planting points on head loads - © 20X30 cm (8"X12") bag plants	222	128.79	100	286
02.09.13	Planting in 60 cm cubic Pit (for 45 cm cubic pit - Rs.396.8)	222	939.86	100	2086
02.09.16	Cost of DAP @25gm / planting point	1111	2.20	1	2444

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