

**Unit Cost for Raising of Misc., Nursery as per FSR 2022-23**

Sl. No.	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				As per FSR	Agency allowance 25%	Total		
1	2	3	4	5	6	7	8	9
1		PRIMARY BEDS of 1x1x0.3 m size for Miscellaneous species including bamboo - 50 primary beds for 1 lakh nursery is permitted. Primary beds should start from Jan - May depending on availability of fresh seeds. Once primary beds are formed, they can be used upto 5 years without changing the medium - what is required each time is solarization, burning a layer of grass on it and adding the below recommended fungicides and insecticides to the medium.						
1	01.01.02	Preparation of Old Site by dismantling old beds	1 Bed	1.45	0.36	1.81	1 Bed	1.81
2	01.01.03	Digging soil of the demarcated beds of 1x1x0.30 m size	1 Bed	44.16	11.04	55.20	1 Bed	55.20
3	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)	1 Bed	33.40	0.00	33.40	1 Bed	33.40
4	01.01.05	For every extra km beyond 5 km upto 25 km	1 Bed	1.39	0	1.39	1 Bed	34.75
5	01.01.06	Cost and transport of 0.025 cum FYM	1 Bed	28.71	0	28.71	1 Bed	28.71
6	01.01.07	Mixing of sandy soil and FYM in 5:1 proportion (50 % of volume of bed) with excavated soil and refilling the bed and levelling.	1 Bed	12.56	3.14	15.70	1 Bed	15.70
7	01.01.08	Covering the beds with dried grass and leaf litter and burning them to ash which can form the upper layer	1 Bed	14.35	3.59	17.94	1 Bed	17.94
8	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	1 Bed	A/a				420.00
9	01.01.12	Sowing of seed (finer seeds like Adina, Mitragyna, Anthocephalus etc. to be mixed with sand and broadcasted - Bigger seeds to be dibbled in lines 1-2 cm apart) and covering the bed to a thickness of 2.5 cm with paddy hay including cost and conveyance	1 Bed	14.30	3.58	17.88	1 Bed	17.88
10	01.01.13	Watering the primary nursery beds with rose water cans twice daily for a maximum period of 2 months.	1 Bed	16.09	4.02	20.11	1 Bed	40.23
11	01.01.15	Cost of chemicals, fungicide and insecticide	1 Bed	As per actuals limited to Rs. 1000/- per 1 lakh seedlings in primary bed stage				18.00
							<b>S.TOTAL::</b>	<b>683.62</b>
12	01.03.00	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).						
	01.03.02	Site preparation for Old Site - Clearing of growth, weeds, grass etc.	1 Nos	15.34	3.84	19.18	1 Bed	19.18
13		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						
	01.03.03 b	12.5 cm x 22.5 cm (5" x 9") size bags: 250 g: 293 Nos / kg	6.5 Kgs	170.00	0.00	170.00	1 Kg	1105.00
14	01.03.04	Cost & Transport of ingredients for Potting Mixture: Red Soil, tank-silt / clayey soil, FYM in 2:1:1 ratio. To this soil mixture, 220 gm of Indophyll M-45, 4.5 kg of single super phosphate (SSP) and 250 gm of phorate granules per 1 cum of potting mixture will be added.						
		<b>Transportation of soil mixture ingredients</b>						
a)		<b>a) Distance up to 5 km</b>						
	01.03.05 (C)	(b) 12.5 cm x 22.5 cm (5" x 9") = 1.12 cum vol. for 1000 bags	1700 Nos	584.31	0.00	584.31	1000 Nos	993.33
b)		<b>b) For every extra km beyond 5 km upto 25 km</b>						
	01.03.06 (C)	(b) 12.5 cm x 22.5 cm (5" x 9") = 1.12 cum vol. for 1000 bags	1700 Nos	15.95	0.00	15.95	1000 Nos	542.30
15	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	(b) 12.5 cm x 22.5 cm (5" x 9") size bags: 1700 bags / bed	1700 Nos	1102.99	275.75	1378.74	1000 Nos	2343.86
16	01.03.09	Alignment of beds including alignment of inspection paths etc	1 Bed	8.80	2.20	11.00	1 Bed	11.00
17	01.03.10	Pricking out seedlings from primary beds and transplanting into polybags	1700 Nos	162.88	40.72	203.60	1000 Nos	346.12



Sl. No.	FSR Code No.	Item of work	Qty	Asper FSR	Agency allowance 25%	Total	Per	Amount
1	2	3	4	5	6	7	8	9
18	01.03.11	Sowing / dibbling of pretreated seeds (e.g. Yegisa, Nalamadi, Yerumaddi etc.) directly into bags including cost of treatment	1700 Nos	96.89	24.22	121.11	1000 Nos	205.89
19		<b>Watering the plants twice a day from Feb - Mar</b>						
	01.03.12	a) Manually with rose spray or finely perforated nozzle attached to a hose pipe	1 Bed	316.15	79.04	395.19	1 Bed/ Month	1580.76
20	01.03.13	<b>Weeding the During the Mar</b>	1 Bed	58.05	14.51	72.56	1 Bed/ Weeding	290.24
21	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	1 Bed	271.17	67.79	338.96	1 Bed/ Shifting	338.96
22	01.03.15	Replacement of casualties after sorting out the empty bags and keeping at one end of the bed (maximum	1 Bed	76.98	19.25	96.23	1 Bed	96.23
23	01.03.16	Cost of foliar nutritient formulations like multiplex or NPK-19:19:19; fungicides and insecticides from July to Oct.	1 Bed	As per actuals with a maximum limit of Rs. Rs. 2000/ per 1 lakh polybag seedlings.				57.00
24	01.03.18	Weeding in the space between the beds, inspection path and sorroundings of Nursery	1 Bed	39.59	9.90	49.49	1 Bed	49.49
	01.03.38	Contingencies for Raising Year towards the expenditure like cost of hose pipe, nursery boards, (store register for materials purchased to be maintained.)						260.00
	01.03.39	Contingencies for Electricity charges, Running & maintenance charges of oil engine (bills to be certified by DFO / FDO and a seperate log book to be						368.00
							<b>S.TOTAL::</b>	<b>8607.36</b>
							<b>Raising of Nursery Unit Rate as per FSR 2022-23</b>	<b>9290.98</b>
							<b>Add 10% escalation</b>	<b>929.00</b>
							<b>Rate for 2023-24</b>	<b>10219.98</b>
							<b>Per Seedling</b>	<b>5.47</b>

  
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## Unit cost for Maint. Of Bag Plant nursery up to planting season (April to July)

**Unit Cost Maintenance of Misc., Bag Plants (5X9) Nursery (04/2024 to 07/2024= 4 Months)  
as per FSR 2022-23**

Sl. No.	FSR Code No.	Item of work	Qty		Rate in Rs.			Per	Amount
					Asper FSR	Agency allowance 25%	Total		
1	2	3	4		5	6	7	8	9
	01.04.00	<b>MAINTAINANCE OF BAG PLANTS NURSERY UPTO PLANTING SEASON (APRIL TO AUGUST)</b> 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							
	a	Manually with rose cans or finely perforated nozzle attached to a hose pipe	1 x 4	Beds x month	316.14	79.04	395.18	1 Bed/ Month	1581.00
2	01.04.02	Weeding once during maintenance year	1	Bed	58.05	14.51	72.56	1 Bed	73.00
3	01.04.03	Shifting, grading and re-arranging in beds	1 x 1	Beds x shifting	271.17	67.79	338.96	1 Bed/ shifting	678.00
	01.04.05	Cost of foliar nutrient formulations like NPK-19:19:19; fungicides and insecticides (from April - August)							11.00
4	01.04.06	<b>Cowdung Slurry application (One can apply chemical foliar spray or apply cowdung slurry - not both)</b>							
		(a) Cost and transportation of fresh cowdung	1	Bed	As per actual subject to maximum of Rs. 2500/-				13.00
5		(b) Application of cowdung slurry - once per month between April to June - Watering should not be done 12 hours before and after application of cowdung slurry treatment		Bed	By Nursery Watcher				0.00
6	01.04.07	Weeding in the space between the beds, inspection path and surroundings of Nurserv	1	Bed	31.95	7.99	39.94	1 Bed	40.00
	01.04.08	Contingencies for Maintenance Year towards the expenditure like cost of hose pipe, nursery boards, etc (Store register for materials purchased to be maintained).	As per Actual						72.00
	01.04.09	Contingencies for Electricity charges, Running & maintenance charges of oil engine (Bills to be certified by DFO / FDO and a seperate log book to be maintained for oil engine)	As per Actual						93.00
								<b>S.TOTAL::</b>	<b>2561.00</b>
								<b>Unit Rate as per FSR 2022-23::</b>	<b>2561.00</b>
								<b>Add 10% escalation::</b>	<b>256.00</b>
								<b>Total unit rate arrived for the year 2023-24::</b>	<b>2817.00</b>
								<b>Add 10% escalation::</b>	<b>282.00</b>
								<b>Total unit rate arrived for the year 2024-25::</b>	<b>3099.00</b>

Unit cost per Seedling **1.510**

  
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**Unit Cost Maintenance of Misc., Bag Plants (9x11) Nursery (08/24 to 03/25= 8 Months)  
as per FSR 2022-23**

Sl. No.	FSR Code No.	Item of work	Qty		Rate in Rs.			Per	Amount
					Asper FSR	Agency allowance 25%	Total		
1	2	3	4		5	6	7	8	9
	1.05.00	<b>MAINTENANCE OF BAG NURSERY FROM SEPTEMBER ONWARDS TILL DISPOSAL</b>							
1	01.05.01	Watering the plants for 10 m X 1 m size secondary bed	1 x 8	Beds x month	195.29	48.82	244.11	1 Bed/ Month	1953.00
2	01.05.02	Shifting, grading and re-arranging in beds 1St shifting and grading after three months and consecutive shifting and grading after every two months till the nursery stock is lifted for 10 m X 1 m size bed - with prior written permission of Circle Head	1 x 2	Beds x shifting	271.17	67.79	338.96	1 Bed/ shifting	678.00
								<b>S.TOTAL::</b>	<b>2631.00</b>
								<b>Unit Rate as per FSR 2022-23</b>	<b>2631.00</b>
								<b>Add 10% escalation</b>	<b>263.00</b>
								<b>Rate for 2023-24</b>	<b>2894.00</b>
								<b>Add 10% escalation</b>	<b>289.00</b>
								<b>Rate for 2024-25</b>	<b>3183.00</b>
								<b>Add 10% escalation</b>	<b>318.00</b>
								<b>Rate for 2025-26</b>	<b>3501.00</b>
								<b>Add 10% escalation</b>	<b>350.00</b>
								<b>Rate for 2026-27</b>	<b>3851.00</b>
								Unit cost per Seedling	<b>5.260</b>

  
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**Unit Cost for Conversion of Misc., Nursery from 5X9 to 9X11 bags as per FSR 2022-23**

Sl. No.	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				Asper FSR	Agency allowance 25%	Total		
1	2	3	4	5	6	7	8	9
26	01.03.19	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)						
	01.03.20	Cost and Transport of ingredients for Potting Mixture: Red Soil, tank-silt / clayey soil, FYM in 2:1:1 ratio. To this soil mixture, 220 gm of Indophyll M-45, 4.5 kg of single super phosphate (SSP) and 250 gm of phorate granules per 1 cum of potting mixture will be added. Cost of chemicals is as per actuals						
	01.03.21	Transportation of soil mixture ingredients						
		Distance up to 5 km						
	g	5" x 9" to 9" x 11" polybags (4.717 - 1.12 = 3.597 cum)	500 Nos	1509.83	0.00	1509.83	1000 Nos	754.92
	01.03.22	For every extra km beyond 5 km upto 25 km						
	h	5" x 9" to 9" x 11" polybags (4.717 - 1.12 = 3.597 cum)	500 Nos	39.98	0.00	39.98	1000 Nos	399.80
		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						
	01.03.03	23 cm x 28 cm (9" x 11") size bags of 400 g: 83 bags / kg	6.75 Kgs	170.00	0.00	170.00	1 Kg	1147.50
	01.03.23	Cost of Chemical component	1 Bed	A/a				420.00
	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)						
	g	5" x 9" to 9" x 11" polybags (4.717 - 1.12 = 3.597 cum)	500 Nos	2614.75	653.69	3268.44	1000 Nos	1634.22
	01.03.30	Stakes to be provided to plants in 8"x12", 9"x11", 10"x16" and 12"x13" bags with a minimum 1.50 mtr height	500 Nos	5512.50	0.00	5000.00	1000 Nos	2500.00
	01.03.31	Weeding the plants (1100 no. of 6"x12"bags; 800 no. of 8"x12" bags; and 400 no. of 10"x16" bags) from November - March: 2 weedings						
	a	1st weeding - December	1 Bed	58.05	14.51	72.56	1 Bed	72.56
	b	2nd weeding - February	1 Bed	58.05	14.51	72.56	1 Bed	72.56
	01.03.32	Shifting, Grading and rearranging in secondary beds - One Grading in February 1st shifting and grading after every two months till the nursery stock is lifted	1 Bed	271.17	67.79	338.96	1 Bed/ Weeding	338.96
	01.03.33	Watering the plants manually twice a day (from Novemembr - March) with rose spray or finely perforated nozzle attached to a hose pipe						
	a	Manually with rose spray or finely perforated nozzle attached to a hose pipe	1 Bed	316.21	79.05	395.26	1 Bed/ month	1976.30
23	01.03.35	Cost of foliar nutrient formulations like multiplex or NPK-19:19:19; fungicides and insecticides from July to Oct.	1 Bed	As per actuals with a maximum limit of Rs. Rs. 2000/ per 1 lakh polybag seedlings.				12.00
	01.03.36	Contingencies for Raising Year towards the expenditure like cost of hose pipe, nursery boards, (store register for materials purchased to be maintained.)						280.00
	01.03.37	Contingencies for Electricity charges, Running & maintenance charges of oil engine (bills to be certified by DFO / FDO and a separate log book to be						355.00
							<b>S.TOTAL::</b>	<b>9963.82</b>
							<b>Conversion Unit Cost Unit Rate as per FSR 2022-23</b>	<b>9963.82</b>
							<b>Add 10% escalation</b>	<b>996.00</b>
							<b>Rate for 2023-24</b>	<b>10959.82</b>
							<b>Add 10% escalation</b>	<b>1096.00</b>
							<b>Rate for 2024-25</b>	<b>12055.82</b>
							<b>Per seedling</b>	<b>19.93</b>

  
**Forest Divisional Officer**  
**Paloncha**



# Unit Cost for Advance Operations under Semi Mechanical Method as per FSR 2022-23

Espacement 3 x 3 M

Name of the Species : NTSH

Sl. No.	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				Asper FSR	Agency allowance 25%	Total		
1	2	3	4	5	6	7	8	9
1	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	1 No.	412.87	0.00	412.87	1 No.	413
2	02.08.02	<b>Clearing unsalable unwanted jungle growth (leaving all the tree species of good form particularly the hardwood tree species like Teak, Nallamaddi, Yegisa,</b>						
	a	<i>Sparse Jungle growth (&lt; 10% ground area covered Jungle growth)</i>	0.3 Ha	2294.70	573.68	2868.38	0.3 Ha	861
	b	<i>Very Light Jungle growth (&gt;10% and up to 20% ground area covered with Jungle growth)</i>	0.3 Ha	3449.20	862.30	4311.50	0.3 Ha	1293
	c	<i>Light Jungle Growth (&gt; 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on field inspection of DFO.</i>	0.4 Ha	8103.38	2025.85	10129.23	0.4 Ha	4052
3	02.08.03	<b>Uprootal of Stumps (excluding unsuitable patches) to a minimum depth of 45 cm with heavy machinery fitted with 0.90</b>						
	a	<i>Sparse Jungle growth (&lt; 10% ground area covered with Jungle growth)</i>	0.3 Ha	6273.00	0.00	6273.00	0.3 Ha	1882
	b	<i>Very Light Jungle growth (&gt;10% and up to 20% ground area covered with Jungle growth)</i>	0.3 Ha	12141.26	0.00	12141.26	0.3 Ha	3642
	c	<i>Light Jungle Growth (&gt; 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on field inspection of DFO.</i>	0.4 Ha	15784.21	0	15784.21	0.4 Ha	6314
4	02.08.04	<b>Collection and Removal of Uprooted Stumps of all sizes, other debris etc., to outside the plantation site.</b>						
	a	<i>Sparse Jungle growth (&lt; 10% ground area covered Jungle growth)</i>	0.3 Ha	6390.21	1597.55	7987.76	0.3 Ha	2396
	b	<i>Very Light Jungle growth (&gt;10% and up to 20% ground area covered with Jungle growth)</i>	0.3 Ha	10140.56	2535.14	12675.70	0.3 Ha	3803
	c	<i>Light Jungle Growth (&gt; 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on field inspection of DFO.</i>	0.4 Ha	11823.92	2955.98	14779.90	0.4 Ha	5912
5		<b>Tilling (PERMISSIBLE FOR CA AREA ONLY) the soil to a depth of 45 cm in the</b>						
		<i>(a) Sparse Jungle growth (&lt; 10% ground area covered Jungle growth)</i>	0.3 Ha	19818.17		19818.17	0.3 Ha	5945
		<i>(b) Very Light Jungle growth (&gt;10% and up to 20% ground area covered with Jungle growth)</i>	0.3 Ha	16894.99		16894.99	0.3 Ha	5068
		<i>(c) Light Jungle Growth (&gt; 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on field inspection of DFO.</i>	0.4 Ha	11691.09		11691.09	0.4 Ha	4676
6		Digging of CPT	300 cum	45.00		45.00	1 cum	13500
				<b>Unit Rate as per FSR 2022-23</b>				<b>59757</b>
				<b>Add 10% escalation every year</b>				<b>5976</b>
				<b>Unit Rate as per FSR 2023-24</b>				<b>65733</b>
				<b>Add 10% escalation every year</b>				<b>6573</b>
				<b>Unit Rate as per FSR 2024-25</b>				<b>72306</b>

  
**Forest Divisional Officer**  
**Paloncha**




# Unit Cost for Raising of NTSH Plantations under Semi Mechanical Method as per FSR 2022-23

Espacement 3 x 3 M

Name of the Species : NTSH

Sl. No.	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				Asper FSR	Agency allowance 25%	Total		
1	2	3	4	5	6	7	8	9
2	02.09.01	Removing congestion of root suckers and other uprooted material hindering the effective ploughing	1 Ha	1175.34	293.84	1469.18	1 Ha.	1469
1	02.09.02	Deep Ploughing the effective (excluding unsuitable patches) plantation area across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough. FOR TILLED AREA ONLY to be completed by 15th June						
	a	Ordinary soil	1 Ha	3697.76	0	3697.76	1 Ha.	3698
3	02.09.04	<b>Alignment &amp; Stacking including demarcation of base line</b>						
	a)	(c) 3X3 m espacement = 1111 planting points	1666 Nos	88.62	22.16	110.78	100 Nos	1846
4	02.09.05	Cost of preparation of stakes Cost of preparation of stakes i) 0.45m length and transportation to site	1666 Nos	59.81	0.00	59.81	100 Nos	996
		Cost of preparation of stakes (2.0 m length) and transportation of site (subject to condition that the seedling height is 1.5m to 2.0m height)	1666 Nos	1323.00	0.00	1323.00	100 Nos	22041
5	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	1666 Nos	9.95	2.49	12.44	1 No	20725
		<b>PLANTING OPERATIONS DURING RAISING YEAR</b>						
6	02.09.07	<b>(a) Transportation of Planting Stock (including loading and unloading) up to a distance of 5 km</b>						
	d	23 cm x 28 cm (9" x 11") bag plants	1666 Nos	294.83	0	294.83	100 Nos	4912
	b)	<b>(b) Transportation of Planting Stock (including loading and unloading) more than 5 km distance and upto 25 km distance</b>						
	d	23 cm x 28 cm (9" x 11") bag plants	1666 Nos	10.36	0	10.36	100 Nos	3452
	c)	(c) Transportation of Planting Stock (including loading and unloading) more than 25 km distance and for every extra km (with prior written						
	d	23 cm x 28 cm (9" x 11") bag plants	1666 Nos	5.03	0	5.03	100 Nos	419
7	02.09.10	<b>Internal transportation to planting points on head loads</b>						
	d	23 cm x 28 cm (9" x 11") bag plants	1666 Nos	181.73	45.43	227.16	100 Nos	3784
	02.09.11	<b>Fortification of seedling with insecticide and treating pits with SSP</b>						
		(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	1666 Nos	43.29	10.82	54.11	100 Nos	901
9		(b) Cost of SSP, Chloridine dust or Chloropyriphos	84 Kgs	11.00	0.00	11.00	1 Kg	924
10		<b>Planting</b>						
	02.09.12	45 cm3	1666 Nos	482.33	120.58	602.91	100 Nos	10044
	02.09.14	Watering (one time) immediately after planting if the planting takes place on a non-rainy day and if there is no rains after planting for 1-2 days with prior written permission of Circle Head and under intimation to Head Office. Also the date of watering is to be recorded in plantation Journal (Refer PCCF Office Rc. No. 17309/2000/G1, Dt. 16.08.2005 - Circular No. 6B/2005/G1)	1666 Nos	292.02	73.01	365.03	100 Nos	6081
11	02.09.15	<b>Replacement of Casualties: 20% during Raising Year. (In case of Eucalyptus: 10% during raising and no casualty 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.</b>						
5	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	333 Nos	4.98	1.24	6.22	1 No	2070



		<b>PLANTING OPERATIONS DURING RAISING YEAR</b>						
6	02.09.07	(a) Transportation of Planting Stock (including loading and unloading) up to a distance of 5 km						
	d	23 cm x 28 cm (9" x 11") bag plants	333 Nos	294.83	0	294.83	100 Nos	982
b)	02.09.08	(b) Transportation of Planting Stock (including loading and unloading) more than 5 km distance and upto 25 km distance						
	d	23 cm x 28 cm (9" x 11") bag plants	333 Nos	10.36	0	10.36	100 Nos	690
c)	02.09.09	(c) Transportation of Planting Stock (including loading and unloading) more than 25 km distance and for every extra km (with prior written						
	d	23 cm x 28 cm (9" x 11") bag plants	333 Nos	5.03	0	5.03	100 Nos	84
7	02.09.10	Internal transportation to planting points on head loads						
	d	23 cm x 28 cm (9" x 11") bag plants	333 Nos	181.73	45.43	227.16	100 Nos	756
	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	333 Nos	43.29	10.82	54.11	100 Nos	180
9		(b) Cost of SSP, Chloridine dust or Chloropyriphos	17 Kgs	11.00	0.00	11.00	1 Kg	187
10		<b>Planting</b>						
	02.09.12	45 cm3	333 Nos	482.33	120.58	602.91	100 Nos	2008
12		<b>Fertilizer Application for boosting growth</b>						
	02.09.16	Cost of DAP @ 25 gm / planting point	42 Kgs	26.00	0.00	26.00	1 Kg	1092
13	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	1666 Nos	43.29	10.82	54.11	100 Nos	901
14		<b>WEEDING &amp; SOIL WORKING</b>						
	02.09.18	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.	1666 Nos	137.76	34.44	172.20	100 Nos	2869
	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.)	1666 Nos	723.51	180.88	904.39	100 Nos	15067
15	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	Ordinary soil	1 Ha	2808.89	0	2808.89	1 Ha.	2809
16	02.09.21	Pruning of lower branch initials of Timber and NTFP species by scitature upto 1/3 rd height (to be done during October)	1666 Nos	136.95	34.24	171.19	100 Nos	2852
	02.09.22	Uprootal of Mahaveera (Hyptis suaveolens) weed with prior written approval of Circle Head and taking photograph before and after uprootal. The	1 Ha	4025.12	1006.28	5031.40	1 Ha.	5031
	02.09.24	Contingencies provision for Raising of plantaitons:						
		i) Fixing of Plantation Boards and Corner Stones	As per Actual					800
		ii) Contingencies and Miscellaneous (with in 5% of the estimate cost subject to ceiling of Rs. 5,000/-)	As per Actual s					250
								<b>Unit Rate as per FSR 2022-23</b>
								<b>Add 10% escalation every year</b>
								<b>Unit Rate as per FSR 2023-24</b>
								<b>Add 10% escalation every year</b>
								<b>Unit Rate as per FSR 2024-25</b>
								<b>Add 10% escalation every year</b>
								<b>Unit Rate as per FSR 2025-26</b>

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**Unit Cost for 1st year maintenance of NTSH Plantations Raised under Semi Mechanical Method as per FSR 2022-23**

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### Unit Cost

#### Unit Cost for 2nd year maintenance of NTSH Plantations under Semi Mechanical Method as per FSR 2022-23

Sl. No.	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				Asper FSR	Agency allowance 25%	Total		
1	2	3	4	5	6	7	8	9
	02.11.01	Cost of DAP @25 gm / planting point	1666 Nos	1.00	0.00	1.00	1 Nos	1666
1	02.11.02	Broadcasting of Stylosanthes hamata seeds in the inter-planting rows of the plantations raised under semi-mechanical plantations by ploughing with a tractor-mounted cultivator after receipt of good rains in the month of June-July in place of existing provision of inter-ploughing in the month of September given for the 1st and 2nd year maintenance years of semi-mechanical plantations						
		(a) Cost of S. hamata Seeds	5 Kgs		100.00	100.00	1 Kg	500
		(b) Inter ploughing using tractors with cultivator in 1st year maintenance and old plantations	1 Ha	2415.41	0.00	2415.41	1 Ha.	2415
		(c) Broadcasting of S. hamata seeds followed by dragging / sweeping with a bunch of thorny branches to ensure a thin cover of soil over the broadcasted seeds.	1 Ha	97.93	24.48	122.41	1 Ha.	122
2	02.11.03	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. (July-Aug)	1666 Nos	723.51	180.88	904.39	100 Nos	15067
3	02.11.04	Pruning of lower branch initials of Timber and NTFP species by sciculture upto 1/3 rd height (to be carried out during July-Aug)	1666 Nos	137.00	34.25	171.25	100 No	2853
4	02.11.06	Contingencies provision for maintenance of plantations:						
		i) Maintenance of Plantation Boards and Corner Stones	LS					500
		ii) Contingencies and Miscellaneous (with in 3% of the estimate cost subject to ceiling of Rs. 3,000/-)	LS					553
				Unit Rate as per FSR 2022-23				22010
				Add 10% escalation every year				2201
				Unit Rate as per FSR 2023-24				24211
				Add 10% escalation every year				2421
				Unit Rate as per FSR 2024-25				26632
				Add 10% escalation every year				2663
				Unit Rate as per FSR 2025-26				29295
				Add 10% escalation every year				2930
				Unit Rate as per FSR 2026-27				32225
				Add 10% escalation every year				3223
				Unit Rate as per FSR 2027-28				35448

  
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**Unit Cost for 3rd year maintenance of NTSH Plantations  
under Semi Mechanical Method as per FSR 2022-23**

Sl. No.	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				Asper FSR	Agency allowance 25%	Total		
1	2	3	4	5	6	7	8	9
1	02.11.03	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. (July-Aug)	1666 Nos	723.51	180.88	904.39	100 Nos	15067
2	02.11.04	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be carried out during July-Aug)	1666 Nos	137.00	34.25	171.25	100 No	2853
3	02.10.03	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.	1666 Nos	137.76	34.44	172.20	100 Nos	2869
4	02.11.06	Contingencies provision for maintainence of plantaitons:						
		i) Maintenance of Plantation Boards and Corner Stones	LS					500
		ii) Contingencies and Miscellaneous (with in 3% of the estimate cost subject to ceiling of Rs. 3,000/-)	LS					639
				<b>Unit Rate as per FSR 2022-23</b>				<b>21928</b>
				<b>Add 10% escalation every year</b>				<b>2193</b>
				<b>Unit Rate as per FSR 2023-24</b>				<b>24121</b>
				<b>Add 10% escalation every year</b>				<b>2412</b>
				<b>Unit Rate as per FSR 2024-25</b>				<b>26533</b>
				<b>Add 10% escalation every year</b>				<b>2653</b>
				<b>Unit Rate as per FSR 2025-26</b>				<b>29186</b>
				<b>Add 10% escalation every year</b>				<b>2919</b>
				<b>Unit Rate as per FSR 2026-27</b>				<b>32105</b>
				<b>Add 10% escalation every year</b>				<b>3211</b>
				<b>Unit Rate as per FSR 2027-28</b>				<b>35316</b>
				<b>Add 10% escalation every year</b>				<b>3532</b>
				<b>Unit Rate as per FSR 2028-29</b>				<b>38848</b>

  
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**Unit Cost for 5th, 7th, 9th year maintenance of NTSH Plantations  
Raised under Semi Mechanical Method as per FSR 2022-23**

Sl. No.	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				Asper FSR	Agency allowance 25%	Total		
1	2	3	4	5	6	7	8	9
1	02.11.03	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. (July-Aug)	1666 Nos	723.51	180.88	904.39	100 Nos	15067
2	02.11.04	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be carried out during July-Aug)	1666 Nos	137.00	34.25	171.25	100 No	2853
3	02.10.03	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.	1666 Nos	137.76	34.44	172.20	100 Nos	2869
				<b>Unit Rate as per FSR 2022-23</b>				<b>20789</b>
				<b>Add 10% escalation every year</b>				<b>2079</b>
				<b>Unit Rate as per FSR 2023-24</b>				<b>22868</b>
				<b>Add 10% escalation every year</b>				<b>2287</b>
				<b>Unit Rate as per FSR 2024-25</b>				<b>25155</b>
				<b>Add 10% escalation every year</b>				<b>2516</b>
				<b>Unit Rate as per FSR 2025-26</b>				<b>27671</b>
				<b>Add 10% escalation every year</b>				<b>2767</b>
				<b>Unit Rate as per FSR 2026-27</b>				<b>30438</b>
				<b>Add 10% escalation every year</b>				<b>3044</b>
				<b>Unit Rate as per FSR 2027-28</b>				<b>33482</b>
				<b>Add 10% escalation every year</b>				<b>3348</b>
				<b>Unit Rate as per FSR 2028-29</b>				<b>36830</b>
				<b>Add 10% escalation every year</b>				<b>3683</b>
				<b>Unit Rate as per FSR 2029-30</b>				<b>40513</b>
				<b>Add 10% escalation every year</b>				<b>4051</b>
				<b>Unit Rate as per FSR 2030-31</b>				<b>44564</b>
				<b>Add 10% escalation every year</b>				<b>4456</b>
				<b>Unit Rate as per FSR 2031-32</b>				<b>49020</b>
				<b>Add 10% escalation every year</b>				<b>4902</b>
				<b>Unit Rate as per FSR 2032-33</b>				<b>53922</b>
				<b>Add 10% escalation every year</b>				<b>5392</b>
				<b>Unit Rate as per FSR 2033-34</b>				<b>59314</b>
				<b>Add 10% escalation every year</b>				<b>5931</b>
				<b>Unit Rate as per FSR 2034-35</b>				<b>65245</b>

  
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**Unit Cost for 4th, 6th, 8th, 10th year maintenance of NTSB Plantations  
Raised under Semi Mechanical Method as per FSR 2022-23**

Sl. No.	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				Asper FSR	Agency allowance 25%	Total		
1	2	3	4	5	6	7	8	9
1	02.11.04	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be carried out during July-Aug)	1666 Nos	137.00	34.25	171.25	100 No	2853
2	02.10.03	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.	1666 Nos	137.76	34.44	172.20	100 Nos	2869
						<b>Unit Rate as per FSR 2022-23</b>		<b>5722</b>
						<b>Add 10% escalation every year</b>		<b>572</b>
						<b>Unit Rate as per FSR 2023-24</b>		<b>6294</b>
						<b>Add 10% escalation every year</b>		<b>629</b>
						<b>Unit Rate as per FSR 2024-25</b>		<b>6923</b>
						<b>Add 10% escalation every year</b>		<b>692</b>
						<b>Unit Rate as per FSR 2025-26</b>		<b>7615</b>
						<b>Add 10% escalation every year</b>		<b>762</b>
						<b>Unit Rate as per FSR 2026-27</b>		<b>8377</b>
						<b>Add 10% escalation every year</b>		<b>838</b>
						<b>Unit Rate as per FSR 2027-28</b>		<b>9215</b>
						<b>Add 10% escalation every year</b>		<b>922</b>
						<b>Unit Rate as per FSR 2028-29</b>		<b>10137</b>
						<b>Add 10% escalation every year</b>		<b>1014</b>
						<b>Unit Rate as per FSR 2029-30</b>		<b>11151</b>
						<b>Add 10% escalation every year</b>		<b>1115</b>
						<b>Unit Rate as per FSR 2030-31</b>		<b>12266</b>
						<b>Add 10% escalation every year</b>		<b>1227</b>
						<b>Unit Rate as per FSR 2031-32</b>		<b>13493</b>
						<b>Add 10% escalation every year</b>		<b>1349</b>
						<b>Unit Rate as per FSR 2032-33</b>		<b>14842</b>
						<b>Add 10% escalation every year</b>		<b>1484</b>
						<b>Unit Rate as per FSR 2033-34</b>		<b>16326</b>
						<b>Add 10% escalation every year</b>		<b>1633</b>
						<b>Unit Rate as per FSR 2034-35</b>		<b>17959</b>
						<b>Add 10% escalation every year</b>		<b>1796</b>
						<b>Unit Rate as per FSR 2035-36</b>		<b>19755</b>

  
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