

**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 / clay soil, FYM in 2:1:1 ratio. To this soil mixture, 220 gm of Indophyll M-45, 4.5 kg of single super phosphate (SSP) and 250 gm of phorate granules per 1 cum of potting mixture will be added.						
		<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
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



Sl. No.	FSR Code No.	Item of work	Qty	As per FSR	Agency allowance 25%	Total	Per	Amount
1	2	3	4	5	6	7	8	9
20	01.03.13	Weeding the During the Mar	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 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.				57.00
24	01.03.18	Weeding in the space between the beds, inspection path and surroundings 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 separate log book to be						368.00
							S.TOTAL::	8607.36
							Raising of Nursery Unit Rate as per FSR 2022-23	9290.98
							Add 10% escalation	929.00
							Rate for 2023-24	10219.98
							Per Seedling	5.47

  
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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 Nursery	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 **1.51**

  
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**Unit Cost Maintenance of Misc., Bag Plants (9x11) Nursery (08/2024 to 03/2025= 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>
							<b>Unit cost per Seedling</b>	<b>5.26</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
				As per 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. <del>Cost of chemicals is as per actuals</del>						
	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 Novemebr - 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>

  
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**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>
				<b>Add 10% escalation every year</b>				<b>7231</b>
				<b>Unit Rate as per FSR 2025-26</b>				<b>79537</b>
				<b>Add 10% escalation every year</b>				<b>7954</b>
				<b>Unit Rate as per FSR 2026-27</b>				<b>87491</b>

  
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# 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	1111 Nos	98.51	24.63	123.14	100 Nos	1368
4	02.09.05	Cost of preparation of stakes i) 0.45m length and transportation to site	1111 Nos	59.81	0.00	59.81	100 Nos	664
		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)	1111 Nos	1323.00	0.00	1323.00	100 Nos	14699
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	1111 Nos	9.95	2.49	12.44	1 No	13821
		<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	1111 Nos	294.83	0	294.83	100 Nos	3276
b)	02.09.08	<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	1111 Nos	10.36	0	10.36	100 Nos	2302
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						
	d	23 cm x 28 cm (9" x 11") bag plants	1111 Nos	5.03	0	5.03	100 Nos	279
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	1111 Nos	181.73	45.43	227.16	100 Nos	2524
	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	1111 Nos	43.29	10.82	54.11	100 Nos	601
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	1111 Nos	482.33	120.58	602.91	100 Nos	6698
	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	1111 Nos	292.02	73.01	365.03	100 Nos	4055
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</b>						







# Unit Cost

## Unit Cost for 1st 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
				As per FSR	Agency allowance 25%	Total		
1	2	3	4	5	6	7	8	9
1	02.10.01	Replacement of Casualties: 25% in 1st year (In case of Eucalyptus: no casualty replacement). The list of all casualty points shall be prepared by concerned FRO by and made a report to DFO latest by end of May. The pitting of all such casualty points shall be over by end of June. The planting						
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	278 Nos	9.95	2.49	12.44	1 No	3458
		<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	278 Nos	294.83	0	294.83	100 Nos	820
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	278 Nos	10.36	0	10.36	100 Nos	576
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 approval of Circle Head)						
	d	23 cm x 28 cm (9" x 11") bag plants	278 Nos	5.03	0	5.03	100 Nos	70
7	02.09.10	Internal transportation to planting points on head loads						
	d	23 cm x 28 cm (9" x 11") bag plants	278 Nos	181.73	45.43	227.16	100 Nos	632
	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	278 Nos	43.29	10.82	54.11	100 Nos	150
9		(b) Cost of SSP, Chloridine dust or Chloropyriphos	14 Kgs	10.00	0.00	10.00	1 Kg	140
10		<b>Planting</b>						
	02.09.12	45 cm3	278 Nos	482.33	120.58	602.91	100 Nos	1676
	02.10.02	Cost of DAP @25 gm / planting point	1111 Nos	1.00	0.00	1.00	1 Nos	1111
11	02.10.03	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.	1111 Nos	137.76	34.44	172.20	100 Nos	1913
12	02.10.04	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 Nos	723.51	180.88	904.39	100 Nos	10048
	02.10.05	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 Ha	4025.12	0.00	4025.12	1 Ha.	4025
13	02.10.06	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		0.00	200.00	1 Ha.	1000
		(b) Inter ploughing using tractors with cultivator in 1st year maintenance and old plantations	1 Ha	2300.40	0.00	2300.40	1 Ha.	2300
		(c) Broadcasting of S. hamata seeds followed by by dragging / sweeping with a bunch of thorny branches to ensure a thin cover of soil over the broadcasted seeds.	1 Ha	97.93	0.00	97.93	1 Ha.	98
14	02.10.07	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July-Aug)	1111 Nos	137.00	34.25	171.25	100 Nos	1903
	02.10.09	Contingencies provision for maintenance of plantations:						
		i) Maintenance of Plantation Boards and Corner Stones	As per Actuals					500
		ii) Contingencies and Miscellaneous (with in 3% of the estimate cost subject to ceiling of Rs. 3,000/-)	As per Actuals					913
								<b>Unit Rate as per FSR 2022-23</b>
								<b>31333</b>
								<b>Add 10% escalation every year</b>
								<b>3133</b>
								<b>Unit Rate as per FSR 2023-24</b>
								<b>34466</b>
								<b>Add 10% escalation every year</b>
								<b>3447</b>
								<b>Unit Rate as per FSR 2024-25</b>
								<b>37913</b>
								<b>Add 10% escalation every year</b>
								<b>3791</b>
								<b>Unit Rate as per FSR 2025-26</b>
								<b>41704</b>
								<b>Add 10% escalation every year</b>
								<b>4170</b>
								<b>Unit Rate as per FSR 2026-27</b>
								<b>45874</b>

  
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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	1111 Nos	1.00	0.00	1.00	1 Nos	1111
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)	1111 Nos	723.51	180.88	904.39	100 Nos	10048
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)	1111 Nos	137.00	34.25	171.25	100 No	1903
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					374
				Unit Rate as per FSR 2022-23				15862
				Add 10% escalation every year				1586
				Unit Rate as per FSR 2023-24				17448
				Add 10% escalation every year				1745
				Unit Rate as per FSR 2024-25				19193
				Add 10% escalation every year				1919
				Unit Rate as per FSR 2025-26				21112
				Add 10% escalation every year				2111
				Unit Rate as per FSR 2026-27				23223
				Add 10% escalation every year				2322
				Unit Rate as per FSR 2027-28				25545

  
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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)	1111 Nos	723.51	180.88	904.39	100 Nos	10048
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)	1111 Nos	137.00	34.25	171.25	100 No	1903
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.	1111 Nos	137.76	34.44	172.20	100 Nos	1913
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					431
				Unit Rate as per FSR 2022-23				14795
				Add 10% escalation every year				1480
				Unit Rate as per FSR 2023-24				16275
				Add 10% escalation every year				1628
				Unit Rate as per FSR 2024-25				17903
				Add 10% escalation every year				1790
				Unit Rate as per FSR 2025-26				19693
				Add 10% escalation every year				1969
				Unit Rate as per FSR 2026-27				21662
				Add 10% escalation every year				2166
				Unit Rate as per FSR 2027-28				23828
				Add 10% escalation every year				2383
				Unit Rate as per FSR 2028-29				26211

  
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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)	1111	Nos	723.51	180.88	904.39	100	Nos	10048
2	02.11.04	Pruning of lower branch initials of Timber and NTFFP species by scicature upto 1/3 rd height (to be carried out during July-Aug)	1111	Nos	137.00	34.25	171.25	100	No	1903
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.	1111	Nos	137.76	34.44	172.20	100	Nos	1913
					<b>Unit Rate as per FSR 2022-23</b>					<b>13864</b>
					<b>Add 10% escalation every year</b>					<b>1386</b>
					<b>Unit Rate as per FSR 2023-24</b>					<b>15250</b>
					<b>Add 10% escalation every year</b>					<b>1525</b>
					<b>Unit Rate as per FSR 2024-25</b>					<b>16775</b>
					<b>Add 10% escalation every year</b>					<b>1678</b>
					<b>Unit Rate as per FSR 2025-26</b>					<b>18453</b>
					<b>Add 10% escalation every year</b>					<b>1845</b>
					<b>Unit Rate as per FSR 2026-27</b>					<b>20298</b>
					<b>Add 10% escalation every year</b>					<b>2030</b>
					<b>Unit Rate as per FSR 2027-28</b>					<b>22328</b>
					<b>Add 10% escalation every year</b>					<b>2233</b>
					<b>Unit Rate as per FSR 2028-29</b>					<b>24561</b>
					<b>Add 10% escalation every year</b>					<b>2456</b>
					<b>Unit Rate as per FSR 2029-30</b>					<b>27017</b>
					<b>Add 10% escalation every year</b>					<b>2702</b>
					<b>Unit Rate as per FSR 2030-31</b>					<b>29719</b>
					<b>Add 10% escalation every year</b>					<b>2972</b>
					<b>Unit Rate as per FSR 2031-32</b>					<b>32691</b>
					<b>Add 10% escalation every year</b>					<b>3269</b>
					<b>Unit Rate as per FSR 2032-33</b>					<b>35960</b>
					<b>Add 10% escalation every year</b>					<b>3596</b>
					<b>Unit Rate as per FSR 2033-34</b>					<b>39556</b>
					<b>Add 10% escalation every year</b>					<b>3956</b>
					<b>Unit Rate as per FSR 2034-35</b>					<b>43512</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 sciculture upto 1/3 rd height (to be carried out during July-Aug)	1111 Nos	137.00	34.25	171.25	100 No	1903
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.	1111 Nos	137.76	34.44	172.20	100 Nos	1913
						<b>Unit Rate as per FSR 2022-23</b>		<b>3816</b>
						<b>Add 10% escalation every year</b>		<b>382</b>
						<b>Unit Rate as per FSR 2023-24</b>		<b>4198</b>
						<b>Add 10% escalation every year</b>		<b>420</b>
						<b>Unit Rate as per FSR 2024-25</b>		<b>4618</b>
						<b>Add 10% escalation every year</b>		<b>462</b>
						<b>Unit Rate as per FSR 2025-26</b>		<b>5080</b>
						<b>Add 10% escalation every year</b>		<b>508</b>
						<b>Unit Rate as per FSR 2026-27</b>		<b>5588</b>
						<b>Add 10% escalation every year</b>		<b>559</b>
						<b>Unit Rate as per FSR 2027-28</b>		<b>6147</b>
						<b>Add 10% escalation every year</b>		<b>615</b>
						<b>Unit Rate as per FSR 2028-29</b>		<b>6762</b>
						<b>Add 10% escalation every year</b>		<b>676</b>
						<b>Unit Rate as per FSR 2029-30</b>		<b>7438</b>
						<b>Add 10% escalation every year</b>		<b>744</b>
						<b>Unit Rate as per FSR 2030-31</b>		<b>8182</b>
						<b>Add 10% escalation every year</b>		<b>818</b>
						<b>Unit Rate as per FSR 2031-32</b>		<b>9000</b>
						<b>Add 10% escalation every year</b>		<b>900</b>
						<b>Unit Rate as per FSR 2032-33</b>		<b>9900</b>
						<b>Add 10% escalation every year</b>		<b>990</b>
						<b>Unit Rate as per FSR 2033-34</b>		<b>10890</b>
						<b>Add 10% escalation every year</b>		<b>1089</b>
						<b>Unit Rate as per FSR 2034-35</b>		<b>11979</b>
						<b>Add 10% escalation every year</b>		<b>1198</b>
						<b>Unit Rate as per FSR 2035-36</b>		<b>13177</b>

  
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