

Unit Cost for Raising of Misc., Nursery as per FSR 2021-22

Sl. No.	SR 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	1.38	0.35	1.73	1 Bed	1.73
2	01.01.03	Digging soil of the demarcated beds of 1x1x0.30 m size	1 Bed	42.06	10.52	52.58	1 Bed	52.58
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	31.81	0.00	31.81	1 Bed	31.81
4	01.01.05	For every extra km beyond 5 km upto 25 km	1 Bed	1.27	0	1.27	1 Bed	31.75
5	01.01.06	Cost and transport of 0.025 cum FYM	1 Bed	27.34	0	27.34	1 Bed	27.34
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	11.96	2.99	14.95	1 Bed	14.95
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	13.67	3.42	17.09	1 Bed	17.09
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				400.00
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 naddy hay including cost and conveyance	1 Bed	13.62	3.41	17.03	1 Bed	17.03
10	01.01.13	Watering the primary nursery beds with rose water cans twice daily for a maximum period of 2 months.	1 Bed	15.32	3.83	19.15	1 Bed	38.30
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				15.00
							S.TOTAL::	647.58
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	14.61	3.65	18.26	1 Bed	18.26
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 Indophyl 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.						
		Transportation of soil mixture ingredients						
	a)	a) Distance up to 5 km						
	01.03.05 (C)	(b) 12.5 cm x 22.5 cm (5" x 9") = 1.12 cum vol. for 1000 bags	1700 Nos	434.94	0.00	434.94	1000 Nos	739.40
	b)	b) For every extra km beyond 5 km upto 25 km						
	01.03.06 (C)	(b) 12.5 cm x 22.5 cm (5" x 9") = 1.12 cum vol. for 1000 bags	1700 Nos	11.33	0.00	11.33	1000 Nos	385.22
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	1050.46	262.62	1313.08	1000 Nos	2232.24
16	01.03.09	Allignment of beds including allignment of inspection paths etc	1 Bed	8.38	2.10	10.48	1 Bed	10.48
17	01.03.10	Pricking out seedlings from primary beds and transplanting into polybags	1700 Nos	155.12	38.78	193.90	1000 Nos	329.63
18	01.03.11	Sowing / dibbling of pretreated seeds (e.g. Yegisa, Nalamadi, Yerumaddi etc.) directly into bags including cost of treatment	1700 Nos	92.28	23.07	115.35	1000 Nos	196.10
19		Watering the plants twice a day from Feb - Mar						
	01.03.12	a) Manually with rose spray or finely perforated nozzle attached to a hose pipe	1 Bed	301.09	75.27	376.36	1 Bed/ Month	1505.44
20	01.03.13	Weeding the During the Mar	1 Bed	55.29	13.82	69.11	1 Bed/ Week	276.44
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	258.26	64.57	322.83	1 Bed/ Shifting	322.83

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
22	01.03.15	Replacement of casualties after sorting out the empty bags and keeping at one end of the bed (maximum	1 Bed	73.32	18.33	91.65	1 Bed	91.65
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.				52.00
24	01.03.18	Weeding in the space between the beds, inspection path and surroundings of Nursery	1 Bed	37.71	9.43	47.14	1 Bed	47.14
	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.)						239.00
	01.03.39	Contingencies for Electricity charges, Running & maintenance charges of oil engine (bills to be certified by DEO / FDO and a separate log book to be						350.00
24	01.05.04	Cost of Protection: One Nursery Watcher is allowed up to 1 lakh RT nursery or 100 secondary beds of polybags / 100 Teak beds of 10 x 1 m size or combination of both. One additional Nursery Watcher is permitted for nurseries having more than 1 lakh upto 3 lakh RT seedlings or more than 100 upto 300 secondary beds or Teak beds of 10 x 1 m size or combination of both. For more than 3 lakh RT or 300 secondary beds of Teak beds or combination of both another additional Nursery Watcher is allowed. While calculating the number of Nursery Watcher, care shall be taken to include the nursery raising under all Schemes at a particular site. No extra Nursery Watcher is allowed for primary beds of 1x1 m size. However, the above narrative is subject to the provisions cited	1 No.	9654.59				1158.55
							S.TOTAL::	9059.38
							Raising of Nursery Unit Rate as per FSR 2021-22	9706.96
							Add 10% escalation	971.00
							Rate for 2022-23	10677.96
							Per Seedling	5.71


 Forest Divisional Officer
 Paloncha
 08/04/2022

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


**Unit Cost Maintenance of Misc., Bag Plants (5X9) Nursery (04/21 to 07/21= 4 Months)
as per FSR 2021-22**

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	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							
	a	Manually with rose cans or finely perforated nozzle attached to a hose pipe	1 x 4	Beds x month	301.09	75.27	376.36	1 Bed/ Month	1505.00
2	01.04.02	Weeding once during maintenance year	1	Bed	55.29	13.82	69.11	1 Bed	69.00
3	01.04.03	Shifting, grading and re-arranging in beds	1 x 1	Beds x shifting	258.26	64.57	322.83	1 Bed/ shifting	646.00
	01.04.05	Cost of foliar nutrient formulations like NPK-19:19:19; fungicides and insecticides (from April - August)							10.00
4	01.04.06	Cowdung Slurry application (One can apply chemical foliar spray or apply cowdung slurry - not both)							
		(a) Cost and transportation of fresh cowdung	1	Bed	As per actual subject to maximum of Rs. 2500/-				12.50
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	30.43	7.61	38.04	1 Bed	38.00
	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						68.00
	01.04.09	Contingencies for Electricity charges, Running & maintenance charges of oil engine (Bills to be certified by DFO / FDO and a separte log book to be maintained for oil engine)	As per Actual						91.00
7	01.05.04	Cost of Protection: One Nursery Watcher is allowed up to 1 lakh RT nursery or 100 secondary beds of polybags / 100 Teak beds of 10 x 1 m size or combination of both.	1	No.	9654.59				193.09
								S.TOTAL::	2632.59
								Unit Rate as per FSR 2021-22::	2632.59
								Add 10% escalation::	263.00
								Total unit rate arrived for the year 2022-23::	2895.59
								Add 10% escalation::	290.00
								Total unit rate arrived for the year 2023-24::	3185.59
								Unit cost per Seedling	5.22

Unit cost per Seedling **5.27**


Unit Cost Maintenance of Misc., Bag Plants (9x11) Nursery (08/21 to 03/22= 8 Months)
as per FSR 2021-22

as per FSR 2021-22									
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	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	1 x 8	Beds x month	185.99	46.50	232.49	1 Bed/ Month	1860.00
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	258.26	64.57	322.83	1 Bed/ shifting	646.00
3	01.05.04	Cost of Protection: One Nursery Watcher is allowed up to 1 lakh RT nursery or 100 secondary beds of polybags / 100 Teak beds of 10 x 1 m size or combination of both. One additional Nursery Watcher is permitted for nurseries having more than 1 lakh upto 3 lakh RT seedlings or more than 100 upto 300 secondray beds or Teak beds of 10 x 1 m size or combination of both. For more than 3 lakh RT or 300 secodary beds of Teak bedsor combination of both another additional Nursery Watcher is allowed. While calculating the number of Nursery Watcher, care shall be taken to include the nursery raising under all Schemes at a particular site. No extra Nursery Watcher is allowed for primary beds of 1x1 m size. However, the above narrative is subject to the provisions cited under general instructions.	1 No.		9654.59				386.18
								S.TOTAL::	2892.18
								Unit Rate as per FSR 2021-22	2892.18
								Add 10% escalation	289.00
								Rate for 2022-23	3181.18
								Add 10% escalation	318.00
								Rate for 2023-24	3499.18
								Add 10% escalation	350.00
								Rate for 2024-25	3849.18
								Add 10% escalation	385.00
								Rate for 2025-26	4234.18
								Unit cost per Seedling	5.78


 Forest Divisional Officer
 Paloncha
 05/02/2022

Unit Cost for Conversion of Misc., Nursery from 5X9 to 9X11 bags as per FSR 2021-22

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 polybags).						
	01.03.20	Cost and Transport of ingredients for Potting Mixture: Red Soil, tank-silt / clay soil, FYM in 2:1:1 ratio. To this soil mixture, 220 gm of Indophyll M-45, 4.5 kg of single super phosphate (SSP) and 250 gm of phorate granules per 1 cum of potting mixture will be added. Cost of chemicals is as per actuals						
	01.03.21	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	1437.93	0.00	1437.93	1000 Nos	718.97
	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	36.34	0.00	36.34	1000 Nos	363.40
		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				400.00
	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	2490.23	622.56	3112.79	1000 Nos	1556.40
	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	5250.00	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	55.29	13.82	69.11	1 Bed	69.11
	b	2nd weeding - February	1 Bed	55.29	13.82	69.11	1 Bed	69.11
	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	258.26	64.57	322.83	1 Bed/ Weeding	322.83
	01.03.33	Watering the plants manually twice a day (from Novermebr - 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	301.15	75.29	376.44	1 Bed/ month	1882.20
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.				10.00
	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.)						271.00
	01.03.37	Contingencies for Electricity charges, Running & maintenance charges of oil engine (bills to be certified by DEO / FDO and a separate log book to be maintained)						350.00
24	01.05.04	Cost of Protection: One Nursery Watcher is allowed up to 1 lakh RT nursery or 100 secondary beds of polybags / 100 Teak beds of 10 x 1 m size or combination of both. One additional Nursery Watcher is permitted for nurseries having more than 1 lakh upto 3 lakh RT seedlings or more than 100 upto 300	1 No.	9654.59				1158.55
							S.TOTAL::	10819.07
							Conversion Unit Cost Unit Rate as per FSR 2021-22	10819.07
							Add 10% escalation	1082.00
							Rate for 2022-23	11901.07
							Add 10% escalation	1190.00
							Rate for 2023-24	13091.07
							Per seedlin	9.84


 Forest Divisional Officer
 Paloncha
 08/02/2023

Espacement 3 x 3 M

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.	393.21	0.00	393.21	1 No.	393
2	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,						
	a	<i>Sparse Jungle growth</i> (< 10% ground area covered Jungle growth)	0.3 Ha	2185.43	546.36	2731.79	0.3 Ha	820
	b	<i>Very Light Jungle growth</i> (>10% and up to 20% ground area covered with Jungle growth)	0.3 Ha	3284.95	821.24	4106.19	0.3 Ha	1232
	c	Light Jungle Growth (> 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on field inspection of DFO.	0.4 Ha	7717.50	1929.38	9646.88	0.4 Ha	3859
3	02.08.03	Uprootal of Stumps (excluding unsuitable patches) to a minimum depth of 45 cm with heavy machinery fitted with 0.90						
	a	<i>Sparse Jungle growth</i> (< 10% ground area covered with Jungle growth)	0.3 Ha	5702.73	0.00	5702.73	0.3 Ha	1711
	b	<i>Very Light Jungle growth</i> (>10% and up to 20% ground area covered with Jungle growth)	0.3 Ha	11037.51	0.00	11037.51	0.3 Ha	3311
	c	Light Jungle Growth (> 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on field	0.4 Ha	14349.28	0	14349.28	0.4 Ha	5740
4	02.08.04	Collection and Removal of Uprooted Stumps of all sizes, other debris etc., to outside the plantation site.						
	a	<i>Sparse Jungle growth</i> (< 10% ground area covered Jungle growth)	0.3 Ha	6085.91	1521.48	7607.39	0.3 Ha	2282
	b	<i>Very Light Jungle growth</i> (>10% and up to 20% ground area covered with Jungle growth)	0.3 Ha	9657.68	2414.42	12072.10	0.3 Ha	3622
	c	Light Jungle Growth (> 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on field inspection of DFO.	0.4 Ha	11260.88	2815.22	14076.10	0.4 Ha	5630
5		Tilling (PERMISSIBLE FOR CA AREA ONLY) the soil to a depth of 45 cm in the						
		(a) <i>Sparse Jungle growth</i> (< 10% ground area covered Jungle growth)	0.3 Ha	18016.52		18016.52	0.3 Ha	5405
		(b) <i>Very Light Jungle growth</i> (>10% and up to 20% ground area covered with Jungle growth)	0.3 Ha	15359.08		15359.08	0.3 Ha	4608
		(c) <i>Light Jungle Growth</i> (> 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on field	0.4 Ha	10628.26		10628.26	0.4 Ha	4251
6		Digging of CPT	300 cum	42.40		42.40	1 cum	12720
				Unit Rate as per FSR 2021-22				55584
				Add 10% escalation every year				

N. [Signature]
Forest Divisional Officer
Paloncha
08/02/2022

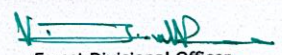
Unit Cost for Raising of NTSH Plantations under Semi Mechanical Method as per FSR 2021-22

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	1119.37	279.84	1399.21	1 Ha.	1399
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	3361.60	0	3361.60	1 Ha.	3362
3	02.09.04	Alignment & Stacking including demarcation of base line						
a)		(c) 3X3 m espacement = 1111 planting points	1111 Nos	93.82	23.46	117.28	100 Nos	1303
4	02.09.05	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	59.81	0.00	59.81	100 Nos	664
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	11.19	2.80	13.99	1 No	15543
		PLANTING OPERATIONS DURING RAISING YEAR						
6	02.09.07	(a) Transportation of Planting Stock (including loading and unloading) up to a distance of 5 km						
	b	23 cm x 28 cm (9" x 11") bag plants	1111 Nos	268.03	0	268.03	100 Nos	2978
b)	02.09.08	(b) Transportation of Planting Stock (including loading and unloading) more than 5 km distance and upto 25 km distance						
	b	23 cm x 28 cm (9" x 11") bag plants	1111 Nos	9.42	0	9.42	100 Nos	2093
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						
	b	23 cm x 28 cm (9" x 11") bag plants	1111 Nos	4.57	0	4.57	100 Nos	254
7	02.09.10	Internal transportation to planting points on head loads						
	b	23 cm x 28 cm (9" x 11") bag plants	1111 Nos	173.08	43.27	216.35	100 Nos	2404
	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	1111 Nos	41.23	10.31	51.54	100 Nos	573
9		(b) Cost of SSP, Chloridine dust or Chloropyriphos	84 Kgs	10.00	0.00	10.00	1 Kg	840
10		Planting						
	02.09.12	45 cm3	1111 Nos	459.36	114.84	574.20	100 Nos	6379
	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)	1111 Nos	278.11	69.53	347.64	100 Nos	3862
11	02.09.15	Replacement of Casualties: 20% during Raising Year. (In case of Eucalyptus: 10% during raising and no casualty replacement for further maintenance). The casualty replacement should be done in 3 stages at an interval of 15 days immediately after planting during raising year						
5	02.09.06	Digging of Pits in Ploughed Areas in June - July by adopting 50% of original rate of digging of						
	b	45 cm3 pits	222 Nos	11.19	2.80	13.99	1 No	3106

Unit Cost

Unit Cost for 1st year maintenance of NTSH Plantations Raised under Semi Mechanical Method as per FSR 2021-22

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	11.19	2.80	13.99	1 No	3889
		PLANTING OPERATIONS DURING RAISING YEAR						
6	02.09.07	(a) Transportation of Planting Stock (including loading and unloading) up to a distance of 5 km						
	b	23 cm x 28 cm (9" x 11") bag plants	278 Nos	268.03	0	268.03	100 Nos	745
	b)	(b) Transportation of Planting Stock (including loading and unloading) more than 5 km distance and upto 25 km distance						
	b	23 cm x 28 cm (9" x 11") bag plants	278 Nos	9.42	0	9.42	100 Nos	524
	c)	(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)						
	b	23 cm x 28 cm (9" x 11") bag plants	278 Nos	4.57	0	4.57	100 Nos	64
7	02.09.10	Internal transportation to planting points on head loads						
	b	23 cm x 28 cm (9" x 11") bag plants	278 Nos	173.08	43.27	216.35	100 Nos	601
	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 Chloropyrifos solution (5ml Chloropyrifos in 1 lit water) either at nursery site before transport or at	278 Nos	41.23	10.31	51.54	100 Nos	143
9		(b) Cost of SSP, Chloridine dust or Chloropyrifos	14 Kgs	10.00	0.00	10.00	1 Kg	140
10		Planting						
	02.09.12	45 cm3	278 Nos	459.36	114.84	574.20	100 Nos	1596
11	02.10.02	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.	1111 Nos	131.20	32.80	164.00	100 Nos	1822
12	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 Nos	689.06	172.27	861.33	100 Nos	9569
	02.10.04	Uprootal of Mahaveera (Hyptis suaveolens) weed with prior written approval of Circle Head and taking photograph before and after uprootal. The weed removal shall be completed before August-end (before flowering) at any cost before inter-ploughing.	1 Ha	3833.45	0.00	3833.45	1 Ha.	3833
13	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. This operation shall be carried out after Mahaveera uprootal is completed. Inter-	1 Ha	2553.54	0.00	2553.54	1 Ha.	2554
14	02.10.06	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	130.48	32.62	163.10	100 Nos	1812
	02.10.05	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	2091.27	0.00	2091.27	1 Ha.	2091
		(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	93.27	23.32	116.59	1 Ha.	117
	02.10.08	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					915
15	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	1 Nos	9654.59	0.00	9654.59	1 Month	5793
		Unit Rate as per FSR 2021-22						37208
		Add 10% escalation every year						



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Unit Cost

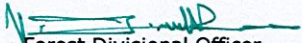
**Unit Cost for 2nd year maintenance of NTSH Plantations under
Semi Mechanical Method as per FSR 2021-22**

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	02.11.01	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	2195.83	0.00	2195.83	1 Ha.	2196
		(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	93.27	23.32	116.59	1 Ha.	117
2	02.11.02	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (July-Aug)	1111 Nos	689.06	172.27	861.33	100 Nos	9569
3	02.11.03	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be carried out during July-Aug)	1111 Nos	130.48	32.62	163.10	100 No	1812
4	02.11.05	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					356
5	02.11.06	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 incidence of grazing and fire is absent. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival during 1st year maintainance period.	1 Nos	9654.59			1 Month	5793
				Unit Rate as per FSR 2021-22				20843
				Add 10% escalation every year				


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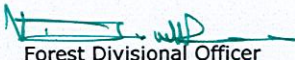
**Unit Cost for 3rd year maintenance of NTSH Plantations
under Semi Mechanical Method as per FSR 2021-22**

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	02.11.02	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (July-Aug)	1111 Nos	689.06	172.27	861.33	100 Nos	9569
2	02.11.03	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be carried out during July-Aug)	1111 Nos	130.48	32.62	163.10	100 No	1812
3	02.10.02	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.	1111 Nos	131.20	32.80	164.00	100 Nos	1822
4	02.11.05	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					411
5	02.11.06	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 incidence of grazing and fire is absent. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival during 1st year maintainance period.	1 Nos	9654.59			1 Month	5793
Unit Rate as per FSR 2021-22								19907
Add 10% escalation every year								



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**Unit Cost for 5th, 7th, 9th year maintenance of NTSH Plantations
Raised under Semi Mechanical Method as per FSR 2021-22**

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	02.11.02	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (July-Aug)	1111 Nos	689.06	172.27	861.33	100 Nos	9569
2	02.11.03	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be carried out during July-Aug)	1111 Nos	130.48	32.62	163.10	100 No	1812
3	02.10.02	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.	1111 Nos	131.20	32.80	164.00	100 Nos	
4	02.11.06	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 incidence of grazing and fire is absent. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival during 1st year maintainance period.	1 Nos	9654.59			1 Month	
Unit Rate as per FSR 2021-22								11381
Add 10% escalation every year								



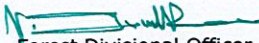
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**Unit Cost for 4th, 6th, 8th, 10th year maintenance of NTSH Plantations
Raised under Semi Mechanical Method as per FSR 2021-22**

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	02.11.02	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (July-Aug)	1111 Nos	689.06	172.27	861.33	100 Nos	
2	02.11.03	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be carried out during July-Aug)	1111 Nos	130.48	32.62	163.10	100 No	1812
3	02.10.02	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.	1111 Nos	131.20	32.80	164.00	100 Nos	1822
4	02.11.06	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 incidence of grazing and fire is absent. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival during 1st year maintainance period.	1 Nos	9654.59			1 Month	
Unit Rate as per FSR 2021-22								3634
Add 10% escalation every year								


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