

**Unit Cost for Advance Operations for Raising of N.T.S.H. Plantations 3m X 2m. (SMM)**

FSR Code	Item of work	Unit Rate per Ha			
		Qty	Rate (Rs.)	Per	Amount (Rs.)
02.08.01	Survey with GPS (Only staff to carry out) (Staff to carryout GPS Survey. One manday is allowed for assistance)	1	374.48	Plantation	374
02.08.02	Clearing unsalable unwanted jungle growth				
	(a) Sparse Jungle growth (< 10% ground area covered with Jungle growth)	0.2	2081.36	Ha	416
	(b) Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)	0.2	3128.53	Ha	626
	(c) Light Jungle Growth (> 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on the field inspection of DFO.	0.6	7350.00	Ha	4410
02.08.03	Uprootal of stumps				
	Uprootal of stumps in old eucalyptus plantations	1	18454.50	Ha	18455
02.08.04	Collection and Removal of uprooted stumps of all sizes				
	(a) Sparse Jungle growth (< 10% ground area covered with Jungle growth)	0.2	5796.11	Ha	1159
	(b) Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)	0.2	9197.79	Ha	1840
	(c) Light Jungle Growth (> 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on the field inspection of DFO.	0.6	10724.65	Ha	6435

Unit Rate for 2020 -21	33715
Unit Rate for 2021 -22	37087
Unit Rate for 2022 -23	40795
Unit Rate for 2023 -24	44875
Unit Rate for 2024 -25	49362
Unit Rate for 2025 -26	54298
Unit Rate for 2026 -27	59728
Unit Rate for 2027 -28	65701
Unit Rate for 2028 -29	72271



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Code		Item of work	Qty	Rate (Rs.)	Per	Unit Rate per Ha (Rs.)
1		2	3	4	5	6
02.08.05		Tilling (permissible for C.A.area only) the soil to a depth of 45cm in the effective area.	1	16378.65	Ha	16379
02.09.02		<b>Deep Ploughing</b> the effective (excluding unsuitable patches) plantation area across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough. <b>FOR TILLED AREA ONLY</b>	1	5109.90	Ha	5110
02.09.04		© Alignment and staking including laying base line for Misc species with espacement 3mX2m (1666 Nos)	1666	80.38	100	1339
02.09.05		Cost of 0.45 M Stake preparation and transportation to site.	1666	56.96	100	949
02.09.06		© Digging of 60 cm cube size pits - Half of the rate of Rs.9.28 *1.333*1.333*1.333 (Rate for 45 cm cube pit - Rs.9.28 per pit)	1666	10.66	1	17760
01.03.05		Cost and transportation of soil mixture for filling half of the pit and spreading around the pit - 0.6 cm x 0.6 cm x 0.6 cm = 0.216 cum	359.856	0.00	cum	0
		<b>Transportation</b> of Bag plants / Root trainer plants from nursery site to plantation site including loading and unloading		0.00		
02.09.07		upto 5 Km lead(20X30 cm (8"X12")bag plants)	1666	206.43	100	3439
02.09.08		5 Km to 25 Km lead(20X30 cm (8"X12")bag plants)	1666	7.65	100	127
		Internal transport of bag plants/root trainers to planting points on head loads.				
02.09.10		20X30 cm (8"X12")bag plants	1666	142.01	100	2366
02.09.11		Cost of SSP, Chloridine dust or Chloropyriphos	1666	1.10	1	1833
		Application of 50gm of SSP per pit	1666	39.27	100	654
		<b>Planting Bag Plants</b>				
02.09.13		Planting in 60 cm <sup>3</sup> Pit (for 45 cm <sup>3</sup> pit - Rs.381.54)	1666	437.48	100	7288
02.15.10		Cost of supporting stake of 2.5 m long sturdy and straight and minimum 10 cm girth at base	1666	16.53	1.00	27539
02.09.14		Watering to the plants - 4 times	1666	264.86	100	4413
02.09.15		Replacement of Casualties 20% during Raising & 25% in 1st year (In case of Eucalyptus 10% during raising and no causality replacement for further maintenance)		50% of rate of original pitting rate during raising year and 100% during maintenance years. Planting, Transportation and internal transportation as prescribed above.		
		© Digging of 60 cm cube size pits - Half of the rate of Rs.9.28 *1.333*1.333*1.333 (Rate for 45 cm cube pit - Rs.9.28 per pit)	333	5.33	1	1775
		Transportation	333	206.43	100	687
		Internal Transportation	333	142.01	100	473
		Planting in 60 cm <sup>3</sup> Pit (for 45 cm <sup>3</sup> pit - Rs.381.54)	333	437.48	100	1457
02.09.16		Cost of DAP @25gm / planting point	1666	2.00	1	3332
02.09.11		<b>Application</b> of fertilizer in August (30 days after planting) by making 3 holes of 10 cm depth with crow bar holes at a distance of 10 cm away from plant and putting fertilizers & closing.	1666	39.27	100	654
02.09.18	a)	Circular weeding to a radius of 0.50 m around the plant (during July - Aug)	1666	124.95	100	2082
02.09.19	b)	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant (during Nov - Dec.)	1666	656.25	100	10933
02.09.20	(b)	Inter ploughing with heavy duty tractor of 55 HP to a depth of 30 cm in Hard Gravelly Soils	1	3184.50	1	3185
02.09.22		Uprootal of Mahaveera Weed	1	3650.90	1	3651
02.09.24		<b>Cost of Protection:</b> One Watcher is allowed for 10-30 ha. plantation; One more Watcher 8017 x 9 = 72153 / 15 = 4810/-	1	9194.85	Ha	9195
		Unit Rate for 2020-21				126619
		Unit Rate for 2021-22				139281
		Unit Rate for 2022-23				153209
		Unit Rate for 2023-24				168530
		Unit Rate for 2024-25				185383
		Unit Rate for 2025-26				203922
		Unit Rate for 2026-27				224314
		Unit Rate for 2027-28				246745
		Unit Rate for 2028-29				271420
		Unit Rate for 2029-30				298562
		Unit Rate for 2030-31				328418

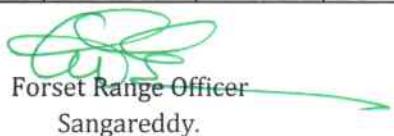


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Unit Cost for 1st Year Maintenance of NTSH Plantation (3m X 2 m) SMM per Ha

FSR Code	Item of work	Unit Rate per Ha			
		Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
02.10.01	Replacement of Casualties 25% during Raising & 25% in 1st year (In case of Eucalyptus 10% during raising and no casualty replacement for further maintenance) - 25 % proposed				50% of rate of original pitting rate during raising year and 100% during maintenance years. Planting, Transportation and internal transportation as prescribed above.
02.09.06	© Digging of 60 cm cube size pits - Half of the rate of Rs.9.28 *1.333*1.333*1.333 (Rate for 45 cm cube pit - Rs.9.28 per pit)	417	10.660	1	4445
02.09.07	Transportation up 5km	417	206.43	100	861
02.09.08	Transportation beyond 5 Km (25 - 5) = 20 KM	417	153.00	100	638
02.09.10	Internal Transportation	417	142.01	100	592
02.09.13	Planting in 60 cm <sup>3</sup> Pit (for 45 cm <sup>3</sup> pit - Rs.381.54)	417	437.48	100	1824
02.15.13	Watering to the plants- 4 waterings	1666	1059.44	100	17650
02.09.16	Cost of DAP @25gm / planting point-50% of raising cost	1666	1.00	1	1666
02.09.11	<b>Application</b> of fertilizer in August (30 days after planting) by making 3 holes of 10 cm depth with crow bar holes at a distance of 10 cm away from plant and putting fertilizers & closing. - 50% of rate	1666	39.27	100	654
02.10.02	<b>Circular weeding</b> to a radius of 0.50 m around the plant during raising year (July - Aug)	1666	124.95	100	2082
02.10.03	<b>Circular weeding cum Deep soil working</b> 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	656.25	100	10933
02.10.04	Uprootal of Mahaveera (70% of the area)	0.7	3650.90	Ha	2556
02.10.05	Inter-ploughing (during September) the effective plantation area (excluding unsuitable patches) across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough.	1	3184.50	Ha	3185
02.10.06	Pruning of flower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)	1666	124.27	100	2070
02.10.09	<b>Cost of Protection: One Watcher</b> is allowed for 10-30 ha. plantation; <b>One more Watcher</b> $9194.85 \times 12 = 110338 / 15 = 7356/-$	1	7356.00	Ha	7356
	Unit Rate for 2020-21				56512
	Unit Rate for 2021-22				62163
	Unit Rate for 2022-23				68380
	Unit Rate for 2023-24				75217
	Unit Rate for 2024-25				82739
	Unit Rate for 2025-26				91013
	Unit Rate for 2026-27				100114
	Unit Rate for 2027-28				110126
	Unit Rate for 2028-29				121138
	Unit Rate for 2029-30				133252
	Unit Rate for 2030-31				146578



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

FSR Code	Item of work	Unit Rate per Ha			
		Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
02.10.01	Replacement of Casualties 25% during Raising & 25% in 1st year (In case of Eucalyptus 10% during raising and no casualty replacement for further maintenance) 5% proposed				50% of rate of original pitting rate during raising year and 100% during maintenance years. Planting, Transportation and internal transportation as prescribed above.
02.09.06	© Digging of 60 cm cube size pits - Half of the rate of Rs.9.28 *1.333*1.333*1.333 (Rate for 45 cm cube pit - Rs.9.28 per pit)	83	10.660	1	885
02.09.07	Transportation up 5km	83	206.43	100	171
02.09.08	Transportation beyond 5 Km (25 - 5 ) = 20 KM	83	153.00	100	127
02.09.10	Internal Transportation	83	142.01	100	118
02.09.13	Planting in 60 cm <sup>3</sup> Pit (for 45 cm <sup>3</sup> pit - Rs.381.54)	83	437.48	100	363
02.10.05	Inter-ploughing (during September) the effective plantation area (excluding unsuitable patches) across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough.	1	3184.50	Ha	3185
02.11.01	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (July-Aug)	1666	656.25	100	10933.00
02.11.02	Pruning of flower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)	1666	124.27	100	2070.00
02.01.03	Formation of Sector Lines / Fire Lines to a width of 3 m by giving surface treatment (sector to be in conformity with slope direction ). All stumps to be cut to ground level.	100	6.14	Rmt	614
02.10.04	Uproot of Mahaveera (60% of the area)	0.6	3650.90	Ha	2191
02.11.05	<b>Cost of Protection: One Watcher</b> is allowed for 10-30 ha. plantation; <b>One more Watcher</b> 9194.85 x 12 = 110338 / 15 = 7356/-	1	7356.00	Ha	7356.00
	Unit Rate for 2020 -21				28013
	Unit Rate for 2021 -22				30814
	Unit Rate for 2022 -23				33896
	Unit Rate for 2023 -24				37285
	Unit Rate for 2024 -25				41014
	Unit Rate for 2025 -26				45115
	Unit Rate for 2026 -27				49627
	Unit Rate for 2027 -28				54589
	Unit Rate for 2028-29				60048
	Unit Rate for 2029-30				66053
	Unit Rate for 2030-31				72659

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

FSR Code	Item of work	Unit Rate per Ha			
		Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
02.11.01	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (July-Aug)	1666	656.25	100	10933
02.11.02	Pruning of flower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)	1666	124.27	100	2070
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	100	608.27	100 Rmt	608
02.11.05	<b>Cost of Protection: One Watcher</b> is allowed for 10-30 ha. plantation; <b>One more Watcher</b> $9194.85 \times 12 = 110338 / 15 = 7356/-$	1	7356.00	Ha	7356
	Unit Rate for 2020 -21				20967
	Unit Rate for 2021 -22				23064
	Unit Rate for 2022 -23				25370
	Unit Rate for 2023 -24				27907
	Unit Rate for 2024 -25				30698
	Unit Rate for 2025 -26				33768
	Unit Rate for 2026 -27				37145
	Unit Rate for 2027 -28				40859
	Unit Rate for 2028-29				44945
	Unit Rate for 2029-30				49440
	Unit Rate for 2030-31				54384

  
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Unit Cost for 4th Year Maintenance of NTSH Plantation (3m X 2m) SMM per Ha

FSR Code	Item of work	Unit Rate per Ha			
		Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
02.11.01	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (July-Aug)	1666	656.25	100	10933
02.11.02	Pruning of flower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)	1666	124.27	100	2070
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	100	608.27	100 Rmt	608
02.11.05	<b>Cost of Protection: One Watcher</b> is allowed for 10-30 ha. plantation; <b>One more Watcher</b> $9194.85 \times 12 = 110338 / 15 = 7356/-$	1	7356.00	Ha	7356
	Unit Rate for 2020 -21				20967
	Unit Rate for 2021 -22				23064
	Unit Rate for 2022 -23				25370
	Unit Rate for 2023 -24				27907
	Unit Rate for 2024 -25				30698
	Unit Rate for 2025 -26				33768
	Unit Rate for 2026 -27				37145
	Unit Rate for 2027 -28				40859
	Unit Rate for 2028-29				44945
	Unit Rate for 2029-30				49440
	Unit Rate for 2030-31				54384

  
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Unit Cost for 5th Year Maintenance of NTSH Plantation (3m X 2m) SMM per Ha

**Unit Rate per Ha**

FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
02.11.01	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick axe only) without damaging the plant. (July-Aug)- the work will be carried out between 1 m to 1.1 m in a ring formation- Hence 25% of cost adopted	1666	656.25	100	10933
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	100	608.27	100 Rmt	608
	Unit Rate for 2020 -21				<b>11541</b>
	Unit Rate for 2021 -22				12695
	Unit Rate for 2022 -23				13965
	Unit Rate for 2023 -24				15361
	Unit Rate for 2024 -25				16898
	Unit Rate for 2025 -26				18587
	Unit Rate for 2026 -27				20446
	Unit Rate for 2027 -28				22491
	Unit Rate for 2028-29				24740
	Unit Rate for 2029-30				27214
	Unit Rate for 2030-31				29935



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**Unit Cost for 6th Year Maintenance of NTSH Plantation (3m X 2m) SMM per Ha**

**Unit Rate per Ha**

FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
02.11.02	Pruning of flower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)	1666	124.27	100	2070
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	100	608.27	100 Rmt	608
	Unit Rate for 2020 -21				2678
	Unit Rate for 2021 -22				2946
	Unit Rate for 2022 -23				3241
	Unit Rate for 2023 -24				3565
	Unit Rate for 2024 -25				3921
	Unit Rate for 2025 -26				4313
	Unit Rate for 2026 -27				4745
	Unit Rate for 2027 -28				5219
	Unit Rate for 2028-29				5741
	Unit Rate for 2029-30				6315
	Unit Rate for 2030-31				6947

  
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Unit Cost for 7th Year Maintenance of NTSH Plantation (3m X 2m) SMM per HaUnit Rate per Ha

FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
02.11.01	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (July-Aug)- the work will be carried out between 1 m to 1.1 m in a ring formation- Hence 25% of cost adopted	1666	656.25	100	10933
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - proportionate cost - 0.60 times	100	608.27	100 Rmt	608
	Unit Rate for 2020 -21				11541
	Unit Rate for 2021 -22				12695
	Unit Rate for 2022 -23				13965
	Unit Rate for 2023 -24				15361
	Unit Rate for 2024 -25				16898
	Unit Rate for 2025 -26				18587
	Unit Rate for 2026 -27				20446
	Unit Rate for 2027 -28				22491
	Unit Rate for 2028-29				24740
	Unit Rate for 2029-30				27214
	Unit Rate for 2030-31				29935
	Unit Rate for 2030-31				32929



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Unit Cost for 8th Year Maintenance of NTSH Plantation (3m X 2m) SMM per Ha

FSR Code	Item of work	Unit Rate per Ha			
		Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
02.11.02	Pruning of flower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)	1666	124.27	100	2070
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	100	608.27	100 Rmt	608
	Unit Rate for 2020 -21				2678
	Unit Rate for 2021 -22				2946
	Unit Rate for 2022 -23				3241
	Unit Rate for 2023 -24				3565
	Unit Rate for 2024 -25				3921
	Unit Rate for 2025 -26				4313
	Unit Rate for 2026 -27				4745
	Unit Rate for 2027 -28				5219
	Unit Rate for 2028-29				5741
	Unit Rate for 2029-30				6315
	Unit Rate for 2030-31				6947
	Unit Rate for 2031-32				7641

  
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Unit Cost for 9th Year Maintenance of NTSH Plantation (3m X 2m) SMM per HaUnit Rate per Ha

FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
02.11.01	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick axe only) without damaging the plant. (July-Aug)- the work will be carried out between 1 m to 1.1 m in a ring formation- Hence 25% of cost adopted	1666	656.25	100	10933
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - proportionate cost - 0.60 times	100	608.27	100 Rmt	608
	Unit Rate for 2020-21				11541
	Unit Rate for 2021-22				12695
	Unit Rate for 2022-23				13965
	Unit Rate for 2023-24				15361
	Unit Rate for 2024-25				16898
	Unit Rate for 2025-26				18587
	Unit Rate for 2026-27				20446
	Unit Rate for 2027-28				22491
	Unit Rate for 2028-29				24740
	Unit Rate for 2029-30				27214
	Unit Rate for 2030-31				29935
	Unit Rate for 2031-32				32929



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

FSR Code	Item of work	Unit Rate per Ha			
		Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
02.11.02	Pruning of flower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)	1666	124.27	100	2070
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	100	608.27	100 Rmt	608
	Unit Rate for 2020 -21				2678
	Unit Rate for 2021 -22				2946
	Unit Rate for 2022 -23				3241
	Unit Rate for 2023 -24				3565
	Unit Rate for 2024 -25				3921
	Unit Rate for 2025 -26				4313
	Unit Rate for 2026 -27				4745
	Unit Rate for 2027 -28				5219
	Unit Rate for 2028-29				5741
	Unit Rate for 2029-30				6315
	Unit Rate for 2030-31				6947
	Unit Rate for 2031-32				7641

  
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