

UNIT COST FOR CONVERSION FROM 6"x8" to 9"x11" (FSR -2022-23)

Sl. No.	FSR-2020-21 Code	Item of work	Unit	Quantity	As per FSR		Amount (Rs.)
					Rate (Rs)	Per	
		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).					
		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					
1	h	(h) 6" x 8" to 9" x 11" bags (4.717 - 1.433 = 3.284 cum) (500 Bags per Bed)	No	500	1378.45	1000	689.23
	01.03.22	Transportation of soil mixture ingredients more than 5 km distance and upto 25 km distance					
2	j	(j) 6" x 8" to 9" x 11" bags (4.717 - 1.433 = 3.284 cum)	No	500	36.50	1000	18.25
	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)					
3	h	(h) 6" x 8" to 9" x 11" bags (4.717 - 1.433 = 3.284 cum)	No	500	2387.22	1000	1193.61
	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					
4		Weeding the plants (2 weedings)	Bed	2	58.05	1	116.10
5	01.03.32	Shifting, Grading and rearranging in secondary beds - One Grading in February	Bed	2	271.17	1	542.34
	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.					
6	a	Manually with rose spray or finely perforated nozzle attached to a hose pipe	Bed	5	316.21	1	1581.05
	01.03.37	Cost of foliar nutritient formulations like multiplex or NPK-19:19:19; fungicides and insecticides from July to Oct.					40.00
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. 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.	Bed	4	10137.32	100	405.49
8		Cost of the ploythene bags					2500.00
9	01.03.39	Electricity charges					600.00
		Total					7686.07
10	01.03.38	Contingencies @ 5%					384.303
		Total for 500 plants					8070.37
		cost of each plant					16.14

UNIT COST FOR MAINTENANCE OF BAG PLANTS (April to August) FSR -2022-23

Sl. No.	FSR-2020-21 Code	Item of work	Unit	Quantity	As per FSR		Amount (Rs.)
					Rate (Rs.)	Per	
	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)					
	01.04.01	Watering polybag secondary beds twice a day for 4 months					
1	a	Manually with rose spray or finely perforated nozzle attached to a hose pipe	Bed/month	4	316.14	1	1264.56
2	01.04.02	Weeding once during maintenance year	Bed/weeding	1	58.05	1	58.05
3	01.04.03	Shifting, grading and rearrangement in beds	Bed/shifting	2	271.17	1	542.35
4	01.04.05	Cost of foliar nutrient formulations like multiplex or NPK-19:19:19; fungicides and insecticides from April to August	As per actuals	1	20.00	1	20.00
	01.04.06	Cowdung Slurry application (One can apply chemical foliar spray or apply cowdung slurry - not both)					
5	a	Cost and transportation of fresh cowdung	As per actuals	1	25.00	1	25.00
6	01.04.07	Weeding in the space between the beds, inspection path and surroundings of Nursery	Bed	1	31.95	1	31.95
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. 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 under general instructions.	Watcher/ month	4	10137.32	100	405.49
8	01.04.09	Electricity charges			550.00		550.00
		Total					2897.40
9	01.04.08	Contingencies @ 5%					144.87
		2022-23 Total					3042.27
		cost of each plant (500 Plants per bed)					6.08


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UNIT COST FOR MAINTENANCE OF BAG PLANTS (September to till disposal) (9x11) - FSR 2021-22

Sl. No.	FSR-2020-21 Code	Item of work	Unit	Quantity	As per FSR		Amount (Rs.)
					Rate (Rs.)	Per	
		MAINTENANCE OF BAG NURSERY FROM SEPTEMBER TO TILL DISPOSAL					
1	01.05.01	Watering plants for 10 m X 1 m size secondary bed	Bed/month	4	195.29	1	781.16
2	01.05.02	Shifting, grading and rearrangement in beds	Bed/weeding	1	271.17	1	271.17
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 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 under general instructions.	Watcher/month	5	10137.32	100	506.87
		Total					1559.20
		cost of each plant (500 Plants per bed)					3.12


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Unit Cost for Advance Operations for Raising of N.T.S.H. Plantations 3m X 3m. (SMM)-FSR-2022-23

Unit Rate per Ha

FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
02.08.01	Survey with GPS (Only staff to carry out) (Staff to carryout GPS Survey. One manday is allowed for assistance)	1	412.87	Plantation	413
02.08.02	Clearing unsalable unwanted jungle growth				
	(a) Sparse Jungle growth (< 10% ground area covered with Jungle growth)	0.4	2294.70	Ha	918
	(b) Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)	0.4	3449.20	Ha	1380
	(c) Light Jungle Growth (> 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on the field inspection of DFO.	0.2	8103.38	Ha	1621
02.08.03	Uprootal of stumps				
	(a) Sparse Jungle growth (< 10% ground area covered with Jungle growth)	0.4	6273.00	Ha	2509
	(b) Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)	0.4	12141.26	Ha	4857
	(c) Light Jungle Growth (> 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on the field inspection of DFO.	0.2	15784.21	Ha	3157
02.08.04	Collection and Removal of uprooted stumps of all sizes				
	(a) Sparse Jungle growth (< 10% ground area covered with Jungle growth)	0.4	6390.21	Ha	2556
	(b) Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)	0.4	10140.56	Ha	4056
	(c) Light Jungle Growth (> 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on the field inspection of DFO.	0.2	11823.92	Ha	2365
02.08.05	Tilling the soil to a depth of 0.45 cm in the affected area				
a	Sparce jungle growth less than 10% ground area covered with jungle growth	1	19818.17	Ha	19818
	Unit Rate for FSR 2022-23				43650


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Unit Cost for Raising of N.T.S.H. Plantations 3m X 2m. (SMM)-FSR-2022-23

Unit Rate per Ha

Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	3	4	5	6
02.09.02	Deep Ploughing the effective (excluding unsuitable patches) plantation area across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough. For untitled areas - Hard Soils	1	6182.98	Ha	6183
02.09.01	Removing congestion of root suckers and other uprooted material hindering the effective ploughing	1	1175.34	1	1175
02.09.04	© Alignment and staking including laying base line for Misc species (b) 2X3 m espacement = 1666 planting points	1666	88.62	100	1476
02.09.05 (ii)	Cost of preparation of stakes (2.00 m length) and transportation to site.(Subject to condition that the seedling height is 1.5. to 2.00 M)	1666	1323.00	100	22041
02.09.06	© Digging of 45 cm cube size pits	1666	9.95	1	16577
	Transportation of Bag plants / Root trainer plants from nursery site to plantation site including loading and unloading				
02.09.07	upto 5 Km lead(20X30 cm (9"X11")bag plants)	1666	294.83	100	4912
02.09.08	5 Km to 25 Km lead(20X30 cm (9"X11")bag plants)	1666	207.20	100	3452
	Internal transport of bag plants/root trainers to planting points on head loads.				
02.09.10	20X30 cm (9"X11")bag plants	1666	181.73	100	3028
02.09.11	Cost of SSP, Chloridine dust or Chloropyriphos	1666	2.00	1	3332
a	Application of 50gm of SSP per pit	1666	43.29	100	721
	Planting Bag Plants				
02.09.12	Planting in 45 cm ³ Pit	1666	482.33	100	8036
02.15.10	Cost of supporting stake of 2.5 m long sturdy and straight and minimum 10 cm girth at base	1666	1823.26	100	30376
02.09.14 (a & b)	Watering to the plants - 2 waterings	1666	584.04	100	9730
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.			
02.09.06	© Digging of 45 cm cube size pits	333	4.98	1	1657
02.09.07, 08	Transportation Up to 5 Km + Beyond 5 Km)	333	502.03	100	1672
02.09.10	Internal Transportation	333	181.73	100	605
02.09.12	Planting in 45 cm ³ Pit	333	482.33	100	1606
02.09.16	Cost of DAP @25gm / planting point	1666	2.00	1	3332
02.09.17	Application of fertilizer in August (30 days after planting) by making 3 holes of 10 cm depth with crow bar holes at a distance of 10 cm away from plant and putting fertilizers & closing.	1666	43.29	100	721
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	137.76	100	2295
02.09.19	Circular weeding cum Deep Soil working to a radius of 0.5m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (during Nov - Dec)	1666	723.51	100	12054
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	1	3853.25	1	3853
02.09.22	Uprootal of Mahaveera Weed	1	4025.12	1	4025
02.09.25	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher Rs. 10137/- x 9 months = 91233 / 20 ha	1	4561.65	Ha	
02.09.24	Contingencies provision for Raising of plantaitons: i) Fixing of Plantation Boards and Corner Stones ii) Contingencies and Miscellaneous (with in 5% of the estimate cost subject to ceiling of Rs. 5,000/-)	LS			1500
	Unit Rate for FSR 2022-23				144359

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Unit Cost for 1st Year Maintenance of NTSH Plantation (3 m X 2 m) SMM per Ha -FSR-2022-23

Unit Rate per Ha					
FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
02.10.01	Replacement of Casualties 25% during Raising & 25% in 1st year (In case 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 45 cm cube size pits -	417	9.950	1	4149
02.09.07	Transportation up 5km	417	294.83	100	1229
02.09.08	Transportation beyond 5 Km (25 - 5) = 20 KM	417	207.20	100	864
02.09.10	Internal Transportation	417	181.73	100	758
02.09.12	Planting in 45 cm ³ Pit	417	482.33	100	2011
02.09.16	Cost of DAP @25gm / planting point	1666	1.00	1	1666
02.09.14 (a & b)	Watering to the plants - 2 waterings	1666	584.04	100	9730
02.09.17	Application of fertilizer in August (30 days after planting) by making 3 holes of 10 cm depth with crow bar holes at a distance of 10 cm away from plant and putting fertilizers & closing. - 50% of rate	1666	43.29	100	721
02.10.02	Cost of DAP @ 25 gm / planting point	1666	2.00	1	3332
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	137.76	100	2295
02.10.04	Circular weeding cum Deep Soil working to a radius of 0.5m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (during Nov - Dec)	1666	723.51	100	12054
02.10.05	Uprootal of Mahaveera	1	4025.12	Ha	4025
02.10.06	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	2808.89	Ha	2809
02.10.07	Pruning of flower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)	1666	137.00	100	2282
02.10.10	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; 10137 x 12 = 121644 / 20	1	6082	Ha	
02.10.09	Contingencies provision for Raising of plantaitons: i) Fixing of Plantation Boards and Corner Stones ii) Contingencies and Miscellaneous (with in 5% of the estimate cost subject to ceiling of Rs. 5,000/-)		Ls		1000
Unit Rate for FSR 2022-23					48925


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**Unit Cost for 2nd Year Maintenance of NTS Plantation (3m x 2m)SMM per Ha -
FSR-2022-23**

Unit Rate per Ha					
FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
02.10.01	Replacement of Casualties 25% during Raising & 25% in 1st year (In case of Eucalyptus 10% during raising and no casualty replacement for further maintenance) - 20% proposed	50% of rate of original pitting rate during raising year and 100% during maintenance years. Planting, Transportation and			
02.09.06	Digging of 45 cm cube size pits -	333	9.950	1	3315
02.09.07	Transportation up 5km	333	294.83	100	982
02.09.08	Transportation beyond 5 Km (25 - 5) = 20 KM	333	207.20	100	690
02.09.10	Internal Transportation	333	181.73	100	606
02.09.12	Planting in 45 cm ³ Pit	333	482.33	100	1607
02.09.14 (a & b)	Watering to the plants - 2 waterings	1666	584.04	100	9730
02.11.01	Cost of DAP @ 25 gm / planting point	1666	2.00	1	3332
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	723.51	100	12054.00
02.11.04	Pruning of flower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)	1666	137.00	100	2282.00
02.10.04	Uprootal of Mahaveera (60% of the area)	0.60	4025.12	Ha	2415
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	6.77	Rmt	677
02.11.07	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; 10137 x 12 = 121644 / 20	1	6082	Ha	
02.11.06	Contingencies provision for Raising of plantaitons: i) Fixing of Plantation Boards and Corner Stones ii) Contingencies and Miscellaneous (with in 5% of the estimate cost subject to ceiling of Rs. 5,000/-)				600
Unit Rate for FSR 2022-23					38290


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Unit Cost for 3rd Year Maintenance of NTSB Plantation (3m x 2m) SMM per Ha -FSR-2022-23

Unit Rate per Ha					
FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
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	723.51	100	12054
02.11.04	Pruning of flower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)	1666	137.00	100	2282
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	402.37	100 Rmt	402
02.11.07	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; $10137 \times 12 = 121644 / 20$	1	6082	Ha	
	Unit Rate for FSR 2022-23				14738


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Unit Cost for 4th, 6th , 8th and 10th Year Maintenance of NTSH Plantation (3m x 2m) SMM per Ha -FSR-2022-23

Unit Rate per Ha					
FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	3	4	5	6
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	723.51	100	12054
02.11.04	Pruning of flower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)	1666	137.00	100	
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	402.37	100 Rmt	402
02.11.07	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; $10137 \times 12 = 121644 / 20$	1	6082	Ha	
	Unit Rate for FSR 2022-23				12456


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**Unit Cost for 5th, 7th and 9th Year Maintenance of NTSH Plantation (3m x 2m)SMM per Ha -
FSR-2022-23**

Unit Rate per Ha					
FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	3	4	5	6
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)- the work will be carried out between 1 m to 1.1 m in a ring formation- Hence 25% of cost adopted	1666	723.51	100	
02.11.04	Pruning of flower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)	1666	137.00	100	2282
02.10.02	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.	1666	124.95	100 No	2082
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	402.37	100 Rmt	402
	Unit Rate for FSR 2022-23				4766


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