

UNIT COST FOR MAINTENANCE OF BAG PLANTS (September to till disposal) (9x11) - FSR 2023-24

Sl. No.	FSR 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	208.96	1	835.84
2	01.05.02	Shifting, grading and rearrangement in beds	Bed/weeding	1	290.16	1	290.16
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.	Watcher/ month	5	10846.93	100	542.35
		Total					1668.35
		cost of each plant (500 Plants per bed)					3.3367



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UNIT COST FOR MAINTENANCE OF BAG PLANTS (April to August) FSR -2023-24

Sl. No.	FSR 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	338.27	1	1353.08
2	01.04.02	Weeding once during maintenance year	Bed/weeding	1	68.33	1	68.33
3	01.04.03	Shifting, grading and rearrangement in beds	Bed/shifting	2	290.16	1	580.32
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	34.19	1	34.19
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	10846.93	100	433.88
8	01.04.09	Electricity charges			550.00		550.00
		Total					3064.80
9	01.04.08	Contingencies @ 5%					153.24
		2021-22 Total					3218.04
		cost of each plant (500 Plants per bed)					6.4361


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UNIT COST FOR CONVERSION FROM 6"x8" to 9"x11" (FSR -2023-24)

Sl. No.	FSR 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	1447.37	1000	723.69
	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	38.32	1000	19.16
	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	2554.32	1000	1277.16
	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	68.33	1	136.66
5	01.03.32	Shifting, Grading and rearranging in secondary beds - One Grading in February	Bed	2	290.16	1	580.32
	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	338.34	1	1691.70
	01.03.37	Cost of foliar nutrient formulations like multiplex or NPK-19:19:19; fungicides and insecticides from July to Oct.					35.00
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 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.	Bed	4	10846.93	100	433.88
8		Cost of the ploythene bags					2500.00
9	01.03.39	Electricity charges					600.00
		Total					7997.56
10	01.03.38	Contingencies @ 5%					399.878
		Total for 500 plants					8397.44
		cost of each plant					16.7949


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Unit Cost for Advance Operations for Raising of N.T.S.H. Plantations 3m X 3m. (SMM)-FSR-2023-24

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	441.77	Plantation	442
02.08.02	Clearing unsalable unwanted jungle growth				
	(a) Sparse Jungle growth (< 10% ground area covered with Jungle growth)	0.4	2455.33	Ha	982
	(b) Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)	0.4	3690.64	Ha	1476
	(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	8670.61	Ha	1734
02.08.03	Uprootal of stumps				
	(a) Sparse Jungle growth (< 10% ground area covered with Jungle growth)	0.4	6586.65	Ha	2635
	(b) Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)	0.4	12748.32	Ha	5099
	(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	16573.42	Ha	3315
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	6709.72	Ha	2684
	(b) Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)	0.4	10647.59	Ha	4259
	(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	12415.12	Ha	2483
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	20809.08	Ha	20809
	Unit Rate for FSR 2021-22				45918


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Unit Cost for Raising of N.T.S.H. Plantations 3m X 3m. (SMM)-FSR-2023-24

Code	Item of work	Unit Rate per Ha			
		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 untilled areas - Hard Soils	1	6492.13	Ha	6492
02.09.01	Removing congestion of root suckers and other uprooted material hindering the effective ploughing	1	1257.61	1	1258
02.09.04	© Alignment and staking including laying base line for Misc species with espacement 3mX3m (1111 Nos)	1111	105.41	100	1171
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)	1111	1415.61	100	15727
02.09.06	© Digging of 45 cm cube size pits	1111	10.65	1	11832
	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)	1111	309.57	100	3439
02.09.08	5 Km to 25 Km lead(20X30 cm (9"X11")bag plants)	1111	10.88	100	121
	Internal transport of bag plants/root trainers to planting points on head loads.				
02.09.10	20X30 cm (9"X11")bag plants	1111	194.46	100	2160
02.09.11	Cost of SSP, Chloridine dust or Chloropyriphos	1111	2.00	1	2222
a	Application of 50gm of SSP per pit	1111	46.32	100	515
	Planting Bag Plants				
02.09.12	Planting in 45 cm ³ Pit	1111	516.09	100	5734
02.15.10	Cost of supporting stake of 2.5 m long sturdy and straight and minimum 10 cm girth at base	1111	1950.89	100	21674
02.09.14 (a & b)	Watering to the plants - 2 waterings	1111	624.92	100	6943
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.			
	Pitting	222	5.33	1	1182
	Transportation Up to 5 Km + Beyond 5 Km)	222	320.45	100	711
	Internal Transportation	222	194.46	100	432
	Planting	222	516.09	100	1146
02.09.16	Cost of DAP @25gm / planting point	1111	2.00	1	2222
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.	1111	46.32	100	515
02.09.18	<i>Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.</i>	1111	191.53	100	2128
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)	1111	890.24	100	9891
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	4045.91	1	4046
02.09.22	Uprootal of Mahaveera Weed	1	4306.88	1	4307
02.09.25	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher 10846.93 x 9 = 86895 /20	1	4881.12	Ha	4881
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/-)				2000
	Unit Rate for FSR 2021-22				112749

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Unit Cost for 1st Year Maintenance of NTSH Plantation (3 m X 3 m) SMM per Ha -FSR-2023-24

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 -	278	10.650	1	2961
02.09.07	Transportation up 5km	278	309.57	100	861
02.09.08	Transportation beyond 5 Km (25 - 5) = 20 KM	278	10.88	100	30
02.09.10	Internal Transportation	278	194.46	100	541
02.09.12	Planting in 45 cm ³ Pit	278	516.09	100	1435
02.09.16	Cost of DAP @25gm / planting point	1111	1.00	1	1111
02.09.14 (a & b)	Watering to the plants - 2 waterings	1111	624.92	100	6943
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	1111	46.32	100	515
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	191.53	100	2128
02.10.03	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)	1111	890.24	100	9891
02.10.04	Uprootal of Mahaveera	1	4306.69	Ha	4307
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	3391.73	Ha	3392
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)	1111	146.59	100	1629
02.10.09	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation;	1	6508	Ha	6508
02.10.08	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/-)				2000
Unit Rate for 2021-22					44252

District Forest Officer
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**Unit Cost for 2nd Year Maintenance of NTSB Plantation (3m x 3m)SMM per Ha -
FSR-2023-24**

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 -	222	10.650	1	2364
02.09.07	Transportation up 5km	222	309.57	100	687
02.09.08	Transportation beyond 5 Km (25 - 5) = 20 KM	222	10.88	100	24
02.09.10	Internal Transportation	222	194.46	100	432
02.09.12	Planting in 45 cm ³ Pit	222	516.09	100	1146
02.09.14 (a & b)	Watering to the plants - 2 waterings	1111	624.92	100	6943
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	890.24	100	9891.00
02.11.03	Pruning of flower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)	1111	146.59	100	1629.00
02.10.04	Uprootal of Mahaveera (60% of the area)	0.60	4306.69	Ha	2584
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	7.25	Rmt	725
02.11.06	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation;	1	6508	Ha	6508
02.11.05	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/-)				900
	Unit Rate for 2021-22				33833


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Unit Cost for 3rd Year Maintenance of NTSH Plantation (3m x 3m) SMM per Ha -FSR-2023-24

Unit Rate per Ha

FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
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	890.24	100	9891
02.11.03	Pruning of flower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)	1111	146.59	100	1629
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	430.54	100 Rmt	431
02.11.05	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation;	1	6508	Ha	6508
	Unit Rate for 2021-22				18459

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Unit Cost for 4th Year Maintenance of NTSH Plantation (3m x 3m) SMM per Ha -FSR-2023-24

Unit Rate per Ha					
FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	3	4	5	6
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	890.24	100	9891
02.11.03	Pruning of flower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)	1111	146.59	100	1629
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	430.54	100 Rmt	431
02.11.05	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation;	1	6508.16	Ha	6508
	Unit Rate for 2021-22				18459


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Unit Cost for 5th Year Maintenance of NTS Plantation (3m x 3m)SMM per Ha -FSR-2023-

24

Unit Rate per Ha

FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	3	4	5	6
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)- the work will be carried out between 1 m to 1.1 m in a ring formation- Hence 25% of cost adopted	1111	890.24	100	9891
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	430.54	100 Rmt	431
	Unit Rate for 2021-22				10322


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Unit Cost for 6th Year Maintenance of NTSH Plantation (3m x 3m) SMM per Ha -FSR-2023-24

Unit Rate per Ha

FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
02.11.03	Pruning of flower branch initials of Timber and NTFP species by sciculture upto 1/3 rd height (to be done during July - Aug)	1111	146.59	100	1629
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	430.54	100 Rmt	431
	Unit Rate for FSR 2021-22				2060


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Unit Cost for 7th Year Maintenance of NTSH Plantation (3m x 3m) SMM per Ha FSR-2023-24

Unit Rate per Ha					
FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
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)- the work will be carried out between 1 m to 1.1 m in a ring formation- Hence 25% of cost adopted	1111	890.24	100	9891
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	430.54	100 Rmt	431
	Unit Rate for FSR 2021-22				10322


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Unit Cost for 8th Year Maintenance of NTSB Plantation (3m x 3m) SMM per Ha -FSR-2023-24

Unit Rate per Ha					
FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
02.11.03	Pruning of flower branch initials of Timber and NTFP species by sciculture upto 1/3 rd height (to be done during July - Aug)	1111	146.59	100	1629
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	430.54	100 Rmt	431
	Unit Rate for FSR 2021-22				2060


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Unit Cost for 9th Year Maintenance of NTSH Plantation (3m x 3m)SMM per Ha -FSR-2023-24

Unit Rate per Ha

FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
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)-the work will be carried out between 1 m to 1.1 m in a ring formation- Hence 25% of cost adopted	1111	890.24	100	9891
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	430.54	100 Rmt	431
Unit Rate for FSR 2021-22					10322

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Unit Cost for 10th Year Maintenance of NTS Plantation (3m x 3m) SMM per Ha -FSR-2023-24

Unit Rate per Ha

FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
02.11.03	Pruning of flower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)	1111	146.59	100	1629
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	430.54	100 Rmt	431
	Unit Rate for FSR 2021-22				2060


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Unit cost for Digging of Cattle Proof Trench (CPT) along the RF Boundary (DFL Boundary)

Unit cost for 1.00 KM

SL.N o	Particulars	F.S.R. Item No.	Quantity		Rate	Per	Amount
1	2	3	4		5	6	7
1	Digging of CPT along the Reserve Forest Boundary line of Nambal Reserve Forest with the Machinery including excavation in all kinds of soils and depositing the excavation earth as directed with Minimum lead and lifts including cost of Machinery and labour 1000 Mtrs x((1m+1.5m)/2)x1m = 1250 Cu.m (per KM)		1250	Cum	48.40	Cum	60500
			Total :				60500
			Add SGST (9 %) :				3630
			Add CGST (9 %) :				3630
			Add CESS (1 %) :				605
			Grand Total :				68365

Or

60000


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Unit cost for Stabilization of RF Block boundary (CPT Bund stabilization) FSR 2023-24

Sl. No.	FSR Item No.	Nature of work	Quantity		Rate	Per		Amount
1	2	3	4	5	6	7	8	9
		First year operations in ANR areas						
1		STABILIZATION OF RF BLOCK BOUNDARY CONTINUOUS PERIPHERAL TRENCH MOUND: Planting on peripheral trench mound and adjacent strips are taken up with the objective of increasing the effectiveness of trench as a barrier for entry of grazing animals and spread of fire. Also by planting on the mound, the loose soil gets stabilized and increases the life-span of trench. The rationale of planting the edible wild fruit species is to enhance the food base of the monkeys and other wild animals. The species selected for planting may be Pithecolobium dulce, Terminalia bellirica, Careya arborea, Bridellia retusa, Phyllanthus emblica, Semecarpus anardium, Buchanania lanzan, Tamarindus indica, Ficus benghalensis, Ficus religiosa, Limonia acidissima, Syzygium cuminii etc. All these plantings will be one time operation without further years' maintainance. The process includes following steps:						
	03.02.02	1) Planting of :- (A) 2 rows of Gachakaya (Caesalpinia bonduc) seedlings in 2 staggered rows in 1x1 m spacement (row to row 1 m and within the row 1 m spacing) on the outer slope of the trench mound; (B) 1 row of wild edible fruit species on the ridge line of the trench mound at 2 m apart; (C) bamboo (Dendrocalamus strictus) seedlings / rhizome(2-3 yr old) at 4 m apart in the middle of the inner slope of the mound; and (D) broadcasting of pretreated (overnight soaking in boiled water) Babul (Acacia nilotica) seeds inside trench @ 500gms per km by staff. (E) 15% extra over basic rates for revisiting areas only. The total planting points thus works out to be 2750 seedlings per km on trench mound.						
		Procurement of seedlings (Gachakaya 2000+ Bamboo-250 + fruit species-500) (2750 +25 % casualities per Kms= 3437 Nos or <u>3450 Nos</u>	3450	Nos	5.50	1	Nos	18975
		(A) 2 rows of Gachakaya (Caesalpinia bonduc) seedlings in 2 staggered rows in 1x1 m spacement (row to row 1 m and within the row 1 m spacing) on the outer slope of the trench mound.						
		(a) Allignment & Stacking (in 2 staggered rows)	2000	Nos	94.82	100	Nos	1896
		(b) Cost of preparation of stakes (0.45 m length) and transportation to site	2000	Nos	65.94	100	Nos	1319
		(c) Digging of 30 cm ³ pits to be done during June	2000	Nos	5.64	1	No	11280
		(e) Transportation of seedlings (including loading and unloading) & Internal transport –						
		(iii) From nursery to plantation site - upto 5 Km lead (4"X7") bag plants	2000	Nos	44.88	100	Nos	898
		(iv) From nursery to plantation site - beyond 5 Km upto 25 km lead (4"X7") bag plants (20 Kms X 1.43)	2000	Nos	33.00	100	Nos	660
		(g) Internal transportation of 4"X7" bag plants to planting points on Head loads	2000	Nos	47.38	100	Nos	948
		(h) Planting with 2.00 m apart in two row (1000 Nos. per km) and formation of saucer on lower slope to hold water.	2000	Nos	165.85	100	Nos	3317

Sl. No.	FSR Item No.	Nature of work	Quantity		Rate	Per		Amount
1	2	3	4	5	6	7	8	9
		(B) 1 row of wild edible fruit species on the ridge line of the trench mound at 2 m apart (Bag Planting)						
		(a) Allignment & Stacking	500	Nos	94.82	100	Nos	474
		(b) Cost of preparation of stakes (0.45 m length) and transportation to site	500	Nos	65.94	100	Nos	330
		(c) Digging of 30 cm ³ pits to be done during June	500	Nos	5.64	1	No	2820
		(e) Transportation of seedlings (including loading and unloading) & Internal transport –						
		(i) From nursery to plantation site – upto 5 Km lead - (4"x7") bag plants	500	Nos	44.88	100	Nos	224
		(ii) From nursery to plantation site - beyond 5 Km lead - for every extra km beyond 5 km upto 25 km (20 x 1.30=41.00)	500	Nos	33.00	100	Nos	165
		(f) Internal transportation of 4"x7" bag plants to planting points on Head loads	500	Nos	47.38	100	Nos	237
		(h)Planting with 2 m apart in one row (500Nos. per km)	500	Nos	165.85	100	Nos	829
3		(C) bamboo (Dendrocalamus strictus) seedlings / rhizome(2-3 yr old) at 4 m apart in the middle of the inner slope of the mound (Bag planting)						
		(a) Allignment & Stacking)	250	Nos	94.82	100	Nos	237
		(b) Cost of preparation of stakes (0.45 m length) and transportation to site	250	Nos	65.94	100	Nos	165
		(d) Digging of 45 cm ³ pits (50% of original rate) to be done during June	250	Nos	5.64	1	No	1410
		(e) Transportation of seedlings (including loading and unloading) & Internal transport –						
		(i) From nursery to plantation site – upto 5 Km lead - (6"x8") bag plants	250	Nos	44.88	100	Nos	112
		(ii) From nursery to plantation site - beyond 5 Km lead - for every extra km beyond 5 km upto 25 km (20 x 4.03=80.60)	250	Nos	33.00	100	Nos	83
		(f) Internal transportation of 6"x8" bag plants to planting points on Head loads	250	Nos	47.38	100	Nos	118
		(h)Planting with 4 m apart in one row (250 Nos. per km)	250	Nos	165.85	100	Nos	415
4		(D) broadcasting of pretreated (overnight soaking in boiled water) Babul (Acacia nilotica) seeds inside trench @ 500gms per km by staff						0
		Total						46911
		2021-22			P. KM			47700

District Forest Officer
KB Asafabad