

UNIT COST FOR RAISING OF PRIMARY BEDS

Sl. No.	FSR-2017-18 Code	Item of work	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	7
1	01.00.00	Raising of primary beds			
2	01.01.01	Preparation of new site	Bed	4.54	4.54
3	01.01.03	Digging of soil of the demarcated beds	Bed	34.92	34.92
4	01.01.04	Cost of sandy soil and transportation	Bed	25.4	25.40
5	01.01.05	5 Kms to 25 Kms	Bed	20.20	20.20
6	01.01.06	Cost of FYM	Bed	21.87	21.87
7	01.01.07	Mixing of soil with FYM	Bed	9.92	9.92
8	01.01.08	Covering the beds	Bed	11.34	11.34
9	01.01.09	Soil drenching			
10	01.01.10	Cost of seed	Bed	200.00	200.00
11	01.01.12	Sowing of seed	Bed	11.29	11.29
12	01.01.13	Watering the primary nursery beds	45 Days	19.06	19.06
13	01.01.14	Kerbing the primary beds	Bed	25.00	25.00
14	01.01.15	Cost of chemicals	Bed	20.00	20.00
16		Electrical Charges		20.00	20.00
		Total			423.54
		Rasing of seedlings 110% for abtaining 100%		10%	42.35
		Total			465.89
		cost of each plant (2000 plants per bed) - 2017-18			0.23

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UNIT COST FOR BAG PLANT NURSERY (NOVEMBER TO MARCH)

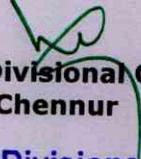
Sl. No.	FSR-2017-18 Code	Item of work	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	7
		Raising of bag plant nursery 5x9			
1	01.03.01	Site preparation	Bed	46.33	46.33
2	01.03.03	Cost of polythene bag, 175 x1.05x1700 / 290	Bed	1077.16	1077.16
3	01.03.04	Cost of transportation of ingredients for potting mixture (cost of coco pit)	Bed	2040.00	2040.00
4	01.03.05	12.5 cm x 22.5 (5" x 9") (cost of coco pit)			
5	01.03.06	For every extra km beyond 5 Kms upto 25 Kms 12.5 cm x 22.5 (5" x 9")			
6	01.03.07	Preparation of potting mixture (b) 12.5 cm x 22.5 (5" x 9")	Bed	1483.25	1483.25
7	01.03.08	Alignment of beds	Bed	6.92	6.92
8	01.03.09	Pricking out seedlings	Bed	219.10	219.10
9	01.03.11	Watering the plants (5 Months) a) Manually with rose cans or finely perforated nozzle	Bed	1250.50	1250.50
10	01.03.12	Weeding the beds (3 weedings)	Bed	137.79	137.79
11	01.03.13	Shifting, Grading and re-arranging (2 Gradings) twice	Bed	428.98	428.98
12	01.03.14	Replacement of casualties	Bed	60.90	60.90
13	01.03.15	Cost of foliar nutrient formulations	Bed	34.00	34.00
14	01.03.17	Weeding in the space (4 weedings)		125.20	
15		Watch and Ward (100 Beds) (5 Months) 5x 8017 /100Beds		400.85	400.85
16		Electricity charges		200.00	200.00
		Total			7385.78
		add casualty 10%			751.09
		Grand Total			8136.87
		cost of each plant (1700 plants per bed)			4.79


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UNIT COST FOR MAINTENANCE OF BAG PLANTS (5"x9")

Sl. No.	FSR-2017-18 Code	Item of work	Unit	Rate	Amount
1	2	3	4	5	7
		Maintenance of Bag plants			
1	01.03.18	Watering poly bag (April to August)	Bed	1250.50	1250.50
2	01.03.19	Weeding (2 weedings)	Bed	91.86	91.86
3	01.03.20	Shifting and grading	Bed	428.98	428.98
		Electricity charges		200.00	200.00
		Watch and ward (5 months)		400.85	400.85
		Total			2372.19
		cost of each plant (1700 plants per bed)			1.3954


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UNIT COST FOR CONVERSION FROM 5"x9" to 8"x12" (1000 plants)

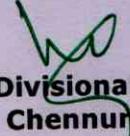
Sl. No.	FSR-2017-18 Code	Item of work	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	7
		Conversion of bags from 5x9 to 8x12			
1		Cost and conveyance of coco husk	1000 plants		2400.00
2	01.03.25	Preparation of potting mixture by powering of various ingredients 5"x9" to 8"x12" polybags	1000 plants	1552.61	1552.61
3	01.03.28	Stakes		2160.00	2160.00
4	01.03.29	Weeding the plants (45.93x2x1000/800)	1000 plants	114.83	114.83
	01.03.30	Shifting, Grading	1000 plants	268.11	268.11
5	01.03.31	Watering the plants manually twice a day Manually with rose can (5 Months)	1000 plants	1563.12	1563.12
6	01.03.33	Cost of Fertilizers		20.00	20.00
7		Watch and Ward (100 Beds) (5 Months) 5 x 8017	1000 plants	400.85	400.85
8		Cost of the ploythene bags (10000x1.15/86x175)		2340.12	2340.12
9		Electricity charges		400.00	400.00
		Total			11219.64
10	01.03.34	Contingencies @ 5%			560.98
		Total			11780.62
11		Add 10% Casualty			1178.06
		Grand Total			12958.68
12		cost of each plant			12.96


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UNIT COST FOR MAINTENANCE OF BAG PLANTS

Sl. No.	FSR-2017-18 Code	Item of work	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	7
		Maintenance of Bag plants			
1	01.04.01	Watering poly bag (April to August)	Bed	1000.40	1000.40
2	01.04.02	Weeding	Bed	45.93	45.93
3	01.04.03	Shifting and grading	Bed	452.92	452.92
4	01.04.05	Cost of fertilizers	As per actuals	20.00	20.00
5	01.04.06	Cost and transportation of cow dung slurry	Bed	25.00	25.00
6	01.04.07	Weeding in the space between the beds	Bed	25.28	25.28
7		Watch and ward (5 months) (8017x5/100beds)		400.85	320.60
		Electricity charges		300.00	300.00
		Total			2190.13
8	01.04.08	Contingencies @ 5%			109.51
9		Total			2299.64
		cost of each plant (800 Plants per bed)			2.87


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

FSR Code	Item of work	Qty	Unit Rate per Ha		Amount (Rs.)
			Rate (Rs.)	Per	
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	326.59	Plantation	327
02.08.02	Clearing unsalable unwanted jungle growth				
	(a) Sparse Jungle growth (< 10% ground area covered with Jungle growth)	0.4	1815.25	Ha	726
	(b) Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)	0.4	2728.52	Ha	1091
	(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	5468.03	Ha	1094
02.08.03	Uprootal of stumps				
	(a) Sparse Jungle growth (< 10% ground area covered with Jungle growth)	0.4	4575.74	Ha	1830
	(b) Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)	0.4	8856.24	Ha	3542
	(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	11513.51	Ha	2303
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	4872.12	Ha	1949
	(b) Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)	0.4	7731.50	Ha	3093
	(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	9014.96	Ha	1803
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	14456.00	Ha	14456
	Unit Rate for 2017 -18				32214

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

Code	Item of work	Qty	Unit Rate per Ha		
			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 TILLED AREA ONLY	1	2697.24	Ha	2697
02.09.03	Removing congestion of root suckers and other uprooted material hindering the effective ploughing	1	896.09	1	896
02.09.04	© Alignment and staking including laying base line for Misc species with espacement 3mX3m (1111 Nos)	1111	77.91	100	866
02.09.05	Cost of 0.45 M Stake preparation and transportation to site.	1111	49.67	100	552
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 - 0.216 cum - 66% of cost)	1111	10.99	1	12210
01.03.05	Cost and transportation of soil mixtue 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 - 66% of cost	158.38	310.86	cum	49235
02.09.07	Transportation of Bag plants / Root trainer plants from nursery site to plantation site including loading and unloading upto 5 Km lead(20X30 cm (8"X12")bag plants)	1111	173.49	100	1927
02.09.08	5 Km to 25 Km lead(20X30 cm (8"X12")bag plants)	1111	135.00	100	1500
02.09.10	Internal transport of bag plants/root trainers to planting points on head loads, 20X30 cm (8"X12")bag plants	1111	123.84	100	1376
02.09.11	Cost of SSP, Chloridine dust or Chloropyriphos	1111	2.00	1	2222
	Application of 50gm of SSP per pit	1111	34.25	100	381
	Planting Bag Plants				
02.09.13	Planting in 60 cm ³ Pit (for 45 cm ³ pit - Rs.381.54)	1111	903.71	100	10040
02.15.10	Cost of supporting stake of 2.5 m long sturdy and straight and minimum 10 cm girth at base	1111	15.00	1.00	16665
02.09.14	Watering to the plants - 9 waterings	1111	2079.00	100	23098
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
	Pitting	222	5.50	1	1220
	Transportation	222	308.49	100	685
	Internal Transportation	222	123.84	100	275
	Planting	222	903.71	100	2006
02.09.16	Cost of DAP @25gm / planting point	1111	2.00	1	2222
02.09.11	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	34.25	100	381
02.09.18	a) Circular weeding to a radius of 0.50 m around the plant (during July - Aug)	1111	108.98	100	1211
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.)	1111	572.33	100	6359
02.09.20	(b) Inter ploughing with heavy duty tractor of 55 HP to a depth of 30 cm in Hard Gravelly Soils during November	1	2810.70	1	2811
02.09.22	Uprootal of Mahaveera Weed	1	3184.10	1	3184
02.09.24	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; Rs. 8017 * 9 / 10 * 4.735 / 10	1	3416.44	Ha	3416
	Unit Rate for 2017 -18				147435

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Unit Cost for 1st 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
02.10.01	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)	222	10.990	1	2440
02.09.07	Transportation up 5km	222	173.49	100	385
02.09.08	Transportation beyond 5 Km (25 - 5) = 20 KM	222	135.00	100	300
02.09.10	Internal Transportation	222	123.84	100	275
02.09.13	Planting in 60 cm ³ Pit (for 45 cm ³ pit - Rs.381.54)	222	903.71	100	2006
02.15.13	Watering to the plants- 4 times	1111	924.00	100	10266
02.09.16	Cost of DAP @25gm / planting point	1111	1.00	1	1111
02.09.11	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	17.13	100	190
02.10.02	Circular weeding to a radius of 0.50 m around the plant during raising year (July - Aug)	1111	108.98	100	1211
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	572.33	100	6359
02.10.04	Uprootal of Mahaveera (100% of the area)	1	3184.10	Ha	3184
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	2048.90	Ha	2049
02.10.06	Pruning of flower branch initials of Timber and NTFP species by sciature upto 1/3 rd height (to be done during July - Aug)	1111	108.35	100	1204
02.10.09	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; Rs. 8017 * 12 / 10 * 4.735 / 10	1	4555.26	Ha	4555
	Unit Rate for 2017 -18				35535

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Unit Cost for 2nd 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
02.10.01	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)	56	10.990	1	615
02.09.07	Transportation up 5km	56	173.49	100	97
02.09.08	Transportation beyond 5 Km (25 - 5) = 20 KM	56	135.00	100	76
02.09.10	Internal Transportation	56	123.84	100	69
02.09.13	Planting in 60 cm ³ Pit (for 45 cm ³ pit - Rs.381.54)	56	903.71	100	506
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	2048.90	Ha	2049
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)	1111	572.33	100	6359.00
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)	1111	108.35	100	1204.00
02.10.04	Uprootal of Mahaveera (60% of the area)	0.6	3184.10	Ha	1910
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	5.33	Rmt	533
02.11.05	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; Rs. 8017 * 12 / 10 * 4.735 / 10	1	4555.26	Ha	4555.00
Unit Rate for 2017 -18					17973

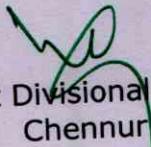
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Unit Cost for 3rd Year Maintenance of NTSH Plantation (3m X 3m) SMM per Ha

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)	1111	572.33	100	6359
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)	1111	108.35	100	1204
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	318.29	100 Rmt	318
02.11.05	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; Rs. 8017 * 12 / 10 * 4.735 / 10	1	4555.26	Ha	4555
	Unit Rate for 2017 -18				12436


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Unit Cost for 4th 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
02.11.01	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)	1111	572.33	100	6359
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)	1111	108.35	100	1204
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	318.29	100 Rmt	318
02.11.05	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; Rs. 8017 * 12 / 10 * 4.735 / 10	1	4555.26	Ha	4555
	Unit Rate for 2017 -18				12436

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Unit Cost for 5th 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
02.11.01	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	1111	143.08	100	1590
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	318.29	100 Rmt	318
Unit Rate for 2017 -18					1908

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

FSR Code	Item of work	Unit Rate per Ha			Amount (Rs.)
		Qty	Rate (Rs.)	Per	
1	2	4	5	6	7
02.11.02	Pruning of flower branch initials of Timber and NTFP species by sciculture upto 1/3 rd height (to be done during July - Aug)	1111	108.35	100	1204
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	318.29	100 Rmt	318
Unit Rate for 2017 -18					1522

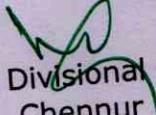

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Unit Cost for 7th Year Maintenance of NTSH Plantation (3m X 3m) SMM per Ha

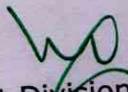
FSR Code	Item of work	Unit Rate per Ha			Amount (Rs.)
		Qty	Rate (Rs.)	Per	
1	2	4	5	6	7
02.11.01	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (July-Aug) the work will be carried out between 1 m to 1.1 m in a ring formation- Hence 25% of cost adopted	1111	143.08	100	1590
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	318.29	100 Rmt	318
	Unit Rate for 2017 -18				1908


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

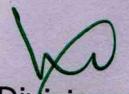
FSR Code	Item of work	Unit Rate per Ha			Amount (Rs.)
		Qty	Rate (Rs.)	Per	
1	2	4	5	6	7
02.11.02	Pruning of flower branch initials of Timber and NTFP species by sciculture upto 1/3 rd height (to be done during July - Aug)	1111	108.35	100	1204
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	100	318.29	100 Rmt	318
	Unit Rate for 2017 -18				1522


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

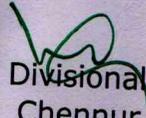
FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
02.11.01	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (July-Aug)- the work will be carried out between 1 m to 1.1 m in a ring formation- Hence 25% of cost adopted	1111	143.08	100	1590
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	318.29	100 Rmt	318
Unit Rate for 2017 -18					1908


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Unit Cost for 10th Year Maintenance of NTSH Plantation (3m X 3m) 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)	1111	108.35	100	1204
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	318.29	100 Rmt	318
	Unit Rate for 2017 -18				1522


 Forest Divisional Officer
 Chennur
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