

Requirement of seedlings for CA scheme for Double degraded forest land in Rebbena Range of Asifabad Division in lieu of permission of 189.6808 Ha of forest land in Asifabad, Bellampally and Kaghanagar Divisions for laying of new third BG railway line along the existing tracks within the railway boundary between Makhudi and Rechini road railway stations

Sl. No	Range	Double degraded forest land	Area identified in Ha	Area to be afforested through SMM 3m x 3m	Stabilization of CPT through planting (Kms)	Total requirement of seedlings	Area to be afforested through SMM 3m x 3m	Stabilization of CPT through planting (Kms)	Total requirement of seedlings
1	2	3	4	5	6	7	5	6	7
1	Rebbena	Compt No. 501, 502, 503, 504 of Girelly Beat of Girelly Section of RF Chnadrapally	233.000	108.00	7.570		125.00	8.150	
			233.000	108.000	7.570		125.000	8.150	
Requirement of seedlings for the above area for CA scheme for Double degraded forest land									
Sl. No	Range	degraded forest land	Area proposed in Ha	SMM 3m x 3m (@ 1350 per Ha)	@ 3300 per Km.	Gachakaya-2000 + wild edible fruit species-500 + Bamboo-250 = 2750)	SMM 3m x 3m (@ 1350 per Ha)	@ 3300 per Km.	Gachakaya-2000 + wild edible fruit species-500 + Bamboo-250 = 2750)
1	Rebbena	Raising year including casualties	108.00	145800	24981		168750	26895	
				145800	24981		168750	26895	
		Add 10 % (Towards transportation damages)		14580	2498		16875	- 2690	
		Total for Raising		160380	27479	187859	185625	29585	215210
		Or				180000			216000
				( @ 280 Per ha )			( @ 280 Per ha )		
1	Rebbena	Replacment for 1st year	233.000	30240			35000		
		Add 10 % (Towards transportation damages)		3024			3500		
				33264			38500		
		Total for maintainance	Or	34000			38500		

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# UNIT COST FOR RAISING OF PRIMARY BEDS

Sl. No.	FSR-2018-19 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	4.72	4.72
3	01.01.03	Digging of soil of the demarcated beds	Bed	36.32	36.32
4	01.01.04	Cost of sandy soil and transportation	Bed	28.00	28.00
5	01.01.05	5 Kms to 25 Kms	Bed	22.20	22.20
6	01.01.06	Cost of FYM	Bed	24.06	24.06
7	01.01.07	Mixing of soil with FYM	Bed	10.32	10.32
8	01.01.08	Covering the beds	Bed	11.79	11.79
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	11.74	11.74
12	01.01.13	Watering the primary nursery beds	45 Days	19.815	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	LS	20.00	20.00
		Total			433.21
		Rasing of seedlings 110% for abtaining 100%		10%	43.32
		Total			476.53
		cost of each plant (2000 plants per bed) - 2018-19			0.238

Unit Cost for 2019 -20

plant 0.262

Unit Cost for 2020-21

plant 0.288

Unit Cost for 2021-22

plant 0.317

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# UNIT COST FOR BAG PLANT NURSERY (NOVEMBER TO MARCH)

Sl. No.	FSR-2018-19 Code	Item of work	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	7
		<b>Raising of bag plant nursery 5x9</b>			
1	01.03.01	Site preparation	Bed	48.18	48.18
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	01.03.08	Preparation of potting mixture (b) 12.5 cm x 22.5 (5" x 9")	Bed	1542.58	1542.58
7	01.03.09	Alignment of beds	Bed	7.20	7.20
8	01.03.10	Pricking out seedlings	Bed	227.85	227.85
9	01.03.12	Watering the plants (5 Months) a) Manually with rose cans or finely perforated nozzle	Bed	1300.50	1300.50
10	01.03.13	Weeding the beds (3 weedings)	Bed	143.28	143.28
11	01.03.14	Shifting, Grading and re-arranging (2 Gradings) twice	Bed	446.14	446.14
12	01.03.15	Replacement of casualties	Bed	63.34	63.34
13	01.03.16	Cost of foliar nutrient formulations	Bed	34.00	34.00
14	01.03.18	Weeding in the space (4 weedings)		130.20	130.20
15		Watch and Ward (100 Beds) (5 Months) 5 x 8340		417.00	417.00
16		Electricity charges		200.00	200.00
		<b>Total</b>			<b>7677.43</b>
		add casualty 10%			767.74
		<b>Grand Total</b>			<b>8445.17</b>
		<b>cost of each plant (1700 plants per bed)-2018-19</b>			<b>4.968</b>

Unit Cost for 2018-19

Unit Cost for 2019-20

Unit Cost for 2020 -21

Unit Cost for 2021-22

Plant 5.465

Plant 6.011

Plant 6.612

Plant 7.273

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# UNIT COST FOR MAINTENANCE OF BAG PLANTS (5"x9") (April to August)

Sl. No.	FSR-2018-19 Code	Item of work	Unit	Rate	Amount
1	2	3	4	5	7
		<b>Maintenance of Bag plants</b>			
1	01.03.19	Watering poly bag (April to August)	Bed	1300.50	1300.50
2	01.03.20	Weeding (2 weedings)	Bed	95.52	95.52
3	01.03.21	Shifting and grading	Bed	446.14	446.14
		Electricity charges		200.00	200.00
		Watch and Ward (100 Beds) (5 Months) 5 x 8340		417.00	417.00
		<b>Total</b>			<b>2459.16</b>
		<b>Cost of each plant (1700 plants per bed)- 2018-19</b>			<b>1.447</b>

Unit Cost for 2019-20  
Unit Cost for 2020-21  
Unit Cost for 2021-22  
Unit Cost for 2022-23

Plant 1.591  
Plant 1.750  
Plant 1.925  
Plant 2.118

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# UNIT COST FOR CONVERSION FROM 5"x 9" to 8"x12" (1000 plants)

Sl. No.	FSR-2018-19 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	01.03.27	Preparation of potting mixture by powering of various ingredients 5"x9" to 8"x12" polybags	1000 plants	1614.72	1614.72
3	01.03.32	Stakes			
4	01.03.33	Weeding the plants (47.76 x 2 x 1000/800)		2246.40	2246.40
	01.03.30	Shifting, Grading (01.03.14)	1000 plants	119.40	119.40
5	01.03.35	Watering the plants manually twice a day Manually with rose can (5 Months)	1000 plants	223.07	223.07
6	01.03.37	Cost of Fertilizers	1000 plants	1300.50	1300.50
7		Watch and Ward (100 Beds) (5 Months) 5 x 8340		20.00	20.00
8		Cost of the ploythene bags (10000x1.1/86x175)	1000 plants	417.00	417.00
9	01.03.39	Electricity charges		2238.37	2238.37
				400.00	400.00
10	01.03.34	Contingencies @ 5%			10979.46
					548.97
11		Add 10% Casualty			11528.44
					1152.84
12		Grand Total			12681.28
		cost of each plant for 2018-19			12.681

Unit Cost for 2019-20  
Unit Cost for 2020-21  
Unit Cost for 2021-22  
Unit Cost for 2022-23

Plant 13.949  
Plant 15.344  
Plant 16.879  
Plant 18.567

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**UNIT COST FOR MAINTENANCE OF BAG PLANTS (April to August)**

Sl. No.	FSR-2018-19 Code	Item of work	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	7
		<b>Maintenance of Bag plants</b>			
1	01.04.01	a) Watering poly bag (April to August)	Bed	1040.40	1040.40
2	01.04.02	Weeding	Bed	47.76	47.76
3	01.04.03	Shifting and grading (01.03.14)	Bed	446.14	446.14
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	26.30	26.30
7		Watch and ward (5 months) (8340x5/100 beds)		417.00	417.00
8	01.04.09	Electricity charges		300.00	300.00
		<b>Total</b>			<b>2322.60</b>
8	01.04.08	Contingencies @ 5%			<b>116.13</b>
9		<b>Total</b>			<b>2438.73</b>
		<b>cost of each plant (800 Plants per bed)-2018-19</b>			<b>3.048</b>

Unit Cost for 2019-20

Unit Cost for 2020 -21

Unit Cost for 2021-22

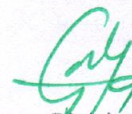
Unit Cost for 2022-23

3.353

3.689

4.057

4.463

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

## Unit Rate per Ha

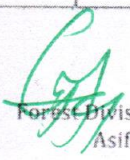
FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
02.08.01	Survey with GPS (Only staff to carry out) (Staff to carryout GPS Survey. One manday is allowed for assistance)	1	339.66	Plantation	340
02.08.02	Clearing unsalable unwanted jungle growth				
	(a) Sparse Jungle growth (< 10% ground area covered with Jungle growth)	0.4	1887.86	Ha	755
	(b) Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)	0.4	2837.66	Ha	1135
	(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	5686.75	Ha	1137
02.08.03	Uprootal of stumps				
	(a) Sparse Jungle growth (< 10% ground area covered with Jungle growth)	0.4	5033.32	Ha	2013
	(b) Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)	0.4	9741.86	Ha	3897
	(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	12664.86	Ha	2533
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	5359.33	Ha	2144
	(b) Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)	0.4	8504.65	Ha	3402
	(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	9916.46	Ha	1983
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	15901.60	Ha	15902
	Unit Rate for 2018-19				35241

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

			Unit Rate per Ha		
Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	3	4	5	6
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 unfilled areas - Hard Soils</b>	1	4961.06	Ha	4961
02.09.01	Removing congestion of root suckers and other uprooted material hindering the effective ploughing	1	985.70	1	986
02.09.04	© Alignment and staking including laying base line for Misc species with espacement 3mX3m (1111 Nos)	1111	81.03	100	900
02.09.05	Cost of 0.45 M Stake preparation and transportation to site	1111	51.65	100	574
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)	1111	11.43	1	12697
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	158.384	341.95	cum	54159
	<b>Transportation of Bag plants / Root trainer plants from nursery site to plantation site including loading and unloading.</b>				
02.09.07	upto 5 Km lead(20X30 cm (8"X12")bag plants)	1111	190.84	100	2120
02.09.08	5 Km to 25 Km lead(20X30 cm (8"X12")bag plants)	1111	148.60	100	1651
	Internal transport of bag plants/root trainers to planting points on head loads.				
02.09.10	20X30 cm (8"X12")bag plants	1111	128.79	100	1431
02.09.11	Cost of SSP, Chloridine dust or Chloropyriphos	1111	2.00	1	2222
a	Application of 50gm of SSP per pit	1111	35.62	100	396
	<b>Planting Bag Plants</b>				
02.09.13	Planting in 60 cm <sup>3</sup> Pit (for 45 cm <sup>3</sup> pit - Rs.396.80)	1111	939.86	100	10442
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 - 4 waterings	1111	960.96	100	10676
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	5.71	1	1269
	Transportation	222	339.44	100	754
	Internal Transportation	222	128.79	100	286
	Planting	222	939.86	100	2086
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	35.62	100	396
02.09.18	a) Circular weeding to a radius of 0.50 m around the plant (during July - Aug)	1111	113.34	100	1259
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	595.23	100	6613
02.09.20	(b) Inter ploughing with heavy duty tractor of 55 HP to a depth of 30 cm in Hard Gravelly Soils during Novermber	1	3091.77	1	3092
02.09.22	Uprootal of Mahaveera Weed	1	3311.47	1	3311
02.09.24	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher 8340 x 9 = 75060 /10	1	7506.00	Ha	7506
	<b>Unit Rate for 2018-19</b>				<b>148674</b>

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

Unit Rate per Ha					
FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
02.10.01	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)	278	11.428	1	3177
02.09.07	Transportation up 5km	278	190.84	100	531
02.09.08	Transportation beyond 5 Km (25 - 5 ) = 20 KM	278	148.60	100	413
02.09.10	Internal Transportation	278	128.79	100	358
02.09.13	Planting in 60 cm <sup>3</sup> Pit (for 45 cm <sup>3</sup> pit - Rs.381.54)	278	939.86	100	2613
02.09.14	Watering to the plants- 4 times	1111	960.96	100	10676
02.09.16	Cost of DAP @25gm / planting point	1111	1.00	1	1111
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	17.81	100	198
02.10.02	Circular weeding to a radius of 0.50 m around the plant during raising year (July - Aug)	1111	113.34	100	1259
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	595.23	100	6613
02.10.04	Uprootal of Mahaveera	1	3311.47	Ha	3311
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	2253.79	Ha	2254
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	112.68	100	1252
02.10.09	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; 8340 x 12 = 100080 / 10	1	10008.00	Ha	10008
Unit Rate for 2018-19					43774

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# Unit Cost for 2nd Year Maintenance of NTSB 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
02.10.01	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	11.428	1	640
02.09.07	Transportation up 5km	56	190.84	100	107
02.09.08	Transportation beyond 5 Km (25 - 5) = 20 KM	56	148.60	100	83
02.09.10	Internal Transportation	56	128.79	100	72
02.09.13	Planting in 60 cm <sup>3</sup> Pit (for 45 cm <sup>3</sup> pit - Rs.396.80)	56	939.86	100	526
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	2253.79	Ha	2254
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	595.23	100	6613.00
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	112.68	100	1252.00
02.10.04	Uprootal of Mahaveera (60% of the area)	0.60	3311.47	Ha	1987
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	5.55	Rmt	555
02.11.05	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; 8340 x 12 = 100080 / 10	1	10008.00	Ha	10008.00
Unit Rate for 2018-19					24097

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# Unit Cost for 3rd Year Maintenance of NTSB 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	595.23	100	6613
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	112.68	100	1252
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	331.02	100 Rmt	331
02.11.05	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; $8340 \times 12 = 100080 / 10$	1	10008.00	Ha	10008
Unit Rate for 2018-19					18204

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**Unit Cost for 4th Year Maintenance of NTS Plantation (3m x 3m ) SMM per Ha**

**Unit Rate per Ha**

FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	3	4	5	6
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	595.23	100	6613
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	112.68	100	1252
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	331.02	100 Rmt	331
02.11.05	<b>Cost of Protection: One Watcher</b> is allowed for 10-30 ha. plantation; 8340 x 12 = 100080 / 10	1	10008.00	Ha	10008
	<b>Unit Rate for 2018-19</b>				<b>18204</b>

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**Unit Cost for 5th 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	3	4	5	6
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- <b>Hence 25% of cost adopted</b>	1111	148.81	100	1653
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	331.02	100 Rmt	331
02.11.05	<b>Cost of Protection: One Watcher</b> is allowed for 10-30 ha. plantation; $8340 \times 12 = 100080 / 15$	1	6672.00	Ha	6672
	<b>Unit Rate for 2018-19</b>				<b>8656</b>

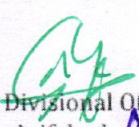
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**Unit Cost for 6th Year Maintenance of NTSB Plantation (3m x 3m ) SMM per Ha**

**Unit Rate per Ha**

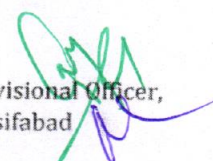
FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
02.11.02	Pruning of flower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)	1111	112.68	100	1252
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	100	331.02	100 Rmt	331
02.11.05	<b>Cost of Protection: One Watcher</b> is allowed for 10-30 ha. plantation; 8340 x 12 = 100080 / 15	1	6672.00	Ha	6672
<b>Unit Rate for 2018-19</b>					<b>8255</b>

  
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 Asifabad



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

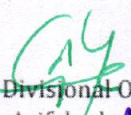
Unit Rate per Ha					
FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
02.11.01	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick axe only) without damaging the plant. (July-Aug)-the work will be carried out between 1 m to 1.1 m in a ring formation- <b>Hence 25% of cost adopted</b>	1111	148.81	100	1653
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	331.02	100 Rmt	331
<b>Unit Rate for 2018-19</b>					<b>1984</b>

  
 Forest Divisional Officer,  
 Asifabad



**Unit Cost for 8th 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 sciculture upto 1/3 rd height (to be done during July - Aug)	1111	112.68	100	1252
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	331.02	100 Rmt	331
<b>Unit Rate for 2018-19</b>					<b>1583</b>

  
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 Asifabad



**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	148.81	100	1653
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and	100	331.02	100 Rmt	331
<b>Unit Rate for 2018-19</b>					<b>1984</b>

Forest Divisional Officer,  
Asifabad



**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	112.68	100	1252
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	331.02	100 Rmt	331
	<b>Unit Rate for 2018-19</b>				<b>1583</b>

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 Asifabad



**Unit cost for Digging of Cattle Proof Trench (CPT) along the RF Boundary in Asifabad division during the year 2018-19**

**Unit cost for 1.00 KM**

SLN 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 ((2m+1.5m)/2) x 2m = 3500 Cu.m ( per KM)		3500	Cum	42.30	Cum	148050
			Total :				148050
			Add SGST ( 6 % ) :				8883
			Add CGST ( 6 % ) :				8883
			Add CESS ( 1 % ) :				1481
			Grand Total :				167297

Or 167500

Forest Divisional Officer  
Asifabad



# Unit cost for Stabilization of Trench mound ( Bund planting ) along RF boundary -As per FSR 2018-19

Area in Ha/Km. : 1.00 KM

Gachakaya-2000 + wild edible fruit species-500 + Bamboo-250 = 2750)

Sl. No	FSR Item No.	Nature of work	Quantity		Rate		Unit per	Amount
1	2	3	4	5	6	7	8	9
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 cumini etc. All these plantings will be one time operation without further years' maintainance. The process includes following steps:						
	03.02.01	1) Planting of - (A) 2 rows of Gachakaya (Caesalpinia bonduc) seedlings in 2 staggered rows in 1x1 m spacing (row to row 1 m and within the row 2 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. The total planting points thus works out to be 2750 seedlings per km on trench mound.						
		(A) 2 rows of Gachakaya (Caesalpinia bonduc) seedlings in 2 staggered rows in 1x1 m spacing (row to row 1 m and within the row 2 m spacing) on the outer slope of the trench mound.						
		(a) Alignment & Stacking (in 2 staggered rows)	2000	Nos	72.88	100	Nos	1458
		(b) Cost of preparation of stakes (0.45 m length) and transportation to site	2000	Nos	51.67	100	Nos	1033
		(c) Digging of 45 cm <sup>3</sup> pits (50% of original rate) to be done during June	2000	Nos	9.65	1	No	19300
		(e) Transportation of seedlings (including loading and unloading) & Internal transport -						
		(i) From nursery to plantation site - upto 5 Kms lead - 12.5x22.5cm (5"x9") bag plants	2000	Nos	47.82	100	Nos	956
		(ii) From nursery to plantation site - beyond 5 Km lead - for every extra km beyond 5 km upto 25 km ( 20 Kms X 1.97 )	2000	Nos	39.40	100	Nos	788
	03.02.02	Internal transportation to planting points on Head loads	2000	Nos	53.84	100	Nos	1077
	03.02.03	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	127.49	100	Nos	2550
2		(B) 1 row of wild edible fruit species on the ridge line of the trench mound at 2 m apart ( Bag Planting)						
	02.01.04	(b) Cost of preparation of stakes (0.45 m length) and transportation to site	500	Nos	51.65	100	Nos	258
	02.01.05	(c) Alignment & Stacking	500	Nos	107.86	100	Nos	539
		(d) Digging of 45 cm <sup>3</sup> pits (50% of original rate) to be done during June	500	Nos	9.65	1	No	4825
		(e) Transportation of seedlings (including loading and unloading) & Internal transport -						
	02.02.01	(i) From nursery to plantation site - upto 5 Kms lead - (b) 15 X 30 cm (6"x12") bag plants	500	Nos	106.47	100	Nos	532
	02.02.02	(ii) From nursery to plantation site - beyond 5 Km lead - for every extra km beyond 5 km upto 25 km ( 20 x 3.72 )	500	Nos	74.40	100	Nos	372
	02.02.04	Internal transportation to planting points on Head loads (b) 15 X 30 cm (6"x12") bag plants	500	Nos	83.27	100	Nos	416
	03.02.03	Planting with 2 m apart in one row (500Nos. per km)	500	Nos	127.49	100	Nos	637
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)						
	02.01.04	(b) Cost of preparation of stakes (0.45 m length) and transportation to site	250	Nos	51.65	100	Nos	129
	02.01.05	(a) Alignment & Stacking	250	Nos	107.86	100	Nos	270
		(d) Digging of 45 cm <sup>3</sup> pits (50% of original rate) to be done during June	250	Nos	9.65	1	No	2413
		(e) Transportation of seedlings (including loading and unloading) & Internal transport -						



Sl. No.	FSR Item No.	Nature of work	Quantity		Rate	Unit per		Amount
1	2	3	4	5	6	7	8	9
	02.02.01	(i) From nursery to plantation site – upto 5 Kms lead - (b) 15 X 30 cm (6"X12") bag plants	250	Nos	106.47	100	Nos	266
	02.02.02	(ii) From nursery to plantation site - beyond 5 Km lead - for every extra km beyond 5 km upto 25 km ( 20 x 3.72 )	250	Nos	74.40	100	Nos	186
	02.02.04	Internal transportation to planting points on Head loads (b) 15 X 30 cm (6"X12") bag plants	250	Nos	83.27	100	Nos	208
	03.02.03	Planting with 4 m apart in one row ( 250 Nos. per km)	250	Nos	127.49	100	Nos	319
4		(D) broadcasting of pretreated (overnight soaking in boiled water) Babul (Acacia nilotica) seeds inside trench @ 500gms per km by staff						200
		<b>Total</b>						<b>38733</b>

Or 38733

Forest Divisional Officer,  
Asifabad