

Year-wise detailed Abstract of CA Scheme for Raising of 2.5 Ha Plantation in Degraded Forest Land for NH765DG Medak - Siddipet- Elakurthi Road - Siddipet Division

Year-wise detailed Abstract of CA Scheme for Raising of 20 Ha Plant

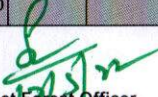
Sl. No	Item of Work	2021-22			2022 - 23			2023 - 24			2024 - 25			2025 - 26			2026 - 27			2027 - 28		
		Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)
1	2	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
I	Procurement of Tall Plants																					
1	Procurement of Tall Plants	4600	0.00050	2.30000	4600	0.00055	2.53000	4600	0.00060	2.76000												
	Sub Total:									2.760			0.000			0.000			0.000			0.000
	DFL																					
II	Planting activities (SMM) in 2.5 ha																					
2	Advance Operations	2.50	0.33	0.825	2.50	0.3700	0.925															
3	Raising of Plantation	2.50	1.07	2.675				2.50	1.29	3.225												
4	1st Year Maintenance	2.50	0.30	0.750							2.50	0.40	1.000									
5	2nd Year Maintenance	2.50	0.14	0.350										2.50	0.21	0.525						
6	3rd Year Maintenance	2.50	0.14	0.350													2.50	0.23	0.575			
7	4th Year Maintenance	2.50	0.14	0.350																2.50	0.25	0.625
8	5th Year Maintenance	2.50	0.14	0.350																		
9	6th Year Maintenance	2.50	0.14	0.350																		
10	7th Year Maintenance	2.50	0.14	0.350																		
11	8th Year Maintenance	2.50	0.14	0.350																		
12	9th Year Maintenance	2.50	0.14	0.350																		
13	10th Year Maintenance	2.50	0.14	0.350																		
	Sub Total:			7.400			0.925			3.225			1.000			0.525			0.575			0.625
	SMM Plantation Total									5.985			1.000			0.525			0.575			0.625

Sl. No	Item of Work	2021-22			2022 - 23			2023 - 24			2024 - 25			2025 - 26			2026 - 27			2027 - 28		
		Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)
1	2	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
II	Raising of Avenue Plantation 0.36 Km																					
1	Cost of Plants	1150	0.00100	1.15000	1150	0.00110	1.265	1150	0.00120	1.380												
	Sub Total									1.380												
2	Raising of Plantation	0.36	6.48	7.140	0.36	7.140	7.140	0.36	7.85	7.850	0.36	7.85	7.850									
3	1st Year Maintenance	0.36	3.87	1.394							0.36	4.26	4.260									
4	2nd Year Maintenance	0.36	4.41	1.589										0.36	4.68	4.680						
5	3rd Year Maintenance	0.36	4.86	1.748													0.36	5.15	5.150			
6	4th Year Maintenance	0.36	5.34	1.923																0.36	5.67	5.670
7	5th Year Maintenance	0.36	5.88	2.115																		
	Avenue Plantation 0.36 KM									7.850			12.110			4.680			5.150			5.670
	Total									9.230			4.260			4.680			5.150			5.670
	SMC Works 25%			0.000			0.000			4.839			1.315			1.301			1.431			1.574
	Constructions of Boundary Pillars			1.200			0.000			1.200			0.000			0.000			0.000			0.000
	Nursery Infrastructure																					
	SMC Works Total:						0.000			6.039			1.315			1.301			1.431			1.574
	Administrative Cost - 10%			0.000			0.000			2.125			0.658			0.651			0.718			0.787
	Grand Total			0.000			0.000			23.379			7.233			7.157			7.872			8.658

Year-wise detailed Jation in Degraded Forest Land for NH76SDG Medak - Siddipet- Elakurthi Road - Medak Division

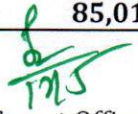
Sl. No	Item of Work	2028 - 29			2029 - 30			2030 - 31			2031- 32			2032 - 33			2033- 34			Grand Total	
		Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Fin
1	2	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
I	Procurement of Tall Plants																				
1	Procurement of Tall Plants																			4600	2.76000
	Sub Total:			0.000			0.000			0.000			0.000			0.000			0.000		2.76000
	DFL																				
II	Planting activities (SMM) in 2.5 ha																				
2	Advance Operations																			2.50	0.92500
3	Raising of Plantation																			2.50	3.22500
4	1st Year Maintenance																			2.50	1.00000
5	2nd Year Maintenance																			2.50	0.52500
6	3rd Year Maintenance																			2.50	0.57500
7	4th Year Maintenance																			2.50	0.62500
8	5th Year Maintenance	2.50	0.28	0.6875																2.50	0.68750
9	6th Year Maintenance				2.50	0.31	0.775													2.50	0.77500
10	7th Year Maintenance							2.50	0.33	0.825										2.50	0.82500
11	8th Year Maintenance										2.50	0.37	0.9125							2.50	0.91250
12	9th Year Maintenance													2.50	0.41	1.025				2.50	1.02500
13	10th Year Maintenance																2.50	0.456	1.140	2.50	1.14000
	Sub Total:			0.688			0.775			0.825			0.913			1.025			1.140		12.2400
	SMM Plantation Total			0.688			0.750			0.825			0.913			1.000			1.100		15.000

Sl. No	Item of Work	2028 - 29			2029 - 30			2030 - 31			2031- 32			2032 - 33			2033- 34			Grand Total	
		Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Fin
1	2	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
II	Raising of Avenue Plantation 0.36 Km																				
1	Cost of Plants																			1150	1.38000
	Sub Total																				1.38000
2	Raising of Plantation																			0.36	7.85000
3	1st Year Maintenance																			0.36	4.26000
4	2nd Year Maintenance																			0.36	4.68000
5	3rd Year Maintenance																			0.36	5.15000
6	4th Year Maintenance																			0.36	5.67000
7	5th Year Maintenance	0.36	6.23	6.230																0.36	6.23000
	Avenue Plantation 0.36 KM			6.230			0.000			0.000			0.000			0.000			0.000		33.840
	Total			6.230			0.000			0.000			0.000			0.000			0.000		35.220
	SMC Works 25%			1.730			0.000			0.000			0.000			0.000			0.000		12.555
	Constructions of Boundary Pillars			0.000			0.000			0.00			0.000			0.000			0.000		1.200
	Nursery Infrastructure																				2.500
	SMC Works Total:			1.730			0.000			0.000			0.000			0.000			0.000		16.255
	Administrative Cost - 10%			0.865			0.075			0.083			0.091			0.100			0.110		6.648
	Grand Total			9.512			0.825			0.908			1.004			1.100			1.210		73.123


 District Forest Officer,
 Siddipet

**DETAILS ABSTRACT OF C.A SCHEME IN COMPT NO.203/1, OF INDUPRIYAL RESERVE FOREST
OF DUBBAK RANGE OF SIDDIPET DISTRICT**

Sl.No	Details of CA Scheme	Phy (area in Ha)	Fin (In Rupees)
1	Net present Value @ Area in Ha X 957780/-	1.104	10,57,389
2	Cost of Tree Growth	363	1,19,401
	Total - 1		11,76,790
3	Details of CA in DFL are shown below		
a	Raising and Maintenance of Nursery 2023-24 @ 60/-	4600.00	2,76,000
b	Advance operation works during 2022-23	2.50	92,500
c	Raising of plantation during 2023-24	2.50	3,22,500
d	1st year Maintenance during 2024-25	2.50	1,00,000
e	2nd year Maintenance during 2025-26	2.50	52,500
f	3rd year Maintenance during 2026-27	2.50	57,500
g	4th year Maintenance during 2027-28	2.50	62,500
h	5th year Maintenance during 2028-29	2.50	68,750
i	6th year Maintenance during 2029-30	2.50	77,500
j	7th year Maintenance during 2030-31	2.50	82,500
k	8th year Maintenance during 2031-32	2.50	91,250
l	9th year Maintenance during 2032-33	2.50	1,02,500
m	10th year Maintenance during 2033-34	2.50	1,14,000
	Total - 2		15,00,000
1	Cost of Plants	1150.00	1,38,000
2	Raising of Avenue Plantation	0.36 KM	7,85,000
3	1st Year Maintenance of Avenue Plantation	0.36 KM	4,26,000
4	2nd Year Maintenance of Avenue Plantation	0.36 KM	4,68,000
5	3rd Year Maintenance of Avenue Plantation	0.36 KM	5,15,000
6	4th Year Maintenance of Avenue Plantation	0.36 KM	5,67,000
7	5th Year Maintenance of Avenue Plantation	0.36 KM	6,23,000
	Total - 3		35,22,000
	Grand Total		61,98,790
1	Add 10 % escalation charges for Office administration and Maintenance of Office records	Ls	6,64,800
	Total - 4		6,64,800
1	SMC works		12,55,500
2	Boundary pillars construction cost		1,32,000
3	Nursery Infrastructure		2,50,000
	Total - 5		16,37,500
	Scheme Total		85,01,090


 District Forset Officer,
 Siddipet



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

		Unit Rate per Ha			
FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
	ADVANCE OPERATION (PRE-PLANTING OPERATION) - All advance-operation works of plantations to be raised shall be completed before March. Perambulation of site, preparing site inspection report including type of vegetation and density, approval of site suitability and the category of jungle growth clearance, taking the images of the existing vegetation, preparation of treatment plan shall be prepared and approved by DFO before taking up advance operation. In case of retrieved encroached area to be planted with SMM, mention will be made regarding the type of vegetation existing and whether uprootal is required, or can be directly ploughed with a heavy-duty tractor)				
02.08.01	Survey with GPS (Only staff to carry out) (Staff to carryout GPS Survey. One manday is allowed for assistance)	1	393.21	Plantation	393
02.08.02	Clearing unsalable unwanted jungle growth (leaving all the tree species of good form particularly the hardwood tree species like Teak, Nallamaddi, Yegisa, Narepa, Somi, Jitregi, Billudu, Chenangi etc. and NTFP species like Ippa, Morri, Tani, Karaka, Vepa, Maredu, Tapasi, Tuniki, Chinta, Usuri, Nallajeedi etc.); Spreading the cut material all over the site; and Burning the same twice till completely burnt. The unsuitable area shall be excused from the clearing operation and the expenditure shall be incurred for effective area only.				
	(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.	1	7717.50	Ha	7718
02.08.03	Uprootal of Stumps (excluding unsuitable patches) to a minimum depth of 45 cm with heavy machinery fitted with 0.90 cum and above capacity bucket, filling the pits caused by uprootal, and levelling. For retrieved encroached area, the approval of Circle Head is required and the approval should indicate clearly the density of stumps or vegetation to be removed through uprootal. The uprootal work can be carried out preferably through tender process.				
	(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.	1	14349.28	Ha	14349
02.08.04	Collection and Removal of Uprooted Stumps of all sizes, other debris etc., to outside the plantation site.				
	(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.	1	11260.88	Ha	11261
	Unit Rate for 2021 -22				33721.00

10% added extra FSR Rate on 2022-23

37093.10

District Forest Officer,
Siddipet

Unit Cost for Raising of N.T.S.H. Plantations 3m x 3m. (SMM) during 2022-23

Code	Item of work	Qty	Rate (Rs.)	Unit Rate per Ha	
				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	5620.89	Ha	5621
02.09.01	Removing congestion of root suckers and other uprooted material hindering the effective ploughing	1	1119.37	1	1119
02.09.04	© Alignment and staking including laying base line for Misc species with espacement 3mX3m (1111 Nos)	1666	93.82	100	1563
02.09.05	Cost of preparation of stakes (0.45 m length) and transportation to site	1666	1260.00	100	20992
02.09.06	Digging of Pits in Ploughed Areas in June - July by adopting 50% of original rate of digging of pits of ordinary soil	1666	11.19	1	18643
	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 (8"X12") bag plants)	1666	268.03	100	4465
02.09.08	© 5 km to 25 km lead (20X30 cm (8"X12") bag plants)	1666	9.42	100	157
	Internal transport of bag plants/root trainers to planting points on head loads.				
02.09.10	(c)20X30 cm (8"X12")bag plants	1666	173.08	100	2884
02.09.11	Fortification of seedling with insecticide and treating pits with SSP				
	(b) Cost of SSP, Chloridine dust or Chloropyriphos	1666			1500
	(a) Application of 50 gm of SSP per pit (1 day before planting) for root growth and early establishment of plant after planting. ii) Similarly, the bag plants to be planted will be dipped inside Chloropyriphos solution (5ml Chloropyriphos in 1 lit water) either at nursery site before transport or at plantation site before planting	1666	41.23	100	687
	Planting Bag Plants				
02.09.12	Planting in 60 cm cubic Pit (for 45 cm cubic pit - Rs.396.8)	1666	459.30	100	7652
02.09.14	a) One critical watering after planting if planting takes place on non-rainy days with the prior written permission of DFO/FDO	1666	278.11	100	4633
	b) 2nd watering if dry spell is more than 5-6 days after first watering on the day of planting with the prior written permission of Circle Head.	1666	278.11	100	4633
02.09.15	Replacement of Casualties 20% during Raising & 20% 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 in Ploughed Areas in June - July by adopting 50% of original rate of digging of pits of ordinary soil - Half of the rate of Rs.9.65 *1.333*1.333*1.333 (Rate for 45 cm cube pit - Rs.9.65 per pit)	333	11.19	1	3726
02.09.07	Transportation © upto 5 km lead (20X30 cm (9"X11") bag plants)	333	268.03	100	893
02.09.08	Transportation © 5 km to 25 km lead (20X30 cm (9"X11") bag plants)	333	9.42	100	31
02.09.10	Internal transportation to planting points on head loads - © 20X30 cm (9"X11") bag plants	333	173.08	100	576
02.09.13	Planting in 60 cm cubic Pit (for 45 cm cubic pit - Rs.396.8)	333	459.30	100	1529
02.09.16	Cost of DAP @25gm / planting point	1666		100	1000
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	41.23	100	687
02.09.18	a) Circular weeding to a radius of 0.50 m around the plant (during July - Aug)	1666	131.20	100	2186

Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	3	4	5	6
02.09.19	b) Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (during Nov - Dec.)	1666	689.06	100	11480
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 (b) Hard gravelly soil	1	3502.95	1	3503
02.09.21	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3rd height (to be during October)	1666	130.43	100	2173
02.09.22	Uprootal of Mahaveera Weed	1	3833.45	1	3833
02.09.25	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation: One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers shall be pasted in respective Plantation Journal. Every month payment to be made after satisfaction by Plantation-in-charge that fence is in proper condition and entry of grazing animals is stopped. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival at the end of raising year. Rs.8340 per month x 9 months / 20 ha	1	875.70	Ha	876
	Unit Rate for 2021 -22				107048

10% added extra FSR Rate on 2022-23

10% added extra FSR Rate on 2023-24

10% added extra FSR Rate on 2024-25

117753

129528

142481

District Forest Officer,
Siddipet

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 in Ploughed Areas in June - July by adopting 50% of original rate of digging of pits of ordinary soil - Half of the rate of Rs.9.65 *1.333*1.333*1.333 (Rate for 45 cm cube pit - Rs.9.65 per pit)	417	11.43	1	4766
02.09.07	Transportation © upto 5 km lead (20X30 cm (8"X12") bag plants)	417	268.03	100	1118
02.09.08	Transportation © 5 km to 25 km lead (20X30 cm (8"X12") bag plants)	417	9.42	100	39
02.09.10	Internal transportation to planting points on head loads - © 20X30 cm (8"X12") bag plants	417	173.08	100	722
02.09.13	Planting in 60 cm cubic Pit (for 45 cm cubic pit - Rs.396.80)	417	459.30	100	1915
	Weeding and Soucer formation to a radius of 0.5M around the plant during June	1666	131.00	100	2182
	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant during Nov - Dec	1666	689.06	100	11480
02.10.04	Uprootal of Mahaveera (70% of the area)	0.7	3833.45	Ha	2683
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	2553.54	Ha	2554
02.10.06	Pruning of flower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)	1666	130.00	100	2166
02.10.09	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers shall be pasted in respective Plantation Journal. Every month payment to be made after satisfaction by Plantation-in-charge that fence is in proper condition and entry of grazing animals is stopped. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival at the end of raising year. Rs.8340 per month x 12 months / 20 ha	1	875.70	Ha	876
	Unit Rate for 2021 -22				30501

10% added extra FSR Rate on 2022-23

33551.1

10% added extra FSR Rate on 2023-24

36906.21

10% added extra FSR Rate on 2024-25

40596.83


 District Forest Officer,
 Siddipet



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
02.11.01	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (July-Aug)	1666	689.06	100	11480.00
02.11.02	Pruning of flower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)	1666	130.48	100	2174.00
02.11.05	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers shall be pasted in respective Plantation Journal. Every month payment to be made after satisfaction by Plantation-in-charge that fence is in proper condition and entry of grazing animals is stopped. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival at the end of raising year. Rs.8340 per month x 12 months / 20 ha	1	875.70	Ha	876.00
	Unit Rate for 2021 -22				14530

	10% added extra FSR Rate on 2022-23	15983
	10% added extra FSR Rate on 2023-24	17581
1	10% added extra FSR Rate on 2024-25	19339
2	10% added extra FSR Rate on 2025-26	21273
3	10% added extra FSR Rate on 2026-27	23401
4	10% added extra FSR Rate on 2027-28	25741
5	10% added extra FSR Rate on 2028-29	28315
6	10% added extra FSR Rate on 2029-30	31146
7	10% added extra FSR Rate on 2030-31	34261
8	10% added extra FSR Rate on 2031-32	37687
9	10% added extra FSR Rate on 2032-33	41456
10	10% added extra FSR Rate on 2033-34	45601


 District Forest Officer,
 Siddipet

Unit Cost for 3rd 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)	1666	689.06	100	11480.00
02.11.02	Pruning of flower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)	1666	130.48	100	2174.00
02.11.05	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers shall be pasted in respective Plantation Journal. Every month payment to be made after satisfaction by Plantation-in-charge that fence is in proper condition and entry of grazing animals is stopped. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival at the end of raising year. Rs.8340 per month x 12 months / 20 ha	1	875.70	Ha	876.00
	Unit Rate for 2018 -19				14530

10% escalation every year

10% added extra FSR Rate on 2022-23

15983

10% added extra FSR Rate on 2023-24

17581

10% added extra FSR Rate on 2024-25

19339

10% added extra FSR Rate on 2025-26

21273

10% added extra FSR Rate on 2026-27

23401

10% added extra FSR Rate on 2027-28

25741

10% added extra FSR Rate on 2028-29

28315

10% added extra FSR Rate on 2029-30

31146

10% added extra FSR Rate on 2030-31

34261

10% added extra FSR Rate on 2031-32

37687

10% added extra FSR Rate on 2032-33

41456

10% added extra FSR Rate on 2033-34

45601


 District Forest Officer,
 Siddipet

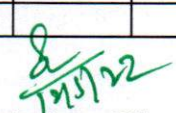
ESTIMATE FOR RAISING OF AVENUE PLANTATIONS (TRIPLE ROW) along the NH-765DG for the year 2021-22

Espacement: 2.5 m x 2.5 m -No.of plants per Km: 2800 Nos (1200 plants at each side of the road and 400 plants on central median of the Road)

No.of plants for 0.36 Km: 1008 Nos (432 plants at each side of the road and 144 on central median of the Road)

Item No.	Schedule of operations with Specification	Units	Rate	Qty	Amt
02.15.01	Preparation of site by clearing unwanted growth to a width of 3 m on each side in the planting row parallel to the road (equals to 0.6 ha clearance per km road length). <i>The GPS surveyed stretch of avenue plantation with effective length and number of planting points will be uploaded in PMIS module by end of January.</i>	1 km	1971.44	0.36	710
02.15.02	Alignment and Staking including cost of 45 cm long stakes	100	76.46	1038	794
	Digging of Pits				
02.15.03 - aii	ii) 60 cm ³ size (0.216 cum) in hard gravelly and moram Soil	per pit	50.99	1038	52928
02.15.04-b	Transportation of Planting Stock (including loading and unloading)				
	From nursery to plantation site -Upto 5 km				
	25 x 40 cm (9"x11") bag plants	100	268.03	1038	2782
02.15.05-b	b) For every extra km beyond 5 km upto 25 km				
	b) 25 x 40 cm (9"x11") bag plants	100 No /	9.42	1038	1956
02.15.06-b	For every extra km beyond 25 km				
	b) 25 x 40 cm (9"x11") bag plants	100 No /	4.57	1038	1186
02.15.07b	Internal transportation within the linear distance of plantation site				
	25 x 40 cm (9"x11") bag plants	100	173.08	1038	1797
02.15.09	Cost of superphosphate and chloridine dust	100	500	1038	5190
02.15.10	Cost of supporting stakes of 2.5 mtr long, sturdy and straight and minimum 10 cm girth at the base (if bamboos are not supplied by Dept).	100	1736.44	1038	18024
02.18.02	Cost and transportation of self-supporting HDPE tree gaurds	100	20000.00	1038	207600
02.18.04	Folding the Self supporting HDPE tree guard, fixing the bamboo stake near the center of the pit with crowbar (stake must be erected inside the crowbar hole to a depth of not less than 15 cms), putting the seedlings in the center of the pit, application of 100 gms of single superphosphate and 100 gms of chloridine dust, refilling the pits with dug-up soil, tying the plant with stake at two places, placing the HDPE tree guard in the pit before filling pit, filling the pit and forming saucer around the plant				
a	for 60 Cu.Cm with saucer of 0.50 m radius	100	3371.00	1038	34991
02.15.12	Cost and application of 1/2 cft FYM per plant - 1 month after planting	100	2083.73	1038	21629
02.15.15 i	WATERING - To be done through tractor-fitted water tanker (<i>preferably by calling tender</i>) with benchmark for survival (90%) and average incremental growth of 1.0 m by end of raising year (i.e. 2.5 m height by end of March of raising year) - irrespective of plantation raised departmentally or through contractor by tender process. Minimum of 10 liter per plant with a Water Tanker - <i>Staff will locate the casualty points under casualty replacement process, if any, and keep the pits ready for replacement before watering, so that the fresh tall plants get established easily. The Plantation-in-charge Officer should record the watering operation in Watering Watch Register and M-Book on the same day of watering.</i>				
	One watering on the day of planting : 1 watering				
	One watering every week after planting (July) : 4 waterings				
	August to December - once in 15 days: 10 waterings				
	January to March - 4 waterings per month: 12 waterings				
	Total waterings upto March: 27 waterings				
	a) Watering the plants - Main Rows	100plants per watering	738.12	1038	86094

Item No.	Schedule of operations with Specification	Units	Rate	Qty	Amt
02.15.18	Application of inorganic fertilizers like 25 gms of urea (2 month after planting, i.e. in August) and 50 gms of DAP (4 months after planting, i.e. in October). Fertilizer application shall be made by making 3 holes of 10 cm depth with crow bar at a distance of 20 cm away from plant and putting fertilizer and closing. This work needs to be monitored by Plantation-in-charge Officer at the time of application and needs to be entered in Plantation Journal.	100 / time	231.47	1038	4805
02.15.19	Cost of above inorganic fertilizers	100	500	1038	5190
02.15.20	Weeding and forming of saucer (two times - 1 st in July & 2 nd in September)	100 No / Time	480.75	1038	9980
02.15.21 ii	Replacement of causalities (10% - since watering provision is provided) including opening of pit, internal transportation, planting and refixing the fence.	100	3371.00	103	3472
02.15.22	Pruning of lower branch initials upto 1/3 rd height (to be done during October).	100	130.48	1038	1354
02.15.23	Clearing unwanted growth to a width of 3 m on both sides parallel to the road (to be done during Nov - Dec) which will create a fireline preventing spread of ground fire from adjacent agricultural field.	1 km	1311.31	0.36	472
02.15.24	Enumeration of planted seedlings with number of plants planted and number of plants surviving species-wise, along with average height and entering in the Enumeration Register (to be maintained compulsorily for each site) every month.	To be done by Plantation-in-charge Officer with the help of Plantation Watcher			
02.15.25	Cost of Protection: One Plantation Watcher for every 4 km effective length and thereafter one for every 4 km. Raising Year: 9 months; 1st year maint.: 12 months; and 2nd Yr. maint.: 6 months. Photo identity of every each Plantation Watchers with the address shall be pasted in respective Plantation Journal. Every month, payment to Plantation Watcher will be made after satisfaction by Plantation-in-charge that fence is in proper condition, the casualties are located and replaced and damage to the plants either from fire or cattle does not occur. The guiding principle for continuation of the services of a Plantation Watcher is at least 90% survival at the end of raising year.	per month per watcher	9654.59	9	173783
02.15.26	Cycle Allowance for Plantation Watcher	per day	4.60	9	1242
02.16.27	CONTINGENCIES: Plantation Boards, buckets and other expenses (as per actuals subject to maximum of 3% of the total estimate)	As per actuals subject to maximum of 3% of the total estimate			12784
	TOTAL- RAISING(for 0.36 Km)				648763
	TOTAL- RAISING(for 0.36 Km)				648763
1	10% added on the FSR rates 2022-2023				713639
2	10% added on the FSR rates 2023-2024				785003
3	10% added on the FSR rates 2024-2025				863503
4	10% added on the FSR rates 2025-2026				949854
5	10% added on the FSR rates 2026-2027				1044839
6	10% added on the FSR rates 2027-2028				1149323
7	10% added on the FSR rates 2028-2029				1264255
8	10% added on the FSR rates 2029-2030				1390681
9	10% added on the FSR rates 2030-2031				1529749
10	10% added on the FSR rates 2031-2032				1682724


 District Forest Officer,
 Siddipet



ESTIMATE FOR 1st year maintenance OF AVENUE PLANTATIONS (TRIPLE ROW) along the NH-765DG

Espacement: 2.5 m x 2.5 m -No.of plants per Km: 2800 Nos (1200 plants at each side of the road and 400 plants on central median of the Road)

No.of plants for 0.36 Km: 1008 Nos (432 plants at each side of the road and 144 on central median of the Road)

Item No.	Schedule of operations with Specification	Units	Rate	Qty	Amt
02.16.	1ST YEAR MAINTAINANCE				
02.16.02ii	Replacement of casualties (10% - since watering provision is provided) including opening of pit, transportation, planting and refixing the fence.	100	3371.00	103.0	3472
02.16.01	Cost of supporting stakes of 2.5 mtr long, sturdy and straight and minimum 10 cm girth at the base (if bamboos are not supplied by Dept).	100	1736.44	103.0	1789
02.18.02	Cost and transportation of self-supporting HDPE tree gaurds (for casualties replaced)	100	20000.00	103.0	20600
02.18.04	Folding the Self supporting HDPE tree guard, fixing the bamboo stake near the center of the pit with crowbar (stake must be erected inside the crowbar hole to a depth of not less than 15 cms), putting the seedlings in the center of the pit, application of 100 gms of single superphosphate and 100 gms of chloridine dust, refilling the pits with dug-up soil, tying the plant with stake at two places, placing the HDPE tree guard in the pit before filling pit, filling the pit and forming saucer around the plant				
a	for 60 Cu.Cm with saucer of 0.50 m radius	100	3371.00	103.0	3472
02.16.04	2 Circular Weedings to a radius of 0.5 m around the plant (<i>1st in July - Aug and 2nd in Sept-Oct</i>)	100 No / Time	480.75	1038	9980
02.16.05	Pruning of lower branch initials upto 1/3 rd height (to be done in October).	100	130.48	1038	1354
02.16.06 ii	WATERING - To be done through tractor-fitted water tanker (preferably through Tender) with benchmark for survival (90%) and average incremental growth of 1.0 m by end of 1st year maintainance (i.e. 3.5 m height at the end of 1st yr. Maint. period) - irrespective of departmentally carried out or executed through contractor by tender. Minimum of 10 liter per plant with a Water Tanker - <i>Plantation-in-charge Officer along with Plantation Watcher will locate the casualty points under casualty replacement process, if any, and keep the pits ready for casualty replacement before watering, so that plants get established easily. The Plantation-in-charge Officer should record the watering operation in Watering Watch Register and M-Book on the same day of watering.</i>				
	<i>April to June - 4 waterings / month: 12 waterings</i>				
	<i>Oct. to Dec. - 2 waterings / month: 6 waterings</i>				
	<i>Jan. to March - 3 waterings / month: 9 waterings</i>				
	Total from April to March: 27 waterings				
	a) Watering the plants - Main Rows	100plants	738.12	1038	66056
02.16.08	Application of inorganic fertilizers like 200 gms of DAP per plant in the month of split doses (in the month of July and October @ 100 gm / time per plant) - <i>Fertilizer application to be done at the time of watering by making 3 holes of 10 cm depth with crow bar holes at a distance of 20 cm away from plant and putting ferilizer and closing. This work needs to be monitored by Plantation-in-charge Officer at the time of application and needs to be entered in Plantation Journal.</i>	100 / time	231.47	1038	4805
02.16.07	Cost of above inorganic fertilizers	100	500	1038	5190


Item No.	Schedule of operations with Specification	Units	Rate	Qty	Amt
02.16.09	Clearing unwanted growth to a width of 3 m on both sides parallel to the road (to be done during Nov - Dec) which will create a fireline preventing spread of ground fire from adjacent agricultural field.	1 km	1311.31	0.36	472
02.16.09	Enumeration of planted seedlings with number of plants planted and number of plants surviving, species-wise, along with average height in the Enumeration Register (to be maintained compulsorily for each site) every month.	To be done by Plantation-in-charge Officer with the help of Plantation Watcher			
02.16.11	Cost of Protection: One Plantation Watcher upto 4 km effective length and thereafter one for every 4 km for 12 months from April to March. However, Identity Photo of Watchers with address shall be pasted in respective Plantation Journal. Every month payment to Plantation Watcher be made after satisfaction by Plantation-in-charge Officer that fence is in proper condition, the casualties are located and replaced and damage to the plants from fire and cattle does not occur. The guiding principle for continuation of the services of a Plantation Watcher is at least 90% survival during 1st year maintainance period.	per month per watcher	8017.00	12	192408
02.16.11	Cycle Allowance to casual labour for Watch and Ward for 6 months	per day	5.53	12	2018
	CONTINGENCIES: Plantation Boards, buckets and other expenses (as per actuals subject to maximum of 3% of the total estimate)	As per actuals subject to maximum of 3% of the total estimate			8498
	TOTAL- 1st YEAR MAINTAINANCE- 0.36 Km				320115
	TOTAL- 1st YEAR MAINTAINANCE- 0.36 Km				320115
1 Yr	10% added on the FSR rates 2022-2023				352126
2 Yr	10% added on the FSR rates 2023-2024				387339
3 Yr	10% added on the FSR rates 2024-2025				426073
4 Yr	10% added on the FSR rates 2025-2026				468680
5 Yr	10% added on the FSR rates 2026-2027				515548
6 Yr	10% added on the FSR rates 2027-2028				567103
7 Yr	10% added on the FSR rates 2028-2029				623813
8 Yr	10% added on the FSR rates 2029-2030				686195
9 Yr	10% added on the FSR rates 2030-2031				754814
10 Yr	10% added on the FSR rates 2031-2032				830296


 District Forest Officer,
 Siddipet

**Boundary pillars requirement under Diversion of Forest Land of 1.104 Ha
for Rehabilitation and Upgradation of Medak - Siddipet - Elkaturthi of NH-
765D in Siddipet District**

Distance through R.F. 368.10 Meters

S. no.	Item	Qty	Cost	Total
1	Big pillars at an interval of 100 m from starting to ending	8	0.10000	0.800
2	small pillars at an interval of 20 m	40	0.01300	0.520
	Total	48		1.320


District Forest Officer,
Siddipet

