

Abstract of CA Scheme for diversion of 2.20 Ha of Forest Land for widening of NH 161 in Medchal-Malkagiri, District

Sl. No	Item of Work	Phy	Unit Cost 2021.22 (Rs.)	2022 - 23			2023 - 24			2024 - 25			2025 - 26			2026 - 27			2027 - 28		
				Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
IV	Planting activities (5700 Plants)																				
16	Advance Operations	Ha	134445				2.00	134445	2.68890												
17	Raising of Plantation	Ha	454891							2.00	500380	10.00760									
18	1st Year Maintenance	Ha	97756										2.00	118285	2.36570						
19	2nd Year Maintenance	Ha	15694													2.00	20888	0.41776			
20	3rd Year Maintenance	Ha	15683																2.00	22961	0.45922
21	4th Year Maintenance	Ha	13642																		
22	5th Year Maintenance	Ha	4966																		
23	6th Year Maintenance	Ha	13642																		
24	7th Year Maintenance	Ha	4966																		
25	8th Year Maintenance	Ha	13642																		
26	9th Year Maintenance	Ha	4966																		
Sub Total:						0.00000			2.68890			10.00760			2.36570			0.41776			0.45922
Forest Protection																					
27	Nursery infrastructure	Nos	500000	1	550000	5.50000															
28	Publicity boards and awareness campaigns	Nos	50000	2	55000	1.10000															
29	Chani-link fencing	km	3500000	0.60	3850000	23.10000															
30	Construction of water harvesting structures	Nos	300000	2	330000	6.60000															
Sub Total:						36.30000			0.00000												
10% Administrative cost						3.63000			0.26889			1.00076			0.23657			0.04178			0.04592
Total year wise outlay of the project						39.93000			2.95779			11.00836			2.60227			0.45954			0.50514

A. Lakshmi

Abstract of CA

Abstract of CA Scheme for diversion of 2.20 Ha of Forest Land for widening of NH 161 in Medchal-Malkgiri, District

Sl. No	Item of Work	Phy	Unit Cost 2021.22 (Rs.)	2028 - 29			2029 - 30			2030 - 31			2031 - 32			2032 - 33			2033 - 34			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	3	4	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	36	37	36	37	
IV	Planting activities (5700 Plants)																						
16	Advance Operations	Ha	134445																			2.0	2.68890
17	Raising of Plantation	Ha	454891																			2.0	10.00760
18	1st Year Maintenance	Ha	97756																			2.0	2.36570
19	2nd Year Maintenance	Ha	15694																			2.0	0.41776
20	3rd Year Maintenance	Ha	15683																			2.0	0.45922
21	4th Year Maintenance	Ha	13642	2.00	21971	0.43942																2.0	0.43942
22	5th Year Maintenance	Ha	4966				2.00	8798	0.17596													2.0	0.17596
23	6th Year Maintenance	Ha	13642							2.00	26585	0.53170										2.0	0.53170
24	7th Year Maintenance	Ha	4966										2.00	10646	0.21292							2.0	0.21292
25	8th Year Maintenance	Ha	13642													2.00	32168	0.64336				2.0	0.64336
26	9th Year Maintenance	Ha	4966																2.00	12882	0.25764	2.0	0.25764
	Sub Total:					0.43942			0.17596			0.53170			0.21292			0.64336			0.25764	2.0	18.20018
	Forest Protection																						
27	Nursery infrastructure	Nos	500000																				5.50000
28	Publicity boards and awareness campaigns	Nos	50000																				1.10000
29	Chani-link fencing	km	3500000																				23.10000
30	Construction of water harvesting structures	Nos	300000																				6.60000
	Sub Total:					0.00000			0.00000			0.00000			0.00000			0.00000			0.00000		36.30000
	10% Administrative cost					0.04394			0.01760			0.05317			0.02129			0.06434			0.02576		5.45002
	Total year wise outlay of the project					0.48336			0.19356			0.58487			0.23421			0.70770			0.28340		59.95020

A. (Signature)

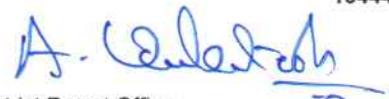
UNIT COST FOR ADVANCE OPERATIONS UNDER LI METHOD- (3m X 3m espacement) (FSR 2021-22)

Hard soils

Sl. No.	FSR item No	Nature of work	Qty	Rate	Unit		Amount
1	02.01.01	Survey with hand-held GPS (staff to carry out) and demarcation - one manday is allowed for assistance. The surveyed sketch with exact effective area statement will be uploaded in MIS platform latest by December end.	1	393.21	1	Plantation	393
2	02.01.02	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. All the above operations should be completed before December.					
		a) Spae Jungle Growth (<10% ground area covered with Jungle growth)	0.30	2185.43	1	Ha	656
		(b) Very Light Jungle Growth (>10% and upto 20% ground area covered with Jungle growth)	0.30	3284.95	1	Ha	985
		(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.	0.40	7717.50	1	Ha	3087
3	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. This operation is applicable for plantations other than Semi- Mechanical Plantation.	150.00	6.45	1	Rmt	968
4	02.01.04	Cost of preparation of stakes (0.45 m length) and transportation to the site	1111	59.81	100	Nos	664
5	02.01.05	Alignment & Stacking including demarcation of baseline					
		a) 3x3 m espacement = 1111 planting points	1111	93.82	100	Nos	1042
6	02.15.03	Digging of Pits by manual					
		b) Between January - March (Hard soils) (60cm cubic pits)	1111	63.72	1	Nos	70793
7	02.01.08	Digging of Staggered Contour Trenches (SCTs) for impounding rain water (Size: 3m Length, 0.45 m top-width, 0.30 m bottom-width and 0.45 m depth; earthwork volume per trench: 0.506 cum - Max. of 100 no. per ha.) (1x 100 x 0.506 =50.60 Cum)					
		b) Hard soils like gravel and morum	50.60	344.75	1	Cum	17444
TOTAL							96032

Add 40% allowance for GHMC limits over work component
10% escalation every year

134445


 District Forest Officer,
 Medchal-Malkagiri

UNIT COST FOR RAISING OF PLANTATION UNDER LABOUR INTENSIVE METHOD (3m X 3m espacement) (FSR 2021-22)

Hard soils							
SI No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
1	2	3	4	5	6	7	8
	PLANTATION						
	II RAISING OF BLOCK PLANTATIONS						
	02.01.	LABOUR INTENSIVE METHOD (LI METHOD)					
	02.02.	PLANTING OPERATIONS DURING RAISING YEAR					
		Cost & transportation of Redsoil 0.029 cum per plant	cum	32.219	1228.5	1	39581
		Cost of Plants including Transportation to the planting site (Tall Plants in 8" X 12" Bags)	No.	1111	180	1	199980
1	02.02.01	Transportation of Planting Stock (including loading and unloading)					
		<i>From nursery to plantation site - upto 5 Km lead</i>					
	e	20 X 30 cm (8"X12") bag plants	No.	1111	227.07	100	2523
		<i>From nursery to plantation site - Beyond 5 Km lead</i>					
2	02.02.02	<i>For every extra km beyond 5 km upto 25 km</i>					
	e	20 X 30 cm (8"X12") bag plants (20 x 8.42 =168.4)	No.	1111	168.40	100	1871
3	02.02.04	Internal transportation to planting points on head loads					
	e	20 X 30 cm (8"X12") bag plants	No.	1111	149.11	100	1657
		PLANTING: Seedlings of local species of secondary hardwood along with their associates and NTFP species will have to be chosen for planting. The minimum height of the planting stock to be planted is 0.75 m - 1m height (excluding the height of the bag)					
4	02.02.05	Application of 50 gm of SSP per pit (1 day before planting) for root growth and early establishment of plant after planting. Similarly, the bag plants to be planted are to be dipped inside Chloropyriphos solution (5 ml of Chloropyriphos in 1 lit water)	No.	1111	41.23	100	458
5	02.02.06	Cost of SSP, Chloridine dust (50 gm) or Chloropyriphos (50 g x 1111 / 1000 /50 =1.11 Bags)	Bag	1111	1.1	1	1222
	02.15.10	Cost of supporting stake of 2.5 mtr long, sturdy and straight and minimum 10 cm girth at the base (if bamboos are not supplied by Dept).	No.	1111	1736.44	100	19292
6	02.09.12 (b)	Planting in 60 cm cubic pit	No.	1111	1019.43	100	11326
7	02.02.09	Watering as per avenue plantation model - 19 waterings	No.	1111	295.25	100	78725
		Replacement of Casualties					
8	02.02.10	Replacement of Casualties: 20% during Raising Year. The casualty replacement should be done in 3 stages at an intervals of 15 days immediately after planting during raising year. 50% of unit rate of original pitting during raising year. Planting, trans					
		a) Pitting (50% of Original Rate)	Each	222	63.72	1	14146
		b) Transportation of Seedlings- up to 5Kms	No.	222	227.07	100	504
		- 5 to 25Kms	No.	222	168.40	100	374
		c) Internal transportation	No.	222	149.11	100	331
		d) Planting	No.	222	1019.43	100	2263
9	02.02.11	Cost of DAP @ 25 gm / planting point (1111 * 25 /1000/ 50 = 0.555)	Bag	0.555	1500	1	833
10	02.02.12	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 and closing. Ensure that the soil is really wet at the time of DAP application	No.	1111	41.23	100	458
11	02.02.13	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.	No.	1111	131.20	100	1458
12	02.02.14	<i>Circular weeding to a radius of 0.50 m around the plant (i.e., Aug - Sept)</i>	No.	1111	131.20	100	1458
13	02.02.15	Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec)					
		a) For Hard soil	No.	1111	689.60	100	7661
15	02.02.17	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height during October	No.	1111	130.48	100	1450
						Total	387571
		work component					168299
		Add 40% allowance for GHMC limits over work component					67320
		Total					454891

10% escalation every year

A. C. [Signature]

District Forest Officer,
Medchal-Malkagiri

**UNIT COST FOR 1st YEAR MAINTENANCE PLANTATION UNDER LABOUR INTENSIVE METHOD -
(3m X 3m espacement) (FSR 2021-22)**

SI No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
1	2	3	4	5	6	7	8
	02.03.00	1ST YEAR MAINTAINANCE -LIM					
2	02.03.01	Replacement of Casualties: 25% in 1st year (In case of Eucalyptus: no casualty replacement). The list of all casualty points shall be prepared by concerned FRO by and made a report to DFO latest by end of May. The pitting of all such casualty points shall be over by end of June. The casualty replacement shall be completed by end of July. (1111 & 25% = 278 Nos)					
		Cost of plants	No	278	180	1	50040
		a) Pitting	No	278	63.72	1	17714
		b) Transportation of Seedlings- up to 5Kms	No	278	227.07	100	631
		- 5 to 25 Kms (20 Km x 8.42)	No	278	168.40	100	468
		c) Internal transporation	No	278	149.11	100	415
		d) Planting	No	278	1019.43	100	2834
3	02.03.02	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.	100	1111	131.20	100	1458
4	02.03.03	Circular weeding to a radius of 0.50 m around the plant (i.e. Aug - Sept)	100	1111	131.20	100	1458
5	02.03.04	Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec)					
		(a) For Hard soil	100	1111	689.06	100	7655
7	02.03.06	Pruning of lower branch initials of Timber and NTFP species by sciculture upto 1/3 rd height <i>during October.</i>	100 Nos	1111	130.48	100	1450
					Total		84123
		work component					34083
		Add 40% allowance for GHMC limits over work component					13633
		Total					97756

10% escalation every year



District Forest Officer,
Medchal-Malkagiri

UNIT COST FOR 2nd YEAR MAINTENANCE UNDER LABOUR INTENSIVE METHOD
-(3m X 3m espacement) (FSR 2021-22)

SI No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
1	2	3	4	5	6	7	8
	02.04.00	2nd YEAR MAINTAINANCE -LIM					
1	02.04.01	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.	No	1111	131.20	100	1458
2	02.04.02	Circular weeding to a radius of 0.50 m around the plant (i.e. Aug - Sept)	No	1111	131.20	100	1458
		Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	Rmt	100	638.68	100	639
3	02.04.03	Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant during Nov. - Dec.					
		(a) For Hard soil	No	1111	689.06	100	7655
						Total	11210
		work component					11210
		Add 40% allowance for GHMC limits over work component					4484
		Total					15694

10% escalation every year

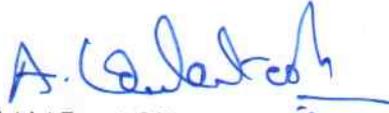
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District Forest Officer,
Medchal-Malkgagiri

3rd year maintenance Plantatation under Labour Intensive Method with 3m x 3m espacement

FSR Item No.	Description	Quantity	Rate (Rs.)	Unit area 1.00 Ha,	
				Per	Amount (Rs.)
02.04.01	1 st circular weeding to a radius of 0.50 m around the plant after 30 days of planting (i.e. July - Aug)	1111	131.20	100 Nos.,	1458
02.04.03	Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec)				
	(b) For hard gravelly soil	1111	689	100 Nos.,	7655
02.03.06	Pruning of lower branch initials of Timber and NTFP species by sciculture upto 1/3 rd height during October	1111	130.48	100 Nos.,	1450
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	638.68	100 Rmt	639
			Total		11202
	work component				11202
	Add 40% allowance for GHMC limits over work component				4481
	Total				15683

10% escalation every year


District Forest Officer,
Medchal-Malkgagiri

4th year maintenance Plantatation under Labour Intensive Method with 3m x 3m espacement

Unit area 1.00 Ha.

FSR Item No.	Description	Quantity	Rate (Rs.)	Per	Amount (Rs.)
02.04.01	1 st circular weeding to a radius of 0.50 m around the plant after 30 days of planting (i.e. July - Aug)	1111	131.20	100 Nos.,	
02.04.03	Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec)				
	(b) For hard gravelly soil	1111	689	100 Nos.,	7655
02.03.06	Pruning of lower branch initials of Timber and NTFP species by sciculture upto 1/3 rd height during October	1111	130.48	100 Nos.,	1450
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	638.68	100 Rmt	639
			Total		9744
	work component				9744
	Add 40% allowance for GHMC limits over work component				3898
	Total				13642

10% escalation every year



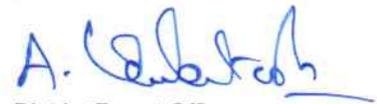
District Forest Officer,
Medchal-Malkgagiri

5th year maintenance Plantation under Labour Intensive Method with 3m x 3m espacement

Unit area 1.00 Ha,

FSR Item No.	Description	Quantity	Rate (Rs.)	Per	Amount (Rs.)
02.04.01	1 st circular weeding to a radius of 0.50 m around the plant after 30 days of planting (i.e. July - Aug)	1111	131.20	100 Nos.,	1458
02.03.06	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height during October	1111	130.48	100 Nos.,	1450
02.04.03	Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec)				
	(b) For hard gravelly soil -1 time	1111	689.06	100 Nos.,	
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	638.68	100 Rmt	639
			Total		3547
	work component				3547
	Add 40% allowance for GHMC limits over work component				1419
	Total				4966

10% escalation every year


 District Forest Officer,
 Medchal-Malkgagiri

4th year maintenance Plantation under Labour Intensive Method with 3m x 3m espacement

Unit area 1.00 Ha,

FSR Item No.	Description	Quantity	Rate (Rs.)	Per	Amount (Rs.)
02.04.01	1 st circular weeding to a radius of 0.50 m around the plant after 30 days of planting (i.e. July - Aug)	1111	131.20	100 Nos.,	
02.04.03	Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec)				
	(b) For hard gravelly soil	1111	689	100 Nos.,	7655
02.03.06	Pruning of lower branch initials of Timber and NTFP species by sciculture upto 1/3 rd height during October	1111	130.48	100 Nos.,	1450
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	638.68	100 Rmt	639
			Total		9744
	work component				9744
	Add 40% allowance for GHMC limits over work component				3898
	Total				13642

10% escalation every year



District Forest Officer,
Medchal-Malkagiri

5th year maintenance Plantation under Labour Intensive Method with 3m x 3m espacement

Unit area 1.00 Ha,

FSR Item No.	Description	Quantity	Rate (Rs.)	Per	Amount (Rs.)
02.04.01	1 st circular weeding to a radius of 0.50 m around the plant after 30 days of planting (i.e. July - Aug)	1111	131.20	100 Nos.,	1458
02.03.06	Pruning of lower branch initials of Timber and NTFP species by sciculture upto 1/3 rd height during October	1111	130.48	100 Nos.,	1450
02.04.03	Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec)				
	(b) For hard gravelly soil -1 time	1111	689.06	100 Nos.,	
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	638.68	100 Rmt	639
			Total		3547
	work component				3547
	Add 40% allowance for GHMC limits over work component				1419
	Total				4966

10% escalation every year


 District Forest Officer,
 Medchal-Malkagiri

4th year maintenance Plantation under Labour Intensive Method with 3m x 3m espacement

Unit area 1.00 Ha.

FSR Item No.	Description	Quantity	Rate (Rs.)	Per	Amount (Rs.)
02.04.01	1 st circular weeding to a radius of 0.50 m around the plant after 30 days of planting (i.e. July - Aug)	1111	131.20	100 Nos.,	
02.04.03	Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec)				
	(b) For hard gravelly soil	1111	689	100 Nos.,	7655
02.03.06	Pruning of lower branch initials of Timber and NTFP species by sciculture upto 1/3 rd height during October	1111	130.48	100 Nos.,	1450
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	638.68	100 Rmt	639
			Total		9744
	work component				9744
	Add 40% allowance for GHMC limits over work component				3898
	Total				13642

10% escalation every year



District Forest Officer,
Medchal-Malkgagiri

5th year maintenance Plantation under Labour Intensive Method with 3m x 3m espacement

Unit area 1.00 Ha,

FSR Item No.	Description	Quantity	Rate (Rs.)	Per	Amount (Rs.)
02.04.01	1 st circular weeding to a radius of 0.50 m around the plant after 30 days of planting (i.e. July - Aug)	1111	131.20	100 Nos.,	1458
02.03.06	Pruning of lower branch initials of Timber and NTFP species by sciculture upto 1/3 rd height during October	1111	130.48	100 Nos.,	1450
02.04.03	Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec)				
	(b) For hard gravelly soil -1 time	1111	689.06	100 Nos.,	
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	638.68	100 Rmt	639
			Total		3547
	work component				3547
	Add 40% allowance for GHMC limits over work component				1419
	Total				4966

10% escalation every year



District Forest Officer,
Medchal-Malkgagiri