

**GOVERNMENT OF ANDHRA PRADESH  
FOREST DEPARTMENT**

Rc.no.1558/2021/TO,  
Dated:28.08.2023

Office of the Conservator of Forests & Field Director,  
Project Tiger Circle, Nandyal.

**Sri Y.Srinivasa Reddy, IFS.,  
Chief Conservator of Forests & Field Director**

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Sub: FD -F(C) Act, 1980- Proposal for diversion of 54.00 ha. of forest land falling in Muthukur and Markapur RF, WL Division in favour of the Regional Officer, MoRTH, Vijayawada Division for Rehabilitation and up-gradation of National Highway - 565 from Km 133.922 to Km154.900 (Davupally to Mallapalem Junction) to two lanes with paved shoulders in the State of Andhra Pradesh under NHDP-IV - Revised CA Scheme is prepared for Afforestation and maintenance of 90 ha. of degraded forest instead of 110 ha. - Administration approval requested- accorded- Reg.

Ref: 1.EE, NH Division, Vijayawada Rc.No.NH 565/Revised CA land /A2/2023,  
dated 10.08.2023.  
2. DD,PT, Markapur Rc.No.1484/2017/DM, dated 18.08.2023.

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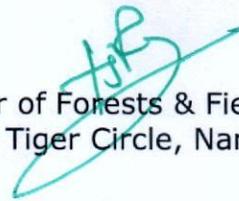
Personal attention of the Deputy Director, Project Tiger, Markapur is invited to the references cited.

It is to inform that, the Deputy Director, Project Tiger, Markapur has submitted a report in the reference 2<sup>nd</sup> cited, stating that the Executive Engineer (R&B), NH Division, Vijayawada has requested to change the degraded forest land required for Compensatory Afforestation land from 110 ha. to 90 ha. in the reference 1<sup>st</sup> cited. The change in area is due to revising the road width as per the REC. Hence the Deputy Director, Project Tiger, Markapur has prepared the revised Compensatory Afforestation Scheme proposals for the CA area identified in degraded forest land of extent 90 ha. with an outlay of Rs.961.540 lakhs and requested for administrative approval.

Therefore, the administrative approval is hereby accorded for Rs.961.540 lakhs on the responsibility of the Deputy Director, Project Tiger, Markapur.

The Deputy Director, Project Tiger, Markapur is further requested to take necessary action as per the instructions issued by the Prl. Chief Conservator of Forests and Head of Forest Force, Andhra Pradesh, Mangalagiri and GOI guidelines issued from time to time and upload the CA scheme details in PARIVESH portal.

To  
The Deputy Director,  
Project Tiger, Markapur.

  
28/08/2023  
  
Chief Conservator of Forests & Field Director (FAC)  
Project Tiger Circle, Nandyal.



**GOVERNMENT OF ANDHRA PRADESH  
FOREST DEPARTMENT**

From  
Sri. Vignesh Appavu G, I.F.S.,  
Deputy Director,  
Project Tiger, Markapur.

To  
The Chief Conservator of Forests &  
Field Director, Project Tiger Circle,  
Nandyala

**Rc.No.1484/2017/DM, Dated.22.08.2023**

Sir,

Sub:- APFD – PT, Markapur - F (C) Act 1980 - Diversion of 54.00 (presently 38.60 ) ha forest land falling in Mutukur and Markapur RF, Markapur WL Division (presently PT, Markapur Division) in favour of the Regional Officer, MoRTH, Vijayawada Division for rehabilitation and up-gradation of NH 565 from Davupalli to MallaPalem Junction(Km 133.922 to Km 154.900) to two lanes with paved shoulders the state of AP under NHDP-IV – Request for sanction of Administrative approval of revised CA Scheme – Report Submission of - Regarding.

- Ref:-
- 1) DD, PT Markapur Rc.No.1484/2017/DM Dated::20.01.2023 & 25.01.2023..
  - 2) CCF & FDPT, Srisailam Rc.No.1558/2021/TO, Dated:21.01.2023.
  - 3) DD, PT, Markapur Rc.No.1484/2017/DM Dated: 25.01.2023 & 28.02.2023.
  - 4) IGF, MoEF&CC, Gol, Vijayawada F.No.4-APA208/2023-vij//909, Dated:10.05.2023.
  - 5) DD, PT, Markapur Rc.No.1484/2017/DM Dated:13.06.2023 & 02.07.2023.
  - 6) RO, MoRT&H, Vijayawada Rc.No.RO/VJA/Misc.31a Tech.Gnrl/NH – 565/459, Dated:03.07.2023 & 24.07.2023.
  - 7) DD, PT, Markapur Rc.No.1484/2017/DM Dated:11.07.2023 & 27.07.2023.
  - 8) PCCF & HoFF, AP, Mangalagiri, Guntur Rc.No.EFS02 – 17/29/2021 – IT, Dated:07.08.2023.
  - 9) DD, PT, Markapur Rc.No.1484/2017/DM Dated:08.08.2023.
  - 10) EE, NH Division Vijayawada Rc.No.NH/User Charges / A2 /2023, Dated:08.08.2023.
  - 12) DD, PT, Markapur Rc.No.1484/2017/DM Dated:09.08.2023.
  - 13) EE, NH Division Vijayawada Rc.No.NH 565 /Revised CA Land / / A2 /2023, Dated:10.08.2023.
  - 14) DD, PT, Markapur Rc.No.148/2017/DM Dated:18.08.2023

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In continuation to this office reference 1<sup>st</sup> & 14<sup>th</sup> cited, it is to submit that the revised proposals of Compensatory Afforestation Scheme as per current FSR 2023-24 with revised financial outlay of Rs.961.540 Lakhs is enclosed herewith. The details of degraded forest land are as follows.

- 1) Bit-I: Compt No.193, Ganapavaram RF, Rentapalli Beat, Pullalacheruvu Section of Y.Palem Range, Surveyed area is 30.04 ha and effected area is 25 ha.
- 2) Bit-I: Compt No.187, ENB - XII RF, Mallepalem Beat, Y.Palem Section of Y.Palem Range, Surveyed area is 38.02 ha and effected area is 25 ha.

3) Bit-II: Compt No. 188, ENB - XII RF, Mallepalem Beat, Y.Palem Section of Y.Palem Range, Surveyed area is 22.33 ha and effected area is 20 ha.

4) Compt No.166 & 175, ENB - X RF, Komarolu Beat, Y.Palem Section of Y.Palem Range, Surveyed area is 24.64 ha and effected area is 20 ha,  
Surveyed area total – 115.03 ha.

Effected area total – 90 ha.

Sl.No	Name of the work	Funds to be deposited by the User Agency (Rs. in lakhs)
1	Afforestation & Maintenance of 90 ha degraded forest land under CA Scheme.	961.540
<b>Total Rs:</b>		<b>961.540</b>

Hence, the Chief Conservator of Forests & Field Director, Project Tiger Circle, Nandyala is requested to approve the revised CA Scheme with financial outlay Rs.961.540 Lakhs and also issue administrative sanction at the earliest for taking further course of action.  
This is submitted for favour of information and necessary action.

Encl: As above

Yours faithfully  
Sd- Vignesh Appavu.G  
Deputy Director  
Project Tiger, Markapur.

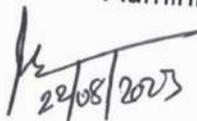
Copy submitted to the Principal Chief Conservator of Forests & Head of Forest Force, AP, Mangalgiri for favour of information.

Copy to the Forest Range Officers, Y Palem and V P South for information.

Sd- Vignesh Appavu.G,  
Deputy Director  
Project Tiger, Markapur

// T.C.B.O //

Administrative Officer

  
22/08/2023 22.8.2023



Sl. No.	Name of the work	Unit cost		2024-25		2025-26		2026-27		2027-28		2028-29		2029-30		2030-31		2031-32		2032-33		2033-34		2034-35		2035-36		2036-37		Amount	
		Per	Rate	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
	Sub-Total>				0.000		172.367		1.173		1.291		1.420		1.562		1.718		1.890		2.079		2.287		2.515		2.767		3.043		
	Sub Total of Plantation cost				18.517		243.940		111.046		54.179		47.802		49.394		24.518		8.645		9.510		10.461		11.507		12.658		3.043		616.100
III	Installation of solar Bore Well with drip irrigation	3	99,000			3	99,000																								
IV	SMC works (15% of total planting cost)		92,415				30,805																						3		99,000
V	Monitoring and Evaluation 5% of total planting cost		30,805				10,268																								92,415
VI	Administrative Cost /Over heads @ 20% of the total planting Cost) ( for wages to DEO, TM & N-TM engaged in DFOs Office, Markapur and the maintenance and upgradation of infrastructure and other contingencies)	LS	123,220		12,322		12,322		12,322		12,322		12,322		12,322		12,322		12,322		12,322		12,322		12,322		0.000		0.000		123,220
	Sub-Total>				12,322		152,395		53,395		53,395		12,322		12,322		12,322		12,322		12,322		12,322		12,322		0.000		0.000		
	Grand Total>>				30,839		396,336		164,441		107,574		60,124		61,716		36,840		20,967		21,832		22,783		11,507		12,658		3,043		345,440
																															961,540

Sd/- Vignesh Appavu G,  
Deputy Director,  
Project Tiger, Markapur

// T.C.B.O //

*N. Venkataraj*  
Administrative Officer

*[Signature]*

**Statement showing the C.A Scheme proposals over an extent of 90 Ha identified Degrdded Forest CA areas in 4 Bits at Y Palem Range**

Sl. No.	Name of the work	Quantity in Ha/Rmt/ Nos	Year	Unit Cost	Per	Amount (in Lakhs)	Remarks
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>
<b>I</b>	<b>Plantation</b>						
1	Raising of Primary beds & Raising of nursery	124875	2024-25	14.8284	Each	18.517	
2	Advance operations	90.00	2025-26	0.6207	Ha	55.865	
3	Raising of plantations	90.00	2026-27	1.0502	Ha	94.514	
4	Maintenance of Nursery (for planting & replacement Casualties in raising year)	124875	2025-26	9.3170	Each	11.635	
5	Raising of Primary beds & Raising of nursery for 1st year maint,	24975	2025-26	16.3112	Each	4.074	
6	1st year maintenance	90.00	2027-28	0.5564	Ha	50.072	
7	Maintenance of Nursery (for Casualties in 1st year maint.)	149850	2026-27	10.2490	Each	15.358	
8	Maintenance of Nursery (for Casualties in 1st year maint.)	24975	2027-28	11.2740	Each	2.816	
9	2nd year maintenance	90.00	2028-29	0.5154	Ha	46.382	
10	3rd year maintenance	90.00	2029-30	0.5315	Ha	47.832	
11	4th year maintenance	90.00	2030-31	0.2533	Ha	22.800	
12	5th year maintenance	90.00	2031-32	0.0751	Ha	6.755	
13	6th year maintenance	90.00	2032-33	0.0826	Ha	7.431	
14	7th year maintenance	90.00	2033-34	0.0908	Ha	8.175	
15	8th year maintenance	90.00	2034-35	0.0999	Ha	8.992	
16	9th year maintenance	90.00	2035-36	0.1099	Ha	9.891	
17	10th year maintenance	90.00	2036-37	0.1209	Ha	10.880	
	<b>Sub Total</b>					<b>421.989</b>	
<b>II</b>	<b>Chain Link Fencing</b>						
1	Erection of Chain link fencing around the plantation	9000		0.0192	Rmt	172.367	
2	Salvaging of old chain link for 10 years	9000		0.0024	Rmt	21.744	
	<b>Sub Total</b>					<b>194.111</b>	
	<b>Total cost of Plantation (I+II)</b>					<b>616.100</b>	
<b>III</b>	Installation of solar Bore Well with drip irrigation infrastructure	3		33		99.000	
<b>IV</b>	SMC Works (15%of the total planting Cost)	92.415		--	Ls	92.415	
	<b>Sub Total</b>					<b>92.415</b>	
<b>V</b>	Monitoring and Evaluation 5% of the total planting Cost	30.805		--	Ls	30.805	

VI	Administrative Cost /Over heads @ 20% of the total planting Cost) ( for wages to DEO, TM & N-TM engaged in DFOs Office, Markapur and the maintenance and upgradation of infrastructure and other contingencies)	123.220		--	Ls	123.220	
	<b>Grand total of Scheme</b>					<b>961.540</b>	

**Sd/- Vignesh Appavu G,  
Deputy Director,  
Project Tiger, Markapur**

// T.C.B.O //

Administrative Officer  


## DATA

UNIT - 1000 No.s

## Raising of Primary beds of Prakasam (T) Division during 2023-24

(As per FSR 2023-24)

Sl. No	Qty.	Details of work	FSR item No.	Per	Rate	Amount
(1)	(2)	(3)	(4)	(5)	(6)	(6)
		<b>Raising of Primary beds of size 1X1X0.3 m for raising Eucalyptus, Bamboo and other misc., species</b>				
1	1100 Nos.	Preparation of Old site - by clearing the site by dismantling old beds.	01-02-002	2.02	Bed/ 333 Nos.	6.67
2	1100 Nos.	Digging soil to a depth of 30 cm (as per CSSR 2011-12)	01-02-003	60.12	Bed/ 333 Nos.	198.59
3	1100 Nos.	Cost of sandy soil 50% of dugged quantity and transportation taken from private lands, with 5 kms lead loading and unloading charges by manual means (Sandy soil and FYM. in 5:1 proportion) 0.125 cum per bed (as per CSSR 2011-12)	01-02-004	49.20	Bed/ 333 Nos.	162.52
4	1100 Nos.	Cost and transport of Farm yard manure (Sandy soil and FYM. in 5:1 proportion) 0.025 cum per bed	01-02-005 & 01.03.005	1498.40	Cum	108.00
5	1100 Nos.	Preparation of soil mixture of red earth, sand and farm yard manure in 5:1 proportion and formation of bed by refilling the excavated portion of the bed and filling of bed.	01-02-006	16.80	Bed/ 333 Nos.	55.50
6	1100 Nos/ 6.30 Kgs	Cost of seed	01-02-007	As per actuals	Kg	500.00
7	1100 Nos.	Sowing of seed and covering the bed with hay including cost and conveyance to a thickness of 2.5 cm.	01-02-008	19.09	Bed/ 333 Nos.	63.06
8	1100 Nos./ 2 months	Watering the primary nursery beds with rose water cans for a maximum period of 2 months. <b>Note:</b> Watering the primary beds beyond 2 months especially in the case of North-East monsoon areas <b>(with prior permission of Circle Head)</b>	01-02-009	21.42	Bed/ 333 Nos/ month	141.51
9	1100 Nos./ 2 times	Weeding the primary beds maximum of 2 times <b>Note:</b> Weeding the primary beds more than 2 times <b>(with prior permission of Circle Head)</b>	01-02-010	3.20	Bed/ 333 Nos/ time	21.14
10	1100 Nos.	Contingencies/ Cost of Pipes,/ Nursery Board/Nursery Implements/Electricity Bill/Running and maintenance charges of oil engine (Bills to be verified and certified by the ACF/DFO) etc.	01-05-038	LS		123.00
		<b>Sub Total</b>				<b>1380.00</b>
		<b>Raising of Nursery</b>				
		<b>Raising of Bag plant nursery in Polythene bags of different sizes and arranging in beds (Bed size 10Mx1M)</b>				
11	1100 Nos.	Site preparation for old site - Clearing of growth, weeds, grass etc.	01-05-002	20.54	Bed/ 1100	20.54
		<b>Cost and transport of ingredients for Potting mixture Red Soil and Clayey Soil in 2:1 ratio as per CSSR 2011-12</b>				
12	1100 Nos.	15 cm X 30 cm (6" X 12") 2.15 cum.	01-05-005	849.39	1000	934.33
		<b>Preparation of potting mixture Red Soil and Clayey Soil in 2:1 ratio by powdering of various ingredients, sieving and mixing them in the prescribed proportion, Opening the bags and filling with potting mixture and gently pressing the same with finger tips and arranging in beds.</b>				
13	1100 Nos.	15 cm X 30 cm (6" X 12") 2.15 cum.	01-05-011	2056.63	1000	2262.29
14	1100Nos./ 10 Kgs	Cost of polythene bags	01-05-015	Tender Rate	200.00	2000.00
15	1100 Nos.	Picking out seedlings from primary beds and transplanting in bags.	01-05-016	217.81	1000	239.59

16	1100 Nos./ 5 months	Watering the plants twice a day for 10 m X 1 m size bed (2600-4"x7" bags; 1700-5"x9" bags ; 1100-6"x12" bags and 800-8"x12" bags) - 6"x12" bag plants (1100 No.s per bed)	01-05-020	503.26	Bed/ 1100/ month	2287.55
17	1100 Nos./ 2 times	Weeding only two times for 10 m X 1 m size bed (2600 -4" X 7" bags; 1700-5" X9" bags ; 1100-6"x12" bags and 800-8"x12" bags)	01-05-022	77.59	Bed/ 1100/ weeding	155.18
18	1100 Nos./ 1 time	Shifting and grading and re-arranging in beds for 10mx1m size bed (2600-4"x7" bags, 1700- 5"x9" bags and 800-8"x12" bags) only once.	01.05.024	427.94	Bed/ 1100/ shifting	389.04
19	1100 Nos.	Cost of chemicals, insecticides, pesticides etc.,	01-05-025	As per actuals		300.00
20	1100 Nos.	Cost of cow dung slurry	01-05-033	As per actuals		200.00
21	1100 Nos./ 1 time	Application of cow dung slurry at the rate of 100 ml to 250 ml. per plant depending upon the size of the plant monthly twice maximum of 3 times. (Once in raising and 2 times in maintenance) <b>Note:</b> Watering should not be done 12 hours before and after application of cow dung slurry.	01-05-034	322.36	1000/ time	293.05
22	1100 Nos./ 25 Rmt	<b>Brush wood fencing around the Nursery Site:</b> Thorny fencing with sturdy thorn material of 10 cm. girth (at the butt end) and fixing in crow bar holes and strengthening with stone packing. The average height of fence should be 1.5m and fenceing material should be fixed in 2 rows (staggered) at 30cm. apart. The fence should be tightened horizontally by tying with thorny reepers on both sides. With specific permission of DFO.	01.05.039	43.71	Rmt	1092.75
23	1100 Nos.	Contingencies/ Cost of pipes/ Nursery board/ Nursery implements/ Electricity bill/ Running and maintenance charges of oil engine (Bills to be verified and certified by the ACF/DFO) etc.	01-05-038 (12121.71)	Subject to maximum of 10% of estimate cost during raising year and 5% of the estimate cost during maint. year.		1172.00
24	1100 Nos./ 5 months	Cost of Protection. One watcher is allowed upto 100 beds nursery under all the schemes and more than 100 beds one more watcher is allowed	01-05-041	580.00		754.00
<b>Sub Total Bag nursery</b>						<b>12100.32</b>
<b>Grand Total</b>						<b>13480.32</b>

Rate for 2023-24 Rs.	13480 Per 1000 nos		
Add 10% for 2024-25	14828 Per 1000 nos		
Add 10% for 2025-26	16311 Per 1000 nos		
<b>for Raising Plantation</b>			
Rate for 2023-24	13480 Per 1000 nos		
Add 10% for 2024-25	14828 Per 1000 nos	14.828	Each seedling
<b>Add 10% for 2025-26</b>	<b>16311 Per 1000 nos</b>	<b>16.31</b>	<b>Each seedling</b>

**Sd/- Vignesh Appavu G,  
Deputy Director  
Project Tiger, Markapur**

// T.C.B.O //

*N. Venkatarani*  
Administrative Officer 18/08/2023  
*18/08/2023*

## DATA

UNIT - 1000 No.s

## MAINTENANCE OF NTHW 6"X12" BAG PLANTS NURSERY (FSR 2023-24)

Sl. No.	Qty	Item of work	FSR item no.	Rate	Per bag	Amount in Rs.
1	2	3	4	5	6	7
		<b>Maint.of bag nursery from April to July</b>				
1	1000 Nos./ 4 months	Watering the plants for 10 m X 1 m size bed (2600-4"X7" bags; 1700-5"X9" bags ; 1100-6"X12" bags and 800-8"X12" bags) <b>Note:</b> Any watering beyond July in case of South-West monsoon and beyond October in case of North-East monsoon is to be allowed ( <b>with prior permission of Circle Head</b> ).	01-05-028	503.26	Bed/ 1100/ month	1830.04
2	1000 Nos./ 4 times	Weeding maximum four times during maintenance year for 10mx1m size bed (2600-4"X7" bags; 1700-5"X9" bags; 1100-6"X12" bags and 800-8"X12" bags)	01-05-030	77.59	Bed/ 1100/ weeding	282.15
3	1000 Nos./ 2 times	Shifting and Grading and re-arranging in beds for 10 m X1 m size bed maximum two shifts (6"X12" bags-1100Nos) <b>Note:</b> More than 2 shifts is to be allowed ( <b>with prior permission of Circle Head</b> ).	01-05-032	427.94	Bed/ 1100/ shifting	778.07
4	1000 Nos./ 2 times	Cost of cow dung slurry	01-05-033	As per actuals		500.00
5	1000 Nos./ 2 times	Application of cow dung slurry at the rate of 100 ml to 250 ml. per plant depending upon the size of the plant monthly twice maximum of 3 times. (Once in raising and 2 times in maint.) <b>Note:</b> Watering should not be done 12 hours before and after application of cow dung slurry.	01-05-034	322.36	1000/ time	644.72
		<b>Maintenance of bag nursery from August onwards till disposal</b>				
6	1000 Nos./ 4 months	Watering the plants for 10mX1m size bed (2600-4"X 7" bags; 1700-5"X9" bags; 1100-6"X12" bags and 800-8"X12" bags)	01-05-035	201.32	Bed/ 1100/ month	732.00
7	1000 Nos./ 2 times	Shifting and grading and re-arranging in beds for 10 m X1 m size bed (2600-4"X7" bags; 1700-5" X9" bags ; 1100-6"X12" bags and 800-8"X12" bags) ( <b>with prior permission of Circle Head</b> ).	01-05-036	355.81	Bed/ 1100/ shifting	647.00
8	1000 Nos.	Contingencies/ Cost of pipes/ Nursery board/ Nursery implements/ Electricity bill/ Running and maintenance charges of oil engine (Bills to be verified and certified by the ACF/DFO) etc.	01-05-038	Subject to maximum of 5% of the estimate cost during maint.year		715.03
9	1000 Nos./ 25 Rmt	Maintenace of brushwood fencing	01-05-040	14.59	Rmt	365.00
10	1000 Nos./ 8 months	Cost of Protection. One watcher is allowed upto 100 beds nursery under all the schemes and more than 100 beds one more watcher is allowed	01-05-041	Wage rate fixed by the District Collector per day.		1206.00
		<b>Total :</b>				<b>7700.00</b>

**FOR NTHWS PLANTATIONS**

for 2023-24 Unit cost per 1000 Nos	7700
Add 10% for 2024-25	8470
Add 10% for 2025-26	9317 9.32
Add 10% for 2026-27	<b>10249 10.25</b> Maint.in Raising year

Sd/- Vignesh Appavu G,  
Deputy Director  
Project Tiger, Markapur

// T.C.B.O //

*N. Venkatarao*  
Administrative Officer 18/08/2023

*K. S. S. S.*  
18/08/2023

DATA

UNIT 1 Ha.

Advance Operation for 1.00 Ha. (FSR 2023-24)						
Sl. No	Qty.	Details of work	FSR item No.	Rate	Unit	Amount
(1)	(2)	(3)	(4)	(5)	(6)	(6)
<b>Advance operations (Preplanting operations)</b>						
1	1	Survey with GPS (Only staff to carry out. One manday is allowed for assistance)	02-05-001	Wage rate fixed by the District Collector per day		580
		<b>Preparation of site for planting by clearing thorny unsaleable, unusable jungle growth, creepers, bushes etc., spreading the cut material allover the site and burning the same.</b>				
2	1.00	Light Jungle growth (>20% and upto 30% ground area covered with Jungle growth)	02-05-004	8479.25	Ha	8479
3	150	Formation of sector lines/ inspection paths/ fire lines of a width of 3m by giving surface treatment (sector to be in conformity with slope direction ). All stumps to be cut to ground level. Applicable for plantations other than SMM	02-05-006	8.99	Rmt	1349
		<b>Uprootal of stumps to a depth of 45 cm (excluding unsuitable patches) with heavy machinery fitted with 0.90 cum and above capacity bucket, filling the pits caused by uprootal and leveling.</b>				
4	1.00	Light Jungle growth (>20% and upto 30% ground area covered with Jungle growth)	02-05-009	24650.94	Ha	24651
		<b>Collection and removal of uprooted stumps of all sizes, other debris etc., to outside the plantation site.</b>				
5	1.00	Light Jungle growth (>20% and upto 30% ground area covered with Jungle growth)	02-05-013	14595.85	Ha	14596
6		Contingencies				1645
<b>Total Cost</b>						<b>51300</b>

Unit cost for 2023-24                      51300  
 Add 10% for 2024-25                    56429.00 Per Ha  
 Add 10% for 2024-25                    **62072.00** Per Ha

**Sd/- Vignesh Appavu G,**  
**Deputy Director**  
**Project Tiger, Markapur**

// T.C.B.O //

*N. Venkatesh*  
 Administrative Officer 18/08/2023

*18/08/2023*

**DATA**  
**RAISING OF PLANTATIONS As per FSR 2023-24)**

**UNIT 1 Ha.**

Sl. No.	Qty.	Description of work with detailed specifications	FSR Code	Rate in Rs.	Per/ Unit	Amount
		<b>Deep ploughing the plantation area to a depth of 30 cm with heavy duty tractor of 45 HP and above across the slope with mould board plough (Untilled areas)</b>				
1	1.00	Hard /Gravelly Soils	02-05-020	8280.25	Ha	8280.25
2	1.00	Removing congestion of root suckers and other uprooted material hindering the effective ploughing (For non-tilled areas only)	02-05-024	1419.40	Ha	1419.40
		<b>Alignment &amp; Staking</b>				
3	1111	Alignment and staking including laying base line for Misc species with espacement 3mX3m (1111 Nos)	02-06-003	123.30	100 Nos	1369.86
4	1111	Cost of 0.45M Stake preparation and transportation to site.	02-06-005	80.27	100 Nos	891.80
		<b>Transport of Bag plants / Root trainer plants from nursery site to plantation site including loading and unloading upto 5 Km lead</b>				
5	1111	15X30cm (6"X12") bag plants	02-06-009	211.00	100 Nos	2344.21
		<b>Transport of Bag plants / Root trainer plants from nursery site to plantation site including loading and unloading beyond 5 Km - extra for every each Km</b>				
6	1111	15 X 30cm (6"X12") bag plants- For 45 Kms x 7.39=332.55/-	02-06-014	332.55	100 nos/ km	3694.63
		<b>Internal transport of bag plants/root trainers to planting points on head loads.</b>				
7	1111	15X30cm (6"X12") bag plants	02-06-019	135.35	100 Nos	1503.74
		<b>Digging of pits in ploughed areas</b>				
8	1111	Digging of 45 cm. cube pits	02-06-027	13.55	Each	15054.05
		<b>Application of Fertilizers</b>				
9		Cost of Chemical fertilisers (50 grm SSP for basal dressing, 20 grm DAP after planting for 30 cm <sup>3</sup> & 45 cm <sup>3</sup> pits).	02-06-031		As per actuals	
	56.00	a) Cost of SSP @ 50 Grams/Pit - 56Kgs/Ha		15.00	Kg	840.00
	22.00	a) Cost of DAP @ 20 Grams/Pit - 22 Kgs/Ha		30.00	Kg	660.00
10	1111	Application of fertilizer after planting by making 3 holes of 10 cmts depth with crow bar . 10 cmts away from plant amd putting fertilizers and closing	02-06-032	57.90	100 Nos	643.27
		<b>Planting bag plants</b>				
11	1111	45cmX45cmX45 cm pits	02-06-034	644.71	100 Nos	7162.73
12		i) Replacement of Casualities 20% during Raising & 25% in 1st year (In case of Eucalyptus 10% during raising and no casualty replacement for further maintenance) ii) In case of plantation where watering is done, the replacement of Casualities shall not be morethan 15% in the year of raising & 10% in the 1st year maintenance.	02-06-036		50% of rate of original pitting rate during raising year and 100% during maintenance years. Planting, Transportation and internal transportation as prescribed above.	
	222	a) Digging of pits	02-06-036	6.78	Each Nos	1320.00
	222	b) Transport of bag plants over 50 Km	02-06-036	543.55	100 Nos	1206.68
	222	c) Internal transport	02-06-036	135.35	100 Nos	300.48
	222	d) Planting	02-06-036	644.71	100 Nos	1431.26
		<b>Weeding &amp; Soil working</b>				
13	1111	Circular weeding cum deep soil working to a radius of 0.5 m and to a depth of 15 cm around the plant to be done with pick axes for the plants planted in pits without disturbing the soil around the plant to 10 cm wide but weeding that part of area by hand and formation of saucer in hard gravellary soils.	02-06-041	967.08	100 Nos	10744.26
		<b>Inter ploughing</b>				
14	1.00	Inter ploughing with heavy duty tractor of 45 HP to a depth of 30 cm in hard gravellary soils	02-06-045	5519.35	Ha	5519.35

15	150	Creation of sectorlines/inspection paths/ fire lines 3 mts wide around the plantation	02-06-049	8.99	Rmt	1348.50
16	1 No./ 8 months	Cost of Protection. One watcher is allowed for 20 Ha plantation. If the area is less prior approval of Circle Head is required.	02-06-053		Wage rate fixed by the District Collector per day. (580/-day)	6032.00
17		Contingencies for enumeration of survivals, fixing 10th line stones, cost of numbering with paint/ white washing, sector stones, plantation boards, journals etc.	02-06-056		As per actuals subject to maximum of 10% of estimate cost during raising year	7133.54
<b>Total cost</b>						<b>78900.00</b>

Unit cost for 2023-24 78900.00  
Add 10% for 2024-25 86790.00  
Add 10% for 2025-26 95469.00 Ha  
**Add 10% for 2026-27 105016.00 Ha**

**Sd/- Vignesh Appavu G,  
Deputy Director  
Project Tiger, Markapur**

// T.C.B.O //

*N. Venkatarani*  
Administrative Officer (8/8/2023)  
*18/08/2023*

## 1st year maintenance of 1.00 Ha. As per (FSR 2023-24)

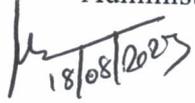
Sl. No	Qty	Details of work	FSR Item No.	Per	Unit	Rate
(1)	(2)	(3)	(4)	(5)	(6)	(6)
		<b>1st YEAR MAINTENANCE OF PLANTATIONS IN OTHER THAN SANDY SOILS:</b>				
1		i) Replacement of Casualties 20% during Raising & 25% in 1st year (In case of Eucalyptus 10% during raising and no casualty replacement for further maintenance) ii) In case of plantation where watering is done, the replacement of Casualties shall not be more than 15% in the year of raising & 10% in the 1st year maintenance.	02-06-036	50% of rate of original pitting rate during raising year and 100% during maintenance years. Planting, Transportation and internal transportation as prescribed above.		
	278	a) Digging of pits	02-06-036	13.55	Each Nos	3766.90
	278	b) Transport of bag plants over 50 Km	02-06-036	543.55	100 Nos	1511.07
	278	c) Internal transport	02-06-036	135.35	100 Nos	376.27
	278	d) Planting	02-06-036	644.71	100 Nos	1792.29
		<b>Application of Fertilizers</b>				
2		Cost of Chemical fertilisers (50 gm SSP for basal dressing, 20 gm DAP for replacement of casualties). =278*0.05= 14 Kg*15=210 278*0.020=6kg*30=180	02-07-002	As per actuals		500.00
5	278	Application of fertilizer after planting by making 3 holes of 10 cmts depth with crow bar. 10 cmts away from plant and putting fertilizers and closing	02-07-003	57.90	100 Nos	160.96
		<b>Inter ploughing</b>				
6	1.00	Inter ploughing with heavy duty tractor of 45 HP to a depth of 30 cm in hard gravellary soils	02-07-007	5519.35	Ha	5519.35
7	1111	Circular weeding cum deep soil working to a radius of 0.5 m and to a depth of 15 cm around the plant to be done with pick axes for the plants planted in pits without disturbing the soil around the plant to 10 cm wide but weeding that part of area by hand and formation of saucer in hard gravellary soils.	02-07-011	967.08	100 Nos	10744.26
8	150	Creation of Fire lines 3 mts wide	02-07-014	8.99	Rmt	1348.50
9	833	Pruning of lower foliage/ branches of NTFP species like kanuga, Neem, Usiri, Seethaphal etc., plants upto 1/3rd height.	02-07-015	183.03	100 Nos	1524.64
10	1 No./ 12 months	Cost of Protection. One watcher is allowed for 20 Ha plantation. If the area is less prior approval of Circle Head is required. Wage rate fixed by the Dist.Collector per day	02-07-017	Wage rate fixed by the District Collector, Ongole per day		9048.00

11	Contingencies for Enumeration of survivals in plantation including cost of paints, replacement of broken stones, plantation boards etc.	02-07-018	As per actuals subject to maximum of 5% of estimate cost during maint. year	1707.75
<b>Total Cost</b>				<b>38000.00</b>

Unit cost for 2023-24 38000  
 Add 10% for 2024-25 41800  
 Add 10% for 2025-26 45980  
 Add 10% for 2026-27 50578 Ha  
**Add 10% for 2027-28 55636 Ha**

**Sd/- Vignesh Appavu G,**  
**Deputy Director**  
**Project Tiger, Markapur**

// T.C.B.O //

  
 Administrative Officer (18/8/2023)  


## 2nd year maintenance of 1.0 Ha. As per (FSR 2023-24)

Sl.No	Qty	Details of work	FSR Item No.	Per	Unit	Rate
(1)	(2)	(3)	(4)	(5)	(6)	(7)
		<b>2nd YEAR MAINTENANCE OF PLANTATIONS IN OTHER THAN SANDY SOILS/SEMI MECHANICAL METHOD:</b>	<b>02-08 :</b>			
1		<b>Cost of Chemical Fertilizers</b>				
	56	a) SSP @ 50gr/Plant 56 Kg	02-08-001	15.00	1Kg	840.00
	22	b) DAP @ 20gr/Plant 22 Kg	02-08-001	30.00	1Kg	660.00
2		Application of Fertilizers	02-08-002	57.90	100 Nos	564.00
3	1111	Circular weeding cum deep soil working to a radius of 0.5 m and to a depth of 15 cm around the plant to be done with pick axes for the plants planted in pits without disturbing the soil around the plant to 10 cm wide but weeding that part of area by hand and formation of saucer in hard gravellary soils.	02-08-004	967.08	100 Nos	10744.26
		<b>Inter ploughing</b>				
4	1.00	Inter ploughing with heavy duty tractor of 45 HP to a depth of 30 cm in hard gravellary soils	02-08-008	5519.35	Ha	5519.35
6	150	Creation of sectorlines/inspection paths/ fire lines 3 mts wide around the plantation	02-08-012	8.99	Rmt	1348.50
7	1 No./ 12 months	Cost of Protection. One watcher is allowed for 20 Ha plantation. If the area is less prior approval of Circle Head is required. Wage rate fixed by the Dist.Collector per day 465*26*12/20	02-08-014	580.00		9048.00
8	1111	Pruning of lower foliage/ branches of NTFP species like kanuga, Neem, Usiri, Seethaphal etc., plants upto 1/3rd height.	02-08-015	183.03	100 Nos	2033.46
9		Contingencies for Enumeration of survivals in plantation including cost of paints, replacement of broken stones, plantation boards etc.	02-08-016		As per actuals subject to maximum of 5% of estimate cost during maint. year	1242.43
		<b>Total Cost</b>				<b>32000.00</b>

Unit Cost for 2023-24	32000	
Add 10% For 2024-25	35200	
Add 10% for 2025-26	38720	
Add 10% for 2026-27	42592	
Add 10% for 2027-28	46851	Ha
Add 10% for 2028-29	51536	Ha

**Sd/- Vignesh Appavu G,**  
**Deputy Director**  
**Project Tiger, Markapur**

// T.C.B.O //

*N. Venkatarao*  
Administrative Officer 18/08/2023  
*K. 18/08/2023*

## DATA

UNIT 1 Ha.

## 3rd year maintenance of 1.0 Ha. As per (FSR 2023-24)

Sl. No	Qty	Details of work	FSR Item No.	Per	Unit	Rate
	(1)	(2)	(3)	(4)		(5)
1	1111	Circular weeding cum deep soil working to a radius of 0.5 m and to a depth of 15 cm around the plant to be done with pick axes for the plants planted in pits without disturbing the soil around the plant to 10 cm wide but weeding that part of area by hand and formation of saucer in hard gravellary soils.	02-09-002	967.08	100 Nos	10744.26
		<b>Inter ploughing</b>				
2	1.00	Inter ploughing with heavy duty tractor of 45 HP to a depth of 30 cm in hard gravellary soils	02-09-006	5519.35	Ha	5519.35
3	150	Creation of sectorlines/inspection paths/ fire lines 3 mts wide around the plantation	02-09-008	8.99	Rmt	1348.50
4	1 No./ 12 Months	Cost of Protection. One watcher is allowed for 20 Ha plantation. If the area is less prior approval of Circle Head is required. Wage rate fixed by the Dist.Collector per day	02.09.009	580.00		9048.00
5	1111	Pruning of lower foliage/ branches of NTFP species like kanuga, Neem, Usiri, Seethaphal etc., plants upto 1/3rd height.	02-09-010	183.03	100 Nos	2033.46
6		Contingencies for Enumeration of survivals in plantation including cost of paints, replacement of broken stones, plantation boards etc.	02-09-012	As per actuals subject to maximum of 5% of estimate cost during maint. year		1306.43
		<b>Total Cost</b>				<b>30000.00</b>

Unit cost for 2023-24	30000	
Add 10% for 2024-25	33000	
Add 10% for 2025-26	36300	
Add 10% for 2026-27	39930	
Add 10% for 2027-28	43923	
Add 10% for 2028-29	48315	Ha
<b>Add 10% for 2029-30</b>	<b>53147</b>	Ha

**Sd/- Vignesh Appavu G,**  
**Deputy Director**  
**Project Tiger, Markapur**

// T.C.B.O //

*N. Venkatarao*  
Administrative Officer 18/08/2025

*18/08/2025*

## DATA

UNIT 1 Ha.

## 4th year Year Maintenance of 1.0 Ha. As per (FSR 2023-24)

Sl. No	Qty	Details of work	FSR Item No.	Rate	Per	Amount
(1)	(2)	(3)	(4)	(5)	(6)	(6)
		<b>4th YEAR YEAR MAINTENANCE OF PLANTATIONS IN OTHER THAN SANDY SOILS:</b>				
1	150	Creation of sectorlines/inspection paths/ fire lines 3 mts wide around the plantation	02-10-001	8.99	Rmt	1348.50
2	1 No./ 12Months	Cost of Protection. One watcher is allowed for 20 Ha plantation. If the area is less prior approval of Circle Head is required. Wage rate fixed by the Dist.Collector per day	02-07-017		Wage rate fixed by the District Collector per day	9048.00
3	1111	Pruning of lower foliage/ branches of NTFP species like kanuga, Neem, Usiri, Seethaphal etc., plants upto 1/3rd height.	02-10-003	183.03	100 Nos	2033.46
4		Contingencies for Enumeration of survivals in plantation including cost of paints, replacement of broken stones, plantation boards etc.	02-10-004		As per actuals subject to maximum of 5% of estimate cost during maint. year	570.04
		<b>Total Cost</b>				<b>13000.00</b>

Add 10% for 2023-24	13000	Ha
Add 10% for 2024-25	14300	Ha
Add 10% for 2025-26	15730	Ha
Add 10% for 2026-27	17303	Ha
Add 10% for 2027-28	19033	Ha
Add 10% for 2028-29	20936	Ha
Add 10% for 2029-30	23030	Ha
<b>Add 10% for 2030-31</b>	<b>25333</b>	<b>Ha</b>

Sd/- Vignesh Appavu G,  
Deputy Director  
Project Tiger, Markapur

// T.C.B.O //

*N. Venkatasubramanian*  
Administrative Officer 18/8/2023  
*[Signature]*  
18/08/2023

## DATA

UNIT 1 Ha.

5th year to 10 th Year Maintenance of 1.0 Ha. As per (FSR 2023-24)

Sl. No	Qty	Details of work	FSR Item No.	Rate	Per	Amount
(1)	(2)	(3)	(4)	(5)	(6)	(6)
		<b>5th YEAR to 10 Th YEAR MAINTENANCE OF PLANTATIONS IN OTHER THAN SANDY SOILS:</b>				
1	150	Creation of sectorlines/inspection paths/ fire lines 3 mts wide around the plantation	02-11-001	8.99	Rmt	1348.50
2	1111	Pruning of lower foliage/ branches of NTFP species like kanuga, Neem, Usiri, Seethaphal etc., plants upto 1/3rd height.	02-11-002	183.03	100 Nos	2033.46
3		Contingencies for Enumeration of survivals in plantation including cost of paints, replacement of broken stones, plantation boards etc.	02-11-003	As per actuals subject to maximum of 5% of estimate cost during maint. year		120.04
		<b>Total Cost</b>				<b>3502.00</b>

Add 10% for 2023-24	3502	Ha	
Add 10% for 2024-25	3852	Ha	
Add 10% for 2025-26	4237	Ha	
Add 10% for 2026-27	4661	Ha	
Add 10% for 2027-28	5127	Ha	
Add 10% for 2028-29	5640	Ha	
Add 10% for 2029-30	6204	Ha	
<b>Add 10% for 2030-31</b>	<b>6824</b>	Ha	
Add 10% for 2031-32	7506	Ha	5th year
Add 10% for 2032-33	8257	Ha	6th year
Add 10% for 2033-34	9083	Ha	7th year
Add 10% for 2034-35	9991	Ha	8th year
Add 10% for 2035-36	10990	Ha	9th year
Add 10% for 2035-36	12089	Ha	10th year

Sd/- Vignesh Appavu G,  
Deputy Director  
Project Tiger, Markapur

// T.C.B.O //

*N. Venkatarao*  
Administrative Officer 18/08/2025

*18/08/2025*

**DATA**  
**Maint.,of Chain Link Fencing around Degraded RF CA Area**  
**to an extent of 90 Ha (FSR 2023-24)**

Sl. No	Description of work	Qty.	FSR No.	Rate in Rs.	Per.	Amount (Rs.)
1	3	2	4	5	6	7
1	Salvaging of old chain link. (9000x1.50= 13500 Sq.mt)	13500	05-05-004	6.53	Sq.mt	88155

Add 10% for 2023-24	88155.00	<b>OR</b>
Add 10% for 2024-25	96971.00	
Add 10% for 2025-26	106668.00	
Add 10% for 2026-27	117335.00	1st year
Add 10% for 2027-28	129069.00	2nd year
Add 10% for 2028-29	141976.00	3rd year
Add 10% for 2029-30	156174.00	4th year
Add 10% for 2030-31	171791.00	5th year
Add 10% for 2031-32	188970.00	6th year
Add 10% for 2032-33	207867.00	7th year
Add 10% for 2033-34	228654.00	8th year
Add 10% for 2034-35	251519.00	9th year
Add 10% for 2035-36	276671.00	10th year
Add 10% for 2036-37	304338.00	10th year
<b>Total</b>	<b>2174364.00</b>	
	<b>241.60</b>	<b>Rmt</b>

**Sd/- Vignesh Appavu G,**  
**Deputy Director**  
**Project Tiger, Markapur**

// T.C.B.O //

*N. Venkatasubramanian*  
Administrative Officer 48781203  
*[Signature]*  
18/08/2023

**ABSTRACT ESTIMATE**

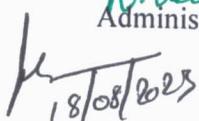
Statement showing the C.A Scheme proposals over an extent of 90 Ha identified Degrdded Forest CA areas in 4 Bits at Y Palem Range

Sl. No	Qty.	Units	Description of work	Rate	Per	Amount
1	2	3	4	5	6	7
1	329.87	Cum	Earth work excavation for foundation and depositing on bank for all lifts with an initial lead of 10m including all operational, incidental, labour charges such as shorting, sheeting, planking, strutting etc., complete for finished item of work including seigionarage excluding dewatering charges etc as per SS -20b (APSS 308)	231.59	Cum	76396
2	329.87	Cum	Plain Cement concrete (M 15) Nominal Mix using 20mm grades metal including cost of mixing, laying, cost and conveyance of all labour and materials at site of work complete	7978.26	Cum	2631810
3	9000	Rmt	Providing 1.50 metre high fencing with angle iron posts 50 mm x 50 mm x 6 mm at 3 metre center to center with 0.45 metre embedded in M15 grade cement concrete, corner, end and every 10th post to be strutted, provided with Hot Dipped Galvanised Chain Link Mesh 8 Gauge (4mm) as per IS 2721-1979 3" X 3" mesh or 75 mm x 75 mm mesh and fixed to iron posts by flat iron 50 x 5 mm and bolts etc. up to 1.50mts a complete in all respects. (MORTH Suggestive )	1162.18	Rmt	10459629
			<b>Sub total</b>			<b>13167835</b>
			GST @ 18% of estimate cost			2370210
			Labour Cess @ 1% of estimate cost			131678
			Contingencies			34
			<b>Total cost</b>			<b>15669758</b>

Unit cost for 2023-24      15669758  
Add 10% for 2024-25      17236733  
**Rate per 1 Rmt      1915.19      Rmt**

**Sd/- Vignesh Appavu G,  
Deputy Director  
Project Tiger, Markapur**

// T.C.B.O //

  
Administrative Officer 18/08/2023  


**DETAILED ESTIMATE**

**Estimate for erection of Chain link fencing about 11200 Rmt length and 1.50Mts height around the 110 Ha identified Degrded Forest CA areas in 4 Bits Y.Plame Range of DD, Markapur in lie of diverison of 38.60 Ha of Forest Land in D.D Markapur for upgradation of NH 565**

Sl. No	Description of work	Nos	Measurements			Quantity	
			L	B	D		
1	2	3	4	5	6	7	
1	Earth work excavation for foundation and depositing on bank for all lifts with an initial lead of 10m including all operational, incidental, labour charges such as shorting, sheeting, planking, strutting etc., complete for finished item of work including seigionarage excluding dewatering charges etc as per SS -20b (APSS 308)						
	For a Length of =11200 RMT as per sketch	9000					
	For Fencing Angels @ Every 3mtr Intravals	3000	0.45	0.45	0.45	<b>273.38</b>	
	Support Angels@ Every 10th Angle (3000/10x2=600)	600	0.45	0.45	0.45	<b>54.68</b>	
	Support Angulars in corners(5*4Corners i.e.,20 Angulars)	20	0.45	0.45	0.45	<b>1.82</b>	
	<b>Total Qty</b>					<b>329.87</b>	<b>Cum</b>
2	Plain Cement concrete (M 15) Nominal Mix using 20mm grades metal including cost of mixing, laying, cost and conveyance of all labour and materials at site of work complete						
	For a Length of = 11200RMT as per sketch						
	For Fencing Angels @ Every 3mtr Intravals	3000	0.45	0.45	0.45	<b>273.38</b>	
	Support Angels @ Every 10th Angle	600	0.45	0.45	0.45	<b>54.68</b>	
	Support Angulars in corners (5*4 Corners i.e.,20Angulars)	20	0.45	0.45	0.45	<b>1.82</b>	
	<b>Total Qty</b>					<b>329.87</b>	<b>Cum</b>
3	Providing 1.50 metre high fencing (with angle iron posts 50 mm x 50 mm x 6 mm at 3 metre center to center with 0.60 metre embedded in M15 grade cement concrete, corner, end and every 10th post to be strutted, provided with Hot Dipped Galvanised Chain Link Mesh 8 Gauge (4mm) as per IS 2721-1979 3" X 3" mesh or 75 mm x 75 mm mesh and fixed to iron posts by flat iron 50 x 5 mm and bolts etc. up to 1.50mts complete in all respects(MORTH Suggestive)	1	9000	-	-	<b>9000</b>	<b>Rmt</b>

**Sd/- Vignesh Appavu G,  
Deputy Director  
Project Tiger, Markapur**

// T.C.B.O //

*N. Venkataiah*  
Administrative Officer 18/8/2023  
*18/8/2023*

**DATA SHEET -SSR 2022-23.**

Item Code	Description of Item	Per	Unit	Rate	Amount
BLDCSTN-2-1	Excavation for Structures				
	Earth work excavation for foundation and depositing on bank for all lifts with an initial lead of 10m including all operational, incidental, labour charges such as shorting, sheeting, planking, strutting etc., complete for finished item of work including seigniorage excluding dewatering charges etc as per SS -20b (APSS 308)				
	Ordinary soil				
	Manual Means Upto 3 m depth				
	Unit = cum				
	Taking output = 10 cum				
	a) Labour				
	Mate	day	-		
	Mazdoor (Unskilled)	day	3.64	560.00	2038.40
	b&c) Overheads & Contractors Profit @ 13.615%				277.53
	Cost for 10 cum = a+b+c				2315.93
	Rate per cum = (a+b+c)/10				<b>231.59</b>
BLD-CSTN-3-12	Plain Cement concrete (M 15) Nominal Mix using 20mm grades metal including cost of mixing, laying, cost and conveyance of all labour and materials at site of work complete				
	using 20mm metal using concrete mixer				
	Unit : 1cum				
	A. MATERIALS:				
	Cement	Kg	275.00	4.30	1182.23
BLD-CSTN-3-12	Coarse aggregate 20mm	cum	0.90	2915.80	2624.22
	Fine aggregate (Sand)	cum	0.48	3247.60	1558.85
	Water (including for curing) (Urbun)	kl	1.20	99.00	118.80
	B. MACHINERY				0.00
	Concrete Mixer 10/7cft(0.2/0.8 Cum) capacity	hour	1.00	692.70	692.70
	C. LABOUR:				0.00
	Mason 1 <sup>st</sup> class	day	0.10	670.00	67.00
	Mazdoor (unskilled)	day	1.39	560.00	778.40
	<b>Sub total</b>				<b>7022.19</b>
	Overheads & Contractors Profit @ 13.615%				956.07
<b>Grand Total</b>				<b>7978.26</b>	
RBR-TSRA-7	Painting on Steel Surfaces				
	Providing and applying two coats of ready mix Enamel paint including primer coat of approved brand on steel surface after through cleaning of surface to give an even shade as per drawing and Technical Specification Clause 1701MORD				
	Unit = sqm				
	Taking output = 10 sqm				
	a) Labour				
	Painter CL-1	day	0.00	750.00	0.00
	Painter (2nd Class)	day	0.60	605.00	363.00
	Mazdoor (Unskilled)	day	0.40	560.00	224.00
	b) Material				
	Red-oxide Primer as per specifications (Item No. BMT-J.03)	litre	0.60	160.00	96.00
	Paint ready mixed approved brand (Item No. BMT-J.30 )	litre	1.25	191.00	238.75
	<b>Sub total</b>				<b>921.75</b>
	Overheads & Contractors Profit @ 13.615%				125.50
Cost for 10 sqm = a+b+c+d				<b>1047.25</b>	
<b>Rate per sqm = (a+b+c+d)/10</b>				<b>104.725</b>	

Item Code	Description of Item	Per	Unit	Rate	Amount
RBR-TSRA-17	Fencing With Hot Dipped Galvanised Iron Chain Link Mesh				
	Providing 1.50 metre high fencing with angle iron posts 50 mm x 50 mm x 6 mm at 3 metre center to center with 0.45 metre embedded in M15 grade cement concrete, corner, end and every 10th post to be strutted, provided with Hot Dipped Galvanised Chain Link Mesh 8 Gauge (4mm) as per IS 2721-1979 3" X 3" mesh or 75 mm x 75 mm mesh and fixed to iron posts by flat iron 50 x 5 mm complete in all respects. (MORTH Suggestive )				
RBR-TSRA-17	Unit = Running metre				
	Taking output = 30 m				
	a) Labour				
	Mate	day	-		
	Welder	day	1.00	630.00	630.00
	Mazdoor	day	2.12	560.00	1187.20
	b) Material				
	i) Angle iron for posts 50 x 50 x 6 mm (Proportionate weight for 1.50Mts).	kg	105.40	62.08	6543.13
	ii) Runner flat 50 x 5 mm (Proportionate weight for 1.50Mts).	kg	29.97	62.08	1860.51
	iii) Hot Dipped Galvanised Chain Link Mesh 8 Gauge (4mm) as per IS 2721-1979 3" X 3" mesh 8 gauge or 75 mm x 75 mm mesh (30 mtrX1.5 Mtr) (Item No. BMT-F.22,)	Sqm	45.00	421.00	18945.00
	Add 2.5 percent of cost of material for drilling holes in angles, flats, splitting angle at bottom, nuts and bolts and welded consumables			27348.63	683.72
	d) Painting				
	Painting two coats including priming	sqm	8.00	104.72	837.80
	<b>Sub total</b>				30687.35
	Overheads & Contractors Profit @ 13.615%				4178.08
Cost for 30 metre = a+b+c+d+e+f				<b>34865.43</b>	
<b>Rate per metre = (a+b+c+d+e+f)/30</b>				<b>1162.18</b>	

Sd/- Vignesh Appavu G,  
Deputy Director  
Project Tiger, Markapur

// T.C.B.O //

*N. Venkatarao*  
Administrative Officer 18/08/2023

*18/08/2023*

**LEAD STATEMENT- 2022-23.**

Sl. No.	Description	SOR Item Code	Source of Material	Lead in KM	Initial Cost (Excluding Seigniorage Charges)	Conveyance Charges (Excluding Stacking Charges)	Deduct 1Km lead	Total Conveyance	Conveyance After Deduct Overheads & Contractor Profit @ 13.615% (10-13.615%)	Add Seigniorage	Total (6+11+12)	Unit Per
1	2	3	4	5	6	7	8	10	11	12	13	
1	Cost of Cement Memo no.146/T4/AE/Cement/ 2022, dt.21.11.2022 of ENC, PH, Guntur	GO	At site	10	4220.00	101.30	21.70	79.60	0	0	4299.60	1 MT
2	Cost of Sand (Unscreened) G.o.Rt.No.125 (Water Resources (WRG-GRC) Dept, dt: 29.12.2016	GO	Amaravati	200	605.00	2579.90	37.30	2542.60	0.00	100.00	3247.60	1 Cum
3	Cost of 20 mm Metal	M-53	Chimakurti	127	1242.00	1619.70	35.90	1583.80	0.00	90.00	2915.80	1 Cum
4	Cost of Anglers & Flats Memo no.146/T4/AE/Cement/2022, dt.24.11.2022 of ENC, PH, Guntur	GO	Local	At site	62000.00	101.30	21.70	79.60	0	0	62079.60	1 MT

Sd/- Vignesh Appavu G,  
Deputy Director,  
Project Tiger Markapur

*N. Venkata Prasad*  
Administrative Officer 18/8/2023

*K. S. S. S.*  
18/8/2023

// T.C.B.O //