

**GOVERNMENT OF ANDHRA PRADESH
FOREST DEPARTMENT**

Rc.no.3020/2019-TO,
Dated. 16-05-2022.

O/o The Conservator of Forests,
Guntur Circle, Guntur.

Sri Y. Srinivasa Reddy, IFS.,
Chief Conservator of Forests,
Guntur Circle, Guntur.

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Sub: APFD - F(C) Act, 1980 - Diversion of 4.41ha. of forest land in compartment no.125 of Chaganam RF, Venkatagiri Range, Nellore Division for extraction of Quartz & Feldspar in favour of M/s Chettinad Morimura Semiconductor Pvt. Limited - Non- forest land identified for raising of CA at Giddalur division- CA Scheme proposals submitted by the DFO, Giddalur for administration approval- Administration approval accorded-Reg.

- Ref: 1. Prl.CCF, AP, Guntur Rc.no.EFS02-15029/57/2018-FCASEC-PCCF/
FCA-2, dt.02.11.2019.
2. Prl.CCF, AP, Guntur Rc.no.EFS02-15029/57/2018-FCASEC-PCCF/
FCA-3(i), Dt.26.11.2021.
3. DFO, Giddalur Rc.no.3377/2019-TA, dt.09.05.2022.

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Attention of the Divisional Forest Officer, Giddalur is drawn to the references cited above. He is informed that the CA Scheme prepared for Afforestation over an extent of 3.75ha., Non-Forest CA land (actual CA land to an extent of 4.65ha.) identified in Sy.no.723/1, Bollupalli village, Ardhavedu Mandal, Turimella Range of Giddalur Division in lieu of the proposals for diversion of 4.41ha. of forest land in compartment no.125 of Chaganam RF, Venkatagiri Range, Nellore Division for extraction of Quartz & Feldspar in favour of M/s Chettinad Morimura Semiconductor Pvt., Limited submitted in the reference 3rd cited duly adopting the rates of FSR-2022-23 of Guntur Circle is hereby approved for Rs.48.50 Lakhs on the personal responsibility of the Divisional Forest Officer, Giddalur and subject to the revision of rates in future at the time of raising demand to the user agency and he is instructed to upload information pertaining to Part-II of proposal in the Ministry's web site "PARIVESH" portal as per the instructions issued in the ref. 2nd cited.

Encl. Abstract.

To
The Divisional Forest Officer, Giddalur.

Chief Conservator of Forests,
Guntur Circle, Guntur.

Copy to the Divisional Forest Officer, Nellore for information and necessary action.

C.A. SCHEME FOR CA AREA IN AN EXTENT OF 3.75 HA IN TURIMELLA RANGE OF GIDDALUR DIVISION IN LIEU OF DIVERSION OF 4.41 HA OF FOREST LAND FOR EXTRACTION OF QUARTZ AND FELDSPAR IN VENKATAGIRI RANGE NELLORE DIVISION IN FAVOUR OF M/S CHETTINAD MORIMURA SEMICONDUCTOR MATERIAL (PVT) LTD.

Name of the Scheme: **Non-Forest C.A** (Grant of Quarry Lease for extraction of Quartz & Feldspar in favour of M/s Chettinad Morimura Semiconductor Material (Pvt) Ltd in lieu of Diversion of 4.41 Ha of Forest Land in Chaganam RF, Venkatagiri Range, Nellore Division.

1. Introduction: Compensatory Afforestation is one of the important conditions stipulated by the Central Government. It is essential that a comprehensive scheme for Compensatory Afforestation is to be formulated for Diversion of Forest land for Non-Forestry purposes. Compensatory Afforestation shall be done over an equivalent area of non forest land or where non-forest lands are not available or non-forest land is available in less extent to the forest area being diverted, compensatory afforestation may be carried out over non-forest land for Compensatory Afforestation is provided by the User Agency.

The C.A scheme is prepared with current wage rate i.e., FSR-2022-23 of Guntur Circle to the extent of 3.75 Ha of Non-Forest area is identified at Sy.No.723/1 of Bollupalli Village, Ardhaveedu Mandal of Turimella Range for raising of CA in lieu of diversion of 4.41 Ha of Forest Land in Chaganam RF, Venkatagiri Range of Nellore Division for grant of Quarry lease for Quartz and Feldspar in favour of M/s Chettinad Morimura Semiconductor Material (Pvt), Limited.

Sl. No	Village/ Mandal/ District	Sy. No	Extent in Acres	Extent in Acres as per DGPS Survey	Area proposed for CA as per Authentication in Ha	Remarks
1	Bollupalli/ Ardhaveedu Mandal/ Prakasam District	723/1	11.50	11.51	4.66	CA Scheme prepared for 3.75 Ha
	Total		11.50	11.51	4.66	

The said area were inspected by the Forest Range Officer, Turimella and certified that the above Non- Forest land is suitable for Afforestation purposes.

2. Implementing Agency: The Divisional Forest Officer (T), Giddalur and Forest Range Officer, Turimella will be the implementing agency.

3. Technique of planting: The afforestation will be done in a span of 12 years

Treatment Year -1: Survey and Demarcation, Site preparation, Advance Operations, Raising of Nursery and construction of RCC Pillars.

Treatment year-2: Raising of SMM Plantations, Erection of Chain link fencing around the Plantation, Maintenance of Nursery and Raising of Nursery for 1st Year maintenance of Plantations.

Treatment Year-3: 1st Year Maintenance of SMM plantations Maintenance of Nursery and Raising of Nursery for 2nd Year maintenance of Plantations.

Treatment Year-4: 2nd Year Maintenance of SMM plantations and Maintenance of Nursery.

Treatment Year-5: 3rd Year Maintenance of SMM plantations.

Treatment Year-6: 4th Year Maintenance of SMM plantations.

Treatment Year-7: 5th Year Maintenance of SMM plantations.

Treatment Year-8: 6th Year Maintenance of SMM plantations.

Treatment Year-9: 7th Year Maintenance of SMM plantations.

Treatment Year-10: 8th Year Maintenance of SMM plantations.

Treatment Year-11: 9th Year Maintenance of SMM plantations.

Treatment Year-12: 10th Year Maintenance of SMM plantations.

Site preparation includes clear felling of existing shrubs heaping and burning debris and uprootal stumps etc.,

Raising of Plantation will be done by deep ploughing the area with heavy duty tractor to a depth of 30 cms after clear felling and up-rootal and before planting, digging of 45 cms cube pits for miscellaneous seedlings followed by one inter ploughing and one soil working after planting provision is made for replacement of 20% casualties during the year of raising.

1st Year Maintenance of Plantation includes replacements of 25% casualties; Two inter ploughings and one circular weeding cum deep soil work.

2nd Yea Maintenance of plantation includes Two inter ploughings and one Circular weeding cum deep soil work.

3rd Year Maintenance of plantation includes one inter ploughings and one Circular weeding cum deep soil work.

4th Year Maintenance of plantation includes one inter ploughings and one Circular weeding cum deep soil work.

5th Year Maintenance of plantation.

6th Year Maintenance of plantation.

7th Year Maintenance of plantation.

8th Year Maintenance of plantation.

9th Year Maintenance of plantation.

10th Year Maintenance of plantation.

Provision is made for watch and ward of the plantation with one watcher for upto 20 Ha. If less area prior approval of CF is required. Hence one watcher is proposed on wages, starting from the month of planting to the end of 4th year maintenance for better protecting the plantations as per FSR-2022-23 of Guntur Circle.

Provision is also made for formation, maintenance of inspection paths and fire tracing operations.

4. Species and Espacement: The total area will be planted with Misc., seedlings like Chintha, Nemalinara, Vepa and Yepi species etc., @ 3x3 Espacement i.e., 1111 plants per Ha.

5. SMC works: It is proposed to carryout SMC works like for digging of CCTs, CPTs and PTs in plantations and Semi lunar trenches around the plants about 25% of the afforestation cost.

6. Chain Link Fencing around the CA Area: In the said CA proposals provision is made for Chain Link Fencing around the proposed CA area.

7. Monitoring and Evaluation: Provision is made in the scheme @ 5% of the afforestation cost towards cost of M. Books, Plantation journals, Cash books,

Development of new central nursery site, purchase of nursery equipments and construction of shed for nursery watcher etc., at Turimella Range and etc.,

8. Administration cost: Provision is made in the scheme @ 10% of the afforestation cost towards Engaging of Data Entry Operator, Non Technical Maistry for Turimella Range & Division Offices and other miscellaneous items like, cost of Stationery, Computers & Fax Machines etc.,

9. Cost of the Project: The total cost of the Project will be **Rs.48.500 lakhs** as per the details given in the Abstract statement enclosed.


Divisional Forests Officer,
Giddalur.

Full Title of the Project:-

Diversion of forest land to an extent of 4.41 Ha in Nellore Division for Extraction of Quartz and Feldspar in Chaganam RF, Venkatagiri Range of Nellore Division in favour of M/s Chettinad Morimura Semiconductor Material (Pvt), Limited - Non forest area identified in Giddalur (T) Division for raising of Compensatory Afforestation - Reg.

335

File No.: PCCF, Guntur Rc.No.EFS02/15029/57/2018/FCA SEC-PCCF/FCA-3(i),
Date of Instructions: 26.12.2021.

"SCHEME FOR COMPENSATORY AFFORESTATION"

Detailed scheme for Compensatory Afforestation to be carried out in identified Non-Forest land CA an extent of 3.75 Ha in Giddalur (T) Division and it is an Non-Forest Land in lieu of 4.41 Ha. of Forest area to be Diverted in Chaganam RF, Venkatagiri Range, Nellore Division in favour of M/s Chettinad Morimura Semiconductor Material (Pvt), Limited.

1. Details of Non- forest land:-

Sl. No	Name of the individual	Village/ Mandal/ District	Sy.No.	Extent in Acres	Extent in Ha as per DGPS Survey	Required of land proposed by user agency towards CA land as per authentication (Ha.)
1	M/s Chettinad Morimura Semiconduct or Material (Pvt) Ltd.	Bollupalli/ Ardhaveedu Mandal/ Prakasam District	723/1	11.50	11.51	4.66
		Total:		11.50 Acres or 4.65 Ha	11.51 Acres or 4.65 Ha	4.66 Ha

CA Scheme prepared for 3.75 Ha

a	Name of Forest Division	Giddalur (T) Division
b	Range	Turimella
c	Block/Compartment/Survey No	Sy.No.723/1 of Bollupalli Village, Ardhaveedu Mandal, Prakasam District Area to be afforested: 375 Ha it is an enclosure of ENB-III RF.
2	Description of Area	
I	whether the site selected for Compensatory Afforestation is a land bank or not	No
II	If the CA site is other than the land bank, reasons be given	Non Forest Land

III	In case of non forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary	The above CA area is an enclosure of ENB-III RF
IV	Soil type	Red Loamy
V	Topography:	
	(a) Hilly/Undulating/Plain	Plain
	(b) Slope: Steep/Medium/Gentle:	Gentle
VI	Whether the area is bearing any root stock of vegetation	Covered by small trees and bushes
3	Plantation Model:-	
	Copy of the approved Compensatory Afforestation Scheme/Model showing component wise physical and financial break up to be enclosed	Enclosed

4. Schedule of Plantation Programme:-

1. Detail of year wise break up of requirements of funds is as under:-

Sl. No.	Name of the work	Quantity in Ha/ Rmt	Unit Cost	Amount (in Lakhs)
I	Plantations			
1	Advance operations	3.75 Ha	0.620	2.325
2	Raising of Nursery for Planting	5000 Nos	13.22	0.661
3	Raising of plantations	3.75 Ha	1.300	4.875
4	Maintenance of Nursery	5000 Nos	8.261	0.413
5	Raising of Nursery for 1 st Year Maint	1100 Nos	14.543	0.160
6	1st year maintenance	3.75 Ha	0.530	1.988
7	Maintenance of Nursery	1100 Nos	9.087	0.100
8	Raising of Nursery for 2nd Year Maint	1100 Nos	15.997	0.176
9	2nd year maintenance	3.75 Ha	0.600	2.250
10	Maintenance of Nursery	1100 Nos	9.995	0.110
11	3rd year maintenance	3.75 Ha	0.415	1.556
12	4th year maintenance	3.75 Ha	0.190	0.713
13	5th year maintenance	3.75 Ha	0.065	0.244
14	6th year maintenance	3.75 Ha	0.072	0.270
15	7th year maintenance	3.75 Ha	0.079	0.296
16	8th year maintenance	3.75 Ha	0.087	0.326
17	9th year maintenance	3.75 Ha	0.095	0.356
18	10th year maintenance	3.75 Ha	0.105	0.394
	Sub Total			17.212
II	Chain Link Fencing around the CA area			
1	Erection of Chain Link fencing around the CA Plantation	875 Rmt	0.0176	15.418
2	Salvaging of old Chain link for 10 Years	1313 Sqmt	--	1.659
	Sub Total			17.077
	Sub Total (Plantation cost)			34.289

Sl. No.	Name of the work	Quantity in Ha/ Rmt	Unit Cost	Amount (in Lakhs)
III	SMC Works (25% of the total planting Cost)		--	8.572
IV	Monitoring & Evaluation 5% of the total planting Cost		--	1.714
V	Administrative Cost @ 10% of the total planting Cost)		--	3.429
	For Rounded			0.495
	Grand Total:			48.500

5. Technical details:-

Technical details of Compensatory Afforestation Scheme are as follows:-

a)	General Details:	The afforestation and maintenance will be done in a span of 12 years 2023-24 to 2034-35 with implementing agency of DFO (T), Giddalur.
b)	Spacing	3 Mts x 3 Mts
c)	Species	Miscellaneous/NTSH
d)	Plantation Method	SMM (Semi Mechanical Method)
e)	Protection (Fencing, Watch man, People's Participation etc.):	As the CA area is an enclosure of ENB-III RF, hence Chain link fencing was proposed.
f)	Proposed Monitoring Mechanism	--
h)	Any other information	<p>The proposed Non-Forest area identified in Giddalur (T) Division to an extent of 4.66 Ha and CA Scheme is prepared for 3.75 Ha is suitable for Compensatory Afforestation with an outlay of Rs.48.500 lakhs which is situated in above mentioned table, Turimella Range of Giddalur (T) Division.</p> <p>Hence proposed Non-Forest land for CA may be accepted.</p>


Divisional Forests Officer,
Giddalur.

Statement Showing the C.A Scheme Proposals over an extent of 3.75 Ha in Sy.No.723/1 of Bollupalli (Village), Ardhavedu (Mandal), Prakasam (District), Turinella Range of Giddalur Division in lieu of Diversion of 4.41 Ha of Forest land for extraction of Quartz and Feldspar in Chaganam RF, Venkatagiri Range, Nellore Division in favour of M/s. Chettinad Morimura Semiconductor Material (Pvt), Limited.

(Rs.in Lakhs)

Sl. No	Name of the work	Unit cost		2023-24		2024-25		2025-26		2026-27		2027-28		2028-29		2029-30		2030-31		2031-32		2032-33		2033-34		2034-35		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		
I	Plantations (SMM Method)																												
1	Advance operations (3.75 Ha)	1 Ha	0.620	3.750	2.325																						3.75	2.325	
2	Raising of Nursery	Nos	13.22	5000	0.661																						5000	0.661	
3	Raising of plantations	1 Ha	1.300			3.750	4.875																				3.75	4.875	
4	Maintenance of Nursery	Nos	8.261			5000	0.413																				5000	0.413	
5	Raising of Nursery for 1st year maint	Nos	14.543			1100	0.160																				1100	0.160	
6	1st year maintenance	1 Ha	0.530					3.750	1.988																			3.750	1.988
7	Maintenance of Nursery	Nos	9.087					1100	0.100																			1100	0.100
8	Raising of Nursery for 2nd year maint	Nos	15.997					1100	0.176																			1100	0.176
9	2nd year maintenance	1 Ha	0.600							3.750	2.250																	3.750	2.250
10	Maintenance of Nursery	Nos	9.995							1100	0.110																	1100	0.110
11	3rd year maintenance	1 Ha	0.415									3.750	1.556															3.750	1.556
12	4th year maintenance	1 Ha	0.190											3.750	0.713													3.750	0.713
13	5th year maintenance	1 Ha	0.065													3.750	0.241											3.750	0.244
14	6th year maintenance	1 Ha	0.072															3.750	0.270									3.750	0.270
15	7th year maintenance	1 Ha	0.079																	3.750	0.296							3.750	0.296
16	8th year maintenance	1 Ha	0.087																			3.750	0.326					3.750	0.326
17	9th year maintenance	1 Ha	0.095																					3.750	0.356			3.750	0.356
18	10th year maintenance	1 Ha	0.105																							3.750	0.394	3.750	0.394
	Sub-Total>				2.986		5.448		2.263		2.360		1.556		0.713		0.241		0.270		0.296		0.326		0.356		0.394		17.212

341

Sl. No	Name of the work	Unit cost		2023-24		2024-25		2025-26		2026-27		2027-28		2028-29		2029-30		2030-31		2031-32		2032-33		2033-34		2034-35		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			
II	Chain Link Fencing																													
1	Erection of Chain Link fencing around the CA Plantation	1 Rmt	0.0176		0.000	875	15.418																				875 Rmt	15.418		
2	Salvaging of old Chain ling for 10 Years	1313 Sqmt	0.0000		0.000			0.104				0.126			0.139			0.152		0.168		0.184		0.203		0.223		0.245	1313 Sqmt	1.659
	Sub-Total>				0.000		15.418	0.104		0.115		0.126		0.139		0.152		0.168		0.184		0.203		0.223		0.245		0.269	17.077	
	Sub Total of Plantation cost				2.986		20.866	2.367		2.475		1.682		0.852		0.395		0.438		0.480		0.529		0.579		0.639			34.289	
III	SMC works																													
1	SMC Works (25% of the total planting Cost)	LS	8.572				0.779	0.779		0.779		0.779		0.779		0.779		0.779		0.779		0.779		0.779		0.779			8.572	
	Sub-Total>		8.572		0.000		0.779	0.779		0.779		0.779		0.779		0.779		0.779		0.779		0.779		0.779		0.779			8.572	
IV	Monitoring and Evaluation 5% of the total planting Cost	LS	1.714				0.156	0.156		0.156		0.156		0.156		0.156		0.156		0.156		0.156		0.156		0.156			1.714	
	Sub-Total>				0.000		0.156	0.156		0.156		0.156		0.156		0.156		0.156		0.156		0.156		0.156		0.156			1.714	
V	Administrative Cost @ 10% of the total planting Cost (Wages to NTM & DEO in Turimella Range Office and Division Office, Giddalur	LS	3.429		0.000		0.312	0.312		0.312		0.312		0.312		0.312		0.312		0.312		0.312		0.312		0.312			3.429	
	For Rounded				0.495		0.000																						0.495	
	Sub-Total>				0.495		0.312	0.312		0.312		0.312		0.312		0.312		0.312		0.312		0.312		0.312		0.312			3.924	
	Grand Total>>				3.481		22.112	3.614		3.722		2.929		2.098		1.643		1.685		1.727		1.776		1.826		1.886			48.500	

Divisional Forest Officer
Giddalur

3A-3

345

Statement Showing the C.A Scheme Proposals over an extent of 3.75 Ha in Sy.No.723/1 of Bollupalli (Village), Ardhaveedu (Mandal), Prakasam (District), Turimella Range of Giddalur Division in lieu of Diversion of 4.41 Ha of Forest land for extraction of Quartz and Feldspar in Compt.No.125, Chaganam RF, Venkatagiri Range, Nellore Division in favour of M/s. Chettinad Morimura Semiconductor Material (Pvt), Limited.

SL No.	Name of the work	Year	Quantity in Ha/ Rmt	Unit Cost	Per	Amount (in Lakhs)	Remarks
I	Plantations						
1	Advance operations	2023-24	3.75	0.620	Ha	2.325	
2	Raising of Nursery	2023-24	5000	13.221	Each seedling	0.661	
3	Raising of plantations	2024-25	3.75	1.300	Ha	4.875	
4	Maintenance of Nursery	2024-25	5000	8.261	Each seedling	0.413	
6	Raising of Nursery for 1st year maint	2024-25	1100	14.543	Each seedling	0.160	
5	1st year maintenance	2025-26	3.75	0.530	Ha	1.988	
7	Maintenance of Nursery	2025-26	1100	9.087	Each seedling	0.100	
9	Raising of Nursery for 2nd year maint	2025-26	1100	15.997	Each seedling	0.176	
8	2nd year maintenance	2026-27	3.75	0.600	Ha	2.250	
10	Maintenance of Nursery	2026-27	1100	9.995	Each seedling	0.110	
11	3rd year maintenance	2027-28	3.75	0.415	Ha	1.556	
12	4th year maintenance	2028-29	3.75	0.190	Ha	0.713	
13	5th year maintenance	2029-30	3.75	0.065	Ha	0.244	
14	6th year maintenance	2030-31	3.75	0.072	Ha	0.270	
15	7th year maintenance	2031-32	3.75	0.079	Ha	0.296	
16	8th year maintenance	2032-33	3.75	0.087	Ha	0.326	
17	9th year maintenance	2033-34	3.75	0.095	Ha	0.356	
18	10th year maintenance	2034-35	3.75	0.105	Ha	0.394	
	Sub Total					17.212	
II	Chain Link Fencing						
1	Erection of Chain Link fencing around the CA Plantation in Sy.No.723/1		875	0.0176	Rmt	15.418	
2	Salvaging of old Chain ling for 10 Years		1313			1.659	
	Sub Total					17.077	
	Total cost of Plantation					34.289	

22/05/2017
347

Sl. No.	Name of the work	Year	Quantity in Ha/ Rmt	Unit Cost	Per	Amount (in Lakhs)	Remarks
III	SMC Works (25%of the total planting Cost)			--		8.572	
	Sub Total					8.572	
IV	Monitoring and Evaluation 5% of the total planting Cost			--		1.714	
V	Administrative Cost @ 10% of the total planting Cost (Wages to NTM & DEO in Turimella Range Office and Division Office, Giddalur			--		3.429	
	For Rounded					0.495	
	Grand Total:					48.500	

[Signature]
Divisional Forest Officer (T)
Giddalur

349

ABSTRACT ESTIMATE

Estimate for erection of Chain link fencing about 875 Rmt length and 1.50Mts height around proposed CA area in Turimella Range, Giddalur Division in lieu of Diversion of 4.41 Ha of Forest land for extraction of Quartz and Feldspar in Compt.No.125, Chaganam RF, Venkatagiri Range, Nellore Division in favour of M/s. Chettinad Morimura Semiconductor Material (Pvt), Limited.

Sl. No	Qty.	Units	Description of work	Rate	Per	Amount
1	2	3	4	5	6	7
1	33.32	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 seigniorage excluding dewatering charges etc as per SS -20b (APSS 308)	202.64	Cum	6752
2	33.32	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	6905.66	Cum	230106
3	875	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), with Painting two coats including priming	957.85	Rmt	838120
			Sub total			1074978
			GST @ 12% of estimate cost			128997
			Labour Cess @ 1% of estimate cost			10750
			Contingencies @ 5% on estimate cost			53749
			Total cost			1268475

Unit cost for 2022-23 1268475
 Add 10% for 2023-24 1395322
 Add 10% for 2024-25 1534854
Rate per 1 Rmt 1754.12 Rmt


 Divisional Forest Officer
 Giddalur

DETAILED ESTIMATE

Estimate for erection of Chain link fencing about 875 Rmt length and 1.50Mts height around proposed CA area in Turimella Range, Giddalur Division in lieu of Diversion of 4.41 Ha of Forest land for extraction of Quartz and Feldspar in Compt.No.125, Chaganam RF, Venkatagiri Range, Nellore Division in favour of M/s. Chettinad Morimura Semiconductor Material (Pvt), Limited.

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 = 875 RMT as per sketch	875					
	For Fencing Angels @ Every 3mtr Intravals	292	0.45	0.45	0.45	26.58	
	Support Angels @ Every 10th Angle (292/10x2=59)	59	0.45	0.45	0.45	5.38	
	Support Angulars in corners and addl support	15	0.45	0.45	0.45	1.37	
	Total Qty					33.32	Cum
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 = 875 RMT as per sketch						
	For Fencing Angels @ Every 3mtr Intravals	292	0.45	0.45	0.45	26.58	
	Support Angels @ Every 10th Angle	59	0.45	0.45	0.45	5.38	
	Support Angulars in corners and addl support	15	0.45	0.45	0.45	1.37	
	Total Qty					33.32	Cum
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	875	-	-	875	Rmt


 Divisional Forest Officer
 Giddalur

DATA SHEET -SSR 2021-22

253

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	490.00	1783.60
	b&c) Overheads & Contractors Profit				242.84
	Cost for 10 cum = a+b+c				2026.44
	Rate per cum = (a+b+c)/10				202.64
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	3.680	1012.00
BLD-CSTN-3-12	Coarse aggregate 20mm	cum	0.90	2751.10	2475.99
	Fine aggregate (Sand)	cum	0.48	2330.70	1118.74
	Water (including for curing) (Urbun)	kl	1.20	88.00	105.60
	B. MACHINERY				0.00
	Concrete Mixer 10/7cft(0.2/0.8 Cum) capacity	hour	1.00	626.20	626.20
	C. LABOUR:				0.00
	Mason 1 st class	day	0.10	585.00	58.50
	Mazdoor (unskilled)	day	1.39	490.00	681.10
	Sub total				6078.13
	Overheads & Contractors Profit			13.615%	827.54
	Grand Total				6905.66
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	655.00	0.00
	Painter (2nd Class)	day	0.60	525.00	315.00
	Mazdoor (Unskilled)	day	0.40	490.00	196.00
	b) Material				
	Red-oxide Primer as per specifications (Item No. BMT-J-03)	litre	0.60	121.00	72.60
	Paint ready mixed approved brand (Item No. BMT-J-30)	litre	1.25	172.00	215.00
	Sub total				798.60
	Overheads & Contractors Profit			13.615%	108.73
	Cost for 10 sqm = a+b+c+d				907.33
	Rate per sqm = (a+b+c+d)/10				90.733

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	575.00	575.00
	Mazdoor	day	2.12	490.00	1038.80
	b) Material				
	i) Angle iron for posts 50 x 50 x 6 mm (Proportionate weight for 1.50Mts).	kg	105.40	52.00	5480.80
	ii) Runner flat 50 x 5 mm (Proportionate weight for 1.50Mts).	kg	29.97	52.00	1558.44
	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 mtr X 1.5 Mtr) (Item No. BMT-F.22,)	Sqm	45.00	345.00	15525.00
	Add 2.5 percent of cost of material for drilling holes in angles, flats, splitting angle at bottom, nuts and bolts and welded consumables				388.13
	d) Painting				
	Painting two coats including priming	sqm	8.00	90.73	725.86
	Sub total				25292.03
	Overheads & Contractors Profit		13.615%		3443.51
	Cost for 30 metre = a+b+c+d+e+f				28735.54
	Rate per metre = (a+b+c+d+e+f)/30				957.85


 Divisional Forest Officer
 Giddalur

LEAD STATEMENT- 2022-23

Sl. No.	Description	SOR Item Code	Source of Material	Lead in KM	Initial Cost	Conveyance Charges	Deduct 1 Km lead	Net Conveyance	Add Self storage	Total (6+9+10)	Unit Per
1	2	3	4	5	6	7	8	9	10	11	13
1	Cost of Cement	GO (SoR-2021-22)	At site	At site	3680.00	0	0	0	0	3680.00	1 MT
2	Cost of Sand (Unscreened)	GO MAT-00027	Chennur	140	605.00	1655.40	33.700	1625.70	100	2330.70	1 Cum
3	Cost of 20 mm Metal	M-53 MAT-00218	Ramathertham	110	1418.00	1275.60	32.50	1243.10	90	2751.10	1 Cum
4	Cost of Anglers & Flats	GO ENC, WRD, Vijayawada, Lr.no.ENC/IW/SE(P&M) Cell/EE.I/DEE 02/AEE/21/Cement & Steel/ Vol-08, dt.11.03.2022.	Local	At site	56000.00	0	0	0	0	56000.00	1 MT

G. Sathya
Divisional Forest Officer
Giddalur

357

359

Standard Unit Cost for Advance Operations for 1 Ha in Giddalur Division of Guntur Circle (As per FSR 2022-23)						
Sl. No	Qty.	Details of work	FSR item No.	Rate	Unit	Amount
	(1)	(2)	(3)	(4)	(5)	(6)
		Advance operations (Preplanting operations)				
1	1	Survey with GPS (Only staff to carry out. One manday is allowed for assistance) Wage rate fixed by the Dist. Collector per day	02-05-001	465.00	Day	465.00
		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.				
2	1.00	Medium Jungle Growth (>30% ground area covered with Jungle growth)	02-05-005	11198.92	Ha	11198.92
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	7.89	Rmt	1183.50
		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.				
4	1.00	Medium Jungle Growth (>30% ground area covered with Jungle growth)	02-05-010	28283.72	Ha	28283.72
		Collection and removal of uprooted stumps of all sizes, other debris etc., to outside the plantation site.				
5	1.00	Medium Jungle Growth (>30% ground area covered with Jungle growth)	02-05-014	14628.41	Ha	14628.41
6		Contingencies				604.09
		Total Cost				56363.64

Unit cost for 2022-23 56363.64 Per Ha
Add 10% for 2023-24 62000.00 per Ha


 Divisional Forest Officer (T)
 Giddalur

PRIMARY BEDS**STANDARD UNIT COST FOR RAISING OF PRIMARY BEDS FOR RAISING OF NTHS SPECIES (As per FSR 2022-23)**

361

Sl. No.	Qty.	Description of work	2022-23 FSR Item No.	Rate	Per/ Unit	Amount
1	2	3	4	5	6	7
1	1100 Nos.	Preparation of old site - by clearing the site by dismantling old beds.	01-02-002	1.78	Bed/ 333 Nos.	5.88
2	1100 Nos.	Digging soil to a depth of 30 cm	01-02-003	52.74	Bed/ 333 Nos.	174.22
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	01-02-004	43.25	Bed/ 333 Nos.	142.87
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	50.00	Bed/ 333 Nos.	165.17
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	14.74	Bed/ 333 Nos.	48.69
6	1100 Nos/ 6.30 Kgs	Cost of seed Nallamaddi @ Rs.131.81/Kg. 175 seedlings per Kg seed	Actuals	131.81	Kg	830.40
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	16.75	Bed/ 333 Nos.	55.33
8	1100 Nos./ 2 months	Watering the primary nursery beds with rose water cans for a maximum period of 2 months. Note: Watering the primary beds beyond 2 months especially in the case of North-East monsoon areas prior approval of the CF concerned is required.	01-02-009	18.79	Bed/ 333 Nos/ month	124.14
9	1100 Nos./ 2 times	Weeding the primary beds maximum of 2 times Note: Weeding the primary beds more than 2 times prior approval of the CF concerned is required.	01-02-010	2.81	Bed/ 333 Nos/ time	18.56
10	1100 Nos.	Contingences such as cost of pipes, nursery board, electricity bills etc - 10% of estimate cost	01-05-035			250.00
		Total :				1815.26

Unit Cost for Bed (Misc. Species)	1.65
Add 10% for 2022-23	0.17
Unit Cost for 2023-24	1.82
Unit Cost for 2024-25	2.00

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Divisional Forest Officer,
Giddalur.

STANDARD UNIT COST FOR RAISING OF 6"X12" NTSH & RED SANDERS BAG PLANTS
NURSERY (As per FSR 2022-23)

Sl. No.	Qty.	Description of work	2022-23 FSR Item No.	Rate	Per/ Unit	Amount
1	2	3	4	5	6	7
		Raising of Bag plant nursery in Polythene bags of different sizes and arranging in beds (Bed size 10Mx1M)				
1	1100 Nos.	Site preparation for old site - Clearing of growth, weeds, grass etc.	01-05-002	18.02	Bed/ 1100	18.02
		Cost and transport of ingredients for Potting mixture Red Soil and Clayey Soil in 2:1 ratio as per CSSR 2011-12.				
2	1100 Nos.	15 cm X 30 cm (6" X 12") 2.15 cum.	01-05-005	745.08	1000 Nos.	819.59
		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.				
3	1100 Nos.	15 cm X 30 cm (6" X 12") 2.15 cum.	01-05-011	1804.07	1000	1984.48
4	1150 Nos./ 10 Kgs	Cost of Polythene bags (@ 115 Nos./Kg) Tender rate	01-05-015	136.88	Kg	1368.80
5	1100 Nos.	Picking out seedlings from primary beds and transplanting in bags.	01-05-016	191.070	1000	210.18
6	1000 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)	01-05-020	441.46	Bed/ 1100/ month	2006.64
7	1000 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	68.07	Bed/ 1100/ weeding	123.76
8	1000 Nos./ 1 time	Shifting & grading and rearranging in beds for 10mx1m size bed (6x12 bags-1100 Nos) only once	01-05-024	375.39	Bed/ 1100/ shifting	341.26
9		Cost of chemicals, insecticides, pesticides etc.,	01-05-025	Actuals		250.00
10	1000 Nos./ 1 time	Cost of cow dung slurry	01-05-033	As per actuals		250.00
11	1000 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) Note: Watering should not be done 12 hours before and after application of cow dung slurry	01-05-034	282.78	1000/ time	282.78
12	1000 Nos/ 25 Rmt	Brush wood fencing around the planting area: 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 1.5 m and fenceing material should be fixed in 2 rows (staggered) at 30 cm apart. The fence should be tightened horizontally by tying with thorny reapers on both sides.	01-05-039	38.35	Rmt	958.75
13	1000 Nos./ 5 months	Cost of Protection. 1 watcher is allowed upto 100 beds nursery under all the schemes and more than 100 beds 1 more watcher is allowed. Average per 100beds. (26 days per month) $465 \times 26 = 12090 \times 5 \text{ months} = 60450/100 = 604.50$	01-05-041	465.00	Day	604.50
14	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 10% of estimate cost during raising year.		985.00
		Total :				10203.76

Unit cost per primary bed
Unit cost per bag plant
Total unit cost per bag plant

Add 10% for 2022-23
Unit Cost for 2023-24
Unit Cost for 2024-25
Unit Cost for 2025-26

1.82
10.20
12.02
1.20
13.22
14.54
16.00 Each bag plant

[Signature]
Divisional Forest Officer,
Giddalur.

STANDARD UNIT COST FOR MAINTENANCE OF 6"X12" NTSH & RED SANDERS BAG PLANTS (As per FSR 2022-23)

SL No.	Qty.	Description of work	2022-23 FSR Item No.	Rate	Per/ Unit	Amount
1	2	3	4	5	6	7
		Maint.of bag nursery from April to July				
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) Note: Any watering beyond July in case of South-West monsoon and beyond October in case of North-East monsoon is to be allowed with prior permission of concerned CF.	01-05-028	441.46	Bed/ 1100/ month	1605.31
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	68.07	Bed/ 1100/ weeding	247.53
3	1000 Nos./ 2 times	Shifting and grading and re-arranging in beds for 10 m X 1 m size bed maximum 2 shifts (6x12 bags-1100 Nos) Note; More than 2 shifts to be allowed (with prior permission of circle head)	01-05-032	375.39	Bed/ 1100/ shifting	682.53
4	1000 Nos./ 2 times	Cost of cow dung slurry	01-05-033		Actuals	800.00
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.) Note: Watering should not be done 12 hours before and after application of cow dung slurry.	01-05-034	282.78	1000/ time	565.56
		Maintenance of bag nursery from August onwards till disposal				
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	176.60	Bed/ 1100/ month	642.18
7	1000 Nos./ 2 times	Shifting and grading and re-arranging in beds for 10 m X 1 m size bed (6x12 bags-1100 Nos) Note; More than 2 shifts to be allowed (with prior permission of circle head)	01-05-037	375.39	Bed/ 1100/ shifting	682.53
9	1000 Nos./ 8 months	Cost of Protection. 1 watcher is allowed upto 100 beds nursery under all the schemes and more than 100 beds 1 more watcher is allowed. Average 100beds. (26 days/month).	01-05-041	465.00	Day	967.20
10	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		691.00
			Total :			6883.83

Unit cost per bag plant	6.88
Add 10% for 2022-23	0.69
Unit Cost for 2023-24	7.57
Unit Cost for 2024-25	8.26
Unit Cost for 2025-26	9.09
Unit Cost for 2026-27	10.00 Each bag plant

[Signature]
Divisional Forest Officer,
Giddalur.

Standard Unit Cost for Raising of NTSH Plantations under SMM Method for NTSH & Red Sanders Unit cost for 1 Ha in Giddalur Division of Guntur Circle (As per FSR 2022-23)

Sl. No.	Qty.	Description of work with detailed specifications	FSR Code	Rate in Rs.	Per/ Unit	Amount
		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)				
1	1.00	Hard /Gravelly Soils	02-05-020	7263.38	Ha	7263.38
2	1.00	Removing congestion of root suckers and other uprooted material hindering the effective ploughing (For non-tilled areas only)	02-05-024	1245.09	Ha	1245.09
		Alignment & Staking				
3	1111	Alignment and staking including laying base line for Misc species with espacement 3mX3m (1111 Nos)	02-06-003	108.16	100 Nos	1201.66
4	1111	Cost of 0.45M Stake preparation and transportation to site.	02-06-005	70.42	100 Nos	782.37
		Transport of Bag plants / Root trainer plants from nursery site to plantation site including loading and unloading upto 50 Km lead (5 Km lead)				
5	1111.00	15X30cm (6"X12") bag plants	02-06-009	185.09	100 Nos	2056.350
		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 average lead 45 Km				
6	1111.00	15 X 30cm (6"X12") bag plants	02-06-014	292.05	100 nos/ km	3244.676
		Internal transport of bag plants/root trainers to planting points on head loads.				
7	1111	15X30cm (6"X12") bag plants	02-06-019	118.73	100 Nos	1319.09
		Digging of pits in ploughed areas				
8	1111	Digging of 45 cm. cube pits	02-06-027	11.89	Each	13209.79
		Application of Fertilizers				
9		Cost of Chemical fertilisers (50 grm SSP for basal dressing, 20 grm DAP after planting for 30 cm ³ & 45 cm ³ pits).	02-06-031		As per actuals	
	56.00	a) Cost of SSP @ 50 Grams/Pit - 56Kgs/Ha		25.00	Kg	1400.00
	22.00	a) Cost of DAP @ 20 Grams/Pit - 22 Kgs/Ha		40.00	Kg	880.00
10	1111	Application of fertilizer after planting by making 3 holes of 10 cms depth with crow bar . 10 cms away from plant and putting fertilizers and closing	02-06-032	50.79	100 Nos	564.28
		Planting bag plants				
11	1111	45cmX45cmX45 cm pits	02-06-034	565.54	100 Nos	6283.15
12	1111	Provision of watering during planting as per PCCFs Circular 6B/06/G1, (Rc.No. 17309/2000-G1, dt: 16.08.2005) with the permission Circle Head (Two Waterings) As per condition no.80 of Guntur FSR-2022-23	02-06-054	3.26	Plant per time	7243.72
13		Replacement of Casualties 20% during raising year	02-06-036			
	222	a) Reopening of pits		594.50	100 Nos	1319.79
	222	b) Transport of bag plants over 50 Km		477.14	100 Nos	1059.25
	222	c) Internal transport		118.73	100 Nos	263.58
	222	d) Planting		565.54	100 Nos	1255.50
		Weeding & Soil working				
14	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 gravelly soils.	02-06-041	848.32	100 Nos	9424.84
		Inter ploughing				
15	1.00	1st Inter ploughing with heavy duty tractor of 45 HP to a depth of 30 cm in hard gravelly soils	02-06-045	4841.54	Ha	4841.54
16	1.00	2nd Inter ploughing with heavy duty tractor of 45 HP to a depth of 30 cm in hard gravelly soils	02-06-045	4841.54	Ha	4841.54
17	150	Creation of sectorlines/inspection paths/ fire lines 3 mts wide around the plantation	02-06-049	7.89	Rmt	1183.50
18	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. Wage rate fixed by the Dist. Collector per day.	02-06-053	465.00	Day	4836.00
19	1111	Provision of watering during planting as per PCCFs Circular 6B/06/G1, (Rc.No. 17309/2000-G1, dt: 16.08.2005) with the permission Circle Head (Six Waterings)As per condition no.80 of Guntur FSR-2022-23	02-06-054	3.26	Plant per time	21731.16
20		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	9987.78
		Total cost				107438.02

Unit cost for 2022-23
Add 10% for 2023-24
Add 10% for 2024-25

107438.02
118181.82

130000.01 Per Ha

[Signature]
Divisional Forest Officer (T)
Giddalur

269

Standard Unit Cost for 1st Year Maintenance of NTSH Plantations under SMM Method for NTSH & Red Sanders
Unit cost for 1 Ha in Giddalur Division of Guntur Circle (As per FSR 2022-23)

SL No	Qty	Details of work	FSR Item No.	Per	Unit	Rate
	(1)	(2)	(3)	(4)	(5)	(6)
		1st YEAR MAINTENANCE OF PLANTATIONS IN OTHER THAN SANDY SOILS:				
1		Replacement of Casualties 25% in 1st year maint.	02-07-001			
	278	a) Reopening of pits		1081.00	100 Nos	3005.18
	278	c) Internal transport		118.73	100 Nos	330.07
	278	d) Planting		565.54	100 Nos	1572.20
		Application of Fertilizers				
2	1111	Provision of watering during planting as per PCCFs Circular 6B/06/G1, (Re.No. 17309/2000-G1, dt: 16.08.2005) with the permission Circle Head. As per condition no.80 of Guntur FSR-2022-23	02-06-054	3.26	Plant per time	3621.86
3		Cost of Chemical fertilisers (50 grm SSP for basal dressing, 20 grm DAP for replacement of casualties).	02-07-002		As per actuals	
4	14.00	a) Cost of SSP @ 50 Grams/Pit - 14 Kgs/Ha		25.00	Kg	350.00
5	6.00	a) Cost of DAP @ 20 Grams/Pit - 6 Kgs/Ha		40.00	Kg	240.00
6	278	Application of fertilizer after planting by making 3 holes of 10 cm depth with crow bar. 10 cm away from plant and putting fertilizers and closing	02-07-003	50.79	100 Nos	141.20
		Inter ploughing				
7	1.00	1st Inter ploughing with heavy duty tractor of 45 HP to a depth of 30 cm in hard gravellary soils	02-07-007	4841.54	Ha	4841.54
8	1.00	2nd Inter ploughing with heavy duty tractor of 45 HP to a depth of 30 cm in hard gravellary soils (As per condition no.69 of Guntur FSR-2021-22)	02-07-007	4841.54	Ha	4841.54
9	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	848.32	100 Nos	9424.84
10	150	Creation of Fire lines 3 mts wide	02-07-014	7.89	Rmt	1183.50
11	833	Pruning of lower foliage/ branches of NTFP /NTSH/Misc species like kanuga, Neem, Usiri, Seethaphal etc., plants upto 1/3rd height.	02-07-015	160.56	100 Nos	1337.46
12	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	465.00	Day	7254.00
13		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	1676.30
		Total Cost				39819.69

Unit cost for 2022-23 39819.69
 Add 10% for 2023-24 43801.66
 Add 10% for 2024-25 48181.82
 Add 10% for 2025-26 **53000.00**


 Divisional Forest Officer (T)
 Giddalur

Standard Unit Cost for 2nd Year Maintenance of NTSH Plantations under SMM Method for NTSH & Red Sanders Unit cost for 1 Ha in Giddalur Division of Guntur Circle (As per FSR 2022-23)

SLN	Qty	Details of work	FSR Item No.	Per	Unit	Rate
(1)	(2)	(3)	(4)	(5)	(6)	(7)
		2nd YEAR MAINTENANCE OF PLANTATIONS IN OTHER THAN SANDY SOILS/SEMI MECHANICAL METHOD:	02-08:			
1		Replacement of Casualties 25% in 1st year maint.	02-07-001			
	278	a) Reopening of pits		1081.00	100 Nos	3005.18
	278	c) Internal transport		118.73	100 Nos	330.07
	278	d) Planting		565.54	100 Nos	1572.20
2	1111	Provision of watering during planting as per PCCFs Circular 6B/06/G1, (Rc.No. 17309/2000-G1, dt: 16.08.2005) with the permission Circle Head.As per condition no.80 of Guntur FSR-2021-22	02-06-054	3.26	Plant per time	3621.86
3	555	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	02-08-002	50.79	100 Nos	281.88
4		Cost of Chemical fertilisers (50 grm SSP for basal dressing, 20 grm DAP for backward plants).	02-08-001			
	28.00	a) Cost of SSP @ 50 Grams/Pit - 28 Kgs/Ha		25.00	Kg	700.00
	11.00	b) Cost of DAP @ 20 Grams/Pit - 11 Kgs/Ha		40.00	Kg	440.00
5	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.	02-07-003	848.32	100 Nos	9424.84
		Inter ploughing				
6	1.00	1st Inter ploughing with heavy duty tractor of 45 HP to a depth of 30 cm in hard gravellary soils	02-08-008	4841.54	Ha	4841.54
7	1.00	2nd Inter ploughing with heavy duty tractor of 45 HP to a depth of 30 cm in hard gravellary soils (As per condition no.69 of Guntur FSR-2021-22)	02-08-008	4841.54	Ha	4841.54
8	150	Creation of sectorlines/inspection paths/ fire lines 3 mts wide around the plantation	02-08-012	7.89	Rmt	1183.50
9	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	02-08-014	465.00	Day	7254.00
10	1111	Pruning of lower foliage/ branches of NTFP /NTSH/Misc species like kanuga, Neem, Usiri, Seethaphal etc., plants upto 1/3rd	02-08-015	160.56	100 Nos	1783.82
11		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		1700.00
		Total Cost				40980.43

Unit Cost for 2022-23 40980.43
Add 10% For 2023-24 45078.48
Add 10% for 2024-25 49586.32
Add 10% for 2025-26 54545.00
Add 10% for 2026-27 60000.00


Divisional Forest Officer (T)
Giddalur

3rd YEAR YEAR MAINTENANCE OF PLANTATIONS IN OTHER THAN SANDY SOILS:						
		Circular weeding cum deep soil working to a radius of 0.5 m				
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	848.32	100 Nos	84832.00
		Inter ploughing				
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	4841.54	Ha	4841.54
3	150	Creation of sectorlines/inspection paths/ fire lines 3 mts wide around the plantation	02-09-008	7.89	Rmt	1183.50
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	465.00	Day	7254.00
5	1111	Pruning of lower foliage/ branches of NTFP /NTSH/Misc species like kanuga, Neem, Usiri, Seethaphal etc., plants upto 1/3rd height.	02-09-010	160.56	100 Nos	1783.82
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		1280.00
		Total Cost				25767.70

Unit Cost for 2022-23 25767.70
 Add 10% for 2023-24 28344.47
 Add 10% for 2024-25 31179.00
 Add 10% for 2025-26 34297.00
 Add 10% for 2026-27 37727.00
 Add 10% for 2027-28 **41500.00** Ha


 Divisional Forest Officer (T)
 Giddalur

Standard Unit Cost for 4th Year Maintenance of NTSH Plantations under SMM Method for NTSH & Red Sanders Unit cost for 1 Ha in Giddalur Division of Guntur Circle (As per FSR 2022-23)

Sl. No	Qty	Details of work	FSR Item No.	Rate	Per	Amount
	(1)	(2)	(3)	(4)	(5)	(6)
		4th YEAR YEAR MAINTENANCE OF PLANTATIONS IN OTHER THAN SANDY SOILS:				
1	150	Creation of sectorlines/inspection paths/ fire lines 3 mts wide around the plantation	02-10-001	7.89	Rmt	1183.50
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	02-10-002	465.00	Day	7254.00
3	1111	Pruning of lower foliage/ branches of NTSP /NTSH/Misc species like kanuga, Neem, Usiri, Seethaphal etc., plants upto 1/3rd height.	02-10-003	160.56	100 Nos	1783.82
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		504.00
		Total Cost				10725.32

Unit Cost for 2022-23	10725.00	Ha
Add 10% for 2023-24	11798.00	Ha
Add 10% for 2024-25	12978.00	Ha
Add 10% for 2025-26	14276.00	Ha
Add 10% for 2026-27	15704.00	Ha
Add 10% for 2027-28	17274.00	Ha
Add 10% for 2028-29	19001.00	Ha


 Divisional Forest Officer (T)
 Giddalur

Standard Unit Cost for 5th Year to 10th Maintenance of NTSH Plantations under SMM Method for NTSH & Red Sanders Unit cost for 1 Ha in Giddalur Division of Guntur Circle (As per FSR 2022-23)

Sl. No	Qty	Details of work	FSR Item No.	Rate	Per	Amount
	(1)	(2)	(3)	(4)	(5)	(6)
		5th YEAR YEAR to 10th year MAINTENANCE OF PLANTATIONS IN OTHER THAN SANDY SOILS:				
1	150	Creation of sectorlines/inspection paths/ fire lines 3 mts wide around the plantation	02-10-001	7.89	Rmt	1183.50
2	1111	Pruning of lower foliage/ branches of NTFP /NTSH/Misc species like kanuga, Neem, Usiri, Seethaphal etc., plants upto 1/3rd height.	02-10-003	160.56	100 Nos	1783.82
3		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		350.00
		Total Cost				3317.32

Unit Cost for 2022-23	3317.00	Ha	
Add 10% for 2023-24	3649.00	Ha	
Add 10% for 2024-25	4014.00	Ha	
Add 10% for 2025-26	4415.00	Ha	
Add 10% for 2026-27	4857.00	Ha	
Add 10% for 2027-28	5343.00	Ha	
Add 10% for 2028-29	5877.00	Ha	OR
Add 10% for 2029-30	6465.00	Ha	6500 5th year
Add 10% for 2030-31	7112.00	Ha	7200 6th year
Add 10% for 2031-32	7823.00	Ha	7900 7th year
Add 10% for 2033-33	8605.00	Ha	8700 8th year
Add 10% for 2033-34	9466.00	Ha	9500 9th year
Add 10% for 2034-35	10413.00	Ha	10500 10th year

[Signature]
Divisional Forest Officer (T)
Giddalur

Data sheet for Maint., of Chain Link Fencing around CA Area
(FSR 2022-23)

379

Sl. No.	Qty.	Description of work	2022-23 FSR Item No.	Rate	Per/ Unit	Amount
1	2	3	4	5	6	7
1	1313	Salvaging of old chain link (875*1.50 = 1313 sqmt)	05-05-004	5.73	1 sqmt	7523.49
2		Contingencies	02-13-003	LS		276.51
		Total				7800.00

Unit cost for 2022-23	7800.00		
Add 10% for 2023-24	8580.00		
Add 10% for 2024-25	9438.00	OR	
Add 10% for 2025-26	10381.80	10400	1st Year
Add 10% for 2026-27	11419.98	11500	2nd Year
Add 10% for 2027-28	12561.98	12600	3rd Year
Add 10% for 2028-29	13818.18	13900	4th Year
Add 10% for 2029-30	15199.99	15200	5th Year
Add 10% for 2030-31	16719.99	16800	6th Year
Add 10% for 2031-32	18391.99	18400	7th Year
Add 10% for 2033-33	20231.19	20300	8th Year
Add 10% for 2033-34	22254.31	22300	9th Year
Add 10% for 2034-35	24479.74	24500	10th Year


Divisional Forest Officer
Giddalur.