

**GOVERNMENT OF ANDHRA PRADESH
FOREST DEPARTMENT**

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

To
The Prl.Chief Conservator of Forests &
Head of Forest Force,
Andhra Pradesh,
Guntur.

Rc.no. 1292/2021-TO, dt: 17.03.2022.

Sir,

Sub: APFD- F(c) Act, 1980- Proposals for diversion of 10.72 ha. of forest land in compt.no.120, Turimerla RF Venkatagiri Range Nellore Division for grant of quarry lease for Mica, Quartz & Feldspar in favour of M/s Mica Zone, Mg. Partner Sri. G. Krishnam Raju - identified degraded RF for raising of CA in elsewhere SZA - CA Scheme proposals submitted by the DFO - Submission of report- Reg.

Ref: 1. Prl.CCF, AP, Guntur Rc.no.EFS02-15026/15/2021-FCASEC-PCCF/FCA-3, dt.19.09.2021
2. DFO, Nellore Rc.no.598/2021-F11, dt.24.12.2021.
3. CF, Guntur Rc.no.1992/2021-TO, dt.27.12.2021.
4. Prl.CCF, AP, Guntur Rc.no.EFS02-15026/15/2021-FCASEC-PCCF/FCA-3, dt.09.01.2022
5. DFO, Nellore Rc.no.598/2021-F11, dt.14.03.2022.
* * *

In compliance to the instructions issued in the reference 4th cited above, it is submitted that in the reference 5th cited, the District Forest Officer, Nellore has submitted a report that the Forest Range Officer, Venkatagiri has identified the degraded CA area 2.10 ha, measuring one and half times of area of forest land under Safety Zone and furnished the Compensatory Afforestation Scheme with total financial out lay of Rs.29.20 lakhs for a span of 12 year from the period of 2022-23 to 2033-34 together with surveyed sketches to this office for administration approval. The details are as follows.

Sl. no	Division	Range	Section/Beat/RF/ Compt.no.	Area in ha.
1	2	3	4	5
1	Nellore	Venkatagiri	Marlapudi/Chaganam/ Turmerla RF/Compt.no.120	2.10 ha (i.e, 1.34 ha SZA area x 1.5 times)

In this regard, it is submitted that, as per the provisions of the Forest (C) Act, 1980 the administration approval has been issued to the CA Scheme for Rs.29.20 lakhs and the same is submitted herewith for further processing. A copy of the District Forest Officer report together with CA scheme and surveyed map with DGPS instrument is submitted herewith for favour of information.

This is submitted for favour of kind information and necessary action.

Encl: As above.

Yours faithfully,

Conservator of Forests,
Guntur Circle, Guntur.

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



Statement Showing the afforestationScheme Proposals over an extent of 2.10 Ha (1 1/2 times GZA area of M/s Mica zone company) In degraded turimoria RF of Vonkatagiri Range, Nellore Division

(Rs. in Lakhs)

Sl. No	Name of the work	Unit cost		2022-23		2023-24		2024-25		2025-26		2026-27		2027-28		2028-29		2029-30		2030-31		2031-32		2032-33		2033-34		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(2.1ha)	1 Ha	0.57000	2.10	1.197																							2.10	1.197	
2	Raising of Nursery	Nos	12.19	3000	0.366																						3000	0.366		
3	Raising of plantations	1 Ha	1.180			2.10	2.478																				2.10	2.478		
4	Maintenance of Nursery	Nos	7.230			3000	0.217																				3000	0.217		
5	Raising of Nursery for 1st year maint	Nos	13.341			600	0.080																				600	0.080		
6	1st year maintenance	1 Ha	0.510			2.10	1.071																				2.10	1.071		
7	Maintenance of Nursery	Nos	8.000			600	0.048																				600	0.048		
8	Raising of Nursery for 2nd year maint	Nos	14.750					600	0.089																		600	0.089		
9	2nd year maintenance	1 Ha	0.562					2.1	1.180																		2.10	1.180		
10	Maintenance of Nursery	Nos	8.800					600	0.053																		600	0.053		
11	3rd year maintenance	1 Ha	0.376							2.10	0.790																2.10	0.790		
12	4th year maintenance	1 Ha	0.175												2.10	0.368											2.10	0.368		
13	5th year maintenance	1 Ha	0.055														2.10	0.116									2.10	0.116		
14	6th year maintenance	1 Ha	0.061																2.10	0.128							2.10	0.128		
15	7th year maintenance	1 Ha	0.067																	2.10	0.141						2.10	0.141		
16	8th year maintenance	1 Ha	0.073																								2.10	0.153		
17	9th year maintenance	1 Ha	0.081																								2.10	0.153		
18	10th year maintenance	1 Ha	0.089																								2.10	0.187		
	Sub-Total>						2.775		1.208		1.233		0.790		0.368		0.116		0.128		0.141		0.153		0.170		0.187		8.830	
II	Chain Link Fencing																													
1	Erection of Chain Link fencing around the CA Plantation	1 Rmt	0.0184			599	11.022																					599	11.022	
2	Salvaging of old Chain link for 10 Years	899 Sqmt						0.090	0.090		0.090		0.090		0.090		0.090		0.090		0.090		0.090		0.090		899	0.990		
	Sub-Total>							0.000	0.090		0.090		0.090		0.090		0.090		0.090		0.090		0.090		0.090				12.012	
	Sub Total of Plantation cost							11.112	13.887		1.298		0.880		0.458		0.206		0.218		0.231		0.243		0.260				20.842	
	SMC works (25% of total planting cost)						0.500		0.500		0.500		0.400		0.400		0.400		0.400		0.400		0.400		0.400				5.205	
III																														
IV	Monitoring and Evaluation 5% of total planting cost							0.100	0.131		0.090		0.090		0.090		0.090		0.090		0.090		0.090		0.090				1.041	
V	Administrative Cost @ 10% of the total planting Cost)	LS					0.200		0.200		0.200		0.200		0.200		0.200		0.200		0.200		0.100		0.100				2.112	
	Sub-Total>						0.200		0.200		0.200		0.200		0.200		0.200		0.200		0.200		0.100		0.100				8.358	
	Grand Total>>						14.087		1.498		1.523		1.080		0.658		0.406		0.418		0.431		0.343		0.360				29.200	

/tcbal/

[Signature]
Superintendent.

COUNTER SIGNED

Chief Conservator of Forests
GUNTUR CIRCLE,
GUNTUR.

[Signature]
17/3/22

Sd/-YVK Shanmukh Kumar,
District Forest Officer,
SPSR Nellore.

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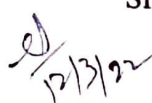
ABSTRACT ESTIMATE

Estimate for erection of Chain link fencing about 599 Rmt length and 1.50Mts height around proposed 2.15 Ha (1 1/2 times SZA area of Mica Zone mining Company) in degraded Turimerla RF of Venkatagiri Raje.

Sl. No	Qty.	Units	Description of work	Rate	Per	Amount
1	2	3	4	5	6	7
1	22.57	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	4573
2	22.57	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	155851
3	599	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	1019.37	Rmt	610604
			Sub total			771028
			GST @ 12% of estimate cost			92523
			Labour Cess @ 1% of estimate cost			7710
			Contingencies @ 5% on estimate cost			38551
			Total cost			909813

Unit cost for 2021-22 909813
Add 10% for 2022-23 1000795
Add 10% for 2023-24 1100874
Rate per 1 Rmt ~~1837.65~~ Rmt


District Forest Officer,
SPSR Nellore


12/3/22

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DETAILED ESTIMATE

Estimate for erection of Chain link fencing about 599 Rmt length and 1.50Mts height around proposed 2.15 Ha (1 1/2 times SZA area of Mica Zone mining Company) in degraded Turimerla RF of Venkatagiri Raga.

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 seigniorage excluding dewatering charges etc as per SS -20b (APSS 308)						
	For a Length of = 599 RMT as per sketch	599					
	For Fencing Angels @ Every 3mtr Intravals	200	0.45	0.45	0.45	18.19	
	Support Angels @ Every 10th Angle (200/10x2= 40)	40	0.45	0.45	0.45	3.65	
	Support Angulars in corners and addl support	8	0.45	0.45	0.45	0.73	
	Total Qty					22.57	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 =200 RMT as per sketch						
	For Fencing Angels @ Every 3mtr Intravals	200	0.45	0.45	0.45	18.19	
	Support Angels @ Every 10th Angle	40	0.45	0.45	0.45	3.65	
	Support Angulars in corners and addl support	8	0.45	0.45	0.45	0.73	
	Total Qty					22.57	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	599	-	-	599	Rmt


 District Forest Officer,
 SPSR Nellore


 12/3/22

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 struttred, 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	64.00	6745.60
	ii) Runner flat 50 x 5 mm (Proportionate weight for 1.50Mts).	kg	29.97	64.00	1918.08
	iii) Hot Dipped Galvanised Chain Link Mesh 8 Gauge (4mm) as per IS 2721-1979 3" X 3" mesh 8 guage or 75 mm x 75 mm mesh (30 mtrX1.5 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				26916.47
	Overheads & Contractors Profit		13.615%		3664.68
	Cost for 30 metre = a+b+c+d+e+f				30581.15
	Rate per metre = (a+b+c+d+e+f)/30				1019.37



 District Forest Officer,
 SPSR Nellore


 12/3/22

LEAD STATEMENT- 2021-22.

Sl. No.	Description	SOR Item Code	Source of Material	Lead in KM	Initial Cost	Conveyance Charges	Deduct 1 Km lead	Net Conveyance	Add Seigniorage	Total (6+9+10)	Unit Per
1	2	3	4	5	6	7	8	9	10	11	13
1	Cost of Cement	G.O.RT.No. 335, TRANSPORT, ROADS AND BUILDINGS (R-I) DEPARTMENT Dated: 14-10-2020.	At site	At site	3680.00	0	0	0	0	3680.00	1 MT
2	Cost of Sand (Unscreened)	GO MAT-00027	Reach at Udyagiri	140	605.00	1659.40	33.700	1625.70	100	2330.70	1 Cum
3	Cost of 20 mm Metal	M-53 MAT-00218	Udayagiri	110	1418.00	1275.60	32.50	1243.10	90	2751.10	1 Cum
4	Cost of Anglers & Flats	Memo No. AEE(T1)/DEE(T)/Steel rates/2018-19dt. 21-2-2022 of CE, PR, Vijayawada.	Local	At site	64900.00	0	0	0	0	64900.00	1 MT


 District Forest Officer,
 SPSR Nellore


 12/3/22

**Standard Unit Cost for Advance Operations for 1 Ha degraded RF in Nellore Division of
Guntur Circle (As per FSR 2021-22)**

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	438.00	Day	438.00
		Preparation of site for planting by clearing thorny unsaleable, unusable jungle growth, creepers, bushes etc., spreading the cut material all over the site and burning the same.				
2	1.00	Medium Jungle Growth (>30% ground area covered with Jungle growth)	02-05-005	10180.84	Ha	10180.84
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	7.18	Rmt	1077.00
		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	25712.48	Ha	25712.48
		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	13298.56	Ha	13298.56
6		Contingencies				1111.30
		Total Cost				51818.18

Unit cost for 2021-22 51818.18 Per Ha
Add 10% for 2022-23 57000.00 per Ha

District Forest Officer,
SPSR Nellore.

12/3/22

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PRIMARY BEDS
STANDARD UNIT COST FOR RAISING OF PRIMARY BEDS FOR RAISING OF
NTHS SPECIES (As per FSR 2021-22)

Sl. No.	Qty.	Description of work	2021-22 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	1.62	Bed/ 333 Nos.	5.35
2	1100 Nos.	Digging soil to a depth of 30 cm	01-02-003	47.95	Bed/ 333 Nos.	158.39
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	39.32	Bed/ 333 Nos.	129.89
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	40.00	Bed/ 333 Nos.	132.13
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	13.40	Bed/ 333 Nos.	44.26
6	1100 Nos/ 6.30 Kgs	Cost of seed Nallamaddi @ Rs.111.72/Kg. 175 seedlings per Kg seed	Actuals	119.83	Kg	754.93
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	15.23	Bed/ 333 Nos.	50.31
8	1100 Nos./ 2 months	Watering the primary nursery beds with rose water cans for a maximum period of 2 months. <u>Note:</u> 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	17.09	Bed/ 333 Nos/ month	112.91
9	1100 Nos./ 2 times	Weeding the primary beds maximum of 2 times <u>Note:</u> Weeding the primary beds more than 2 times prior approval of the CF concerned is required.	01-02-010	2.56	Bed/ 333 Nos/ time	16.91
10	1100 Nos.	Contingences such as cost of pipes, nursery board, electricity bills etc - 10% of estimate cost	01-05-035			190.00
			Total :			1595.09

Unit Cost for Bed (Misc. Species)	1.45
Add 10% for 2021-22	0.15
Unit Cost for 2022-23	1.60
Unit Cost for 2023-24	1.75


 District Forest Officer,
 SPSR Nellore.



**STANDARD UNIT COST FOR RAISING OF 6"X12" NTSH & RED SANDERS BAG PLANTS
NURSERY (As per FSR 2021-22)**

Sl. No.	Qty.	Description of work	2021-22 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	16.39	Bed/ 1100	16.39
		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	677.35	1000 Nos.	745.09
		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	1640.07	1000	1804.08
4	1150 Nos./ 10 Kgs	Cost of Polythene bags (@ 115 Nos./Kg) Tender rate	01-05-015	144.93	Kg	1449.30
5	1100 Nos.	Picking out seedlings from primary beds and transplanting in bags.	01-05-016	173.700	1000	191.07
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	401.33	Bed/ 1100/ month	1824.23
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	61.89	Bed/ 1100/ weeding	112.53
8	1000 Nos./ 1 time	Shifting & grading and rearranging in beds for 10mx1m size bed (6x12 bags-1100 Nos) only once	01-05-024	341.27	Bed/ 1100/ shifting	310.25
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) <u>Note:</u> Watering should not be done 12 hours before and after application of cow dung slurry	01-05-034	257.08	1000/ time	257.08
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 fencing 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	34.87	Rmt	871.75
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 100 beds. (26 days per month)	01-05-041	420.00	Day	546.00
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.		862.00
		Total :				9489.75

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

1.60
9.49
11.08
Add 10% for 2021-22 1.11
Unit Cost for 2022-23 12.19
Unit Cost for 2023-24 13.41
Unit Cost for 2024-25 14.75 Each bag plant


District Forest Officer,
SPSR Nellore.

12/3/22

STANDARD UNIT COST FOR MAINTENANCE OF 6"X12" NTSB & RED SANDERS BAG PLANTS (As per FSR 2021-22)

Sl. No.	Qty.	Description of work	2021-22 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	401.33	Bed/ 1100/ month	1459.38
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	61.89	Bed/ 1100/ weeding	225.05
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	341.27	Bed/ 1100/ shifting	620.49
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	257.08	1000/ time	514.16
		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	160.55	Bed/ 1100/ month	583.82
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	341.27	Bed/ 1100/ shifting	620.49
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	438.00	Day	873.60
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		325.00
		Total :				6022.00

Unit cost per bag plant	6.02
Add 10% for 2021-22	0.60
Unit Cost for 2022-23	6.62
Unit Cost for 2023-24	7.23
Unit Cost for 2024-25	7.95
Unit Cost for 2025-26	8.74 Each bag plant

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12/3/22

Standard Unit Cost for Raising of NTSH Plantations under SMM Method for NTSH & Red Sanders Unit cost for 1 Ha degraded RF in Nellore Division of Guntur Circle (As per FSR 2021-22)

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	6603.08	Ha	6603.08
2	1.00	Removing congestion of root suckers and other uprooted material hindering the effective ploughing (For non-tilled areas only)	02-05-024	1131.90	Ha	1131.90
		Alignment & Staking				
3	1111	Alignment and staking including laying base line for Misc species with espacement 3mX3m (1111 Nos)	02-06-003	98.33	100 Nos	1092.45
4	1111	Cost of 0.45M Stake preparation and transportation to site.	02-06-005	64.02	100 Nos	711.26
		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	168.27	100 Nos	1869.480
		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	265.50	100 nos/ km	2949.705
		Internal transport of bag plants/root trainers to planting points on head loads.				
7	1111	15X30cm (6"X12") bag plants	02-06-019	107.94	100 Nos	1199.21
		Digging of pits in ploughed areas				
8	1111	Digging of 45 cm. cube pits	02-06-027	10.81	Each	12009.91
		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	46.18	100 Nos	513.06
		Planting bag plants				
11	1111	45cmX45cmX45 cm pits	02-06-034	514.13	100 Nos	5711.98
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-2021-22	02-06-054	2.97	Plant per time	6599.34
13		Replacement of Casualties 20% during raising year	02-06-036			
	222	a) Reopening of pits		540.50	100 Nos	1199.91
	222	b) Transport of bag plants over 50 Km		433.77	100 Nos	962.97
	222	c) Internal transport		107.94	100 Nos	239.63
	222	d) Planting		514.13	100 Nos	1141.37
		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	771.20	100 Nos	8568.03
		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	4401.40	Ha	4401.40
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	4401.40	Ha	4401.40
17	150	Creation of sectorlines/inspection paths/ fire lines 3 mts wide around the plantation	02-06-049	7.18	Rmt	1077.00
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	420.00	Day	4368.00
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-2021-22	02-06-054	2.97	Plant per time	19798.02
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	8504.35
		Total cost				97333.46

Unit cost for 2021-22
Add 10% for 2022-23
Add 10% for 2023-24

97333.46
107066.80
117773.48 **Per Ha**

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12/13/22

**Standard Unit Cost for 1st Year Maintenance of NTSII Plantations under SMM Method for NTSII & Red Sanders Unit cost for 1 Ha Degraded RF in Nellore Division of Guntur Circle
(As per FSR 2021-22)**

Sl. No	Qty	Details of work	FSR Item No.	Per	Unit	Amount
	(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	b) Transportation of seedlings.		433.77	100 Nos	1205.88
	278	c) Internal transport		107.94	100 Nos	300.07
	278	d) Planting		514.13	100 Nos	1429.28
		Application of Fertilizers				
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	2.97	Plant per time	3299.67
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 cms depth with crow bar. 10 cms away from plant and putting fertilizers and closing	02-07-003	46.18	100 Nos	128.38
		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	4401.40	Ha	4401.40
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	4401.40	Ha	4401.40
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	771.20	100 Nos	8568.03
10	150	Creation of Fire lines 3 mts wide	02-07-014	7.18	Rmt	1077.00
11	1111	Pruning of lower foliage/ branches of NTFP /NTSH/Misc species like kanuga, Neem, Usiri, Seethaphal etc., plants upto 1/3rd height.	02-07-015	145.97	100 Nos	1621.73
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	420.00	Day	6552.00
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	1829.00
		Total Cost				38409.02

Unit cost for 2021-22 38409.02
Add 10% for 2022-23 42249.93
Add 10% for 2023-24 46474.92
Add 10% for 2024-25 51122.41

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Standard Unit Cost for 2nd Year Maintenance of NTSH Plantations under SMM Method for NTSH & Red Sanders Unit cost for 1 Ha Degraded RF in Nellore Division of Guntur Circle
(As per FSR 2021-22)

Sl.No	Qty	Details of work	FSR Item No.	Per	Unit	Amount
	(1)	(2)	(3)	(4)	(5)	(6)
		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	b) Transportation of seedlings.		433.77	100 Nos	1205.88
	278	c) Internal transport		107.94	100 Nos	300.07
	278	d) Planting		514.13	100 Nos	1429.28
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-2021-22	02-06-054	2.97	Plant per time	3299.67
3	278	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	02-08-002	46.18	100 Nos	128.38
4		Cost of Chemical fertilisers (50 gm SSP for basal dressing, 20 gm DAP for backward plants).	02-08-001			
	14.00	a) Cost of SSP @ 50 Grams/Pit - 14 Kgs/Ha		25.00	Kg	350.00
	6.00	a) Cost of DAP @ 20 Grams/Pit - 6 Kgs/Ha		40.00	Kg	240.00
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	771.20	100 Nos	8568.03
		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	4401.40	Ha	4401.40
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	4401.40	Ha	4401.40
8	150	Creation of sectorlines/inspection paths/ fire lines 3 mts wide around the plantation	02-08-012	7.18	Rmt	1077.00
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	02-07-017	420.00	Day	6552.00
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	145.97	100 Nos	1621.73
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.		1829.00
		Total Cost				38409.02

Unit Cost for 2021-22 38409.02
Add 10% For 2022-23 42249.93
Add 10% for 2023-24 46474.92
Add 10% for 2024-25 51122.00
Add 10% for 2025-26 56234.00

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Standard Unit Cost for 3rd Year Maintenance of NTSH Plantations under SMM Method for NTSH & Red Sanders Unit cost for 1 Ha degraded RF in Nellore Division of Guntur Circle (As per FSR 2021-22)

Sl. No	Qty	Details of work	FSR Item No.	Per	Unit	Amount
	(1)	(2)	(3)	(4)	(5)	(6)
		3rd YEAR YEAR MAINTENANCE OF PLANTATIONS IN OTHER THAN SANDY SOILS:				
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	771.20	100 Nos	8568.03
		Inter ploughing				
2	1.00	1st Inter ploughing with heavy duty tractor of 45 HP to a depth of 30 cm in hard gravellary soils	02-09-006	4401.40	Ha	4401.40
3	150	Creation of sectorlines/inspection paths/ fire lines 3 mts wide around the plantation	02-09-008	7.18	Rmt	1077.00
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	02-07-017	420.00	Day	6552.00
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	145.97	100 Nos	1621.73
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		1125.04
		Total Cost				23345.20

Unit Cost for 2021-22 23345.20
 Add 10% for 2022-23 25679.72
 Add 10% for 2023-24 28248.00
 Add 10% for 2024-25 31073.00
 Add 10% for 2025-26 34180.00
 Add 10% for 2026-27 **37598.00** Ha

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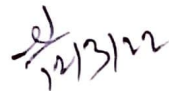
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Standard Unit Cost for 4th Year Maintenance of NTSH Plantations under SMM Method for NTSH & Red Sanders Unit cost for 1 Ha I degraded RF in Nellore Division of Guntur Circle (As per FSR 2021-22)

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	7.18	Rmt	1077.00
2	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	420.00	Day	6552.00
3	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	145.97	100 Nos	1621.73
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		628.98
		Total Cost				9879.71

Unit Cost for 2021-22	9880.00	Ha
Add 10% for 2022-23	10868.00	Ha
Add 10% for 2023-24	11955.00	Ha
Add 10% for 2024-25	13151.00	Ha
Add 10% for 2025-26	14466.00	Ha
Add 10% for 2026-27	15913.00	Ha
Add 10% for 2027-28	17504.00	Ha


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**Standard Unit Cost for 5th Year to 10th Maintenance of NTSH Plantations under SMM Method for NTSH
& Red Sanders Unit cost for 1 Ha Degraded RF in Nellore Division of Guntur Circle
(As per FSR 2021-22)**

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	7.18	Rmt	1077.00
3	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	145.97	100 Nos	1621.73
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		135.27
		Total Cost				2834.00

Unit Cost for 2021-22	2834.00	Ha	
Add 10% for 2022-23	3117.00	Ha	
Add 10% for 2023-24	3429.00	Ha	
Add 10% for 2024-25	3772.00	Ha	
Add 10% for 2025-26	4149.00	Ha	
Add 10% for 2026-27	4564.00	Ha	
Add 10% for 2027-28	5020.00	Ha	
Add 10% for 2028-29	5522.00	Ha	5th year
Add 10% for 2029-30	6074.00	Ha	6th year
Add 10% for 2030-31	6681.00	Ha	7th year
Add 10% for 2031-32	7349.00	Ha	8th year
Add 10% for 2032-33	8084.00	Ha	9th year
Add 10% for 2033-34	8892.00	Ha	10th year

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**Data sheet for Maint., of Chain Link Fencing around CA Area
(FSR 2021-22)**

Si. No.	Qty.	Description of work	2021-22 FSR Item No.	Rate	Per/ Unit	Amount
1	2	3	4	5	6	7
1	899	Salvaging of old chain link (599*1.50 = 899 sqmt)	05-05-005	5.21	1 sqmt	4683.79
2		Contingencies	02-13-003	LS		29.66
		Total				4713.45

Unit cost for 2021-22	4713.45
Add 10% for 2022-23	5184.80
Add 10% for 2023-24	5703.27
Add 10% for 2024-25	6273.60
Add 10% for 2025-26	6900.96
Add 10% for 2026-27	7591.06
Add 10% for 2027-28	8350.16
Add 10% for 2028-29	9185.18
Add 10% for 2029-30	10103.70
Add 10% for 2030-31	11114.07
Add 10% for 2031-32	12225.48
Add 10% for 2032-33	13448.02
Add 10% for 2033-34	14792.83
	99985.06

OR

1st Year
2nd Year
3rd Year
4th Year
5th Year
6th Year
7th Year
8th Year
9th Year
10th Year

District Forest Officer,
SPSR Nellore.

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12/3/22