



**GOVERNMENT OF ANDHRA PRADESH
FOREST DEPARTMENT**



Rc.no.115/2018-TO,
Date: -05-2023.

Office of 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 1.01ha of forest land proposed for laying of Optical Fiber Cable (OFC) along roads within the Right of way (RoW) under various Forest areas of Nellore Division in Andhra Pradesh in favour of M/s. Reliance Jio Infocomm Ltd., Visakhapatnam- CA Scheme proposals for the CA area identified in double the degraded forest land by the Divisional Forest Officer, Nellore - administration approval accorded – Reg.

- Ref:** 1. Online Proposal no.FP/AP/OFC/36007/2018,dt.18.09.2018.
2. Prl.CCF's, A.P, Guntur,Rc.no.EFSO2-15026/13/2018-FCA SEC-PCCF/FCA-3, dt.26.09.2018.
3. CCF,Guntur Rc.no.115/2018-TO,dt.11.11.2022 & 23.01.2023.
4. Prl.CCF's, A.P, Guntur,Rc.no.EFSO2-15026/13/2018-FCA SEC-PCCF/FCA-3, dt.09.12.2020 & 13.02.2023.
5. DFO, Nellore, Rc.no.216/2018-F11, dt:22.05.2023.

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Personal attention of the District Forest Officer, Nellore ref.4th cited. It is informed that, the proposals received in ref. 5th cited regarding CA Scheme proposals for the CA area identified in double the degraded forest land over an extent of 2.10ha in compt.no.19 of Rudrakota RF, Kavali Range for Rs.33.70 Lakhs over a period of 12 years from 2024-25 to 2035-36 duly technically approved by the DFO, Nellore have been verified and administration approval is hereby accorded for 33.70lakhs on the responsibility of the District Forest Officer, Nellore 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 the proposal in the Ministry's web site "PARIVESH" portal as per the instructions of the Prl. Chief Conservator of Forests, AP, Guntur and rules & guidelines of F(C) Act, 1980. A copy of the scheme approved is sent herewith.

Encl: as above.


Chief Conservator of Forests,
Guntur Circle, Guntur.

To
The District Forest Officer, Nellore.

Statement Showing the Compensatory Afforestation Scheme Proposals over an extent of 2.1 Ha CA area in degraded
 Prakota RF of Kavali Range in lieu of diversion of 1.01 Ha. Of forest land for laying of OPC by M/s Reliance Jio
 Info com. Ltd. In Nellro division

Sl. No	Name of the work	Year	Quantity In Ha/ Rmt	Unit Cost	Per	Amount (In Lakhs)	Remarks
I	Plantations						
1	Advance operations	2024-25	2.10	0.715	Ha	1.502	
2	Raising of Nursery	2024-25	1500	15.140	Each	0.227	
3	Raising of plantations	2025-26	2.1	1.197	Ha	2.514	
4	Maintenance of Nursery	2025-26	1500	8.220	Each	0.123	
6	Raising of Nursery for 1st year maint	2025-26	300	16.650	Each	0.050	
5	1st year maintenance	2026-27	2.10	0.608	Ha	1.278	
7	Maintenance of Nursery	2026-27	300	9.050	Each	0.027	
8	Raising of Nursery for 2nd year maint	2026-27	300	18.320	Each	0.055	
9	2nd year maintenance	2027-28	2.10	0.674	Ha	1.416	
10	Maintenance of Nursery	2027-28	300	9.950	Each	0.030	
11	3rd year maintenance	2028-29	2.10	0.461	Ha	0.968	
12	4th year maintenance	2029-30	2.10	0.205	Ha	0.431	
13	5th year maintenance	2030-31	2.10	0.069	Ha	0.145	
14	6th year maintenance	2031-32	2.10	0.076	Ha	0.160	
15	7th year maintenance	2032-33	2.10	0.084	Ha	0.176	
16	8th year maintenance	2033-34	2.10	0.092	Ha	0.193	
17	9th year maintenance	2034-35	2.10	0.101	Ha	0.213	
18	10th year maintenance	2035-36	2.10	0.111	Ha	0.234	
	Sub Total					9.742	
II	Chain Link Fencing						
1	Erection of Chain link fence around the CA area		681.0	0.01905	Rmt	12.9710	
2	Maintenance of Chain link fencing for 10 Years		681.0	0.002438	Rmt	1.6603	
	Sub Total					14.631	
	Total cost of Plantation					24.373	
III	SMC works (25% of total planting cost)			3.7664		6.0933	
IV	Monitoring and Evaluation 5% of total planting cost			1.2187		0.7316	
V	Administration cost @ 10% on total plantation cost (Wages to NTM, DEO and other office expenditure)			2.437		2.4373	
	Grand Total:					33.64	
					Or	33.7	

COUNTER SIGNED

Chief Conservator of Forests
GUNTUR CIRCLE,
 GUNTUR.

11/cbo/1

Technical Officer
 22/5/23

Sd/-A. Chandra Sekhar,
 District Forest Officer,
 SPSR Nellore.

C.A. SCHEME FOR DEGRADED RUDAKOTA R.F AREA IN AN EXTENT OF 2.10 Ha., (DOUBLE THE DEGRADED RF AREA) IN KAVALI RANGE OF SPSR NELLORE DIVISION IN LIEU OF DIVERSION OF FOREST LAND FOR LAYING OPTICAL FIBER CABLE OVER AN EXTENT OF 1.01 Ha. IN RF AREAS OF NELLORE DIVISION IN FAVOUR OF M/S RELIANCE JIO INFO. COM.LTD.

Name of the Scheme: Degraded C.A (Laying OFC over an extent of 1.01 Ha. Of RF areas in Nellore division by M/s Reliance Jio Info com. Ltd.)

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 degraded forest twice in extent to the area being diverted or to the difference between forest land being diverted and available non-forest land, as the case may be double the extent when the land for Compensatory Afforestation is provided by the User Agency.

The C.A scheme is prepared with current wage rate i.e, FSR-2023-24 of Guntur Circle, to the extent of 2.10 Ha, (1.01 x 2 times) degraded RF area is identified at Compt.No.19 of degraded Rudrakonta RF of Kavali Range for raising of CA in lieu of Diversion of Forest land for Laying of OFC over an extent of 1.01 Ha. Ibn Nellore Division in favour of M/s Reliance jio info com. ltd.

Sl. No	Name of the Range	Name of the RF	Compt. No	Area proposed For C.A in Ha
1	2	3	4	5
1	Kavali	Rudrakota	19	2.10

The said area was inspected by the Forest Range Officer, Kavali and certified that the above Degraded Forest land is suitable for Afforestation purposes.

2. Implementing Agency: The District Forest Officer, SPSR Nellore and Forest Range Officer, Kavali 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 and Raising of nursery.

Treatment year-2: Raising of SMM Plantations and Erection of Chain link fencing around the Plantation .

Treatment Year-3: 1st Year Maintenance of SMM plantations and Chain link fencing.

Treatment Year-4: 2nd Year Maintenance of SMM plantations and Chain link fencing

Treatment Year-5: 3rd Year Maintenance of SMM plantations and Chain link fencing

Treatment Year-6: 4th Year Maintenance of SMM plantations and Chain link fencing

Treatment Year-7: 5th Year Maintenance of SMM plantations and Chain link fencing .

Treatment Year-8: 6th Year Maintenance of SMM plantations and Chain link fencing

Treatment Year-9: 7th Year Maintenance of SMM plantations and Chain link fencing

Treatment Year-10: 8th Year Maintenance of SMM plantations and Chain link fencing

Treatment Year-11: 9th Year Maintenance of SMM plantations and Chain link fencing

Treatment Year-12: 10th Year Maintenance of SMM plantations and Chain link fencing.

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 uprootal and before planting, digging of 45 cms cube pits for miscellaneous seedlings followed by one inter ploughing and soil working after planting provision is made for replacement of 15% casualties during the year of raising..

1st Year Maintenance of Plantation includes replacements of 10% casualties, Two inter ploughing, one circular weeding cum deep soil work and maintenance of chain link fencing in SMM plantation.

2nd Year Maintenance of plantation includes 10% Casualties two inter ploughing, one Circular weeding cum deep soil work and maintenance of chain link fencing

3rd Year Maintenance of plantation includes inter ploughing, Circular weeding cum deep soil work and maintenance of chain link fencing

4th Year maintenance of plantation fire tracing operations and maintenance of chain link fencing etc.,

5th Year Maintenance of plantation fire tracing operations and maintenance of chain link fencing etc.,

6th Year Maintenance of plantation fire tracing operations and maintenance of chain link fencing etc.,

7th Year Maintenance of plantation fire tracing operations and maintenance of chain link fencing etc.,

8th Year Maintenance of plantation fire tracing operations and maintenance of chain link fencing etc.,

9th Year Maintenance of plantation fire tracing operations and maintenance of chain link fencing etc.,

10th Year Maintenance of plantation fire tracing operations and maintenance of chain link fencing etc.,

Provision is made for watch and ward of the plantation on wages, starting from the month of planting to the end of 4th year maintenance 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 Narepi, Vepa, Nemalinara, Neeruddi, Tellamaddi, Red sander species etc., for site specific species @ 3x3 Espacement i.e., 1111 plants per Ha .

5. SMC works: It is proposed to carryout site specific SMC works like for digging of CCTs, CPTs, PTs etc., in the SMM plantations about 25% of the afforestation cost.

6. Chain link fencing: In the said CA proposals provision is made for chain link fencing, the area is with highly biotic pressure. Hence chain link fencing with 10 years maintenance is proposed.

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 Kavali Range and etc.,

8. Administration cost: Provision is made in the scheme @ 10% of the afforestation cost towards Maintenance of Government Vehicles, Engaging Data Entry Operator, Non Technical Maistry for Kavali Range & Division offices and other miscellaneous items like, cost of Stationery and maintenance of Computers etc.,

8. Cost of the Project: The total cost of the Project will be **Rs.33.70 lakhs** as per the details given in the Abstract statement enclosed.

Y. Mohan R
FOREST RANGE OFFICER
KAVALI

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District Forest Officer,
SPSR Nellore

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Sub-Divisional Forest Officer,
KAVALI.

Statement Showing the Compensatory Afforestation Scheme Proposals over an extent of 2.1 Ha CA area in degraded Rudrakota RF of Kavali Range in lieu of diversion of 1.01 Ha. Of forest land for laying of OFC by M/s Reilance Jio info com. Ltd. In Nellroe division

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	Grand Total:					33.64	
					Or	33.7	

Y. Mohan 12
FOREST RANGE OFFICER
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KAVALI.

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District Forest Officer,
SPSR Nellore.

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 22/5/23

ABSTRACT ESTIMATE

Estimate for erection of Chain link fencing about 681 Rmt length and 1.50Mts height around proposed 2.64 Ha CA land in degraded Rudrakota RF of Kavali Range.

Sl. No	Qty.	Units	Description of work	Rate	Per	Amount
1	2	3	4	5	6	7
1	33.99	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, planing, strutting etc., complete for finished item of work including seigniorage excluding dewatering charges etc as per SS -20b (APSS 308)	202.64	Cum	6888
2	33.99	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	6097.95	Cum	207267
3	681.00	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	1019.54	Rmt	694310
			Sub total			908465
			GST @ 12% of estimate cost			109016
			Labour Cess @ 1% of estimate cost			9085
			Contingencies @ 5% on estimate cost			45423
			Total cost			1071988

Unit cost for 2022-23 1071988
Add 10% for 2023-24 1179187
Add 10% for 2024-25 1297106
Rate per 1 Rmt 1904.7000 Rmt

Y. Mohan Reddy
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Sub-Divisional Forest Officer,
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District Forest Officer,
SPSR Nellore.

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22/5/23

DETAILED ESTIMATE

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)						
		681.0					
	For Fencing Angels @ Every 3mtr Intravals	227	0.45	0.45	0.45	20.69	
	Support Angels @ Every 10th Angle (681/10x2= 136)	136	0.45	0.45	0.45	12.39	
	Support Angulars in corners and addl support	10	0.45	0.45	0.45	0.91	
	Total Qty					33.99	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 =290 RMT as per sketch						
	For Fencing Angels @ Every 3mtr Intravals	227	0.45	0.45	0.45	20.69	
	Support Angels @ Every 10th Angle	136	0.45	0.45	0.45	12.39	
	Support Angulars in corners and addl support	10	0.45	0.45	0.45	0.91	
	Total Qty					33.99	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	681.0	-	-	681.0	Rmt

y. rao
FOREST RANGE OFFICER
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Sub-Divisional Forest Officer,
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District Forest Officer,
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22/5/23

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 Seignorage	Total (6+9+10)	Unit Per
1	2	3	4	5	6	7	8	9	10	11	13
1	Cost of Cement	SSR 2022-23	Local	5	4220.00	54.10	20	33.80	0	4253.80	1 MT
2	Cost of Sand (Unscreened)	M-005	Kovur	50	605.00	696.00	36.000	660.00	100	1365.00	1 Cum
3	Cost of 20 mm Metal	M-53 MAT-00218	Kovur	50	1565.00	671.90	36.00	635.90	100	2300.90	1 Cum
4	Cost of stee Fe 500	ENC, PH&ME, Guntur No. Lr No C.Memo.No. 146/T4/AE/steel/2022dt. 17-5-2022	Local	5	64000.00	54.10	20	33.80	0	64033.80	1 MT

Y. Vasanth R
FOREST RANGE OFFICER
KAVALLI
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 Superintendent.

Sub-Divisional Forest Officer,
KAVALLI.

District Forest Officer,
SPSR Nellore
 22/5/23

DATA SHEET -SSR 2022-23

Item Code	Description of Item	Per	Unit	Rate	Amount
BLDCSTN-2-1	Excavation for Structures				
	Earth work excavation for foundation and depositing on bank for all lifts with an initial lead of 10m including all operational, incidental, labour charges such as shorting, sheeting, planking, strutting etc., complete for finished item of work including seigniorage excluding dewatering charges etc as per SS -20b (APSS 308)				
	Ordinary soil				
	Manual Means Upto 3 m depth				
	Unit = cum				
	Taking output = 10 cum				
	a) Labour				
	Mate	day	-		
	Mazdoor (Unskilled)	day	3.64	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	4.254	1169.80
BLD-CSTN-3-12	Coarse aggregate 20mm	cum	0.90	2300.90	2070.81
	Fine aggregate (Sand)	cum	0.48	1365.00	655.20
	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				5367.21
	Overheads & Contractors Profit			13.615%	730.74
Grand Total				6097.95	
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	64.03	6749.16
	ii) Runner flat 50 x 5 mm (Proportionate weight for 1.50Mts).	kg	29.97	64.03	1919.09
	iii) Hot Dipped Galvanised Chain Link Mesh 8 Gauge (4mm) as per IS 2721-1979 3" X 3" mesh 8 gauge or 75 mm x 75 mm mesh (30 mtrX1.5 Mtr) (Item No. BMT-F.22.)	Sqm	45.00	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				26921.04
	Overheads & Contractors Profit			13.615%	3665.30
Cost for 30 metre = a+b+c+d+e+f				30586.34	
Rate per metre = (a+b+c+d+e+f)/30				1019.54	

Y. N. Mohan 12
FOREST RANGE OFFICER
KAVALL

Sub-Divisional Forest Officer,
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District Forest Officer,
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22/5/23

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PRIMARY BEDS


STANDARD UNIT COST FOR RAISING OF PRIMARY BEDS FOR RAISING OF NTSHS SPECIES (As per FSR 2023-24)

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	2.02	Bed/ 333 Nos.	6.67
2	1100 Nos.	Digging soil to a depth of 30 cm	01-02-003	60.12	Bed/ 333 Nos.	198.59
3	1100 Nos.	Cost of sandy soil 50% of dugged quantity and transportation taken from private lands, with 5 kms lead loading and unloading charges by manual means (Sandy soil and FYM. in 5:1 proportion) 0.125 cum per bed	01-02-004	49.30	Bed/ 333 Nos.	162.85
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	16.80	Bed/ 333 Nos.	55.50
6	1100 Nos/ 6.30 Kgs	Cost of seed Nallamaddi @ Rs.131.81/Kg. 175 seedlings per Kg seed	Actuals	150.26	Kg	946.64
7	1100 Nos.	Sowing of seed and covering the bed with hay including cost and conveyance to a thickness of 2.5 cm.	01-02-008	19.09	Bed/ 333 Nos.	63.06
8	1100 Nos./ 2 months	Watering the primary nursery beds with rose water cans for a maximum period of 2 months. 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	21.42	Bed/ 333 Nos/ month	141.51
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	3.20	Bed/ 333 Nos/ time	21.14
10	1100 Nos.	Contingences such as cost of pipes, nursery board, electricity bills etc - 10% of estimate cost	01-05-035			176.00
			Total :			1937.13

Unit Cost for Bed (Misc. Species) 1.94
 Add 10% for 2024-25 0.19
 Unit Cost for 2024-25 2.13
 Unit Cost for 2025-26 2.35


 FOREST RANGE OFFICER
 KAVALLI


 Sub-Divisional Forest Officer,
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 SPSR Nellore.
 22/5/23

**STANDARD UNIT COST FOR RAISING OF 6"X12" NTSH & RED SANDERS BAG PLANTS
NURSERY (As per FSR 2023-24)**

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	20.54	Bed/ 1100	20.54
		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	849.39	1000 Nos.	934.33
		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	2056.63	1000	2262.29
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	217.810	1000	239.59
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	503.26	Bed/ 1100/ month	2287.55
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	77.59	Bed/ 1100/ weeding	141.07
8	1000 Nos./ 1 time	Shifting & grading and rearranging in beds for 10mx1m size bed (6x12 bags-1100 Nos) only once	01-05-024	427.94	Bed/ 1100/ shifting	389.04
9		Cost of chemicals, insecticides, pesticides etc.,	01-05-025	Actuals		400.00
10	1000 Nos./ 1 time	Cost of cow dung slurry	01-05-033	As per actuals		400.00
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	322.36	1000/ time	322.36
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	43.71	Rmt	1092.75
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	490.00	Day	637.00
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.		1057.00
		Total :				11632.82

A- Unit cost per primary bed 2.13
B- Unit cost per bag plant 11.63
Total unit cost per bag plant (A+B) 13.76

Add 10% for 2024-25 15.14
Add 10% for 2025-26 16.65
Add 10% for 2026-27 18.32 Each bag plant

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STANDARD UNIT COST FOR MAINTENANCE OF 6"X12" NTSH & RED SANDERS BAG PLANTS (As per FSR 2023-24)

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	402.62	Bed/ 1100/ month	1464.07
2	1000 Nos./ 4 times.	Weeding maximum four times during maintenance year for 10mx1m size bed (2600-4"X7" bags; 1700-5"X9" bags; 1100-6"X12" bags and 800-8"X12" bags)	01-05-030	77.59	Bed/ 1100/ weeding	282.15
3	1000 Nos./ 2 times	Shifting and grading and re-arranging in beds for 10 m 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	427.94	Bed/ 1100/ shifting	778.07
4	1000 Nos./ 2 times	Cost of cow dung slurry	01-05-033		Actuals	900.00
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	322.36	1000/ time	644.72
		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	201.32	Bed/ 1100/ month	732.07
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	427.94	Bed/ 1100/ shifting	778.07
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	490.00	Day	948.00
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	326.00
			Total :			6853.16

Unit cost per bag plant 6.85
 Add 10% for 2024-25 0.69
Unit Cost for 2024-25 7.54
 Unit Cost for 2025-26 8.22
 Unit Cost for 2026-27 9.05
 Unit Cost for 2027-28 9.95 Each bag plant

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Standard Unit Cost for Advance Operations in Nellore Division of Guntur Circle (As per FSR 2023-24)

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	490.00	Day	490.00
		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	12766.76	Ha	12766.76
3	150	Formation of sector lines/ inspection paths/ fire lines of a width of 3m by giving surface treatment (sector to be in conformity with slope direction). All stumps to be cut to ground level. Applicable for plantations other than SMM	02-05-006	8.99	Rmt	1348.50
		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	32243.44	Ha	32243.44
		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	16676.38	Ha	16676.38
6		Contingencies				1474.92
		Total Cost				65000.00

Unit cost for 2023-24 65000.00 Per Ha
 Add 10% for 2024-285 71500.00 per Ha

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Standard Unit Cost for 1st Year Maintenance of NTSH Plantations under SMM Method for NTSH & Red Sanders Unit cost in Nellore Division of Guntur Circle (As per FSR 2023-24)

Sl. No	Qty	Details of work	FSR Item No.	Per	Unit	Amount
(1)	(1)	(2)	(3)	(4)	(5)	(6)
		1st YEAR MAINTENANCE OF PLANTATIONS IN OTHER THAN SANDY SOILS:				
1		Replacement of Casualties 10% in 1st year maint. (watering applicable)	02-07-001			
	111	a) Reopening of pits		1355.00	100 Nos	1504.05
	111	b) Transportation of seedlings.		218.39	100 Nos	242.41
	111	c) Internal transport		135.35	100 Nos	150.24
	111	d) Planting		644.71	100 Nos	715.63
		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	3.71	Plant per time	8243.62
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	5.55	a) Cost of SSP @ 50 Grams/Pit - 8.35 Kgs/Ha		35.00	Kg	194.25
5	2.22	a) Cost of DAP @ 20 Grams/Pit - 1 Kgs/Ha		50.00	Kg	111.00
6	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	02-07-003	57.90	100 Nos	643.27
		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	5519.35	Ha	5519.35
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	967.08	100 Nos	10744.26
10	150	Creation of Fire lines 3 mts wide	02-07-014	8.99	Rmt	1348.50
11	1000	Pruning of lower foliage/ branches of NTFP /NTSH/Misc species like kanuga, Neem, Usiri, Seethaphal etc., plants upto 1/3rd height.	02-07-015	183.03	100 Nos	1830.30
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	490.00	Day	7644.00
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	1980.53
		Total Cost				45712.95

Unit cost for 2023-24 45712.95
 Add 10% for 2024-25 50284.24
 Add 10% for 2025-26 55312.67
 Add 10% for 2026-27 60843.93

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Standard Unit Cost for 2nd Year Maintenance of NTSH Plantations under SMM Method for NTSH & Red Sanders Unit cost in Nellore Division of Guntur Circle
(As per FSR 2023-24)

Sl.No	Qty	Details of work	FSR Item No.	Per	Unit	Amount
(1)	(2)	(3)	(4)	(5)	(6)	(6)
		2nd YEAR MAINTENANCE OF PLANTATIONS IN OTHER THAN SANDY SOILS/SEMI MECHANICAL METHOD:	02-08:			
1		Replacement of Casualties 10% in 1st year maint. (watering applicable)	02-07-001	1355.00	100 Nos	1504.05
	111	a) Reopening of pits		218.39	100 Nos	242.41
	111	b) Transportation of seedlings.		135.35	100 Nos	150.24
	111	c) Internal transport		644.71	100 Nos	715.63
	111	d) Planting				
1	167	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	57.90	100 Nos	96.69
2		Cost of Chemical fertilisers (50 grm SSP for basal dressing, 20 grm DAP for backward plants).	02-08-001	35.00	Kg	194.25
	5.55	a) Cost of SSP @ 50 Grams/Pit - 14 Kgs/Ha		50.00	Kg	111.00
	2.22	a) Cost of DAP @ 20 Grams/Pit - 6 Kgs/Ha				
3	1111	Circular weeding cum deep soil working to a radius of 0.5 m and to a depth of 15 cm around the plant to be done with pick axes for the plants planted in pits without disturbing the soil around the plant to 10 cm wide but weeding that part of area by hand and formation of saucer in hard gravellary soils.	02-08-004	967.08	100 Nos	10744.26
		Inter ploughing				
4	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	5519.35	Ha	5519.35
5	1.00	2nd Inter ploughing with heavy duty tractor of 45 HP to a depth of 30 cm in hard gravellary soils	02-08-008	5519.35	Ha	5519.35
6	150	Creation of sectorlines/inspection paths/ fire lines 3 mts wide around the plantation	02-08-012	8.99	Rmt	1348.50
7	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	3.71	Plant per time	8243.62
8	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	490.00	Day	7644.00
9	1000	Pruning of lower foliage/ branches of NTFP /NTSH/Misc species like kanuga, Neem, Usiri, Seethaphal etc., plants upto 1/3rd height.	02-08-015	183.03	100 Nos	1830.30
10		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	2193.00
		Total Cost				46056.65

Unit Cost for 2023-24 46056.65
 Add 10% for 2024-25 50662.32
 Add 10% for 2025-26 55728.55
 Add 10% for 2026-27 61301.00
 Add 10% for 2027-28 67431.00

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**Standard Unit Cost for 3rd Year Maintenance of NTSH Plantations under SMM Method for NTSH & Red Sanders Unit cost in Nellore Division of Guntur Circle
(As per FSR 2023-24)**

Sl. No	Qty	Details of work	FSR Item No.	Per	Unit	Amount
(1)	(2)	(3)	(4)	(5)	(6)	(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	967.08	100 Nos	10744.26
		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	5519.35	Ha	5519.35
3	150	Creation of sectorlines/inspection paths/ fire lines 3 mts wide around the plantation	02-09-008	8.99	Rmt	1348.50
4	1 No./ 12 months	Cost of Protection. One watcher is allowed for 20 Ha plantation. If the area is less prior approval of Circle Head is required. Wage rate fixed by the Dist. Collector per day.	02-07-017	490.00	Day	7644.00
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	183.03	100 Nos	2033.46
6		Contingencies for Enumeration of survivals in plantation including cost of paints, replacement of broken stones, plantation boards etc.	02-09-012	As per actuals subject to maximum of 5% of estimate cost during maint. year		1337.00
		Total Cost				28626.57

Unit Cost for 2023-24 28626.57
 Add 10% for 2024-25 31489.23
 Add 10% for 2025-26 34638.00
 Add 10% for 2026-27 38102.00
 Add 10% for 2027-28 41912.00
 Add 10% for 2028-29 46103.00 Ha

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Standard Unit Cost for 4th Year Maintenance of NTSH Plantations under SMM Method for NTSH & Red Sanders Unit cost in Nellore Division of Guntur Circle (As per FSR 2023-24)

Sl. No	Qty	Details of work	FSR Item No.	Rate	Per	Amount
(1)	(2)	(3)	(4)	(5)	(6)	(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	8.99	Rmt	1348.50
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	490.00	Day	7644.00
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	183.03	100 Nos	2033.46
4		Contingencies for Enumeration of survivals in plantation including cost of paints, replacement of broken stones, plantation boards etc.	02-10-004	As per actuals subject to maximum of 5% of estimate cost during maint. year		551.25
		Total Cost				11577.21

Unit Cost for 2023-24	11577.00	Ha
Add 10% for 2024-25	12735.00	Ha
Add 10% for 2025-26	14009.00	Ha
Add 10% for 2026-27	15410.00	Ha
Add 10% for 2027-28	16951.00	Ha
Add 10% for 2028-29	18646.00	Ha
Add 10% for 2029-30	20511.00	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 in Nellore Division of Guntur Circle
(As per FSR 2023-24)**

Sl. No	Qty	Details of work	FSR Item No.	Rate	Per	Amount
(1)	(2)	(3)	(4)	(5)	(6)	(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	8.99	Rmt	1348.50
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	183.03	100 Nos	2033.46
4		Contingencies for Enumeration of survivals in plantation including cost of paints, replacement of broken stones, plantation boards etc.	02-10-004	As per actuals subject to maximum of 5% of estimate cost during maint. year		169.05
		Total Cost				3551.01

Unit Cost for 2023-24	3551.00	Ha	
Add 10% for 2024-25	3906.00	Ha	
Add 10% for 2025-26	4297.00	Ha	
Add 10% for 2026-27	4727.00	Ha	
Add 10% for 2027-28	5200.00	Ha	
Add 10% for 2028-29	5720.00	Ha	
Add 10% for 2029-30	6292.00	Ha	
Add 10% for 2030-31	6921.00	Ha	5th year
Add 10% for 2031-32	7613.00	Ha	6th year
Add 10% for 2032-33	8374.00	Ha	7th year
Add 10% for 2033-34	9211.00	Ha	8th year
Add 10% for 2034-35	10132.00	Ha	9th year
Add 10% for 2035-36	11145.00	Ha	10th year

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Data sheet for Maint., of Chain Link Fencing around CA Area

Sl. No.	Qty.	Description of work	2023-24 FSR Item No.	Rate	Per/ Unit	Amount
1	2	3	4	5	6	7
1	1021.5	Salvaging of old chain link (681*1.50 = 1021.5 sqmt)	05-05-004	6.53	1 sqmt	6670.40
2		Contingencies	02-13-003		LS	99.99
		Total				6770.39

Unit cost for 2023-24	6770.39	
Add 10% for 2024-25	7447.42	
Add 10% for 2025-26	8192.17	OR
Add 10% for 2026-27	9011.38	1st Year
Add 10% for 2027-28	9912.52	2nd Year
Add 10% for 2028-29	10903.77	3rd Year
Add 10% for 2029-30	11994.15	4th Year
Add 10% for 2030-31	13193.57	5th Year
Add 10% for 2031-32	14512.92	6th Year
Add 10% for 2032-33	15964.21	7th Year
Add 10% for 2033-34	17560.64	8th Year
Add 10% for 2034-35	19316.70	9th Year
Add 10% for 2035-36	21248.37	10th Year
	166028.20	

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