

COMPENSATORY AFFORESTATION SCHEME PROPOSALS FOR RAISING OF 152.00 Ha., CA PLANTATION IN GANGARAM RANGE IN LIEU OF DIVERSION OF 151.8519 Ha. FOREST LAND FOR CONVERTING UG RIGHTS TO SURFACE RIGHTS FOR THE PROPOSED JK OC MINE (JK-5 OC MINE AND 21 INCLINE MINE) AT YELLANDU DIVISION IN FAVOUR OF M/s. SINGARENI COLLERIES COMPANY LIMITED IN GUDURU (W.L.M.) DIVISION.

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I. INTRODUCTION:

The Principal Chief Conservator of Forests (HoFF), Telangana State, Hyderabad has forwarded the proposals for submission of Compensatory Afforestation Scheme in lieu of diversion of 151.8519 Ha. of forest land for converting UG Rights to Surface Rights for the proposed JK OC Mine (JK-5 OC Mine and 21 Incline Mine) at Yellandu Division in favour of M/s. Singareni Collieries Company Limited, General Manager, Yellandu Area, Bhadradi Kothagudem District in Guduru (WLM) Division and the following degraded forest areas and certified the suitability. The details are as follows.

Sl. No.	Range	Bit No.	Beat	Section	Block	Compt. No.	Net area available
1	Gangaram	1	Kamaram	Mamidiguda	Chinthaguda	925, 912 & 911	65.66
2	Gangaram	2	Jangalapally (North)	Komatlaguda	Chinthaguda	898 & 913	65.39
3	Gangaram	3	Mamidiguda (West)	Mamidiguda	Chinthaguda	928 & 923	25.22
						Total :	156.27

In lieu of diversion of Forest land over an extent 151.8519 Ha. for M/s. Singareni Collieries Company Limited of Yellandu Forest Division, an extent of 152.00 Ha. is proposed for treatment and improvement in Gangaram Range of Guduru (W.L.M.) Division.

The degraded forest area where the growth is less than 0.4 density is proposed for treatment under Afforestation Scheme including Raising of plantations, Soil and Moisture Conservation works and Reserve Forest Boundary Demarcation.

Certain degraded areas, comprise of Barren Hillocks are proposed for Raising of Barren Hill Afforestation plantations. Digging of Continuous Peripheral Trench all along the boundary of the degraded forest block area and other protective operations are proposed to be taken up with a twin objective of moisture conservation, improvement of existing growth and boundary demarcation. Scheme is prepared with an outlay of **Rs.2063.005 Lakhs** for development of Degraded Forest area.

Accordingly, an Action Plan for raising of Compensatory Afforestation plantations in degraded forest areas of Compartment Nos.927, 925, 911, 913, 898, 928 & 923 of Chintaguda Reserve Forest, Gangaram Range of Guduru (W.L.M.) Division is Prepared with an outlay of **Rs. 1031.503 Lakhs** for raising miscellaneous Plantations and related activities.

PROJECT COST :

The total financial out lay of the project is as follows:

S.No	Scheme Proposals	Cost in Lakhs
1	Afforestation Works	628.555
2	Soil and Moisture Conservation Plan	67.530

3	Protection Measures	194.395
4	Publicity and Awareness	50.473
5	Nursery Infrastructure	30.000
6	Out Sourcing of Technical Expert / Computer Operator	24.300
7	Administrative Cost @ 5%	36.250
	Total:	1031.503

LOCATION OF THE AREA PROPOSED FOR COMPENSATORY AFFORESTATION IN DEGRADED FOREST AREA:

A: The Compensatory Afforestation Scheme is aimed at improvement of the density and ultimately quality of Forests. With this in mind, degraded Forest area of Compartment Nos. 927, 925, 911, 913, 898, 928 & 923 of Chintaguda Reserve Forest, Gangaram Range of Guduru (W.L.M.) Division is proposed for treatment. In general the above Compartment is having good degraded and coppice natural growth of Billudu, Nalla Maddi, Vepa, Tuniki, Chennangi, Kodisa, Tirumanu, etc., Natural regeneration is taking place but due to continuous biotic pressure on the land and fire it is not getting established.

It is proposed to stabilize such growth. Suitable areas were identified for treatment with appropriate interventions as the area has become degraded due to excessive biotic interference. The excess biotic interference has disturbed the ecological cycle as all the Bio-diversity including fauna and flora have been damaged to a great extent. There is every need to rehabilitate and protect the environment for the sake of Bio-diversity. Number of cattle enter into the Forests from nearby villages for grazing and uncontrolled removal of fuel wood and poles for household purposes.

LEGAL STATUS OF THE PROPOSED CA AREA:

The proposed CA areas in Compartment Nos. 927, 925, 911, 913, 898, 928 & 923 of Chintaguda Reserve Forest, Gangaram Range of Guduru (W.L.M.) Division is notified Under Section 15 of Andhra Pradesh Forest Act, 1967 vide G.O.Ms. No.668, dt:08.07.1355F of Chintaguda Reserve Forest, Under Section 15 of Andhra Pradesh Forest Act, 1967 vide G.O.Ms.No.1711, dt:18.09.1969 and Under Section 4 of Andhra Pradesh Forest Act, 1967 vide G.O.Ms.No.84, dt:08.09.1354F respectively.

The compartment wise areas are as follows:

Sl. No.	Bit No.	Compt. No.	Reserved Forest Block	Total Area of the Block (In Ha.)	Net area proposed for treatment available (In Ha.)	Species in the area
1	1	925, 912 & 911	Chintaguda Reserve Forest	18363.12	156.27	The area is covered with degraded coppice growth of misc. species like Billudu, Nalla Maddi, Vepa, Tuniki, Chennangi, Kodisa
2	2	913, 898				
3	3	928 & 923				
				G-Total:	156.27	

Further, it is submitted that, the net area proposed for treatment is 156.27 Ha., out of that only 152.00 Ha., is feasible for planting, accordingly LIM Planting is proposed in the above areas.

Further, it is submitted that, the net area proposed for treatment is 156.27 Ha., out of that only 152.00 Ha., is feasible for planting, accordingly LIM Planting is proposed in the above areas.

The selected areas consists of gentle slopes, some are degraded plain areas with accessibility to roads and are degraded mainly due to biotic interference and are found suitable for Compensatory Afforestation. Most of these areas were retrieved from illegal encroachers and if not immediately brought under afforestation, there is possibility of encroachment.

SOIL DESCRIPTION AND TERRAIN:

In the proposed area, the soils are eroded and are ranging from Black Soil, Sandy loam with some hillocks here and there. There are several streams and streamlets running downwards from the hillocks causing soil erosion.

FLORA AND FAUNA:

In the proposed degraded Forest area the species available are mainly degraded coppice growth of Billudu, Nalla Maddi, Vepa, Tuniki, Chennangi, Kodisa, Tirumanu, etc., The Wild animals found in the selected area (Bison), Spotted Deer, Chousingha etc.,. Thus steps such as restoration of the vegetation, provision of sufficient water sources to the wild animals, provision of fodder and legume and overall protection is proposed..

TREATMENT MODELS:

It is proposed to treat the Degraded Forest areas under the following Treatment models. It is proposed to treat the Degraded Forest areas under the following Treatment models.

- a) Model-I : Protection of Reserve Forests by Protection from Fire.
- b) Model-II: Artificial Regeneration

(i) Raising of plantations in degraded forest areas

152.00 Ha of degraded area identified in Gangaram Range of Guduru (W.L.M.) Division was proposed for taking up afforestation works.

The above Afforestation and Reforestation works shall be carried out either by involvement of VSS members or through Departmental execution.

I. Model I: Demarcation of Permanent Forest Boundaries in the form of Cattle Proof Trench (CPT) and Improvement of Soil Moisture by way of SMC works:

- a) Most of these areas identified for Compensatory Afforestation area are having good viable root stock. Offering absolute protection to these degraded areas from biotic pressure is the best course of action for developing the area into productive forests. Continuous peripheral Trench all along the boundary of the Compensatory Afforestation area is proposed to be taken up with a twin objective of moisture conservation and boundary demarcation. Wherever it is not possible to dig a trench due to striking of hard stratum of rock, it is proposed to take up stone wall with rubble masonry or Erection of chain link fence as per filed conditions and local availability of materials.
- b) Fire management will also form an important part of the forest management and stand improvement strategy. Protection of these areas from fire, grazing and illicit felling is

absolutely essential to improve the stand and it is proposed to be ensured either through Vana Samrakshana Samithies (VSS) or Departmental execution. Therefore, 5mtr wide fire lines are proposed in the above identified area.

c) Digging of Percolation Tanks wherever required in the identified degraded forest area where the existing 2nd order nallahs are there.

d) **Artificial Regeneration**

RAISING OF PLANTATIONS – PLANTING ON PLAINS/DEGRADED FOREST AREAS

To compensate the loss of Valuable forest growth in the Diverted Reserved forest areas, it is proposed to raise certain plantations in the degraded forest areas.

a. **NON TEAK SECONDARY HARDWOOD SPECIES (NTSH) PLANTATIONS:**

It is proposed to raise the above model of plantation under **Labour Intensive Method (LIM)** through intensive site preparation practices. The operations to be carried out are Survey and demarcation, clearing the miscellaneous jungle growth, Digging of Staggered contour Trenches and planting at 3 X 3 m espacement in 45 centimeter cube pits. All other cultural operations like Weeding's, Soil workings, manuring etc., will be provided for Seven years excluding raising year duly following the PCCF instructions.

II. Soil and Moisture Conservation Plan:

- (i) Construction of percolation tanks depending upon the terrain
- (ii) Provision for solar bore wells with pump facility and over head tank for providing water to the wild animals.
- (iii) Construction of Check Dams
- (iv) Construction of Rock Fill Dams
- (v) Erection of Solar Bore Well with construction of Percolation Tank

III. Protection Measures:

- (i) Purchase of Vehicles and maintenance of vehicles for patrolling in Reserve Forest areas
- (ii) Establishment of Base Camps for monitoring the DFL areas.

IV. Publicity and Awareness

- (i) Conducting of Pre-fire season workshops and awareness meetings.
- (ii) Construction of Watch Towers and Supervisory Huts
- (iii) Erection of Hoardings for awareness to public on wildlife habitats.

Administrative Costs (Over Heads)

As the work involved is a massive one and involves lot of record maintenance, book keeping and intensive mobility of the field officers, it is required to provide 10% of treatment cost towards over heads.

PROJECT COST:

The total financial out lay of the project is **Rs. 1031.503 Lakhs**

The annual requirement of funds have been worked out on the base cost of 2021-22 FSR with 10% annual escalation for the remaining project period up to 2032-33.

The component wise details in brief are as follows.

S.No	Scheme Proposals	Cost in Lakhs
1	Afforestation Works	628.555
2	Soil and Moisture Conservation Plan	67.530

3	Protection Measures	194.395
4	Publicity and Awareness	50.473
5	Nursery Infrastructure	30.000
6	Out Sourcing of Technical Expert / Computer Operator	24.300
7	Administrative Cost @ 10%	36.250
	Total:	1031.503

MODE OF EXECUTION:

It is proposed to implement the above proposals through VSS on Joint Forest Management concept or by Departmental execution method wherever possible. In addition to the existing staff of Forest Department with required logistic support, necessary manpower required for effective implementation of the project will be hired through outsourcing.

Digging of Peripheral trench work, SMC works and other Afforestation works are being carried out in the above said proposed degraded forest area through ongoing Schemes. Hence, left over works if any as per this scheme will be carried out in the adjoining Forest Blocks of Gangaram and Kothaguda Ranges.

Annexure:

Annexure	I	Abstract of Compensatory Afforestation Scheme in Degraded Forest Area.
Annexure	II	Year wise Estimated cost Compensatory Afforestation in Degraded Forest Area.
Annexure	III	Unit cost Data sheets

(FAC) District Forest Officer,
Mahabubabad.

Handwritten signature and date: 6/5/2022

Abstract of CA Scheme to restock and rejuvenate the 152 ha of degraded open forest land in lieu of diversion of 151.8519 Ha. of forest land for converting UG rights to Surface rights for the proposed JK OC Mine (JK-5 OC Mine & 21 Incline Mine) at Yellandu Division in favour of M/s. Singareni Collieries Company Limited

Sl. No	Scheme Proposals	Cost in Lakhs	
		Phy	Fin (Rs.in Lakhs)
1	2	51	52
I	I.Afforestation Works		
1	Rasing of nursery works	253270	147.806
2	Raising of Plantations under LIM	104	480.749
			628.555
II	II.Soil & Moisture Conservation Works		
1	Construction of Percolation Tanks	4	23.650
2	Construction of Check Dams	2	21.000
3	Construction of RFDs	40	4.400
4	Digging of borewell with solar panels	2	18.480
			67.530
III	III. Protection Measures		
1	Purchase of petrolling Vehicle for monitoring around the plantation areas along with maintenance of vehicle and wages for drivers	1	134.113
2	Establishment of two base camps to monitor the DFL area and adjoining RF areas to curb the encroachments and smugglings of forest produces etc.	1	60.282
	Sub Total:		194.395
IV	IV.Publicity And Awareness		
1	Pre-Fire Season Workshops and awareness meetings	2	0.486
2	Publicity and awarness on forest and wild life	2	0.486
3	Erection of hoardings	2	11.000
3	Construction of Watch Towers	1	22.000
4	Construction of Supervisory Huts	1	16.500
			50.472
V	V.Nursery Infrastructure		
1	Establishment of two Cetral Nursery at Kothaguda and Gangaram ranges including construction of seed stores and nursery infrastructure	1	20.000
2	Erection of solar power system at nursery site	1	10.000
			30.000
VI	VI.Out sourcing of Technical Expert / Computer Operator		
1	Engaging computer operators Division / Range Level for online programing of Project	1	24.300
		1	24.300
VII	Administrative Cost - 5%		36.250
			36.250
	Total year wise outlay of the project		1031.503

(FAC) District Forest Officer
Mahabubabad


4/6/17

Abstract of CA Scheme to re

Item of Work	2030-31			2031-32			2032-33			2033-34			2034-35			2035-36			Grand Total			
	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Fin (Rs.in Lakhs)		
2	33	34	35	36	37	38	39	40	41	39	40	41	39	40	41	39	40	41	51	52		
I. Afforestation Works																						
Raising of nursery works																						
Purchase of 6X8 seedlings minimum 30 cm height seedlings																				253270	28.417	
Conversion of bag plants from 6"x8" to 9"x11"																				253270	83.548	
Maintenance of Bag Plants of 9"x11"																				253270	35.840	
																				253270	147.806	
Raising of Plantations under LIM																						
Advance Operations																					104	93.618
Raising of Plantation																					104	102.534
1st Year Maintenance																					104	54.815
2nd Year Maintenance																					104	35.210
3rd Year Maintenance																					104	38.730
4th Year Maintenance																					104	22.581
5th Year Maintenance																					104	11.661
6th Year Maintenance																					104	24.610
7th Year Maintenance	152.00	9283	14.1100				0.00	11232	0.0000												104	14.110
8th Year Maintenance		17810		152.00	19591	29.7776	0.00	21550	0.0000	0.00	23705	0.0000									104	29.778
9th Year Maintenance		9283			10211		152.00	11232	17.0730	0.00	12355	0.0000	0.00	13591	0.0000						104	17.073
10th Year Maintenance		17810			19591			21550		152.00	23705	36.0309	0.00	26075	0.0000	0.00	28683	0.0000			104	36.031
Sub Total:			14.110			29.778			17.073			36.031			0.000			0.000	104	480.750		
			14.110			29.778			17.073			36.031			0.000			0.000			104	480.750
II. Soil & Moisture Conservation																						
Construction of Percolation Tanks																					4	23.650
Construction of Check Dams																					2	21.000
Construction of RFDs																					40	4.400
Digging of borewell with solar panels																					2	18.480
Sub Total			0.000			0.000			0.000													67.530
III. Protection Measures																						
Purchase of petrolling Vehicle for monitoring around the plantation areas along with maintenance of vehicle and wages for drivers																					1	134.113
Establishment of one base camps to monitor the DFL area and adjoining RF areas to curb the encroachments and smugglings of forest produces																					1	60.282

Sl. No	Item of Work	Unit	Unit Cost (Rs.)	2022-23		2023-24		2024-25		2025-26		2026-27		2027-28		2028-29		2029-30	
				Phy	Fin (Rs./in Lakhs)	Phy	Unit Cost	Fin (Rs./in Lakhs)	Phy	Unit Cost	Fin (Rs./in Lakhs)	Phy	Unit Cost	Fin (Rs./in Lakhs)	Phy	Unit Cost	Fin (Rs./in Lakhs)	Phy	Unit Cost
2	Establishment of one base camps to monitor the DFL area and adjoining RF areas to curb the encroachments and smugglings of forest produces	Nos	9.874	1	9.874	1	10.861	1	11.948	1	13.142	1	14.457						
	Sub Total				56.074		25.261		27.788		30.566		33.623		21.083		0.000		0.000
IV	IV. Publicity And Awareness																		
1	Pre-Fire Season Workshops and awareness meetings	LS	0.20	1	0.220	1	0.266	1	0.266										
2	Publicity and awareness on forest and wild life	LS	0.20	1	0.220	1	0.266	1	0.266										
3	Erection of hoardings	LS	3.00	2	5.500		6.050		6.555		7.321								
4	Construction of Watch Towers	LS	20.00	1	22.000		24.200		26.620										
5	Construction of Supervisory Huts	LS	15.00	1	16.500		18.150												
	Sub Total				49.940		0.000		0.532		0.000		0.000		0.000		0.000		0.000
V	V. Nursery Infrastructure																		
1	Establishment of one Central Nursery at Kothaguda/Gangaram ranges including construction of seed stores and nursery infrastructure	LS	20	1	20.000														
2	Erection of solar power system at nursery site	LS	10	1	10.000														
	Sub Total				30.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000
VI	VI. Out sourcing of Technical Expert / Computer Operator																		
1	Engaging computer operators Division / Range Level for online programming of Project	Nos	2.7	1	3.000	1	3.000	1	3.000	1	3.300	1	4.000	1	4.000	1	4.000	1	4.400
	Sub Total				3.000		3.000		3.000		3.300		4.000		4.000		4.000		4.400
VII	VII. Administrative Cost - 5%																		
	Sub Total				11.4034		9.4834		3.9283		1.7605		1.9365		1.1290		0.5831		1.2305
	Total year wise outlay of the project				348.485		227.412		113.815		70.836		78.290		48.793		16.244		25.840

Item of Work	2030-31			2031-32			2032-33			2033-34			2034-35			2035-36			Grand Total		
	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)
Establishment of one base camps to monitor the DFL area and adjoining RF areas to curb the encroachments and smugglings of forest produces																1					60.282
Sub Total			0.000			0.000															194.395
IV. Publicity And Awareness																					
Pre-Fire Season Workshops and awareness meetings																2					0.486
Publicity and awarness on forest and wild life																2					0.486
Erection of hoardings																2					11.000
Construction of Watch Towers																1					22.000
Construction of Supervisory Huts																1					16.500
V. Nursery Infrastructure			0.000			0.000															50.472
Establishment of one Cetral Nursery at Kobhaguda/Gangaram ranges including construction of seed stores and nursery infrastructure																1					20.000
Erection of solar power system at nursery site																1					10.000
VI. Out sourcing of Technical Expert / Computer Operator			0.000			0.000															30.000
Engaging computer operators Division / Range Level for online programming of Project		4.840	0.000		5.324	0.000		5.802	0.000							1					24.300
VIII. Administrative Cost - 5%			0.000			0.000			0.000												24.300
Total year wise outlay of the project			14.815			17.927			1.7471												36.250
																					1031.503


 (FAC) District Forest Officer
 Mahabubabad
 6/11/2020

Unit Cost for Raising of Misc., Nursery for the year 2021-22 as per FSR 2021-22

Sl. No.	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				As per FSR	Agency allowance 25%	Total		
1	2	3	4	5	6	7	8	9
26	01.03.19	CONVERSION of Root Trainer plants or 4"x7" or 5"x9" bag-plants into higher size bags - to be done during September - October. At the time of conversion, the height of the plants should be at least above 0.45m in height (excluding the height of polybag).						
	01.03.20	Cost and Transport of ingredients for Potting Mixture: Red Soil, tank-silt / clayey soil, FYM in 2:1:1 ratio. To this soil mixture, 220 gm of Indophyll M-45, 4.5 kg of single super phosphate (SSP) and 250 gm of phorate granules per 1 cum of potting mixture will be added. Cost of chemicals is as per actuals.						
	01.03.21	Cost & Transportation of soil mixture ingredients up to a distance of 5 km Distance up to 5 km						
	e	(e) 6" x 8" to 9" x 11" bags (4.717 - 1.433 = 3.284 cum)	500 Nos	1312.81	0.00	1312.81	1000 Nos	656.41
	01.03.22	Transportation of soil mixture ingredients more than 5 km distance and upto 25 km distance (15 Kms)						
	e	(e) 6" x 8" to 9" x 11" bags (4.717 - 1.433 = 3.284 cum)	500 Nos	33.18	0.00	33.18	1000 Nos	165.90
		Cost of Polybags (including the cost of certification by): To ensure quality control, the quality of bags have to be certified by CIPET (Central Institute of Plastic Engineering & Technology), Hyderabad at the cost of tenderer by taking samples from various lots of polybags.						
	01.03.03	23 cm x 28 cm (9" x 11") size bags of 400 g: 83 bags / kg	6.63 Kgs	168.00	0.00	168.00	1 Kg	1113.84
	01.03.24	Preparation of Potting Mixture by powdering of various ingredients, sieving and mixing them in prescribed proportion; opening of bags and filling with potting mixture partially, tearing the polybag plants and repotting them inside bigger bags and filling the rest of bags; gently pressing the same with finger tips and arranging in beds of 10x1 m size (6"x12" size: 1100 bag plants / bed and 8"x12" size": 800 bag plants per bed)						
	e	(h) 6" x 8" to 9" x 11" bags (4.717 - 1.433 = 3.284 cum)	500 Nos	2273.54	568.39	2841.93	1000 Nos	1420.97
	01.03.30	Stakes to be provided to plants in 8"x12", 9"x11", 10"x16" and 12"x13" bags with a minimum 1.50 mtr height	500 Nos	5250.00	1312.50	6562.50	1000 Nos	3281.25
	01.03.31	Weeding the plants (1100 no. of 6"x12"bags; 800 no. of 8"x12" bags; and 400 no. of 10"x16" bags; 300 Nos of 12"x13" bags) a) If the Conversion of small size bags into bigger size bag is done during May - June (i) 1st weeding - August (ii) 2nd Weeding - October (iii) 3rd weeding - December (iv) 4th weeding - February						
			1 Bed	55.29	13.82	69.11	1 Bed	69.11
			1 Bed	55.29	13.82	69.11	1 Bed	69.11
			1 Bed	55.29	13.82	69.11	1 Bed	69.11
			1 Bed	55.29	13.82	69.11	1 Bed	69.11
	01.03.32	Shifting, Grading and rearranging in secondary beds - One Grading in February 1st shifting and grading after every two months till the nursery stock is lifted	1 Bed	258.26	64.57	322.83	1 Bed/ Weeding	322.83
	01.03.33	Watering the plants manually twice a day (from Novemembr - March) with rose spray or finely perforated nozzle attached to a hose pipe. Watering from June - September (50% of the existing rate).						
	i	Manually with rose spray or finely perforated nozzle attached to a hose pipe Watering from September - March	1 Bed	150.58	37.65	188.23	1 Bed/ month	941.15
	i	(i) Manually with rose cans or finely perforated nozzle attached to a hose pipe	1 Bed	301.15	75.29	376.44	1 Bed/ month	1882.20
23	01.03.34	Cost of foliar nutrient formulations like multiplex or NPK-19:19:19; fungicides and insecticides from Dec to March.	1 Bed	As per actuals with a maximum limit of Rs. Rs. 2000/ per 1 lakh polybag seedlings.				10.00
	01.03.38	Contingencies for Raising Year towards the expenditure like cost of hose pipe, nursery boards, (store register for materials purchased to be maintained.)						302.00
	01.03.39	Contingencies for Electricity charges, Running & maintenance charges of oil engine (bills to be certified by DEO / FDO and a separate log book to be						350.00
24	01.05.04	Cost of Protection: One Nursery Watcher is allowed up to 1 lakh RT nursery or 100 secondary beds of polybags / 100 Teak beds of 10 x 1 m size or combination of both. One additional Nursery Watcher is permitted for nurseries having more than 1 lakh upto 3 lakh RT seedlings or more than 100 upto 300 secondary beds or Teak beds of 10 x 1 m size or combination of both. For more than 3 lakh RT or 300 secondary beds of Teak beds or combination of both another additional Nursery Watcher is allowed. While calculating the number of Nursery Watcher, care shall be taken to include the nursery raising under all Schemes at a particular site. No extra Nursery Watcher is allowed for primary beds of 1x1 m size. However, the above narrative is subject to the	1 No.	9654.59				1158.55
							S.TOTAL::	11881.54
							Conversion Unit Cost Unit Rate as per FSR 2021-22	
							Per seedling	
							23.76	
							Raising and Conversion Total::	
							23.76	

Sd/- T.Ravi Kiran.
(FAC) District Forest Officer
Mahabubabad

//t.c.b.o//

P. Nihalatti Girelan
Superintendent

Unit cost for Maint. Of Bag Plant nursery up to planting season (April to July)

Unit Cost Maintenance of Misc., Bag Plants (9x11) Nursery (Apr to Jul = 4 Months) as per FSR 2021-22

Sl. No.	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				Asper FSR	Agency allowance 25%	Total		
1	2	3	4	5	6	7	8	9
	01.04.00	MAINTAINANCE OF BAG PLANTS NURSERY UPTO PLANTING SEASON (APRIL TO AUGUST) for 10 m X 1 m size secondary beds (2600 Nos of 4" X 7" bags; 1700 Nos of 5" X9" bags ; 1100 Nos. of 6"X12" bags; 800 Nos. of 8"X12" bags; 400 Nos. of 10"x16" bags per bed)						
1	01.04.01	Watering polybag secondary beds twice a day for 4 months						
	a	Manually with rose cans or finely perforated nozzle attached to a hose pipe	1 x 4	Beds x month	301.09	75.27	376.36	1 Bed/ Month 1505.00
2	01.04.02	Weeding once during maintenance year	1	Bed	55.29	13.82	69.11	1 Bed 69.00
3	01.04.03	Shifting, grading and re-arranging in beds	1 x 2	Beds x shifting	258.26	64.57	322.83	1 Bed/shifting 646.00
	01.04.05	Cost of foliar nutrient formulations like NPK-19:19:19; fungicides and insecticides (from April - August)						22.00
4	01.04.06	Cowdung Slurry application (One can apply chemical foliar spray or apply cowdung slurry - not both)						
		(a) Cost and transportation of fresh cowdung	1	Bed	As per actual subject to maximum of Rs. 2500/-			27.50
5		(b) Application of cowdung slurry - once per month between April to June - Watering should not be done 12 hours before and after application of cowdung slurry treatment		Bed	By Nursery Watcher			0.00
6	01.04.07	Weeding in the space between the beds, inspection path and surroundings of Nursery	1	Bed	30.43	7.61	38.04	1 Bed 38.00
	01.04.08	Contingencies for Maintenance Year towards the expenditure like cost of hose pipe, nursery boards, etc (Store register for materials purchased to be maintained)		As per Actual				69.00
	01.04.09	Contingencies for Electricity charges, Running & maintenance charges of oil engine (Bills to be certified by DFO / FDO and a separate log book to be maintained for oil engine)		As per Actual				80.00
7	01.05.04	Cost of Protection: One Nursery Watcher is allowed up to 1 lakh RT nursery or 100 secondary beds of polybags / 100 Teak beds of 10 x 1 m size or combination of both. One additional Nursery Watcher is permitted for nurseries having more than 1 lakh upto 3 lakh RT seedlings or more than 100 upto 300 secondary beds or Teak beds of 10 x 1 m size or combination of both. For more than 3 lakh RT or 300 secondary beds of Teak beds or combination of both another additional Nursery Watcher is allowed. While calculating the number of Nursery Watcher, care shall be taken to include the nursery raising under all Schemes at a particular site. No extra Nursery Watcher is allowed for primary beds of 1x1 m size. However, the above narrative is subject to the provisions cited under general instructions.	1	No.	9654.59			385.20
S.TOTAL::								2841.70
Unit Rate as per FSR 2021-22::								2841.70
Unit cost per Seedling								5.68

Sd/- T.Ravi Kiran,
(FAC) District Forest Officer
Mahabubabad

//t.c.b.o// P. Lalitha
Superintendent
6/5/22

Unit Cost Maintenance of Misc., Bag Plants (9x11) Nursery (Aug to mar = 8 Months) as per FSR 2021-22

Sl. No.	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount	
				Asper FSR	Agency allowance 25%	Total			
1	2	3	4	5	6	7	8	9	
	1.05.00	MAINTENANCE OF BAG NURSERY FROM SEPTEMBER ONWARDS TILL DISPOSAL							
1	01.05.01	Watering the plants for 10 m X 1 m size secondary bed	1 x 8	Beds x month	185.99	46.50	232.49	1 Bed/ Month	1860.00
2	01.05.02	Shifting, grading and re-arranging in beds 1st shifting and grading after three months and consecutive shifting and grading after every two months till the nursery stock is lifted for 10 m X 1 m size bed - with prior written permission of Circle Head	1 x 2	Beds x shifting	258.26	64.57	322.83	1 Bed/ shifting	646.00
3	01.05.04	Cost of Protection: One Nursery Watcher is allowed up to 1 lakh RT nursery or 100 secondary beds of polybags / 100 Teak beds of 10 x 1 m size or combination of both. One additional Nursery Watcher is permitted for nurseries having more than 1 lakh upto 3 lakh RT seedlings or more than 100 upto 300 secondary beds or Teak beds of 10 x 1 m size or combination of both. For more than 3 lakh RT or 300 secondary beds of Teak beds or combination of both another additional Nursery Watcher is allowed. While calculating the number of Nursery Watcher, care shall be taken to include the nursery raising under all Schemes at a particular site. No extra Nursery Watcher is allowed for primary beds of 1x1 m size. However, the above narrative is subject to the provisions cited under general instructions.	1	No.	9654.59				385.20
S.TOTAL::								2891.20	
Unit Rate as per FSR 2021-22								2891.20	
Unit cost per Seedling								5.78	

11.47

Sd/- T.Ravi Kiran,
(FAC) District Forest Officer
Mahabubabad

//t.c.b.o// *P. Lalalalan*
Superintendent

Unit Cost for Advance Operations under Labour Intensive Method as per FSR 2021-22

Espacement 3 x 3 M

Name of the Species : NTSH

Sl. No.	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				Asper FSR	Agency allowance 25%	Total		
1	2	3	4	5	6	7	8	9
1	02.01.01	Survey with hand-held GPS (staff to carry out) and demarcation - one manday is allowed for assistance. The surveyed sketch with exact effective area statement will be uploaded in MIS platform by end of December.	1 No.	374.48	0.00	374.48	1 No.	374
2	02.01.02	Clearing unsalable unwanted jungle growth (leaving all the tree species of good form particularly the hardwood tree species like Teak, Nallamaddi, Yegisa, Narepa, Somi, Jitregi, Billudu, Chenangi etc. and NTFP species like Ippa, Morri, Tani, Karaka, Vepa, Maredu, Tapasi, Tuniki, Chinta, Usuri, Nallajeedi etc.); Spreading the cut material all over the site; and Burning the same twice till completely burnt. All the above operations should be completed before December.						
	b	<i>Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)</i>	0.5 Ha	3284.95	821.24	4106.19	1 Ha	2053
	c	<i>Light Jungle Growth (> 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on the field inspection of DFO.</i>	0.5 Ha	7717.50	1929.38	9646.88	1 Ha	4823
3		ALIGNMENT & STACKING INCLUDING DEMARCATION OF BASE LINE						
	02.01.05	(b) 3X3 m espacement = 1111 planting points	1111 Nos	93.82	23.46	117.28	100 Nos	1303
	02.01.04	<i>Cost of preparation of stakes (0.45 m length) and transportation to site</i>	1111 Nos	59.81	0.00	59.81	100 Nos	664
4		Digging of Pits - Manual (As per RSSR): All efforts shall be made to complete pitting works before March-end. Under exceptional circumstances (if the target of plantation is given in the month of March-April), the pitting can be done during June and July. But any pitting done during June-July, plants can only be planted after the pits are verified by field inspections of FROs and DFOs of proper dimensions to avoid simultaneous pitting and planting which may result in higher percentage of casualties.						
		Between January - March						
		a) Ordinary Soil						
	02.01.06	ii) 45 cm ³ pits	1111 Nos	23.70	5.93	29.63	1 Nos	32923
		<i>Digging of Staggered Contour Trenches (SCTs) for impounding rain water - Manual - Size: 3m Length, 0.45 m top-width, 0.30 m bottom-width and 0.45 m depth; earthwork volume per trench: 0.506 cum - Max. of 100 no. per ha. If they are made with machine, the works can be done by calling for tender. However, if they are intended to be done through machine, it has to be informed in advance. All the SCTs shall be completed before January.</i>						
	02.01.08	Between January - March						
	a	<i>Loamy and clayey soil like BC soils, red earth and chowdu soil</i>	50.6 Cum	306.55	76.64	383.19	1 Cum	19389
				Total unit rate arrived for the year 2021-22::				61529.00
				Unit cost for the year 2022-23:				67681.90

Sd/- T.Ravi Kiran,
(FAC) District Forest Officer
Mahabubabad

//t.c.b.g//
Superintendent

Unit Cost for Raising of NTSH Plantations under Labour Intensive Method as per FSR 2021-22

Espacement 3 x 3 M

Name of the Species : NTSH

Sl. No.	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				Asper FSR	Agency allowance 25%	Total		
1	2	3	4	5	6	7	8	9
	02.02.00	PLANTING OPERATIONS DURING RAISING YEAR						
	02.02.01	Transportation of Planting Stock (including loading and unloading) up to a distance of 5 km						
		(d) 23 X 28 cm (9"X11") bag plants	1111 Nos	268.03	0	268.03	100 Nos	2978
6	02.02.02	Transportation of Planting Stock (including loading and unloading) Total :: 30 KMs						
	b	(d) 23 X 28 cm (9"X11") bag plants	1111 Nos	9.42	0	9.42	100 Nos	2625
7	02.02.04	Internal transportation to planting points on head loads						
	b	(d) 23 X 28 cm (9"X11") bag plants	1111 Nos	173.08	43.27	216.35	100 Nos	2404
8	02.02.05	Application of 50 gm of SSP per pit (1 day before planting) for root growth and early establishment of plant after planting. ii) Similarly, the bag plants to be planted will be dipped inside Chloropyriphos solution (5ml Chloropyriphos in 1 lit water) either at nursery site before transport or at plantation site before planting	1111 Nos	41.23	10.31	51.54	100 Nos	573
9	02.02.06	Cost of SSP, Chloridine dust (50 gm) or Chloropyriphos	56 Kgs	15.00	0.00	15.00	1 Kg	840
10		Planting						
	02.02.08	45 cm3	1111 Nos	459.36	114.84	574.20	100 Nos	6379
	02.02.09	a) One critical watering after planting if planting takes place on non-rainy days with the prior written permission of DFO / FDO.	1111 Nos	278.11	69.53	347.64	100 Nos	3862
		b) 2nd watering if dry spell is more than 5-6 days after first watering on the day of planting with the prior written permission of Circle Head.	1111 Nos	278.11	69.53	347.64	100 Nos	3862
11	02.02.10	Replacement of Casualties: 20% during Raising Year. (In case of Eucalyptus: 10% during raising and no casualty replacement for further maintenance). The casualty replacement should be done in 3 stages at an interval of 15 days immediately after planting during raising year.						
	a)	Digging of Pits in Ploughed Areas in June - July by adopting 50% of original rate of digging of pits of ordinary soil						
	02.01.06	45 cm3 pits	222 Nos	23.70	5.93	29.63	1 No	6579
		PLANTING OPERATIONS DURING RAISING YEAR						
	02.02.01	Transportation of Planting Stock (including loading and unloading) up to a distance of 5 km						
		(d) 23 X 28 cm (9"X11") bag plants	222 Nos	268.03	0	268.03	100 Nos	595
6	02.02.02	Transportation of Planting Stock (including loading and unloading) Total :: 30 KMs						
	b	(d) 23 X 28 cm (9"X11") bag plants	222 Nos	9.42	0	9.42	100 Nos	525
c)	02.02.04	Internal transportation to planting points on head loads						
	b	(d) 23 X 28 cm (9"X11") bag plants	222 Nos	173.08	43.27	216.35	100 Nos	480
d)		Planting						
	02.02.07	45 cm3	222 Nos	459.36	114.84	574.20	100 Nos	1275
12		Fertilizer Application for boosting growth						
	02.02.11	Cost of DAP @ 25 gm / planting point	28 Kgs	25.00	0.00	25.00	1 Kg	700
13	02.02.12	Application of fertilizer in August (30 days after planting) by making 3 holes of 10 cm depth with crow bar holes at a distance of 10 cm away from plant and putting fertilizers and closing. Ensure that the soil is really wet at the time of DAP application.	1111 Nos	41.23	10.31	51.54	100 Nos	573
14		WEEDING & SOIL WORKING						
	02.02.13	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.	1111 Nos	131.20	32.80	164.00	100 Nos	1822

	02.02.14	Circular Weeding to a radius of 0.50 m around the plant (i.e., Aug - Sept)	1111 Nos	131.20	32.80	164.00	100 Nos	1822
	02.02.15	Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec) Ordinary Soils	1111 Nos	459.36	114.84	574.20	100 Nos	6379
15	02.02.16	Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the planting rows (to be undertaken during July - August)						
	b	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle.)	1 Ha	1536.44	384.11	1920.55	1 Ha.	1921
16	02.02.17	Pruning of lower branch initials of Timber and NTFP species by sciculture upto 1/3 rd height (to be done during October)	1111 Nos	130.48	32.62	163.10	100 Nos	1812
17	02.02.18	Brush-wood Fencing around the Plantation 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 60 cm. apart. The fence should be tightened horizontally by tying with thorny reapers on both sides.	150 rmt	30.54	7.63	38.17	1 rmt	5725
18	02.02.20	Contingencies provision for Raising of plantaitons:						
		i) Fixing of Plantation Boards and Corner Stones	Aa			500.00		500
		ii) Contingencies and Miscellaneous (with in 5% of the estimate cost subject to ceiling of Rs. 5,000/-)	Aa					2687
19	02.02.21	Cost of Protection: (b) For un-fenced area: One Casual labour is allowed for the plantation of 10.00 ha and above area but less than 20.00 ha.in extent and one more Casual labour are allowed for multiples of 20.00 ha..	1 Nos	9654.59	0	9654.59	1 Month	4345
				Total unit rate arrived for the year 2021-22::				61262.55
								61263.00

Sd/- T.Ravi Kiran,
(FAC) District Forest Officer
Mahabubabad

//t.c.b.o//

T. Ravi Kiran
Superintendent

**Unit Cost for 1st year maintenance of NTSH Plantations Raised under Labour Intensive Method as per FSR
2021-22**

Sl. No.	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				As per FSR	Agency allowance 25%	Total		
1	2	3	4	5	6	7	8	9
1	02.03.01	Replacement of Casualties: 25% in 1st year (In case of Eucalyptus: no casualty replacement). The list of all casualty points shall be prepared by concerned FRO by and made a report to DFO latest by end of May. The pitting of all such casualty points shall be over by end of June. The casualty replacement shall be completed by end of July.						
2		Digging of Pits - Manual (As per RSSR): All efforts shall be made to complete pitting works before March-end. Under exceptional circumstances (if the target of plantation is given in the month of March-April), the pitting can be done during June and July. But any pitting done during June-July, plants can only be planted after the pits are verified by field inspections of FROs and DFOs of proper dimensions to avoid simultaneous pitting and planting which may result in higher mortality of seedlings						
		Between June - July						
		a) Ordinary Soil						
	02.01.06	ii) 45 cm ³ pits	278 Nos	23.70	5.93	29.63	1 Nos	8238
3	02.02.01	Transportation of Planting Stock (including loading and unloading) up to a distance of 5 km						
		(d) 23 X 28 cm (9"X11") bag plants	278 Nos	268.03	0	268.03	100 Nos	745
4	02.02.02	Transportation of Planting Stock (including loading and unloading) Total :: 30 KMs						
	b	(d) 23 X 28 cm (9"X11") bag plants	278 Nos	9.42	0	9.42	100 Nos	650
4	02.02.04	Internal transportation to planting points on head loads						
	b	(d) 23 X 28 cm (9"X11") bag plants	278 Nos	173.08	43.27	216.35	100 Nos	601
6		Planting						
	02.02.08	45 cm ³	278 Nos	459.36	114.84	574.20	100 Nos	1596
7	02.02.05	Application of 50 gm of SSP per pit (1 day before planting) for root growth and early establishment of plant after planting. ii) Similarly, the bag plants to be planted will be dipped inside Chloropyriphos solution (5ml Chloropyriphos in 1 lit water) either at nursery site before transport or at plantation site before planting	278 Nos	41.23	10.31	51.54	100 Nos	143
8	02.02.06	Cost of SSP, Chloridine dust (50 gm) or Chloropyriphos	14 Kgs	15.00	0.00	15.00	1 Kg	210
9	02.03.02	Weeding and saucer formation to a radius of 0.50 mts around the plant during June.	1111 Nos	131.20	32.80	164.00	100 Nos	1822
10	02.03.03	Circular Weeding to a radius of 0.50 mts around the plant (i.e., Aug - Sept)	1111 Nos	131.20	32.80	164.00	100 Nos	1822
11	02.03.04	Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec) Ordinary Soils	1111 Nos	459.36	114.84	574.20	100 Nos	6379
12	02.03.05	Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the planting rows High rainfall Zone	1 Ha	1536.44	0.00	1536.44	1 Ha.	1536
14	02.03.08	Contingencies provision for Raising of plantaitons:						
		i) Fixing of Plantation Boards and Corner Stones	Aa			500.00		500
		ii) Contingencies and Miscellaneous (with in 5% of the estimate cost subject to ceiling of Rs. 5,000/-)	Aa					1187
15	02.03.09	Cost of Protection: (b) For un-fenced area: One Casual labour is allowed for the plantation of 10.00 ha and above area but less than 20.00 ha.in extent and one more Casual labour are allowed for multiples of 20.00 ha..	1 Nos	9654.59	0	9654.59	1 Month	4345
				Total unit rate arrived for the year 2021-22::				29774.10
								31677.00

(FAC) District Forest Officer
Mahabubabad

[Signature]

Unit Cost for 2nd year maintenance of NTSH Plantations Raised under Labour Intensive Method as per FSR 2021-22

Sl. No.	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				Asper FSR	Agency allowance 25%	Total		
1	2	3	4	5	6	7	8	9
1	02.04.01	Weeding and saucer formation to a radius of 0.50 mts around the plant during June.	1111 Nos	131.20	32.80	164.00	100 Nos	1822
2	02.04.02	Circular weeding to a radius of 0.50 m around the plant (i.e. Aug - Sept)	1111 Nos	131.20	32.80	164.00	100 Nos	1822
3	02.04.03	Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant during Nov. - Dec.	1111 Nos	459.36	114.84	574.20	100 Nos	6379
4	02.04.04	Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the planting rows (to be undertaken during July - August) High rainfall Zone	1 Ha	1536.44	384.11	1920.55	1 Ha	1921
5	02.04.06	Contingencies provision for maintainence of plantaitons:						
		i) Maintenance of Plantation Boards and Corner Stones	Aa			500.00		500
		ii) Contingencies and Miscellaneous (with in 3% of the estimate cost subject to ceiling of Rs. 3,000/-)	Aa					597
6	02.04.07	Cost of Protection: (b) For un-fenced area: One Casual labour is allowed for the plantation of 10.00 ha and above area but less than 20.00 ha.in extent and one more Casual labour are allowed for multiples of 20.00 ha..	1 Nos	9654.59	0	9654.59	1 Month	4345
Total unit rate arrived for the year 2021-22::								17386.20

Sd/- T.Ravi Kiran,
(FAC) District Forest Officer
Mahabubabad

//t.c.b.o//

P. K. Subrahmanya
Superintendent

Unit Cost for 3rd year maintenance of NTSH Plantations Raised under Labour Intensive Method as per FSR 2021-22

Sl. No.	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				Asper FSR	Agency allowance 25%	Total		
1	2	3	4	5	6	7	8	9
1	02.04.01	Weeding and saucer formation to a radius of 0.50 mts around the plant during June.	1111 Nos	131.20	32.80	164.00	100 Nos	1822
2	02.04.02	Circular weeding to a radius of 0.50 m around the plant (i.e. Aug - Sept)	1111 Nos	131.20	32.80	164.00	100 Nos	1822
3	02.04.03	Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant during Nov. - Dec.	1111 Nos	459.36	114.84	574.20	100 Nos	6379
4	02.04.04	Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the planting rows (to be undertaken during July - August) High rainfall Zone	1 Ha	1536.44	384.11	1920.55	1 Ha	1921
5	02.04.06	Contingencies provision for maintainence of plantaitons:						
		i) Maintenance of Plantation Boards and Corner Stones	Aa			500.00		500
		ii) Contingencies and Miscellaneous (with in 3% of the estimate cost subject to ceiling of Rs. 3,000/-)	Aa					597
6	02.04.07	Cost of Protection: (b) For un-fenced area: One Casual labour is allowed for the plantation of 10.00 ha and above area but less than 20.00 ha.in extent and one more Casual labour are allowed for multiples of 20.00 ha..	1 Nos	9654.59	0	9654.59	1 Month	4345
Total unit rate arrived for the year 2021-22::								17386.20

Sd/- T.Ravi Kiran,
(FAC) District Forest Officer
Mahabubabad

//t.c.b.o//

P. K. Subrahmanya
Superintendent

**Unit Cost for 4th year maintenance of NTSH Plantations Raised under Labour Intensive Method as per FSR
2021-22**

Sl. No.	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				Asper FSR	Agency allowance 25%	Total		
1	2	3	4	5	6	7	8	9
1	02.04.01	Weeding and saucer formation to a radius of 0.50 mts around the plant during June.	1111 Nos	131.20	32.80	164.00	100 Nos	
2	02.04.02	Circular weeding to a radius of 0.50 m around the plant (i.e. Aug - Sept)	1111 Nos	131.20	32.80	164.00	100 Nos	
3	02.04.03	Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant during Nov. - Dec.	1111 Nos	459.36	114.84	574.20	100 Nos	6379
4	02.04.04	Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the planting rows (to be undertaken during July - August) High rainfall Zone	1 Ha	1536.44	384.11	1920.55	1 Ha	1921
5	02.04.06	Contingencies provision for maintenance of plantations:						
		i) Maintenance of Plantation Boards and Corner Stones	Aa			500.00		500
		ii) Contingencies and Miscellaneous (with in 3% of the estimate cost subject to ceiling of Rs. 3,000/-)	Aa					415
6	02.04.07	Cost of Protection: (b) For un-fenced area: One Casual labour is allowed for the plantation of 10.00 ha and above area but less than 20.00 ha.in extent and one more Casual labour are allowed for multiples of 20.00 ha..	1 Nos	9654.59	0	9654.59	1 Month	
Total unit rate arrived for the year 2021-22::								9215.00

Sd/- T.Ravi Kiran,
(FAC) District Forest Officer
Mahabubabad

//t.c.b.o//

P. Subalatha
Superintendent

**Unit Cost for 5th year maintenance of NTSH Plantations Raised under Labour Intensive Method as per FSR
2021-22**

Sl. No.	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				Asper FSR	Agency allowance 25%	Total		
1	2	3	4	5	6	7	8	9
1	02.04.01	Weeding and saucer formation to a radius of 0.50 mts around the plant during June.	1111 Nos	131.20	32.80	164.00	100 Nos	1822
2	02.04.02	Circular weeding to a radius of 0.50 m around the plant (i.e. Aug - Sept)	1111 Nos	131.20	32.80	164.00	100 Nos	1822
3	02.04.03	Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant during Nov. - Dec.	1111 Nos	459.36	114.84	574.20	100 Nos	
4	02.04.04	Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the planting rows (to be undertaken during July - August) High rainfall Zone	1 Ha	1536.44	384.11	1920.55	1 Ha	
5	02.04.06	Contingencies provision for maintenance of plantations:						
		i) Maintenance of Plantation Boards and Corner Stones	Aa			500.00		500
		ii) Contingencies and Miscellaneous (with in 3% of the estimate cost subject to ceiling of Rs. 3,000/-)	Aa					182
6	02.04.07	Cost of Protection: (b) For un-fenced area: One Casual labour is allowed for the plantation of 10.00 ha and above area but less than 20.00 ha.in extent and one more Casual labour are allowed for multiples of 20.00 ha..	1 Nos	9654.59	0	9654.59	1 Month	
Total unit rate arrived for the year 2021-22::								4326.20

Sd/- T.Ravi Kiran,
(FAC) District Forest Officer
Mahabubabad

//t.c.b.o//

P. Subalatha
Superintendent

**Unit Cost for 6th year maintenance of NTSB Plantations Raised under Labour Intensive Method as per FSR
2021-22**

Sl. No.	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				Asper FSR	Agency allowance 25%	Total		
1	2	3	4	5	6	7	8	9
1	02.04.01	Weeding and saucer formation to a radius of 0.50 mts around the plant during June.	1111 Nos	131.20	32.80	164.00	100 Nos	
2	02.04.02	Circular weeding to a radius of 0.50 m around the plant (i.e. Aug - Sept)	1111 Nos	131.20	32.80	164.00	100 Nos	
3	02.04.03	Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant during Nov. - Dec.	1111 Nos	459.36	114.84	574.20	100 Nos	6379
4	02.04.04	Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the planting rows (to be undertaken during July - August) High rainfall Zone	1 Ha	1536.44	384.11	1920.55	1 Ha	1921
5	02.04.06	Contingencies provision for maintenance of plantations:						
		i) Maintenance of Plantation Boards and Corner Stones	Aa			500.00		
		ii) Contingencies and Miscellaneous (with in 3% of the estimate cost subject to ceiling of Rs. 3,000/-)	Aa					
6	02.04.07	Cost of Protection: (b) For un-fenced area: One Casual labour is allowed for the plantation of 10.00 ha and above area but less than 20.00 ha.in extent and one more Casual labour are allowed for multiples of 20.00 ha..	1 Nos	9654.59	0	9654.59	1 Month	
Total unit rate arrived for the year 2021-22::								8300.00

Sd/- T.Ravi Kiran,
(FAC) District Forest Officer
Mahabubabad

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P. Mahabubabadi
Superintendent

**Unit Cost for 7th year maintenance of NTSB Plantations Raised under Labour Intensive Method as per FSR
2021-22**

Sl. No.	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				Asper FSR	Agency allowance 25%	Total		
1	2	3	4	5	6	7	8	9
1	02.04.01	Weeding and saucer formation to a radius of 0.50 mts around the plant during June.	1111 Nos	131.20	32.80	164.00	100 Nos	1822
2	02.04.02	Circular weeding to a radius of 0.50 m around the plant (i.e. Aug - Sept)	1111 Nos	131.20	32.80	164.00	100 Nos	1822
3	02.04.03	Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant during Nov. - Dec.	1111 Nos	459.36	114.84	574.20	100 Nos	
4	02.04.04	Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the planting rows (to be undertaken during July - August) High rainfall Zone	1 Ha	1536.44	384.11	1920.55	1 Ha	
5	02.04.06	Contingencies provision for maintenance of plantations:						
		i) Maintenance of Plantation Boards and Corner Stones	Aa			500.00		500
		ii) Contingencies and Miscellaneous (with in 3% of the estimate cost subject to ceiling of Rs. 3,000/-)	Aa					182
6	02.04.07	Cost of Protection: (b) For un-fenced area: One Casual labour is allowed for the plantation of 10.00 ha and above area but less than 20.00 ha.in extent and one more Casual labour are allowed for multiples of 20.00 ha..	1 Nos	9654.59	0	9654.59	1 Month	
Total unit rate arrived for the year 2021-22::								4326.20

Sd/- T.Ravi Kiran,
(FAC) District Forest Officer
Mahabubabad

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P. Mahabubabadi
Superintendent

Unit Cost for Raising of Fodder Plot as per FSR 2021-22

Sl. No.	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				Asper FSR	Agency allowance 25%	Total		
1	2	3	4	5	6	7	8	9
1	04.01.14	Management of Natural Grass Lands in Protected Areas						
		I) Zero Year: Survey, Demarcation, Uprooting all weeds and woody growth, removal including disposal of debris in selected natural grass lands (Naturally existing / near percolation tanks / streams) etc., and sowing of local grass seeds.						
		ii) Less than 40% density						
		a) 1st time during July - August	1 Ha	8769.01	2192.25	10961.26	1 Ha	10961
		b) 2nd time during Sep - Oct (60% of the rate of July- August)	1 Ha	5261.41	1315.35	6576.76	1 Ha	6577
	02.02.18	Brush-wood Fencing around the Plantation 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 60 cm. apart. The fence should be tightened horizontally by tying with thorny reepers on both sides (as per RSSR)	500 Rmt	30.54	7.64	38.18	1 Rmt	19088
Unit Rate as per FSR 2021-22								36626.00

Sd/- T.Ravi Kiran,
(FAC) District Forest Officer
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Superintendent

Unit Cost for Maintenance of Fodder Plot as per FSR 2021-22

Sl. No.	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				As per FSR	Agency allowance 25%	Total		
1	2	3	4	5	6	7	8	9
1	04.01.14	Management of Natural Grass Lands in Protected Areas						
		II) First Year: 2nd cycle of uprooting of leftover weed and sowing of local grass seeds in blank patches. Rate proposed 50% of the cost of year Zero.						
		ii) Less than 40% density						
		a) 1st time during July - August	1 Ha	4383.93	1095.98	5479.91	1 Ha	5480
		b) 2nd time during Sep - Oct (60% of the rate of July- August)	1 Ha	2630.12	657.53	3287.65	1 Ha	3288
Unit Rate as per FSR 2021-22								8768.00

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Mahabubabad

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Superintendent *6/5/2022*

Unit Cost for Creation of Fire Lines as per FSR 2021-22

Sl. No.	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				As per FSR	Agency allowance 25%	Total		
1	2	3	4	5	6	7	8	9
1	03.01.04	Formation of New Fire lines of 5.00 m width and cleaning of old fire lines if not maintained for last 5 years including burning.	1000 Rmt	863.42	215.86	1079.28	100 Rmt	10793
Unit Rate as per FSR 2021-22								10793.00
							Per KMs	107930

Sd/- T.Ravi Kiran,
(FAC) District Forest Officer
Mahabubabad

//t.c.b.o// *P. Mahabub*
Superintendent

Unit Cost

Unit Cost for Maintenance of Firelines As per FSR 21-22

Sl. No.	FSR Code No.	Item of work	Qty	Rate (In Rs.)	25% Agency Allowance	Per	Rate Per Ha.
1	2	3	4	5	7	6	7
1	03.03.01	1Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning	1000 Rmt	638.68	798.350	100 Rmt	7983.50
Unit Rate as per FSR 2021-22							7983.50
							Per KMs 79835

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Superintendent