

Government of Telangana
Forest Department

Rc.No.1731/2021/TO,
Dated: 5.10.2022.

Office of the District Forest Officer,
Mahabubabad.

From:
Sri T.RaviKiran, I.F.S.,
District Forest Officer,
Mahabubabad.

To:
The Conservator of Forests,
Bhadradi Circle,
Warangal.

Sir,

Sub: - TSFD - Forest (Conservation) Act, 1980 - Diversion of 151.8517 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 - submission of KML file of CA Land of Proposed 7.5 meter safety zone- Reg.

Ref: - 1. Prl. CCF (HoFF), T.S., Hyderabad, Rc.No. FC4/FC29/1/2022, Dt: 26.04.2022.
2. DFO, Mahabubabad Rc.No. 1731/2021/TO, dt: 06.05.2022.
3. SCCL Rc.No.YLD/EST/2023/12/82, dt: 23.09.2023.

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Adverting to the subject cited above, it is submitted that the General Manager Yellandu Area vide reference 3rd cited above has informed to this office to provide the KML File of CA land in lieu of 1.5 times of proposed safety zone and to prepare CA scheme for the area of 5.7 Ha (7.5 meter of safety Zone area i.e. 3.8142 HaX1.5 times = 5.7 Ha)


In this regard, it is submitted that, the CA scheme is prepared with financial outlay of Rs 63.691 lakhs with (10) years of maintenance to an extent of 5.7 Ha identified in degraded forest land in Gangaram Range of Gudur(WLM) Division. The details of the degraded forest areas are as follows.

Sl. No.	Range	Bit No.	Beat	Section	Block	Compt. No.	Net area available
1	Gangaram	1	Kamaram	Mamidiguda	Chinthaguda	925	4.18
2	Gangaram	2	Kamaram	Mamidiguda	Chinthaguda	925	1.54
						Total :	5.72

Further, it is submitted that, the details scheme is enclosed herewith, this is submitted for favour of kind information.

Encl:- as above

Yours Faithfully,



District Forest Officer,
Mahabubabad.

Copy submitted to the Prl., Chief Conservator of Forests (HoFF), T.S., Hyderabad for favour of kind information.

Copy submitted to the District Forest Officer, Kothagudem for kind information and necessary action.


Copy to the User Agency i.e., M/s. Singareni Collieries Company Limited, General Manager, Yellandu Area, Bhadradi Kothagudem District for information.

Copy to the Forest Divisional Officer, Guduru (WLM) for information.


District Forest Officer,
Mahabubabad.
5-10-2023


Abstract of CA Scheme For the area of 5.7 Ha (7.5 meter of safety zone area i.e., 3.8142 Ha X 1.5 times = 5.7 Ha) of degraded open forest land in lieu of diversion of 151.8517 Ha. of forest land for proposed JKOC Project at Yellandu Division in favour of M/s SCCL

Sl. No	Scheme Proposals	Cost in Lakhs	
		Phy	Fin (Rs.in Lakhs)
1	2	51	52
I	Afforestation Works		
1	Raising of nursery works	6666	15.866
2	Raising of Plantations under SMM	5.7	44.792
			60.658
4	Administrative Cost @ 5%		3.033
	Total year wise outlay of the project		63.691


District Forest Officer,
Mahabubabad

Abstract of CA Scheme For the area of 5.7 Ha (7.5 meter of safety zone area i.e., 3,8142 Ha X 1.5 times = 5.7 Ha) of degraded open forest land in lieu of diversion of 151,8517 Ha. of forest land for proposed JKOC Project at Velandur Division in favour of M/s SCL.

Sl. No	Item of Work	Unit	2023-24		2023-25		2023-26		2023-27		2023-28		2023-29		2023-30		2023-31		2023-32		2023-33		2023-34		2023-35		2023-36		Grand Total		
			Unit Cost (Rs.)	Fin (Rs.)	Unit Cost (Rs.)	Fin (Rs.)	Unit Cost (Rs.)	Fin (Rs.)	Unit Cost (Rs.)	Fin (Rs.)	Unit Cost (Rs.)	Fin (Rs.)	Unit Cost (Rs.)	Fin (Rs.)	Unit Cost (Rs.)	Fin (Rs.)	Unit Cost (Rs.)	Fin (Rs.)	Unit Cost (Rs.)	Fin (Rs.)	Unit Cost (Rs.)	Fin (Rs.)	Unit Cost (Rs.)	Fin (Rs.)	Unit Cost (Rs.)	Fin (Rs.)	Unit Cost (Rs.)	Fin (Rs.)			
1	1. Afforestation Works																														
2	2. Raising of Nursery Works																														
a	Purchase of 638 seedlings	Plant	20,000	6666	22,000	1,467	1333	24,200	0.323																						
b	Conversion of bag plants from 6"x8" to 9"x11" seedlings	Plant	26,393	6666	29,033	1,935	1333	31,936	0.426																						
c	Maintenance of Bag Plants of 9"x11"	Plant	12.67				6666	15.335	1.022																						
d	Nursery Infrastructure for Raising and Conversion of Nurseries	LS	5.00	LS	5.000	5.000																									
2	Raising of Plantations under SHM																														
a	Advance Operations	Ha	77786	5.7000	85565	4.8772	0.00	94121																							
b	Digging of trench around the plantation area	Cmt.	42.40	2500	46.64	1.1660																									
c	Raising of Plantation	Ha	128921		141890			5.7000	156079	8.8965																					
d	1st Year Maintenance	Ha	41310		45441				49995	32843																					
e	2nd Year Maintenance	Ha	27143		29858					32843																					
f	3rd Year Maintenance	Ha	23293		25623					28185																					
g	4th Year Maintenance	Ha	23293		25623					28185																					
h	5th Year Maintenance	Ha	23293		25623					28185																					
i	6th Year Maintenance	Ha	23293		25623					28185																					
j	7th Year Maintenance	Ha	23293		25623					28185																					
k	8th Year Maintenance	Ha	23293		25623					28185																					
l	9th Year Maintenance	Ha	23293		25623					28185																					
m	10th Year Maintenance	Ha	23293		25623					28185																					
	Plantation Total:				6,043				8,897																						
	Sub-Total:				14,445				10,667																						
	Administrative Cost @ 5%				0.722				0.533																						
	Total year wise outlay of the project				16,167				11,201																						




DISTRICT FOREST OFFICER,
MAHABUBABAD.

District Forest Officer,
Mahabubabad.

Unit Cost for Raising of Misc., Nursery for the year 2024-25 as per FSR 2023-24

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. <i>Cost of chemicals is as per actuals</i>						
	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	1447.37	0.00	1447.37	1000 Nos	723.69
	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	38.32	0.00	38.32	1000 Nos	191.60
		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	180.00	0.00	180.00	1 Kg	1193.40
	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	2554.32	638.58	3192.90	1000 Nos	1596.45
	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	5788.13	1447.03	7235.16	1000 Nos	3617.58
	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						
		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	290.16	72.54	362.70	1 Bed/ Weeding	362.70
	01.03.33	Watering the plants manually twice a day (from Novemebr - 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	169.18	42.30	211.48	1 Bed/ month	1057.40
	i	(i) Manually with rose cans or finely perforated nozzle attached to a hose pipe	1 Bed	338.34	84.59	422.93	1 Bed/ month	2114.65
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.)						336.00
	01.03.39	Contingencies for Electricity charges, Running & maintenance charges of oil engine (bills to be certified by DFO / 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 secondray 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.	10846.93				1301.63
S.TOTAL::								13196.74
Conversion Unit Cost Unit Rate as per FSR 2023-24								13196.74
Per seedling								26.39

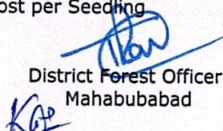
Raising and Conversion Total:: 26.39


 District Forest Officer,
 Mahabubabad


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 2023-24



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	338.27	84.57	422.84	1 Bed/ Month	1691.00
2	01.04.02	Weeding once during maintenance year	1	Bed	68.33	17.08	85.41	1 Bed	85.00
3	01.04.03	Shifting, grading and re-arranging in beds	1 x 2	Beds x shifting	290.16	72.54	362.7	1 Bed/ shifting	725.00
	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	34.19	8.55	42.74	1 Bed	43.00
	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					78.00
	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.	10846.93				385.20
S.TOTAL::								3136.70	
Unit Rate as per FSR 2023-24::								3136.70	
Unit cost per Seeding								6.27	


 District Forest Officer,
 Mahabubabad

Unit Cost Maintenance of Misc., Bag Plants (9x11) Nursery (Aug to mar = 8 Months) as per FSR 2023-24

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	208.96	52.24	261.2	1 Bed/ Month	2090.00
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	290.16	72.54	362.7	1 Bed/ shifting	725.00
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	1 No.		10846.93				385.20
S.TOTAL::								3200.20	
Unit Rate as per FSR 2023-24								3200.20	
Unit cost per Seedling								6.40	

12.67


 District Forest Officer,
 Mahabubabad


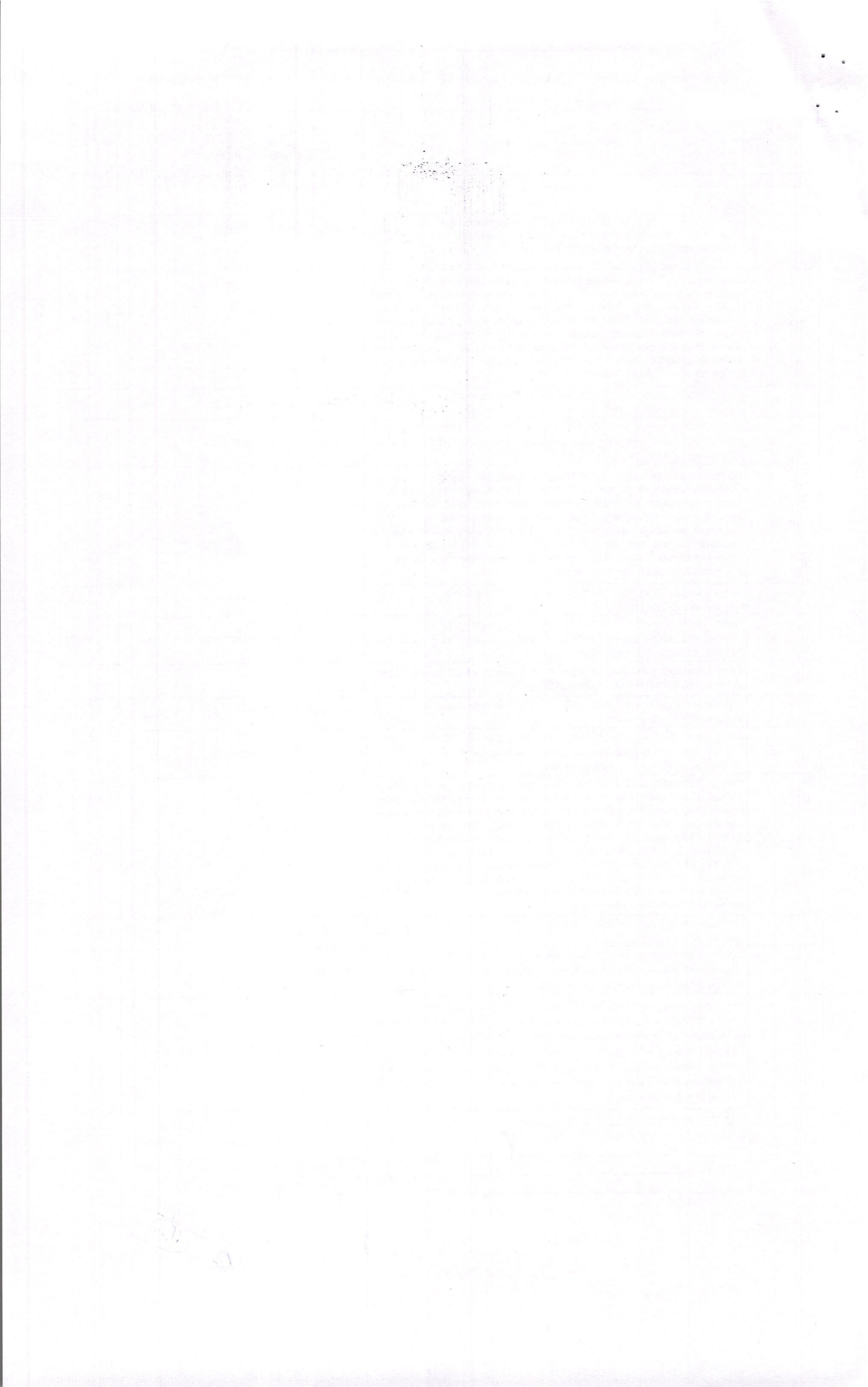
Unit Cost for Advance Operations under Semi Mechanical Method as per FSR 2023-24

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	02.08.01	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.	441.77	0.00	441.77	1 No.	442
2	02.08.02	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	3690.64	922.66	4613.30	1 Ha	2307
	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	8670.61	2167.65	10838.26	1 Ha	5419
3	02.08.03	Uprootal of Stumps (excluding unsuitable patches) to a minimum depth of 45 cm with heavy machinery fitted with 0.90 cum and above capacity bucket, filling the pits caused by uprootal, and levelling. For retrieved encroached area, the approval of Circle Head is required and the approval should indicate clearly the density of stumps or vegetation to be removed through uprootal. The uprootal work can be carried out preferably through tender process.						
	b	<i>Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)</i>	0.5 Ha	12748.32	0.00	12748.32	1 Ha	6374
	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	16573.42	0.00	16573.42	1 Ha	8287
4	02.08.04	Collection and Removal of Uprooted Stumps of all sizes, other debris etc., to outside the plantation site.						
	b	<i>Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)</i>	0.5 Ha	10647.59	2661.90	13309.49	1 Ha	6655
	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	12415.12	3103.78	15518.90	1 Ha	7759
5	02.08.05	Tilling (PERMISSIBLE FOR CA AREA ONLY) the soil to a depth of 45 cm in the effective area (excluding unsuitable patches) with heavy duty machinery fitted with 0.90 cum and above capacity bucket and levelling - ONLY PERMISSIBLE FOR CA AREA and written approval of Circle Head is needed and required budgetary provision has to find place in annual approved plan) and VIP planting area (minimum area should be more than 1 ha area).The uprootal and tilling works shall be done preferably through tender process and the execution of work should be completed before end of March.						
	b	<i>Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)</i>	0.5 Ha	17739.74	4434.94	22174.68	1 Ha	11087
	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	12275.64	3068.91	15344.55	1 Ha	7672
		<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	344.41	86.10	430.51	1 Cum	21784
				Total unit rate arrived for the year 2023-24::				77786.00
				Unit cost for the year 2024-25:				85564.60

District Forest Officer,
Mahabubabad



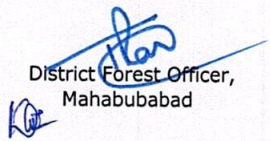
Unit Cost for Raising of NTSH Plantations under Semi Mechanical Method as per FSR 2023-24

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
	02.09.00	PLANTING OPERATIONS DURING RAISING YEAR						
	02.09.01	Removing congestion of root suckers and other uprooted material hindering the effective ploughing						
		Removing congestion of root suckers and other uprooted material hindering the effective ploughing	1 Ha.	1257.61	314.40	1572.01	1 Ha.	1572
	02.09.03	Deep Ploughing the effective (excluding unsuitable patches) plantation area across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough. FOR TILLED AREA ONLY						
		Deep Ploughing	1 Ha.	3882.65	0.00	3882.65	1 Ha.	3883
	02.09.04	Alignment & Stacking including demarcation of base line						
		(c) 3X3 m espacement = 1111 planting points	1111 Nos.	105.41	26.35	131.76	100 Nos.	1464
	02.09.05	i) Cost of preparation of stakes (0.45 m length) and transportation to site	1111 Nos.	65.94	0.00	65.94	100 Nos.	733
		ii) Cost of preparation of stakes (2.0 m length) and transportation to site (subject to condition that the seedling height is 1.5m to 2.0m height) which includes cost of stake, coaltar application at the bottom of the stake (30 cm), transportation, fixing and tying	1111 Nos.	1415.61	0.00	1415.61	100 Nos.	15727
	02.09.06	Digging of Pits in Ploughed Areas in June - July by adopting 50% of original rate of digging of pits of ordinary soil						
		b) 45 cm ³ pits	1 Nos.	10.65	0.00	10.65	1 No.	11
	02.09.07	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	309.57	0	309.57	100 Nos	3439
6	02.09.08	Transportation of Planting Stock (including loading and unloading) Total :: 30 KMs						
		(d) 23 X 28 cm (9"X11") bag plants	1111 Nos	10.88	0	10.88	100 Nos	3025
7	02.09.10	Internal transportation to planting points on head loads						
		(d) 23 X 28 cm (9"X11") bag plants	1111 Nos	194.46	48.62	243.08	100 Nos	2701
8	02.09.11	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	46.32	11.58	57.90	100 Nos	643
9		Cost of SSP, Chloridine dust (50 gm) or Chloropyriphos	56 Kgs					1000
10		Planting						
	02.09.12	45 cm ³	1111 Nos	516.09	129.02	645.11	100 Nos	7167
	02.09.14	a) One critical watering after planting if planting takes place on non-rainy days with the prior written permission of DFO / FDO.	1111 Nos	312.46	78.12	390.58	100 Nos	4339
		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	312.46	78.12	390.58	100 Nos	4339
11	02.09.15	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						
	02.09.06	45 cm ³ pits	222 Nos	10.65	2.66	13.31	1 No	2955
		PLANTING OPERATIONS DURING RAISING YEAR						
	02.09.07	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	309.57	0	309.57	100 Nos	687
6	02.09.08	Transportation of Planting Stock (including loading and unloading) Total :: 30 KMs						
		(d) 23 X 28 cm (9"X11") bag plants	222 Nos	10.88	0	10.88	100 Nos	600
c)	02.09.10	Internal transportation to planting points on head loads						
		(d) 23 X 28 cm (9"X11") bag plants	222 Nos	194.46	48.62	243.08	100 Nos	540
d)		Planting						
	02.09.12	45 cm ³	222 Nos	516.09	129.02	645.11	100 Nos	1432
12		Fertilizer Application for boosting growth						
	02.09.16	Cost of DAP @ 25 gm / planting point	28 Kgs	25.00	0.00	25.00	1 Kg	700

13	02.09.17	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	46.32	11.58	57.90	100 Nos	643
14		WEEDING & SOIL WORKING						
	02.09.18	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.	1111 Nos	191.53	47.88	239.41	100 Nos	2660
	02.09.19	Circular Weeding to a radius of 0.50 m around the plant (i.e., Aug - Sept)	1111 Nos	890.24	222.56	1112.80	100 Nos	12363
	02.09.20	Inter-ploughing (during November) the effective (excluding unsuitable patches) plantation area across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough	1111 Nos	3391.73	0.00	3391.73	100 Nos	37682
16	02.09.21	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during October)	1111 Nos	146.54	36.64	183.18	100 Nos	2035
17	02.09.22	Uprootal of Mahaveera (Hyptis suaveolens) weed with prior written approval of Circle Head and taking photograph before and after uprootal. The weed removal shall be completed before September-end at any cost before inter-ploughing.	1 Ha.	4306.88	1076.72	5383.60	1 Ha.	5384
18	02.09.24	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					5886
19	02.09.25	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	10846.93	0	10846.93	1 Month	4881
								Total unit rate arrived for the year 2023-24:: 128991.20
								Unit cost for the year 2024-25: 141890.32
								Unit cost for the year 2025-26: 156079.35


 District Forest Officer,
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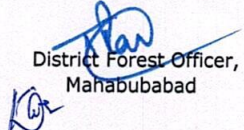
**Unit Cost for 2nd year maintenance of NTSH Plantations Raised under Semi Mechanical Method as per FSR
2023-24**

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
	02.11.01	Cost of DAP @ 25 gm / planting point	28 Kgs	25.00	0.00	25.00	1 Kg	700
1	02.11.02	Broadcasting of <i>Stylosanthes hamata</i> seeds in the inter-planting rows of the plantations raised under semi-mechanical plantations by ploughing with a tractor-mounted cultivator after receipt of good rains in the month of June-July in place of existing provision of inter-ploughing in the month of September given for the 1st and 2nd year MAINTENANCE years of semi-mechanical plantations						
		(a) Cost of <i>S. hamata</i> Seeds	1 Kgs	1000.00	0.00	1000.00	1 kg	1000
		(b) Inter ploughing using tractors with cultivator in 1st year maintenance and old plantations	1 Ha	2536.18	0.00	2536.18	1 Ha	2536
		(c) Broadcasting of <i>S. hamata</i> seeds followed by dragging / sweeping with a bunch of thorny branches to ensure a thin	1 Ha	104.79	26.20	130.99	1 Ha	131
	02.11.03	Weeding and saucer formation to a radius of 0.50 mtr around the plant in the entire plantation during June/July.	1111 Nos	191.53	47.88	239.41	100 Nos	2660
2	02.11.04	Circular weeding to a radius of 0.50 m around the plant (i.e. November)	1111 Nos	890.24	222.56	1112.80	100 Nos	12363
4	02.11.05	Pruning of lower branch initials of Timber and NTFP species by sciculture upto 1/3 rd height (to be carried out during July-Aug)	1111 Nos	146.59	36.65	183.24	100 Nos	2036
5	02.11.07	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					1036
6	02.11.08	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	10846.93	0	10846.93	1 Month	4881
				Total unit rate arrived for the year 2023-24::				27143.30
				Unit cost for the year 2024-25:				29857.63
				Unit cost for the year 2025-26:				32843.39
				Unit cost for the year 2026-27:				36127.73
				Unit cost for the year 2027-28:				39740.51


 District Forest Officer,
 Mahabubabad


**Unit Cost for 3rd year maintenance of NTSH Plantations Raised under Semi Mechanical Method as per FSR
2023-24**

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	02.11.03	Weeding and saucer formation to a radius of 0.50 mtr around the plant in the entire plantation during June/July.	1111 Nos	191.53	47.88	239.41	100 Nos	2660
2	02.11.04	Circular weeding to a radius of 0.50 m around the plant (i.e. November)	1111 Nos	890.24	222.56	1112.80	100 Nos	12363
3	02.11.05	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be carried out during July-Aug)	1111 Nos	146.59	36.65	183.24	100 Nos	2036
4	02.11.07	Contingencies provision for maintainence of plantaitons:						
5		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					853
	02.11.08	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	10846.93	0	10846.93	1 Month	4881
				Total unit rate arrived for the year 2023-24::				23293.40
				Unit cost for the year 2024-25:				25622.74
				Unit cost for the year 2025-26:				28185.01
				Unit cost for the year 2026-27:				31003.52
				Unit cost for the year 2027-28:				34103.87
				Unit cost for the year 2028-29:				37514.25


 District Forest Officer,
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**Unit Cost for 4th year maintenance of NTSH Plantations Raised under Semi Mechanical Method as per FSR
2023-24**

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	02.11.03	Weeding and saucer formation to a radius of 0.50 mtr around the plant in the entire plantation during June/July.	1111 Nos	191.53	47.88	239.41	100 Nos	2660
2	02.11.04	Circular weeding to a radius of 0.50 m around the plant (i.e. November)	1111 Nos	890.24	222.56	1112.80	100 Nos	12363
3	02.11.05	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be carried out during July-Aug)	1111 Nos	146.59	36.65	183.24	100 Nos	2036
4	02.11.07	Contingencies provision for maintainence of plantaitons:						
5		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					853
	02.11.08	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	10846.93	0	10846.93	1 Month	4881
				Total unit rate arrived for the year 2023-24::				23293.40
				Unit cost for the year 2024-25:				25622.74
				Unit cost for the year 2025-26:				28185.01
				Unit cost for the year 2026-27:				31003.52
				Unit cost for the year 2027-28:				34103.87
				Unit cost for the year 2028-29:				37514.25
				Unit cost for the year 2029-30:				41265.68


 District Forest Officer,
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**Unit Cost for 5th year maintenance of NTSH Plantations Raised under Semi Mechanical Method as per FSR
2023-24**



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	02.11.03	Weeding and saucer formation to a radius of 0.50 mtr around the plant in the entire plantation during June/July.	1111 Nos	191.53	47.88	239.41	100 Nos	2660
2	02.11.04	Circular weeding to a radius of 0.50 m around the plant (i.e. November)	1111 Nos	890.24	222.56	1112.80	100 Nos	12363
3	02.11.05	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be carried out during July-Aug)	1111 Nos	146.59	36.65	183.24	100 Nos	2036
4	02.11.07	Contingencies provision for maintainence of plantaitons:						
5		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					853
	02.11.08	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	10846.93	0	10846.93	1 Month	4881
								Total unit rate arrived for the year 2023-24:: 23293.40
								Unit cost for the year 2024-25: 25622.74
								Unit cost for the year 2025-26: 28185.01
								Unit cost for the year 2026-27: 31003.52
								Unit cost for the year 2027-28: 34103.87
								Unit cost for the year 2028-29: 37514.25
								Unit cost for the year 2029-30: 41265.68
								Unit cost for the year 2030-31: 45392.25


 District Forest Officer,
 Mahabubabad




**Unit Cost for 6th year maintenance of NTSH Plantations Raised under Semi Mechanical Method as per FSR
2023-24**

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	02.11.03	Weeding and saucer formation to a radius of 0.50 mtr around the plant in the entire plantation during June/July.	1111 Nos	191.53	47.88	239.41	100 Nos	2660
2	02.11.04	Circular weeding to a radius of 0.50 m around the plant (i.e. November)	1111 Nos	890.24	222.56	1112.80	100 Nos	12363
3	02.11.05	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be carried out during July-Aug)	1111 Nos	146.59	36.65	183.24	100 Nos	2036
4	02.11.07	Contingencies provision for maintainence of plantaitons:						
5		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					853
	02.11.08	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	10846.93	0	10846.93	1 Month	4881
								Total unit rate arrived for the year 2023-24:: 23293.40
								Unit cost for the year 2024-25: 25622.74
								Unit cost for the year 2025-26: 28185.01
								Unit cost for the year 2026-27: 31003.52
								Unit cost for the year 2027-28: 34103.87
								Unit cost for the year 2028-29: 37514.25
								Unit cost for the year 2029-30: 41265.68
								Unit cost for the year 2030-31: 45392.25
								Unit cost for the year 2031-32: 49931.47


 District Forest Officer,
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**Unit Cost for 7th year maintenance of NTSH Plantations Raised under Semi Mechanical Method as per FSR
2023-24**

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	02.11.03	Weeding and saucer formation to a radius of 0.50 mtr around the plant in the entire plantation during June/July.	1111 Nos	191.53	47.88	239.41	100 Nos	2660
2	02.11.04	Circular weeding to a radius of 0.50 m around the plant (i.e. November)	1111 Nos	890.24	222.56	1112.80	100 Nos	12363
3	02.11.05	Pruning of lower branch initials of Timber and NTFP species by sciculture upto 1/3 rd height (to be carried out during July-Aug)	1111 Nos	146.59	36.65	183.24	100 Nos	2036
4	02.11.07	Contingencies provision for maintenance of plantaitons:						
5		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					853
	02.11.08	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	10846.93	0	10846.93	1 Month	4881
				Total unit rate arrived for the year 2023-24::				23293.40
				Unit cost for the year 2024-25:				25622.74
				Unit cost for the year 2025-26:				28185.01
				Unit cost for the year 2026-27:				31003.52
				Unit cost for the year 2027-28:				34103.87
				Unit cost for the year 2028-29:				37514.25
				Unit cost for the year 2029-30:				41265.68
				Unit cost for the year 2030-31:				45392.25
				Unit cost for the year 2031-32:				49931.47
				Unit cost for the year 2032-33:				54924.62


 District Forest Officer,
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**Unit Cost for 8th year maintenance of NTSH Plantations Raised under Semi Mechanical Method as per FSR
2023-24**

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	02.11.03	Weeding and saucer formation to a radius of 0.50 mtr around the plant in the entire plantation during June/July.	1111 Nos	191.53	47.88	239.41	100 Nos	2660
2	02.11.04	Circular weeding to a radius of 0.50 m around the plant (i.e. November)	1111 Nos	890.24	222.56	1112.80	100 Nos	12363
3	02.11.05	Pruning of lower branch initials of Timber and NTFP species by sciculture upto 1/3 rd height (to be carried out during July-Aug)	1111 Nos	146.59	36.65	183.24	100 Nos	2036
4	02.11.07	Contingencies provision for maintainence of plantaitons:						
5		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					853
	02.11.08	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	10846.93	0	10846.93	1 Month	4881
								Total unit rate arrived for the year 2023-24:: 23293.40
								Unit cost for the year 2024-25: 25622.74
								Unit cost for the year 2025-26: 28185.01
								Unit cost for the year 2026-27: 31003.52
								Unit cost for the year 2027-28: 34103.87
								Unit cost for the year 2028-29: 37514.25
								Unit cost for the year 2029-30: 41265.68
								Unit cost for the year 2030-31: 45392.25
								Unit cost for the year 2031-32: 49931.47
								Unit cost for the year 2032-33: 54924.62
								Unit cost for the year 2033-34: 60417.08


 District Forest Officer,
 Mahabubabad


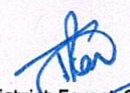
**Unit Cost for 9th year maintenance of NTSH Plantations Raised under Semi Mechanical Method as per FSR
2023-24**

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	02.11.03	Weeding and saucer formation to a radius of 0.50 mtr around the plant in the entire plantation during June/July.	1111 Nos	191.53	47.88	239.41	100 Nos	2660
2	02.11.04	Circular weeding to a radius of 0.50 m around the plant (i.e. November)	1111 Nos	890.24	222.56	1112.80	100 Nos	12363
3	02.11.05	Pruning of lower branch initials of Timber and NTFP species by sciculture upto 1/3 rd height (to be carried out during July-Aug)	1111 Nos	146.59	36.65	183.24	100 Nos	2036
4	02.11.07	Contingencies provision for maintainence of plantaitons:						
5		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					853
	02.11.08	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	10846.93	0	10846.93	1 Month	4881
				Total unit rate arrived for the year 2023-24::				23293.40
				Unit cost for the year 2024-25:				25622.74
				Unit cost for the year 2025-26:				28185.01
				Unit cost for the year 2026-27:				31003.52
				Unit cost for the year 2027-28:				34103.87
				Unit cost for the year 2028-29:				37514.25
				Unit cost for the year 2029-30:				41265.68
				Unit cost for the year 2030-31:				45392.25
				Unit cost for the year 2031-32:				49931.47
				Unit cost for the year 2032-33:				54924.62
				Unit cost for the year 2033-34:				60417.08
				Unit cost for the year 2034-35:				66458.79


 District Forest Officer,
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**Unit Cost for 10th year maintenance of NTSH Plantations Raised under Semi Mechanical Method as per FSR
2023-24**

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	02.11.03	Weeding and saucer formation to a radius of 0.50 mtr around the plant in the entire plantation during June/July.	1111 Nos	191.53	47.88	239.41	100 Nos	2660
2	02.11.04	Circular weeding to a radius of 0.50 m around the plant (i.e. November)	1111 Nos	890.24	222.56	1112.80	100 Nos	12363
3	02.11.05	Pruning of lower branch initials of Timber and NTFP species by sciculture upto 1/3 rd height (to be carried out during July-Aug)	1111 Nos	146.59	36.65	183.24	100 Nos	2036
4	02.11.07	Contingencies provision for maintainence of plantaitons:						
5		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					853
	02.11.08	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	10846.93	0	10846.93	1 Month	4881
				Total unit rate arrived for the year 2023-24::				23293.40
				Unit cost for the year 2024-25:				25622.74
				Unit cost for the year 2025-26:				28185.01
				Unit cost for the year 2026-27:				31003.52
				Unit cost for the year 2027-28:				34103.87
				Unit cost for the year 2028-29:				37514.25
				Unit cost for the year 2029-30:				41265.68
				Unit cost for the year 2030-31:				45392.25
				Unit cost for the year 2031-32:				49931.47
				Unit cost for the year 2032-33:				54924.62
				Unit cost for the year 2033-34:				60417.08
				Unit cost for the year 2034-35:				66458.79
				Unit cost for the year 2035-36:				73104.67




 District Forest Officer,
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Map Showing the area of 5.7 Ha SZA of JKOC Project

Write a description for your map.



Legend	
	Bit - I 4.18 Hectors
	Bit - II 1.54 Hectors

1000 ft

Google Earth

Image © 2023 Airbus

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KGT