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Compensatory Afforestation Scheme for diversion of 18.68 Ha for 400 QMDC line from the proposed 4 x 270 MW Bhadradi Thermal Power Station Near Manuguru to the proposed 400/220 KV SS at Padamati Narsapuram village, Julurpad Mandal in favour of Chief Engineer, Projects II/TS, TRANSCO, Vidyutsoudha, Hyderabad

I. Introduction :

1. The Prl. Chief Conservator of Forests, TS, Hyderabad in reference No.17743/2015/FCA-3 dt. 27.07.2016 while enclosing the proposals received from the Chief Engineer, Projects II/TS, TRANSCO, Vidyutsoudha, Hyderabad for construction of 400 QMDC line from the proposed **4 x 270 MW Bhadradi Thermal Power Station Near Manuguru** to the proposed 400/220 KV SS at Padamati Narsapuram village, Julurpad Mandal, Khammam District to an extent of 19.2096 Ha, and issued instructions to process the proposals as per Forest (Conservation) Act, 1980. The actual area after survey comes to 18.68 Ha. Due to non-availability of non-forest lands with the District Administration, the User Agency requested the Department to identify double the extent of forest land diverted for CA purpose.

(a) Total Area diverted is 18.68 Ha

(b) Double the area to be identified is 37.36 Ha

II. Identification of degraded area:

The Forest Range Officer, Ramavaram, to whom the matter was referred for identification of double the extent of degraded area in lieu of diversion of forest land of 18.68 Ha for the above mentioned projects, has identified degraded forest land of 37.36 Ha in Compartment No. 34 of Damaracherla Beat and Compartment No.35 of Abbugudem Beat, Abbugudem Section of Ramavaram Range. The surveyed sketch of the double the degraded area and location on Toposheet 1:50000 is enclosed to the scheme proposals.

III. Planting Techniques

It is proposed to raise Miscellaneous Plantation by adopting artificial regeneration under Semi-Mechanical Method and also through labour intensive method in the following degraded forest areas in the following areas. The said areas with black cotton soil, red loam soil and sandy soil which are suitable for planting for raising Miscellaneous plantation as per the guidelines issued by Prl. Chief Conservator of Forests in Rc.No.43246/2012/CAMPA, dt.29.11.2012. It is noticed that the afforestation will prevent the attempt of encroachment besides cover the forest land with good tree growth.

III.A. Activities proposed in Artificial Regeneration under Semi-Mechanical Method in Degraded forest of 37.36 Ha

1. Raising of misc. nursery: The seedlings suitable such as for soil with two years old are to be raised in the nursery for planting during 2016-17.

2. **Taking up advance operations:** The advance works under Semi-Mechanical Method in Ramavaram Range includes clearance of misc. growth, uprootal of stumps, heaping and burning .
3. **Raising of plantations:** The esplacement proposed is 3 M x 2 M - 1666 plants/ Ha. The activities includes ploughing, alignment, Scoping and Planting in 45 Cms. Cub pits, with misc. species under the direct supervision of Forest Range Office concerned. One circular weeding, Circular weeding, deep soil working, Application of fertilizers, inter-ploughing, protection watcher, digging of cattle proof trench top width 1.5M, bottom width 1 M and height 1M @ 125 Cmt. per Ha.
4. Maintenance of plantations up to 7 years as per calendar operations.
5. Planting targets proposed.
 - 2017-18 - Raising of 4x7 Bag Nurseries
 - 2018-19 - Advance Operations & Maint of Nurseries - 37.36 Ha
 - 2019-20 - Raising of Plantation
 - 2020-21 to 2026-27 - Maintenance of Plantation

IV. **Project period**

It is proposed to implement the scheme from 2017-18 to 2026-27 for a period of (10) years.

V. **Project Implementation Agency**

The Divisional Forest Officer, Kothagudem will be the Project Implementation Agency and work will be taken through the Forest Range Officer, Ramavaram in Damaracharla and Abbugudem Beats. The raising of Compensatory Afforestation Plantation requires additional manpower and mobility. Hence, it is proposed to hire services of one forester in Ramavaram Range, one Data Entry Operator for initial (3) years in Division office. Similarly one hired vehicle will be engaged for initial (2) years. Accordingly, necessary provisions are made in the Scheme proposals.

VI. **Cost structure**

Basic rates proposed as per FSR 2016-17 and 10% price escalation is proposed every year on the basic rate of FSR 2016-17. Nursery for all required seedlings will be raised at one central place and accordingly required infrastructure is proposed in the scheme. The details of year-wise physical and financial target are enclosed in Annexure No. 1. Unit cost of different planting techniques and plantation operations are shown in Annexure No. 2 (A) to 2 (C).

VII. **Cost of the (Scheme) Project**

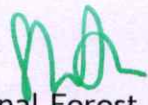
Total cost of the project is Rs. 173.876 lakhs. The details are shown in Annexure 3.

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VIII. Employment Generation

The degraded forest land proposed for Compensator Afforestation is located in Kothagudem and Chandrugonda Mandal in Agency Area. The local labour mostly Tribals along with Scheduled Castes will be benefitted by implementation of this project for their daily livelihood, generation expected to be created is 42203 man days during the project period from 2017-18 to 2026-27 (60% manual component 42203 wage rate during 2017-18 on Rs. 412/- per day.

Further, it is mentioned that in case the selected locations and the areas are unavailable for taking up planting anticipating the delay of approval of the proposal, suitable degraded areas will be selected and planting will be taken up and accordingly the deviation, in any in implementing the scheme will be borne by the User Agency in the jurisdiction of Kothagudem Division. Similarly, it is also mentioned that the User Agency will be remitting the equal amount into CAMPA Account, in case the degraded forest lands were taken up for re-afforestation with any funding agency since Kothagudem Forest Division has been taking up re-afforestation in the retrieved areas of forest lands, where encroachment problem is severe. To curb the encroachment problem and re-afforestation the gap areas this modification is proposed.



Divisional Forest Officer
Kothagudem

10/8/16

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Site Inspection Report of 37.36 Ha of degraded forest areas identified in Damaracheral and Abbugudem Beats of Ramavaram Range for diversion of 18.68 Ha for 400 QMDC line from the proposed 4 x 270 MW Bhadradri Thermal Power Station Near Manuguru to the proposed 400/220 KV SS at Padamati Narsapuram village, Julurpad Mandal in favour of Chief Engineer, Projects II/TS, TRANSCO, Vidyutsoudha, Hyderabad

I have inspected the degraded forest areas of 37.36 ha in Compt. No.34 of Damaracharla Beat and Compt No.35 in Abbugudem Beat along with Forest Range Officer, Ramavaram and concerned filed staff on 04.04.2016. The degraded area is identified for raising Compensatory Afforestation plantation under S.M.M. Method. The C.A. area identified is double the degraded forests (37.36 Ha) against the proposed diversion of 18.68 ha of forest land in Chatakonda Reserve Forest of Kothagudem Range of Kothagudem Division in favour of Chief Engineer, Projects II/TS, TRANSCO, Vidyutsoudha, Hyderabad. The forest type in previous years is Southern Tropical dry deciduous forest and at present the area is totally degraded due to encroachments. The soils are Black Cotton, Red soil and sandy. This area is suitable for raising C.A. plantations. It is also proposed to take up plantation with Misc. species as per the Prl. Chief Conservator of Forests, Hyderabad instructions issued in Ref.No.43246/2012/CAMPA dt.29.11.2012. The detailed scheme proposals are enclosed.

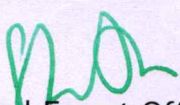

Divisional Forest Officer
Kothagudem


10/4/16

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CERTIFICATE

This is to certify that the 37.36 Ha of degraded forest area identified in Ramavaram Range in lieu of forest land of 18.68 Ha diverted in Kothagudem Range in Kothagudem Division in favour of Chief Engineer, Projects II/TS, TRANSCO, Vidyutsoudha, Hyderabad. in Compt.No.34 of Damaracheral Beat, Compt.No.35 of Abbugudem Beat of Ramavaram Range of Kothagudem Division is suitable for raising Misc. Plantations. These areas are not allotted to any V.S.S. of Ramavaram Range. Preference is to be given to raise plantations with local species at the choice of the local villagers but at the technical guidance of the forest staff to avoid encroachment on the said proposed areas once prone for encroachment.


Divisional Forest Officer
Kothagudem

10/8/16

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Cost of extraction charges in proposed diversion of 18.68 Ha Forest Land in Chatakonda R.F for Diversion of 18.68 Ha for 400 QMDC line from the proposed 4x70 MW Bhadradi Thermal Power Station Near Nuguru to the proposed 400/220 KV SS at Padamati Narsapuram village, Julurpad (FSR of 2016-17 of Zone-II including 25% extra over basic rate)

Sl. No.	FSR Item No.	Description of work	Quantity	Unit	Rate	Amount
1	2	3	4	5	6	7
	03.01.00	MARKING AND ENUMERATION OF STNDING TREES				
1	03.01.01	Marking of trees for retention as reserves	207	Nos	235.18	487
		EXTRACTION OF TIMBER				
		Conversion of illicitly felled trees including those found during beat inspection including digiting on the stump, belting, measuring, painting and digiting	0	0	0	0
2	03.01.12	Non-Teak	35.728	Cu.M	347.35	12410
3	03.01.13	Labour amenities for working in coupe or unit i.e., providing shelter, supply of drinking water and medical aid etc., to the labourers.	18.68 Ha	Bits	20072.40	20072
4	03.01.14	Purchase of saws with sharpening tools.	L.S	0	0	2865.5
5	03.01.15	Watch and ward charges at coupe (Timber and Fuel) (As per average of minimum wage fixed by District Collectors in the state for unskilled labour)	1	Month	7500	7500
6	03.01.16	Dragging of timber to loading point - plain areas	35.728	Cu.M	199.94	7143
7	03.08	EXTRACTION OF POLES				
		Felling and conversion of poles in DET areas/ illicitly felled trees including those found in beat inspection and thinning areas:				
a)	03.08.01	(a) Upto 30 cm basal girth	60	Nos	6.35	381
b)	03.08.02	(b) 31 cms to 45 cms basal girth	23	Nos	13.50	311
c)	03.08.03	(c) 46 cms to 60 cms basal girth	43	Nos	19.58	842
	03.02	TRANSPORTATION				
8	03.02.01	Preparation/repairs of Lorry/ Cart track NOTE: There should not be separate expenditure for preparation of lorry/cart track for timber, fuel, pole brought from the single area.	35.728	Cu.M	66.70	2383
9	03.02.04	Transportation of timber by carts from beat / section Hq. including loading, unloading, dragging charges etc.				
a)		Upto 1st 10 Kms lead:. lead Depot at Yellandu 30 Kms				
	03.02.05	Non-Teak (Up to 1st 10 KMs)	35.728	Cu.M	832.90	29758
b)		(ii) 11 Kms to 30 Kms (per each KM)				
	03.02.07	Non-Teak (20 KMs)	35.728	Cum	32.08	22923
10	03.04	EXTRACTION OF FUEL				
	03.04.01	Felling, billeting and stacking of fire wood stacks of size 0.80M x 1.25 M x 1.0 Mt	150	Cu.M	203.71	30557
11	03.03	LOTING AND CLASSIFICATION AT DEPOT				
a)	03.03.01	Depot numbering of logs with paints (including cost of paints)	100	Cu.M	0.97	97
b)	03.03.02	Lotting of timber	35.728	Cu.M	315.90	11286
c)	03.03.05	Belting and measuring	100	Cu.M	21.82	2182
d)	03.03.06	Cost of paints for painting the lot boards	100	Cu.M	11.6	1160
e)	03.03.07	Purchase of Tapes, Ropes and Stationery etc.,	100	Cu.M	17.9	1790
f)	03.03.08	Electricity Charges for Depot	6 months	A/a	1000/- per month	6000
12	03.05	SALE DEPOTS				
a)		Misc. expenditure for conducting sales of timber, fuel, poles & bamboo including refreshment for bidders in the sale depots etc.,				
	03.05.01	Upto 150 CMT irrespective of quantity	6 months	Per sale	3052.40	18314
13	03.05.03	Clearance of depot site in the month of November or December (per annum)	1 time	Ha / season	591.41	591
14		Casual Labours (2 Nos x 6 months x 7500/- per month per each)	6 Monthsx 2 Nos	7500	Month	75000
					Total::	254054

10/8/15


Divisional Forest Officer
Kothagudem

**ANNEXURE-I
ABSTRACT**

CA Scheme for Diversion of 18.68 Ha for 400 QMDC line from the proposed 4x70 MW Bhadradri Thermal Power Station Near Manuguru to the proposed 400/220 KV SS at Padamati Narsapuram village, Julurpad Mandal

CA Scheme in degraded Forest (NTFP)

CA Scheme for Diversion of 18.68 Ha for 400 QMDC line from the proposed 4x70 MW Bhadradi Thermal Power Station Near Mangalore to the proposed																																
Year	CA Scheme in degraded Forest (NTFP)																										Cost of Fencing (CPT)	Total Amount in Lakhs				
	Raising & Maint of Nurseries			Advance Operations			Raising of Plantation			1st year maint			2nd year maint			3rd year maint			4th year maint			5th year maint			6th year maint				7th year maint			
	Phy.	Unit Rate	Amount in Lakhs	Phy.	Unit Rate	Amount in Lakhs	Phy.	Unit Rate	Amount in Lakhs	Phy.	Unit Rate	Amount in Lakhs	Phy.	Unit Rate	Amount in Lakhs	Phy.	Unit Rate	Amount in Lakhs	Phy.	Unit Rate	Amount in Lakhs	Phy.	Unit Rate	Amount in Lakhs	Phy.	Unit Rate			Amount in Lakhs	Phy.	Unit Rate	Amount in Lakhs
																															4.110	
2017-18	37.36	0.110	4.110																											1.98	22.901	
2018-19	37.36	0.112	4.184	37.36	0.448	16.737																									33.474	
2019-20	37.36	0.031	1.158				37.36	0.865	32.316																						15.878	
2020-21										37.36	0.425	15.878																			10.573	
2021-22													37.36	0.283	10.573																11.656	
2022-23																37.36	0.312	11.656													12.814	
2023-24																			37.36	0.343	12.814										14.085	
2024-25																						37.36	0.377	14.085							15.504	
2025-26																									37.36	0.415	15.504				17.074	
2026-27																											37.36	0.457	17.074		1.980	158.069
TOTAL::	37.36	0	9.452	37.36	0	16.737	37.36	0	32.316	37.36	0	15.878	37.36	0	10.573	37.36	0	11.656	37.36	0	12.814	37.36	0	14.085	37.36	0	15.504	37.36	0	17.074	1.980	158.07
																															Administration Cost (10%) ::	15.807
																														GRAND TOTAL::	173.876	


Divisional Forest Officer,
Kothagudem

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ANNEXURE- 2 (A)

Unit Cost for Raising of Misc., Nursery (4x7) in the year 2017-18 as per FSR 2016-17

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		PRIMARY BEDS of 1x1x0.3 m size for Miscellaneous species including bamboo - 50 primary beds for 1 lakh nursery is permitted. Primary beds should start from Jan - May depending on availability of fresh seeds. Once primary beds are formed, they can be used upto 5 years without changing the medium - what is required each time is solarization, burning a layer of grass on it and adding the below recommended fungicides and insecticides to the medium.						
1	01.01.01	Preparation of New Site by clearing jungle growth, uprootal of stumps and removal of surface stones, pebbles etc.	1 Bed	4.32	1.08	5.40	1 Bed	5.40
2	01.01.03	Digging soil of the demarcated beds of 1x1x0.30 m size	1 Bed	33.26	8.32	41.58	1 Bed	41.58
3	01.01.04	Cost of sandy soil and transportation with 5 kms lead including loading and unloading charges (sandy soil and FYM in 5:1 ratio, i.e., 0.125 cum sandy soil and 0.025 cum FYM per primary bed	1 Bed	25.45	6.36	31.81	1 Bed	31.81
4	01.01.05	For every extra km beyond 5 km upto 25 km	1 Bed	1.01	0	1.01	1 Bed	25.25
5	01.01.06	Cost and transport of 0.025 cum FYM	1 Bed	21.87	0	21.87	1 Bed	21.87
6	01.01.07	Mixing of sandy soil and FYM in 5:1 proportion (50 % of volume of bed) with excavated soil and refilling the bed and levelling.	1 Bed	9.45	2.36	11.81	1 Bed	11.81
7	01.01.08	Covering the beds with dried grass and leaf litter and burning them to ash which can form the upper layer	1 Bed	10.80	2.70	13.50	1 Bed	13.50
8	01.01.10	Cost of seed - seed weight, germination percentage and target of planting stock of individual species are to be taken into consideration while estimating the requirement of seeds	1 Bed	A/a				500.00
9	01.01.12	Sowing of seed (finer seeds like Adina, Mitragyna, Anthocephalus etc. to be mixed with sand and broadcasted - Bigger seeds to be dibbled in lines 1-2 cm apart) and covering the bed to a thickness of 2.5 cm with paddy hay including cost and conveyance	1 Bed	10.75	2.69	13.44	1 Bed	13.44
10	01.01.13	Watering the primary nursery beds with rose water cans twice daily for a maximum period of 2 months.	1 Bed	12.10	3.03	15.13	1 Bed	30.25
11	01.01.15	Cost of chemicals, fungicide and insecticide	1 Bed	As per actuals limited to Rs. 1000/- per 1 lakh seedlings in primary bed stage				1000.00
							S.TOTAL::	1694.91
12	1.03	BAG PLANT NURSERY: Seedlings need to be raised in 4"x7" (200 gauge) or 5"x9" (250 gauge) bags which are to be converted into 6"x12" (400 gauge) or 8"x12" (400 gauge) polybags. The seedlings are to be transplanted from primary beds in June - July. Hence the bags are to be filled during April-May when the soil is dry.						

		Raising of Nursery in Polythene bags in sizes of 4"x7" (200 gauge) or 5"x9" (250 gauge) bags and arranging in secondary beds (Bed size: 10 X 1 M)								
	01.03.01	Site preparation for New Sites - Clearing of growth, uprootal of stumps and removal of surface stones, rubbish of all sorts etc.	1	Nos	44.12	11.03	55.15	1	Bed	55.15
13		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	10 cm x 17.5 cm (4" x 7") size bags of 200 g: 589 bags / kg	4.41	Kgs	156.00	0.00	156.00	1	Kg	687.96
14		Cost and Transport of ingredients for Potting Mixture: (As per CSSR) Red Soil, tank-silt, 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.								
		Transportation of soil mixture ingredients								
a)		a) Distance up to 5 km								
	01.03.05	10 cm x 17.5 cm (4" x 7") = 0.56 cum vol. for 1000 bags	2600	Nos	174.06	0.00	174.06	1000	Nos	452.56
b)		b) For every extra km beyond 5 km upto 25 km								
	01.03.07	10 cm x 17.5 cm (4" x 7") = 0.56 cum vol. for 1000 bags	2600	Nos	4.54	0.00	4.54	1000	Nos	236.08
15		Preparation of Potting Mixture by powdering of various ingredients, sieving and mixing them in prescribed proportion; opening of bags and filling with potting mixture and gently pressing the same with finger tips and arranging in beds								
	01.03.09	10 cm x 17.5 cm (4" x 7") size bags: 2600 bags / bed	2600	Nos	509.22	127.31	636.53	1000	Nos	1654.98
16	01.03.11	Alignment of beds including alignment of inspection paths etc	1	Bed	6.59	1.65	8.24	1	Bed	8.24
17	01.03.12	Pricking out seedlings from primary beds and transplanting into polybags	2600	Nos	122.74	30.69	153.43	1000	Nos	398.92
18	01.03.13	Sowing / dibbling of pretreated seeds (e.g. Yegisa, Nalamadi, Yerumaddi etc.) directly into bags including cost of treatment	2600	Nos	73.01	18.25	91.26	1000	Nos	237.28
19		Watering the plants twice a day from July - October								
	01.03.14	a) Manually with rose spray or finely perforated nozzle attached to a hose pipe	1	Bed	238.19	59.55	297.74	1	Bed/ Month	1190.96
20		Weeding the plants from July to October (3 times)								
	01.03.16	1st weeding - July	1	Bed	43.74	10.94	54.68	1	Bed/ Weeding	54.68
	01.03.17	2nd weeding - Aug	1	Bed	43.74	10.94	54.68	1	Bed/ Weeding	54.68
	01.03.18	3rd weeding - Sept	1	Bed	43.74	10.94	54.68	1	Bed/ Weeding	54.68
21		Shifting, Grading and rearranging in beds of 10x1 m size beds (2600 no. of 4"x7"bags; 1700 no. of 5"x9" bags)								
	01.03.19	One Grading in Sept.	1	Bed	204.28	51.07	255.35	1	Bed/ Shifting	255.35
22	01.03.20	Replacement of casualties after sorting out the empty bags and keeping at one end of the bed (maximum 10% of total stock is permissible)	1	Bed	58.00	14.50	72.50	1	Bed	72.50

23	01.03.21	Cost of foliar nutrient formulations like multiplex or NPK-19:19:19; fungicides and insecticides from July to Oct.	1	Bed	As per actuals with a maximum limit of Rs. Rs. 2000/ per 1 lakh polybag seedlings.				53.00	
24	01.03.23	Weeding in the space between the beds, inspection path and surroundings of Nursery	1	Bed	29.81	7.45	37.26	1	Bed	37.26
25	D.C Rate	Watch and Ward								50.00
26		CONVERSION of RT plants or 4"x7" or 5"x9" bag-plants into higher size bags - to be done during November-December. At the time of conversion, the height of the plants should be at least above 0.45m in height (excluding the height of polybag).						S.TOTAL::		5554.28
		Cost and Transport of ingredients for Potting Mixture: Red Soil, tank-silt, 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.								
		Transportation of soil mixture ingredients								
		a) Distance up to 5 km								
	01.03.26	4" x 7" to 6" x 12" polybags (2.15 - 0.56 = 1.59 cum)	1100	Nos	494.29	123.57	617.86	1000	Nos	679.65
		b) For every extra km beyond 5 km upto 25 km								
	01.03.31	4" x 7" to 6" x 12" polybags (2.15 - 0.56 = 1.59 cum)	1100	Nos	12.88	3.22	16.10	1000	Nos	354.20
		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								
	01.03.36	4" x 7" to 6" x 12" polybags (2.15 - 0.56 = 1.59 cum)	1100	Nos	870.78	217.70	1088.48	1000	Nos	1197.33
		Weeding the plants (1100 no. of 6"x12"bags; 800 no. of 8"x12" bags; and 400 no. of 10"x16" bags) from November - March: 2 weedings								
	01.03.44	1st weeding - December	1	Bed	43.74	10.94	54.68	1	Bed	54.68
	01.03.45	2nd weeding - February	1	Bed	43.74	10.94	54.68	1	Bed	54.68
	01.03.46	Shifting, Grading and rearranging in secondary beds - One Grading in February	1	Bed	204.28	51.07	255.35	1	Bed/ Weeding	255.35
		Watering the plants manually twice a day (from November - March) with rose spray or finely perforated nozzle attached to a hose pipe.								
	01.03.47	Manually with rose spray or finely perforated nozzle attached to a hose pipe	1	Bed	238.19	59.55	297.74	1	Bed/ month	1488.70
23	01.03.50	Cost of foliar nutrient formulations like multiplex or NPK-19:19:19; fungicides and insecticides from July to Oct.	1	Bed	As per actuals with a maximum limit of Rs. Rs. 2000/ per 1 lakh polybag seedlings.				53.00	

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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 provisions cited under general instructions.	1 No.							996.00
25	01.03.51	Contingencies for Raising Year towards the expenditure like cost of hose pipe, nursery boards, electricity charges, running and maintenance charges of oil engines (Bills to be certified by ACF / DFO; and separate logbook for repair of motor or oil engine and store register for materials purchased.	As per actuals, subject to max. of 5 % of estimate in Maint. Year.							569.34
									S.TOTAL::	5702.93
									Unit Rate as per FSR 2016-17::	12952.12
									Add 10% escalation::	1295.00
									Total unit rate arrived for the year 2017-18::	14247.12
									Cost per seedling::	5.480
									Cost per Ha::	10960.00

Unit Cost Maintenance of Misc., Bag Plants (6x12) Nursery (04/18 to 07/18= 4 Months) as per FSR 2016-17

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
		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		Watering polybag secondary beds twice a day for 4 months								
	01.04.01	Manually with rose spray or finely perforated nozzle attached to a hose pipe	1 x 4	Beds x month	238.19	59.55	297.74	1	Bed/ Month	1191.00
2	01.04.03	Weeding once during maintenance year	1	Bed	43.74	10.94	54.68	1	Bed	55.00
3	01.04.04	Shifting, grading and re-arranging in beds for 10 m X 1 m size bed max. two shifts (one in April and another in June)	1 x 2	Beds x shifting	215.68	53.92	269.6	1	Bed/ shifting	539.00
4		Cowdung Slurry application (One can apply chemical foliar spray or apply cowdung slurry - not both)								
	01.04.07	Preparation of cowdung slurry -	1	Bed	As per actual subject to maximum of Rs. 1500/-					15.00
5	01.04.08	Application of cowdung slurry - only once between April to June - Watering should not be done 12 hours before and after application of cowdung slurry treatment	1100	Bed	179.17	44.79	223.96	1000	Nos	246.00

829.97

6	01.04.09	Weeding in the space between the beds, inspection path and surroundings of Nursery	1	Bed	24.08	6.02	30.1	1	Bed	30.00
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.						332.00
8	01.04.10	Contingencies for Maint. Year towards the expenditure like cost of hose pipe, nursery boards, electricity charges, running and maintenance charges of oil engines (Bills to be certified by ACF / DFO; and separate logbook for repair of motor or oil engine and store register for materials purchased.	As per actuals, subject to max. of 5 % of estimate in Maint. Year.							103.80
									S.TOTAL::	2511.80
									Unit Rate as per FSR 2016-17::	2511.80
									Add 10% escalation::	251.00
									Rate for 2017-18::	2762.80
									Add 10% escalation::	276.00
									Total unit rate arrived for the year 2018-19::	3038.80
									Cost per seedling::	2.763
									Cost per Ha::	5526.00

Unit Cost Maintenance of Misc., Bag Plants (6x12) Nursery (08/18 to 03/19= 8 Months) as per FSR 2016-17

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	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	144.5	36.13	180.63	1	Bed/ Month	1445.00
2	01.05.02	Shifting, grading and re-arranging in beds for 10 m X 1 m size bed - with prior written permission of Circle Head	1 x 2	Beds x shifting	186.84	46.71	233.55	1	Bed/ shifting	467.00

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6	01.04.09	Weeding in the space between the beds, inspection path and surroundings of Nursery	1	Bed	24.08	6.02	30.1	1	Bed	30.00
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.						332.00
8	01.04.10	Contingencies for Maint. Year towards the expenditure like cost of hose pipe, nursery boards, electricity charges, running and maintenance charges of oil engines (Bills to be certified by ACF / DFO; and separate logbook for repair of motor or oil engine and store register for materials purchased.	As per actuals, subject to max. of 5 % of estimate in Maint. Year.							103.80
									S.TOTAL::	2511.80
									Unit Rate as per FSR 2016-17::	2511.80
									Add 10% escalation::	251.00
									Rate for 2017-18::	2762.80
									Add 10% escalation::	276.00
									Total unit rate arrived for the year 2018-19::	3038.80
									Cost per seedling::	2.763
									Cost per Ha::	5526.00

Unit Cost Maintenance of Misc., Bag Plants (6x12) Nursery (08/18 to 03/19= 8 Months) as per FSR 2016-17

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	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	144.5	36.13	180.63	1	Bed/ Month	1445.00
2	01.05.02	Shifting, grading and re-arranging in beds for 10 m X 1 m size bed - with prior written permission of Circle Head	1 x 2	Beds x shifting	186.84	46.71	233.55	1	Bed/ shifting	467.00

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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.							664.00
										S.TOTAL::	2576.00
										Unit Rate as per FSR 2016-17::	2576.00
										Add 10% escalation::	258.00
										Rate for 2017-18::	2834.00
										Add 10% escalation::	283.00
										Total unit rate arrived for the year 2018-19::	3117.00
										Cost per seedling::	2.834
										Cost per Ha::	5668.00

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Unit Cost Maintenance of Misc., Bag Plants (6x12) Nursery (04/19 to 07/19= 4 Months) as per FSR 2016-17

Sl. No.	FSR Code No.	Item of work	Qty		Rate in Rs.			Per		Amount
					Asper FSR	Agency allowanc e 25%	Total			
1	2	3	4		5	6	7	8		9
	1.05	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 4	Beds x month	144.5	36.13	180.63	1	Bed/ Month	723.00
2	01.05.02	Shifting, grading and re-arranging in beds for 10 m X 1 m size bed - with prior written permission of Circle Head	1 x 1	Beds x shifting	186.84	46.71	233.55	1	Bed/ shifting	234.00
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 secondray beds or Teak beds of 10 x 1 m size or combination of both. For more than 3 lakh RT or 300 secodary beds of Teak bedsor 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.							332.00
								S.TOTAL::		1289.00
					Unit Rate as per FSR 2016-17::					1289.00
								Add 10% escalation::		129.00
								Rate for 2017-18::		1418.00
								Add 10% escalation::		142.00
								Rate for 2018-19::		1560.00
								Add 10% escalation::		156.00
					Total unit rate arrived for the year 2019-20::					1716.00
								Cost per seedling::		1.560
								Cost per Ha::		3120.00
					GRAND TOTAL::					25274.00


Divisional Forest Officer,
Kothagudem

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ANNEXURE- 2 (B)

Unit Cost for Advance Operations in the year 2018-19 under Semi Mechanical Method as per FSR 2016-17

Espacement 3 x 2 M				Name of the Species : Misc.				
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		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.	311.04	0.00	311.04	1 No.	311
1		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. The unsuitable area shall be excuded from the clearing opearation and the expenditure shall be incurred for effective area only. All the above operations shall be completed before December.						
a)	02.08.04	Light Jungle Growth (> 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on field inspection of DFO	1 Ha	5207.65	1301.91	6509.56	1 Ha	6510
2		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 retrived 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						
a)	02.08.07	Light Jungle Growth (> 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on field inspection of DFO	1 Ha	10965.25	0	10965.25	1 Ha	10965
3		Collection and Removal of Uprooted Stumps of all sizes, other debris etc., to outside the plantation site.						
a)	02.08.10	Light Jungle Growth (> 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on field inspection of DFO	1 Ha	8585.68	2146.42	10732.10	1 Ha	10732

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4		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 befor end of March.					
a)	02.08.13	Light Jungle Growth (> 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on field inspection of DFO	1 Ha	8527.85	0.00	8527.85	1 Ha 8528
						Unit Rate as per FSR 2016-17::	37046.00
						Add 10% escalation::	3705.00
						Rate for 2017-18::	40751.00
						Add 10% escalation::	4075.00
						Total unit rate arrived for the year 2018-19::	44826.00

Unit Cost for Raising of Plantations in the year 2019-20 under Semi Mechanical Method as per FSR 2016-17

Espacement 3 x 2 M

Name of the Species : Misc.,

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		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 UNTILLED AREA) - to be completed by 15th of June						
	02.09.01	Ordinary soil	1 Ha	3004.60	0	3004.60	1 Ha.	3005
2	02.09.04	Removing congestion of root suckers and other uprooted material hindering the effective ploughing	1 Ha	853.42	213.36	1066.78	1 Ha.	1067
3		Allignment & Stacking including demarcation of base line						
a)	02.09.06	2X3 m espacement = 1666 planting points	1666 Nos	66.74	16.69	83.43	100 Nos	1390
4	02.09.09	Cost of preparation of stakes (0.45 m length) and transportation of site	1666 Nos	47.30	0.00	47.30	100 Nos	788
5		Digging of Pits in Ploughed Areas in June - July by adopting 50% of original rate of digging of pits of ordinary soil						
	02.09.11	45 cm3 pits	1666 Nos	8.84	2.21	11.05	1 No	18409
		PLANTING OPERATIONS DURING RAISING YEAR						
6		Transportation of Planting Stock (including loading and unloading) Total :: 30 KMs						
a)		From nursery to plantation site - upto 5 Km lead						
	02.09.13	15 X 30 cm (6"X12") bag plants	1666 Nos	96.79	0	96.79	100 Nos	1613
b)		From nursery to plantation site - beyond 5 Km lead						
		For every extra km beyond 5 km upto 25 km (20 KMs)						
	02.09.16	15 X 30 cm (6"X12") bag plants	1666 Nos	3.38	0	3.38	100 Nos	1126
c)		For every extra km beyond 25 km (with prior written approval of Circle Head) (5 KMs)						

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	02.09.19	15 X 30 cm (6"X12") bag plants	1666 Nos	1.69	0	1.69	100 Nos	141
		Internal transportation to planting points on head loads						
	02.09.22	15 X 30 cm (6"X12") bag plants	1666 Nos	76.25	19.06	95.31	100 Nos	1588
8	02.09.24	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	1666 Nos	32.62	8.16	40.78	100 Nos	679
9	02.09.25	Cost of SSP, Chloridine dust or Chloropyriphos	85 Kgs	6.00	0.00	6.00	1 Kg	510
10		Planting						
	02.09.27	45 cm3	1666 Nos	363.37	90.84	454.21	100 Nos	7567
11	02.09.29	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						
	02.09.11	45 cm3 pits	333 Nos	4.42	1.11	5.53	1 No	1841
		PLANTING OPERATIONS DURING RAISING YEAR						
b)		Transportation of Planting Stock (including loading and unloading)						
a)		From nursery to plantation site - upto 5 Km lead						
	02.09.13	15 X 30 cm (6"X12") bag plants	333 Nos	96.79	0	96.79	100 Nos	322
b)		From nursery to plantation site - beyond 5 Km lead						
		For every extra km beyond 5 km upto 25 km (20 KMs)						
	02.09.16	15 X 30 cm (6"X12") bag plants	333 Nos	3.38	0	3.38	100 Nos	225
c)		Internal transportation to planting points on head loads						
	02.09.22	15 X 30 cm (6"X12") bag plants	333 Nos	76.25	19.06	95.31	100 Nos	317
d)		Planting						
	02.09.27	45 cm3	333 Nos	363.37	90.84	454.21	100 Nos	1513
12		Fertilizer Application for boosting growth						
		Cost of DAP @ 25 gm / planting point	42 Kgs	20.00	0.00	20.00	1 Kg	840
13	02.09.30	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.	1666 Nos	32.62	8.16	40.78	100 Nos	679
14		WEEDING & SOIL WORKING						
	02.09.31	Circular weeding to a radius of 0.50 m around the plant (during July - Aug)	1666 Nos	103.79	25.95	129.74	100 Nos	2161
	02.09.32	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant (during Nov - Dec)	1666 Nos	545.08	136.27	681.35	100 Nos	11351
15		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						
	02.09.33	Ordinary soil	1 Ha	2048.90	0	2048.90	1 Ha.	2049

16	02.09.35	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during October)	1666 Nos	103.19	25.80	128.99	100 Nos	2149
17	02.09.38	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers shall be pasted in respective Plantation Journal. Every month payment to be made after satisfaction by Plantation-in-charge that fence is in proper condition and entry of grazing animals is stopped. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival at the end of raising year.	2 Nos	0	0	0	1 Month	3700
18	-----	Miscellaneous (Plantation Board and etc.,)				A/a		
						Unit Rate as per FSR 2016-17::		65030.00
						Add 10% escalation::		6503.00
						Rate for 2017-18::		71533.00
						Add 10% escalation::		7153.00
						Rate for 2018-19::		78686.00
						Add 10% escalation::		7869.00
						Total unit rate arrived for the year 2019-20::		86555.00

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ANNEXURE- 2 (C)

Unit Cost for 1st year maintenance of Plantations in the year 2020-21 Raised under Semi Mechanical Method as per FSR 2016-17

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	02.10.01	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 planting shall be completed by 15th of July.						
I		Digging of Pits in Ploughed Areas in June - July by adopting 50% of original rate of digging of pits of ordinary soil						
	02.09.11	45 cm3 pits	417 Nos	8.84	2.21	11.05	1 No	4608
		PLANTING OPERATIONS DURING RAISING YEAR						
II		Transportation of Planting Stock (including loading and unloading) Total 35 KMs						
a)		From nursery to plantation site - upto 5 Km lead						
	02.09.13	15 X 30 cm (6"X12") bag plants	417 Nos	96.79	0	96.79	100 Nos	404
b)		From nursery to plantation site - beyond 5 Km lead						
		For every extra km beyond 5 km upto 25 km (20 KMs)						
	02.09.16	15 X 30 cm (6"X12") bag plants	417 Nos	3.38	0	3.38	100 Nos	282
c)		For every extra km beyond 25 km (with prior written approval of Circle Head) (10 KMs)						
	02.09.19	15 X 30 cm (6"X12") bag plants	417 Nos	1.69	0	1.69	100 Nos	70
IV		Internal transportation to planting points on head loads						
	02.09.22	15 X 30 cm (6"X12") bag plants	417 Nos	76.25	19.06	95.31	100 Nos	397
VI		Planting						
	02.09.27	45 cm3	417 Nos	363.37	90.84	454.21	100 Nos	1894
2	02.10.02	Circular weeding to a radius of 0.50 m around the plant during raising year (July - Aug)	1666 Nos	103.79	25.95	129.74	100 Nos	2161
3	02.10.03	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant (during Nov - Dec)	1666 Nos	545.08	136.27	681.35	100 Nos	11351
4	02.10.05	Inter-ploughing (during September) the effective plantation area (excluding unsuitable patches) across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough. This operation shall be carried out after Mahaveera uprootal is completed. Inter-ploughing should not be used as a means of Mahaveera uprootal.	1 Ha	2048.90	0.00	2048.90	1 Ha.	2049
5	02.10.06	Pruning of lower branch initials of Timber and NTFP species by sciculture upto 1/3 rd height (to be done during July-Aug)	1666 Nos	103.19	25.80	128.99	100 Nos	2149
6	02.10.08	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; one more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers shall be pasted in respective Plantation Journal. Every month payment to be made after satisfaction by Plantation-in-charge that fence is in proper condition and entry of grazing animals is stopped.	2 Nos	0.00	0.00	0.00	1 Month	3700
						Unit Rate as per FSR 2016-17::		29065.00
						Add 10% escalation::		2907.00

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3	02.09.10	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers shall be pasted in respective Plantation Journal. Every month payment to be made after satisfaction by Plantation-in-charge that fence is in proper condition and incidence of grazing and fire is absent. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival during 1st year maintainance period.					L.S	3700
4	-----	Miscellaneous contingencies like implements, plantation board display boards etc.,						398
							Unit Rate as per FSR 2016-17::	17607.00
							Add 10% escalation::	1761.00
							Rate for 2017-18::	19368.00
							Add 10% escalation::	1937.00
							Rate for 2018-19::	21305.00
							Add 10% escalation::	2131.00
							Rate for 2019-20::	23436.00
							Add 10% escalation::	2344.00
							Rate for 2020-21::	25780.00
							Add 10% escalation::	2578.00
							Rate for 2021-22::	28358.00
							Add 10% escalation::	2836.00
							Rate for 2022-23::	31194.00
							Add 10% escalation::	3119.00
							Rate for 2023-24::	34313.00
							Add 10% escalation::	3431.00
							Rate for 2024-25::	37744.00
							Add 10% escalation::	3774.00
							Total unit rate arrived for the year 2025-26::	41518.00

Unit Cost for 7th year maintenance of Plantations in the year 2026-27 Raised under Semi Mechanical Method as per FSR 2015-16

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	02.11.01	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant (July-Aug)	1666 Nos	545.08	136.27	681.35	100 Nos	11351
2	02.11.02	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be carried out during July-Aug)	1666 Nos	103.19	25.80	128.99	100 No	2149
3	02.09.10	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers shall be pasted in respective Plantation Journal. Every month payment to be made after satisfaction by Plantation-in-charge that fence is in proper condition and incidence of grazing and fire is absent. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival during 1st year maintainance period.					L.S	3700
4	-----	Miscellaneous contingencies like implements, plantation board display boards etc.,						398
							Unit Rate as per FSR 2016-17::	17607.00
							Add 10% escalation::	1761.00

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							Rate for 2017-18::	19368.00
							Add 10% escalation::	1937.00
							Rate for 2018-19::	21305.00
							Add 10% escalation::	2131.00
							Rate for 2019-20::	23436.00
							Add 10% escalation::	2344.00
							Rate for 2020-21::	25780.00
							Add 10% escalation::	2578.00
							Rate for 2021-22::	28358.00
							Add 10% escalation::	2836.00
							Rate for 2022-23::	31194.00
							Add 10% escalation::	3119.00
							Rate for 2023-24::	34313.00
							Add 10% escalation::	3431.00
							Rate for 2024-25::	37744.00
							Add 10% escalation::	3774.00
							Rate for 2025-26::	41518.00
							Add 10% escalation::	4152.00
							Total unit rate arrived for the year 2026-27::	45670.00


 Divisional Forest Officer,
 Kothagudem


 10/8/12