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CA scheme for 27.14 Ha Raising of NTSH Plantation in double degraded Forest Land at Compt.No.313, Mukamamidi Beat of Pogallapally Forest Block of Mulakalapally Range of Paloncha Division in lieu of Diversion of forest land under FC Act, 1980 to an extent of 37.7154 Ha for creation of 400 KV QMDC line from the proposed 4x270MW Bhadradhri TPP near Manugoor to the proposed 400/220 KV SS at Padamati Narsapuram (V), Julurupadu(M) in Khammam District in which (1) 19.2096 Ha of forest land in Chatakonda RF block in Kothagudem Forest Division (2) 4.9358 Ha of Forest land in Chinthiyala RF & Rathanagutta (Pamulapally) RF of Paloncha Forest Division and (3) 13.57 Ha Forest Land in Chatakonda & Punukula RF in Paloncha Wild Life Forest Division

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Compensatory Afforestation Scheme for 27.14 Ha double degraded Forest Land at Compt.No.313, Mukamamidi Beat of Pogallapally Forest Block of Mulakalapally Range of Paloncha Division

Introduction :

The District Forest Officer, Bhadradri Kothagudem has issued instructions to identify double the degraded Forest Land for the proposed 13.57 Ha diverted in erstwhile WLM Paloncha Division to raise CA with density less than 0.4 and prepare CA Scheme for maintenance from 7-10 years in lieu of Diversion of forest land under FC Act, 1980 to an extent of 37.7154 Ha for creation of 400 KV QMDC line from the proposed 4x270MW Bhadradhri TPP near Manugoor to the proposed 400/220 KV SS at Padamati Narsapuram (V), Julurupadu(M) in Khammam District in which (1) 19.2096 Ha of forest land in Chatakonda RF block in Kothagudem Forest Division (2) 4.9358 Ha of Forest land in Chinthiyala RF & Rathanagutta (Pamulapally) RF of Paloncha Forest Division and (3) 13.57 Ha Forest Land in Chatakonda & Punukula RF in Paloncha Wild Life Forest Division including Eco Sensitive Zone proposals.

Accordingly instructions were issued by Forest Divisional Officer, Paloncha to the Forest Range Officer, Mulakalapally to identify double the degraded forest land in lieu of diversion of forest land to an extent of 13.57 Ha of Forest Land in Chatakonda & Punukula RF in Paloncha WLM Division for erection of 400 KV QMDC line from the proposed power plant in KTS. Accordingly, the Forest Range Officer, Mulakalapally was identified the following degraded forest area. The details are as follows.

Sl. No.	Range	Block	Section	Beat	Compt. No.	Area available (in Ha)
1	Mulakalapally	Pogallapally	Muthyalampadu	Mookamamidi	313	27.14
	Total :					27.14

Description :

In order to improve of Natural Forests in degraded patches, 27.14 Ha area was identified in compt.No.313 of Mookamamidi Beat of Mulakalapally Range. The following activities have to be taken up to improve the degraded forests under Labour Intensive Method(LIM).

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Sl. No.	Item of work	Amount (Rs.in Lakhs)
1	Digging of cattle Proof trench of 1.5 m top width, 1m bottom width and 1.00 m depth with a septa of 1m wide	0.962
2	Stabilization of Bund	0.301
3	Raising of NTSH seedlings	14.599
4	Maintenance of NTSH seedlings	0.676
5	Advance operations	3.056
6	Raising of NTSH Plantation	18.121
7	1 st year Maintenance of plantations	10.042
8	2 nd to 10 th year maintenance of plantations	99.538
9	Establishment of nursery	1.000
10	Soil and Moisture Conservation works	2.400
11	Planting agave suckers at 0.5m	0.088
12	Dibbling palmyrah nuts @3m apart	0.396
13	Civil Engineer on contract for selection of sites	0.100
14	Entry point Activities (a) Trainings and capacity buildings	0.200
	(b)Micro Plan preparation	0.200
15	Miscellaneous expenses / Administrative costs	3.144
16	Establishment and other logistic support	2.039
	Sub Total :	156.863
	2% Administrative cost	3.137
	Grand Total:	160.000

Project Period :

It is proposed to implement the scheme from 2017-18 to 2028-29 over a period of (12) years.

Funding Agency :

The total financial out lay met by the user agency i.e., Chief Engineer, TRANSCO, Vidyut Soudha, Hyderabad who will deposit the funds with the Forest Department.

Project implementing Agency :

The Forest Divisional Officer, Paloncha will be the implementing agency for this scheme.

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COMPENSATORY AFFORESTATION SCHEME FOR 27.14 Ha DOUBLE DEGRADED FOREST LAND AT COMPT.NO.313, MUKAMAMIDI BEAT OF POGALLAPALLY FOREST BLOCK OF MULAKALAPALLY RANGE OF PALONCHA DIVISION

Sl No	* Component	Unit cost as per the FSR 2016-17 (Rs. In lakhs)	Unit	2016-17			2017-18			2018-19			2019-20			2020-21			2021-22			2022-23			2023-24			2024-25			2025-26			2026-27			2027-28			2028-29			Total		
				Phy.	Rate	Fin.	Phy.	Rate	Fin.	Phy.	Rate	Fin.	Phy.	Rate	Fin.	Phy.	Rate	Fin.	Phy.	Rate	Fin.	Phy.	Rate	Fin.	Phy.	Rate	Fin.	Phy.	Rate	Fin.	Phy.	Rate	Fin.	Phy.	Rate	Fin.	Phy.	Rate	Fin.	Phy.	Fin.				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	
1	Digging of cattle Proof trench of 1.5 m top width, 1m bottom width and 1.00 m depth with a septa of 1m wide for every 10m running trench around the periphery of CA area	42.40	Cmt	0	42.40	0	2063	46.64	0.962	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2063	0.962		
2	Stabilization of Bund as per Circular No.1/2016 issued by the PrI.C.C.F., TS, Hyderabad	0.166	KMs	0	0.166	0	1.65	0.183	0.301	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.65	0.301	
	Sub Total(I):					0			1.263			0.000			0.000			0.000			0.000			0.000			0.000			0.000			0.000			0.000			0.000		0.000	1.263			
	Afforestation in Degraded Forest Area.																																												
	LABOUR INTENSIVE METHOD																																												
4	Preliminary operations (Advance operations)																																												
1	Raising of Misc. seedlings (like., NTSH, NTFP & Babmoo etc., species) Primary and Bag plants Nursery (8"x12" size bags/800 bags / bed)(Bamboo - 10.00 Ha -600 /Ha, NTSH - 30.00 Ha - 1700 / Ha & NTFP - 13.04 ha - 1700 /Ha = 4000 Seedlings / Ha) 5 Beds /Ha = 265 Beds	0.210	Bed	0	0	0	50	0.23	11.55	12	0.254	3.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62	14.599	
2	One Year Maintenance of Misc. seedlings (like., NTSH, NTFP & Babmoo etc., species) Primary and Bag plants Nursery (8"x12" size bags/800 bags / bed - 2.50 beds / 1 ha)(Bamboo - 10.00 Ha -600 /Ha, NTSH - 30.00 Ha - 1700 / Ha & NTFP - 13.04 ha - 1700 /Ha = 4000 Seedlings / Ha) 5 Beds /Ha = 265 Beds. (Rs. 2000/ 4 months = Rs. 6000 /Year /Bed)	0.009	Bed	0	0	0	0	0	50	0.0106	0.53	12	0.0122	0.15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62	0.676	
3	Advance site preparation works for Raising of NTSH plantation under Labour Intensive Method at an espacement of 3mx3m (1111 plants per ha) (27.14 Ha)	0.102	Ha	0	0.102	0.00	27.14	0.113	3.06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27.14	3.056	
	Sub-total (IVA)					0.00			14.61	0		3.58			0.15	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00			0.00			0.00		0.00		0.00	151.14	18.331
5	Creation (Raising year)																																												
	Raising of NTSH plantation under Labour Intensive Method at an espacement of 3mx3m (1111 plants per ha) (27.14 Ha)	0.552	Ha	0	0.552	0	0	0.607	0	27.14	0.668	18.12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27.14	18.121	
	Sub-total(IVB)					0	0		0.00	27.14		18.12	0.00		0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00		0.00	27.14	18.121	
7	Maintenance of Plantations																																												
	Maintenance of NTSH plantation under Labour Intensive Method at an espacement of 3mx3m (1111 plants per ha)(27.14 Ha) (1st year)	0.278	Ha		0.278	0.00		0.31	0.00		0.336	0	27.14	0.370	10.042	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27.14	10.042	
	Maintenance of NTSH plantation under Labour Intensive Method at an espacement of 3mx3m (1111 plants per ha) (27.14 Ha) (2nd to 10th Year maintenance)	0.184	Ha		0.184	0.00		0.20	0.00		0.223	0	0	0.246	0	27.14	0.270	7.330	27.14	0.297	8.063	27.14	0.327	8.869	27.14	0.359	9.756	27.14	0.395	10.732	27.14	0.435	11.805	27.14	0.478	12.986	27.14	0.526	14.284	27.14	0.579	15.713	27.14	99.538	
	Sub-total(VIC):					0.00			0.00			0.00	27.14		10.04	27.14	0	7.330	27.14	0	8.063	27.14	0	8.869	27.14	0	9.76	27.14	0	10.73	27.14	0	11.81	27.14		12.99	27.14		14.28	27.14		15.713	27.14	109.580	

Sl No	Component	Unit cost as per the FSR 2016-17 (Rs. In lakhs)	Unit	2016-17			2017-18			2018-19			2019-20			2020-21			2021-22			2022-23			2023-24			2024-25			2025-26			2026-27			2027-28			2028-29			Total				
				Phy.	Rate	Fin.	Phy.	Rate	Fin.	Phy.	Rate	Fin.	Phy.	Rate	Fin.	Phy.	Rate	Fin.	Phy.	Rate	Fin.	Phy.	Rate	Fin.	Phy.	Rate	Fin.	Phy.	Rate	Fin.	Phy.	Rate	Fin.	Phy.	Rate	Fin.	Phy.	Rate	Fin.	Phy.	Fin.						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45			
I. Nursery infrastructure:																																															
I	Establishment of Nursery	1.00	No.	0	0	0	1	LS	1.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.00	1.000		
	S. Total (V)					0.000			1.000			0.000			0.000			0.000			0.000			0.000			0.000			0.000			0.000	0	0	0.000	0	0	0.000	0	0	0	1.00	1.000			
V	Soil and moisture conservation works																																	0	0	0.000	0	0	0.000	0	0	0.000	1.00	1.000			
	Formation of Mini percolation Tanks	1.20	Nos	0	0	0	1	1.20	1.200	1	1.20	1.200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2.400			
	S. Total (VI)					0.000			1.200			1.200			0.000			0.000			0.000			0.000	0.000		0.000			0.000			0.000			0.000			0.000			0.000	2	2.400			
	Vegetative measures																																														
	i) Planting agave suckers at 0.5m apart including cost and conveyance	0.00	0	0	0	0	0	0	0	0.20	0.44	0.088	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20	0.088			
	ii) Dribbling Palmyrah nuts @ 3m apart on mounds over 30 kms including pretreatment	0.00	Each	0	0	0	0	0	0	0.15	2.64	0.396	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.396		
						0.000			0.000			0.484			0.000			0.000			0.000			0.000			0.000			0.000			0.000			0.000			0.000			0.000	0.35	0.484			
V)	Civil Engineer on contract for slection of sites and preparation of estimates of SMC structures	10000	Each/month	0	0	0	1	0.10	0.100	0	0	0	0	0	0	0	0	0.000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.100			
	Sub-total(VIC):					0.000			0.100			0.000			0.000			0.000			0.000			0.000	0.000		0.000			0.000			0.000			0.000			0.000			0.000	1	0.100			
I	Entry Point activities																																														
	a) Trainings and capacity building	10000	Each	0		0.000	1	LS	0.100	1	LS	0.10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.200			
	b) Micro plan preparation	5000	Each	0		0.000	4		0.200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0.200		
	SubTotal (VII)					0.000	5		0.300	1		0.100	0		0.000	0		0.000	0		0.000	0		0.000	0		0.000	0		0	0.000		0	0.000		0.000	0.000		0.000	0.000		0.000	0.000	6	0.400		
II	Miscellaneous expenses / Adminisrative costs																																														
	a) Office expenses like stationery, computer peripherals, computer maintenance, electricity and telephone charges etc	1.00	LS	0	0	0	0	LS	0.500	0	LS	0.500	0	LS	0.500	0	LS	0.500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.000			
	b) Purchase of GPS and other equipment	LS	Nos	0		0	1		1.144	0		0.000	0		0.000	0		0.000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1.144			
	SubTotal (VIII)					0.000			1.644			0.500			0.500			0.500			0.000			0.000			0.000			0.000			0.000			0.000			0.000			0.000			0.000	1	3.144
III	Establishment and other logistic support:																																														
	a)Publicity including of Erection of Signboards, construction of pedastals @ 0.25 lakh for each Range.	LS	Nos	0		0	1	LS	1.000	1	LS	1.039	0	0	0	0		0.000	0.00	0.00	0.000	0.000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2.039			
	SubTotal (IX)					0.000			1.000			1.039			0.0000			0.000			0.000	0.00		0.000			0.000			0.000			0.000			0.000			0.000			0.000	2	2.039			
	Total:					0.000			21.113			25.023			10.688			7.830			8.063			8.869			9.756			10.732			11.805			12.986			14.284			15.713			156.863		
K	Monitoring and evaluation (2% of the treatment cost)	0	0	0	0	0.000	0	0	0.422	0	0	0.500	0	0	0.214	0	0	0.157	0	0	0.161	0	0	0.177	0	0	0.195	0	0	0.215	0	0	0.236	0	0	0.260	0	0	0.286	0	0	0.314	0	3.137			
	GRAND TOTAL:					0.000			21.535			25.524			10.902			7.987			8.224			9.047			9.951			10.947			12.041			13.245			14.570			16.027	27.14	160.000			


 Forest Divisional Officer,
 Paloncha

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Unit Cost for Raising of Misc., Nursery (5x9) during 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				55.09
		Watch and Ward	1 No	7500	0.00	150.00	3 Months	450.00
							S.TOTAL::	750.00
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).						

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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
	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.						
	01.03.04	12.5 cm x 22.5 cm (5" x 9") size bags of 200 g: 366 bags / kg	5 Kgs	156.00	0.00	156.00	1 Kg	780.00
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						
	01.03.06	12.5 cm x 22.5 cm (5" x 9") = 1.12 cum vol. for 1000 bags	1700 Nos	348.00	0.00	348.00	1000 Nos	591.60
	b)	b) For every extra km beyond 5 km upto 25 km						
	01.03.08	12.5 cm x 22.5 cm (5" x 9") = 1.12 cum vol. for 1000 bags	1700 Nos	90.70	0.00	90.70	1000 Nos	3083.80
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.						
	01.03.10	12.5 cm x 22.5 cm (5" x 9") size bags of 1700 bags / bed	1700 Nos	830.95	207.74	1038.69	1000 Nos	1765.77
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	1700 Nos	122.74	30.69	153.43	1000 Nos	260.83
18	01.03.13	Sowing / dibbling of pretreated seeds (e.g. Yegisa, Nalamadi, Yerumaddi etc.) directly into bags including cost of treatment	1700 Nos	73.01	18.25	91.26	1000 Nos	155.14
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	1786.44
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

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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
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	7500	0.00	150.00	5 Months	750.00
25	01.03.51	Contingencies for Raising Year towards the expenditure like cost of hose pipe, nursery boards, electricity charges, running and maintainance 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.					438.73
							S.TOTAL::	9213.39
							Unit Rate as per FSR 2016-17::	21196.51
							Add 10% escalation::	2120.00
							Total unit rate arrived for the year 2017-18::	23316.51
							Add 10% escalation::	2332.00
							Total unit rate arrived for the year 2018-19::	25648.51
							Add 10% escalation::	2565.00
							Total unit rate arrived for the year 2019-20::	28213.51
							Add 10% escalation::	2821.00
							Total unit rate arrived for the year 2020-21::	31034.51



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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
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.				
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		Watch and Ward	1 No	7500	0.00	150.00	6 Months	2160.00
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::	11233.12
		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						
01.03.28		5" x 9" to 8" x 12" polybags (3.82 - 1.12 = 2.70 cum)	800 Nos	864.05	216.01	1080.06	1000 Nos	864.05
		b) For every extra km beyond 5 km upto 25 km						
01.03.33		5" x 9" to 8" x 12" polybags (3.82 - 1.12 = 2.70 cum)	800 Nos	218.70	54.68	273.38	1000 Nos	4374.00
		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)						
01.03.38		5" x 9" to 8" x 12" polybags (3.82 - 1.12 = 2.70 cum)	800 Nos	1478.68	369.67	1848.35	1000 Nos	1478.68
		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 weeding						
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 Novemebr - 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	893.22
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.				

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**ESTIMATE FOR MAINTENANCE OF MISC. BAG PLANTS NURSERY (FROM SEPTEMBER ONWARDS
TILL DISPOSAL) DURING 2016-17**

Sl. No.	Name of the Work	FSR Item No.	Qty	Rate	25% agency	Per	Amount
1	2	3	4		5	6	7
1	Watering the plants for 10 m X 1 m size bed	01.05.01	1	144.50	180.625	bed	181
2	Shifting and grading and re-arranging in beds for 10mx1m size bed with prior return permission of Circle Head	01.05.02	1	186.84	233.55	bed/1.time	234
3	Cost of protection (September, 2016 to March, 2017)	01.05.04	4	7500	--	Months	500
			Unit cost for 2016-17 :				914
					Add 10% escalation::		91
			Total unit rate arrived for the year 2017-18::				1005
					Add 10% escalation::		101
			Total unit rate arrived for the year 2018-19::				1106
					Add 10% escalation::		111
			Total unit rate arrived for the year 2019-20::				1217


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Name of the Species : NTFP

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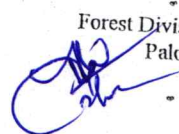
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Unit Cost for Raising of NTSH plantation (LIM) as per FSR 2016-17

Sl. No.	FSR Code No.	Item of work	Espacement 3X3					
			Qty	Rate	Rate (inclusive of 25% Allowance)	Total Rate	Per	Amount
1	2	3	4	5	6	7	8	9
		Alignment and staking including base line						
1	02.01.07	Misc. (5M X 5M)	1111 Nos	98.77	24.69	123.46	100 Nos	1372
2	02.01.09	Cost of preparation of stakes 0.45 m length and transportation to site	1111 Nos	47.3	0.00	47.30	100 nos	526
		Digging of Pits - Manual (As per RSSR): All efforts shall be made to complete pitting works before March-end. Under exceptional circumstances (if the target of plantation is given in the month of March-April), the pitting can be done during June and July. But any pitting done during June-July, plants can only be planted after the pits are verified by field inspections of FROs and DFOs of proper dimensions to avoid simultaneous pitting and planting which may result in higher percentage of casualties.						
3	02.01.15	ii) 45 cm ³ pits (June-July)	1111 Nos	14.98	3.75	18.73	1 Nos	20803
		Transportation of Planting Stock (including loading and unloading) Including Casualties						
4	02.02.03	20 X 30 cm (8"X12") bag plants upto 5 kms	1111 Nos	173.49	0.00	173.49	100 Nos	1927
5	02.02.06	20 X 30 cm (8"X12") bag plants beyond 5 kms(20kms)	1111 Nos	6.75	0.00	135.00	100 Nos	1500
		Internal transportation to planting points on head loads						
6	02.02.12	20 X 30 cm (8"X12") bag plants	1111 Nos	117.94	29.49	147.43	100 Nos	1638
	02.02.13	Application of 50 gm of SSP per pit (1 day before planting) for root growth and early establishment of plant after planting. Similarly, the bag plants to be planted are to be dipped inside Chloropyriphos solution (5 ml of Chloropyriphos in 1 lit water) either at nursery site before transport or at plantation site before planting	1111 Nos	32.62	8.16	40.78	100 Nos	453
	02.02.14	Cost of SSP, Chloridine dust (50 gm) or Chloropyriphos	85 Kgs	6.00	0.00	6.00	1 Kg	510
7	02.02.16	Planting in 45cm	1111 Nos	363.366	90.84	454.21	100 Nos	5046
	02.09.29	Replacement of casuualities						
8	02.01.15	Diggingg of 45 cm cube pits	278 Nos	7.49	1.87	9.36	1 Nos	2603
		Fertilizer Application for boosting growth						
13	02.02.18	Cost of DAP @ 25 gm / planting point	42 Kgs	20.00	0.00	20.00	1 Kg	840
14	02.02.19	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	32.62	8.16	40.78	100 Nos	453

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WEEDING & SOIL WORKING										
15	02.02.20	a) Circular weeding to a radius of 0.50 m around the plant (during July - Aug)	1111	Nos	103.79	25.95	129.74	100	Nos	1441
	02.02.21	b) 2 nd circular weeding to a radius of 0.50 m around the plant 90 days after planting (i.e. Sept - Oct)	1111	Nos	103.79	25.95	129.74	100	Nos	1441
16	02.02.22	c) Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec)	1111	Nos	363.37	90.84	454.21	100	Nos	5046
		i) Ordinary soil								
		Cutting of copiece growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the planting rows (to be undertaken during July-August)								
17	02.02.25	High rainfall zone> 800 mm (for Warangal< Khammam & Adilabad circle)	1	Ha	1215.43	303.86	1519.29	1	Ha	1519
	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.	1	Ha	7500	0.00	7500	8	Mont hs	6000
18		Misc. like plantation board etc								
										2062
										Unit Rate as per FSR 2016-17::
										55180
										Add 10% escalation::
										5518
										Total unit rate arrived for the year 2017-18::
										60698
										Add 10% escalation::
										6070
										Total unit rate arrived for the year 2018-19::
										66768
										Add 10% escalation::
										6677
										Total unit rate arrived for the year 2019-20::
										73445


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Unit Cost for 1st Year Maintenance of NTS Plantation (LIM) as per FSR 2016-17

Sl. No.	FSR Code No.	Item of work	Qty		Rate	Rate (Inclusive of 25% Allowance)	Espacement		Per	Amount
							Total Rate	3X3		
1	2	3	4		5	6	7	8		9
1	02.03.01	Replacement of Casualties: 25% in 1st year (In case of Eucalyptus: no casualty replacement). The list of all casualty points shall be prepared by concerned FRO by and made a report to DFO latest by end of May. The pitting of all such casualty points shall be over by end of June. The casualty replacement shall be completed by end of July.								
2	02.01.15	45 cm ³ pits (June-July)								
		Transportation of Planting Stock (including loading and unloading) Including Casualties	278	Nos	14.98	3.75	18.73	1	Nos	5206
3	02.02.03	20 X 30 cm (8"X12") bag plants upto 5 kms								
4	02.02.06	20 X 30 cm (8"X12") bag plants beyond 5 kms(20kms)	278	Nos	173.49	0.00	173.49	100	Nos	432
		Internal transportation to planting points on head loads	278	Nos	6.75	0.00	135.00	100	Nos	375
5	02.02.12	20 X 30 cm (8"X12") bag plants								
6	02.02.13	Application of 50 gm of SSP per pit (1 day before planting) for root growth and early establishment of plant after	278	Nos	117.94	29.49	147.43	100	Nos	410
7	02.02.14	Cost of SSP, Chloridine dust (50 gm) or Chloropyriphos	278	Nos	32.62	8.16	40.78	100	Nos	113
8	02.02.16	Planting in 45cm	278		As per actual					70
		WEEDING & SOIL WORKING (To be carried out after replacement of casualties are over)	278	Nos	363.366	90.84	454.21	100	Nos	1263
9	02.03.02	a) 1 st Circular weeding to a radius of 0.50 m around the plant during July - Aug	1111	Nos	103.79	25.95	129.74	100	Nos	1441
10	02.03.03	b) 2 nd Circular weeding to a radius of 0.50 m around the plant during Sept - Oct	1111	Nos	103.79	25.95	129.74	100	Nos	1441
		c) Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec)								
12	02.03.04	i) For ordinary soil	1111	Nos	363.366	90.84	454.21	100	Nos	5046
13		Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and								
	02.03.07	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	1	Ha	1215.43	303.86	1519.29	1	Nos	1519
14	02.03.08	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height during October.	1111	Nos	103.194	25.80	128.99	100	Nos	1433
15	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.	1	Ha	7500	0.00	7500	12	Mont hs	9000
Unit Rate for 2016-17										27799
Add 10% escalation::										2780
Total unit rate arrived for the year 2017-18::										30579
Add 10% escalation::										3058
Total unit rate arrived for the year 2018-19::										33637
Add 10% escalation::										3364
Total unit rate arrived for the year 2019-20::										37001
Add 10% escalation::										3700
Total unit rate arrived for the year 2020-21::										40701

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Unit Cost for 3rd Year Maintenance of NTSH Plantation (LIM) as per FSR 2016-17

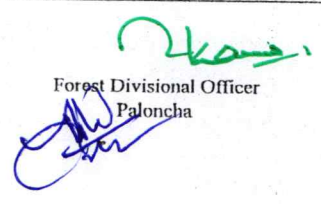
Sl. No.	Code No.	Item of work	Espacement 3X3					
			Qty	Rate	Rate (Inclusive of 25% Allowance)	Total Rate	Per	Amount
1	2	3	4	5	6	7	8	9
		WEEDING & SOIL WORKING (To be carried out after replacement of casualties are over)						
1	02.04.01	a) 1 st Circular weeding to a radius of 0.50 m around the plant during July - Aug	1111 Nos	103.79	25.95	129.74	100 Nos	1441
2	02.04.02	b) 2 nd Circular weeding to a radius of 0.50 m around the plant during Sept - Oct	1111 Nos	103.79	25.95	129.74	100 Nos	1441
		c) Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec)						
3	02.04.03	i) For ordinary soil	1111 Nos	363.366	90.84	454.21	100 Nos	5046
4		Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and						
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	1 Ha	1215.43	303.86	1519.29	1 Nos	1519
5	02.04.08	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. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival at the end of raising year.	1 Ha	7500	0.00	7500	12 Mont hs	9000
Unit Rate for 2016-17								184.17
Add 10% escalation::								184.5
Total unit rate arrived for the year 2017-18::								202.2
Add 10% escalation::								202.2
Total unit rate arrived for the year 2018-19::								223.1
Add 10% escalation::								223.2
Total unit rate arrived for the year 2019-20::								245.3
Add 10% escalation::								245.3
Total unit rate arrived for the year 2020-21::								270.3
Add 10% escalation::								270.1
Total unit rate arrived for the year 2021-22::								297.0
Add 10% escalation::								297.1
Total unit rate arrived for the year 2022-23::								326.0
Add 10% escalation::								326.8
Total unit rate arrived for the year 2023-24::								359.8


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Unit Cost for 4th Year Maintenance of NTSB Plantation (LIM) as per FSR 2016-17

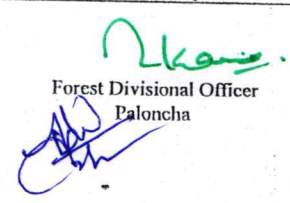
Sl. No.	Code No.	Item of work	Espacement 3X3					
			Qty	Rate	Rate (inclusive of 25% Allowance)	Total Rate	Per	Amount
1	2	3	4	5	6	7	8	9
		WEEDING & SOIL WORKING (To be carried out after replacement of casualties are over)						
1	02.04.01	a) 1 st Circular weeding to a radius of 0.50 m around the plant during July - Aug	1111 Nos	103.79	25.95	129.74	100 Nos	1441
2	02.04.02	b) 2 nd Circular weeding to a radius of 0.50 m around the plant during Sept - Oct	1111 Nos	103.79	25.95	129.74	100 Nos	1441
		c) Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec)						
3	02.04.03	i) For ordinary soil	1111 Nos	363.366	90.84	454.21	100 Nos	5046
4		Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and						
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	1 Ha	1215.43	303.86	1519.29	1 Nos	1519
5	02.04.08	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. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival at the end of raising year.	1 Ha	7500	0.00	7500	12 Mont hs	9000
Unit Rate for 2016-17								18447
Add 10% escalation::								1845
Total unit rate arrived for the year 2017-18::								20292
Add 10% escalation::								2029
Total unit rate arrived for the year 2018-19::								22321
Add 10% escalation::								2232
Total unit rate arrived for the year 2019-20::								24553
Add 10% escalation::								2455
Total unit rate arrived for the year 2020-21::								27003
Add 10% escalation::								2701
Total unit rate arrived for the year 2021-22::								29709
Add 10% escalation::								2971
Total unit rate arrived for the year 2022-23::								32680
Add 10% escalation::								3268
Total unit rate arrived for the year 2023-24::								35943
Add 10% escalation::								3595
Total unit rate arrived for the year 2024-25::								39543
Add 10% escalation::								3954
Total unit rate arrived for the year 2025-26::								43497


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Unit Cost for 5th Year Maintenance of NTSB Plantation (LIM) as per FSR 2016-17

Espacement 3X3									
Sl. No.	Code No.	Item of work	Qty		Rate	Rate (inclusive of 25% Allowance)	Total Rate	Per	Amount
1	2	3	4		5	6	7	8	9
		WEEDING & SOIL WORKING (To be carried out after replacement of casualties are over)							
1	02.04.01	a) 1 st Circular weeding to a radius of 0.50 m around the plant during July-Aug	1111	Nos	103.79	25.95	129.74	100 Nos	1441
2	02.04.02	b) 2 nd Circular weeding to a radius of 0.50 m around the plant during Sept - Oct	1111	Nos	103.79	25.95	129.74	100 Nos	1441
		c) Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec)							
3	02.04.03	i) For ordinary soil	1111	Nos	363.366	90.84	454.21	100 Nos	5046
4		Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and							
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	1	Ha	1215.43	303.86	1519.29	1 Nos	1519
5	02.04.08	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. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival at the end of raising year.	1	Ha	7500	0.00	7500	12 Mont hs	9000
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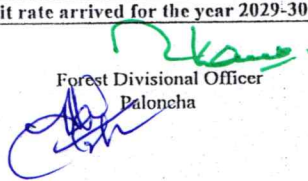
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Unit Cost for 9th Year Maintenance of NTSB Plantation (LIM) as per FSR 2016-17

Sl. No.	FSR Code No.	Item of work	Qty	Rate	Rate (inclusive of 25% Allowance)	Espacement 3X3		
						Total Rate	Per	Amount
1	2	3	4	5	6	7	8	9
		WEEDING & SOIL WORKING (To be carried out after replacement of casualties are over)						
1	02.04.01	a) 1 st Circular weeding to a radius of 0.50 m around the plant during July - Aug	1111 Nos	103.79	25.95	129.74	100 Nos	1441
2	02.04.02	b) 2 nd Circular weeding to a radius of 0.50 m around the plant during Sept - Oct	1111 Nos	103.79	25.95	129.74	100 Nos	1441
		c) Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec)						
3	02.04.03	i) For ordinary soil	1111 Nos	363.366	90.84	454.21	100 Nos	5046
4		Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and						
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	1 Ha	1215.43	303.86	1519.29	1 Nos	1519
5	02.04.08	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. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival at the end of raising year.	1 Ha	7500	0.00	7500	12 Mont hs	9000
Unit Rate for 2016-17								18447
Add 10% escalation::								1845
Total unit rate arrived for the year 2017-18::								20292
Add 10% escalation::								2029
Total unit rate arrived for the year 2018-19::								22321
Add 10% escalation::								2232
Total unit rate arrived for the year 2019-20::								24553
Add 10% escalation::								2455
Total unit rate arrived for the year 2020-21::								27003
Add 10% escalation::								2701
Total unit rate arrived for the year 2021-22::								29709
Add 10% escalation::								2971
Total unit rate arrived for the year 2022-23::								32680
Add 10% escalation::								3268
Total unit rate arrived for the year 2023-24::								35948
Add 10% escalation::								3595
Total unit rate arrived for the year 2024-25::								39543
Add 10% escalation::								3954
Total unit rate arrived for the year 2025-26::								43497
Add 10% escalation::								4350
Total unit rate arrived for the year 2026-27::								47847
Add 10% escalation::								4785
Total unit rate arrived for the year 2027-28::								52632
Add 10% escalation::								5263
Total unit rate arrived for the year 2028-29::								57895
Add 10% escalation::								5790
Total unit rate arrived for the year 2029-30::								63685


 Forest Divisional Officer
 Baloncha

Unit Cost for 10th Year Maintenance of NTSH Plantation (LIM) as per FSR 2016-17

		Espacement		3X3				
Sl. No.	FSR Code No.	Item of work	Qty	Rate	Rate (inclusive of 25% Allowance)	Total Rate	Per	Amount
1	2	3	4	5	6	7	8	9
		WEEDING & SOIL WORKING (To be carried out after replacement of casualties are over)						
1	02.04.01	a) 1 st Circular weeding to a radius of 0.50 m around the plant during July - Aug	1111 Nos	103.79	25.95	129.74	100 Nos	1441
2	02.04.02	b) 2 nd Circular weeding to a radius of 0.50 m around the plant during Sept - Oct	1111 Nos	103.79	25.95	129.74	100 Nos	1441
		c) Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec)						
3	02.04.03	i) For ordinary soil	1111 Nos	363.366	90.84	454.21	100 Nos	5046
4		Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and						
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	1 Ha	1215.43	303.86	1519.29	1 Nos	1519
5	02.04.08	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. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival at the end of raising year.	1 Ha	7500	0.00	7500	12 Mont hs	9000
						Unit Rate for 2016-17		18447
						Add 10% escalation::		1845
						Total unit rate arrived for the year 2017-18::		20292
						Add 10% escalation::		2029
						Total unit rate arrived for the year 2018-19::		22321
						Add 10% escalation::		2232
						Total unit rate arrived for the year 2019-20::		24553
						Add 10% escalation::		2455
						Total unit rate arrived for the year 2020-21::		27008
						Add 10% escalation::		2701
						Total unit rate arrived for the year 2021-22::		29709
						Add 10% escalation::		2971
						Total unit rate arrived for the year 2022-23::		32680
						Add 10% escalation::		3268
						Total unit rate arrived for the year 2023-24::		35948
						Add 10% escalation::		3595
						Total unit rate arrived for the year 2024-25::		39543
						Add 10% escalation::		3954
						Total unit rate arrived for the year 2025-26::		43497
						Add 10% escalation::		4350
						Total unit rate arrived for the year 2026-27::		47847
						Add 10% escalation::		4785
						Total unit rate arrived for the year 2027-28::		52632
						Add 10% escalation::		5263
						Total unit rate arrived for the year 2028-29::		57895
						Add 10% escalation::		5790
						Total unit rate arrived for the year 2029-30::		63685

Forest Divisional Officer
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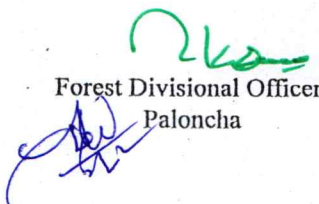
991

Unit Cost Estimate for Stabilization of Trench of 1 Km length 2016-17

Sl. No.	FSR Item No.	Item of work	Qty	Cost	Agency allowance 25%	Total	Per Nos.	Fin (Rs. In Lakhs)
		STABILIZATION OF Bund						
		(i) 2 mtrs. X 2 mtrs. Peripheral trench						
1		Planting Pongamia in 30 Cm3 pit on the Crest of mound at 4 M spacing						
		Cost of Pongamia Seedlings	250 Nos	4	0	4	250	1000.0
	02.30.01	a) Alignment & Stacking - 4 m apart in one row	250 Nos	66.74	16.685	83.425	100	208.6
	02.30.02	b) Cost of preparation of stakes (0.45 m length) and transporation to site	250 Nos	47.3	11.825	59.125	100	147.8
	02.30.03	c) Digging 30 cm3 pits (50% of original rate) to be done during June	250 Nos	1.96	0.49	2.45	1	613.0
	02.30.04	d) Transporation of seedlings & Internal transport	250 Nos	100.2	0	100.17	100	250.4
	02.30.05	e) Planting with 4 m apart in one row (250 No. per Km)	250 Nos	116.8	29.1875	145.9375	100	364.8
2		iv) Planting 1 row of Bamboo Rhizome at midline of inner slope of the mound at 4 m apart						
	02.30.16	a) Alignment & Stacking - 4 m apart in one row	250 Nos	66.74	16.685	83.425	100	208.6
	02.30.17	b) Cost of preparation of stakes (0.45 m length) and transporation to site	250 Nos	43.8	10.95	54.75	100	136.9
	02.30.18	c) Digging 30 cm3 pits (50% of original rate) to be done during June	250 Nos	1.96	0.49	2.45	1	613.0
	02.30.19	d) Transporation of seedlings & Internal transport	250 Nos	45.26	0	45.26	100	113.2
	02.30.20	e) Planting with 4 m apart in one row (250 No. per Km)	250 Nos	116.8	29.1875	145.9375	100	364.8
3		v) Planting 3 rows of fast-growing secondary hardwood species or its associates of local origin with an espacement of 3x2 m						
	02.30.21	a) Clearance of 5 mt width stretch	500 Nos	864.4	216.1075	1080.5375	100	5402.7
	02.30.22	b) Alignment & Stacking 2x3 m espacement	500 Nos	66.74	16.685	83.425	100	417.1
	02.30.23	c) Cost of preparation of stakes (0.45 m length) and transporation to site	500 Nos	47.3	11.825	59.125	100	295.6
	02.30.24	d) Digging 30 cm3 pits (50% of original rate) to be done during June	500 Nos	1.168	0.291875	1.459375	1	730.0
	02.30.25	d) Transporation of seedlings & Internal transport	500 Nos	100.2	0	100.17	100	500.9
	02.30.26	f) Planting with local secondary hardwood and its associate in one row at 4 m apart (Narayepi, Yegisa, Buruga, Tellachinduga etc.)	500 Nos	116.8	29.1875	145.9375	100	729.7

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4		Planting of Gachakaya in 2 rows on the outer slope of the mound	2					
		Gachakaya-8kg						
	A/a.	Cost of seed	8 Kgs	250				2000.0
	2.25.01	Seed dibbling	1 Km	1080				1080.0
5	A/a.	Misc. / Unforeseen expenditure	A/a	300				300.0
		Cost of seed collection	A/a	50				30.0
	2.25.01	Dibbling of Babul seed inside the trench@2000Nos/Km(3260Nos/Kg)	1 Km	1080				1080.0
		Total :						16587.1
								Unit Rate as per FSR 2016-17 16587.06
								Add 10% escalation 1658.71
								Rate for 2017-18 18245.77
								Add 10% escalation 1824.58
								Rate for 2018-19 20070.34
								Add 10% escalation 2007.03
								Rate for 2019-20 22077.38
								Add 10% escalation 2207.74
								Rate for 2020-21 24285.11
								Add 10% escalation 2428.51
								Rate for 2021-22 26713.63
								Add 10% escalation 2671.36
								Rate for 2022-23 29384.99
								Add 10% escalation 2938.50
								Rate for 2023-24 32323.49
								Add 10% escalation 3232.35
								Rate for 2024-25 35555.84
								Add 10% escalation 3555.58
								Rate for 2025-26 39111.42
								Add 10% escalation 3911.14
								Rate for 2026-27 43022.56
								Add 10% escalation 4302.26
								Rate for 2027-28 47324.82
								Add 10% escalation 4732.48
								Rate for 2028-29 52057.30
								OR 52057


 Forest Divisional Officer
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