1083

SCHEME FOR COMPENSATORY AFFORESTATION (CA) IN KAGHAZNAGAR DIVISION IN LIEU OF DIVERSION OF FOREST AREA IN KAGHAZNAGAR, KARJELLY AND BEJJUR RANGES OF KAGHAZNAGAR DIVISION FOR NON-FORESTRY PURPOSE CONSTRUCTION OF BARRAGE AND MAIN CANAL FOR DR. B.R. AMBEDKAR PRANAHITHA PROJECT-PACKAGE NO-II & IV, BEJJUR & KAGHAZANGAR MANDALS OF ADILABAD DISTRICT.

#### 1.0 INTRODUCTION:

The Chief Engineer (Projects), Adilabad has submitted the proposals for diversion of 567.0137 Ha of Forest Land for non-forestry purpose i.e., construction of Barrage at Tumidihetti (v) and main canal for Dr. B.R. Ambedkar Pranahitha Project in Package No-II & IV in Bejjur & Kaghazangar Mandals of Kaghaznagar Forest Division of Adilabad District, for transfer of the Government land to an extent of 245.13 Ha towards Compensatory Afforestation purpose 70.9073 Ha. in Sy. No. 125/1 and 125/2 of Loadpally village of Bejjur Mandal and 174.223 Ha. in Sy No 81 and 85 Bhoopalpatnam village of Sirpur Mandal which falls in Kaghaznagar Forest Division.

- 1.1 Accordingly 245.13 Ha. of land i.e., 70.9073 Ha in Sy. No. 125/1 and 125/2 of Loadpally village of Bejjur Mandal and 174.223 Ha in Sy No 81 and 85 Bhoopalpatnam village of Sirpur Mandal is proposed by the Revenue Authorities to allotted under CA. The area proposed for CA is having existing tree growth and coppice growth with the species like Maduca indica, Terminalia tomentosa, Diospyros melanoxylon, Cliestanthus collinus, Holoptelia integrefolia, Sommida febrifuga & Dalbergia paniculata. The area is plain and having gentle slopes and covered with mostly Black cotton soil and some patches of Red soil. The area proposed for CA is existing with the tree growth and good root stock of above mentioned species and the same area is proposed to be taken up for Compensatory Afforestation.
- 1) Compensatory Afforestation: It is proposed to raise CA in the area to be taken over from Revenue Authorities i.e. the Government land in 245.13 Ha. The area is plain and having gentle slope for which Protection and SMC like, CCT, CPT, Checkdams and Percolation tanks, Saplings of desirable species with weeding of miscellaneous growth works are proposed which includes providing with regeneration and Afforestation plantations. The proposals have been

prepared to take up Intensive Protection, Coppicing and Singling of the existing valuable species like long rotation high value timber species (Teak and associated species) and the details of Compensatory Afforestation plantation scheme proposals are as follows.

SL No	Sy No	Village	Mandal	Total Area Ha.	Name of the adjacent RF	Distance from RF to land
1	125/1 & 125/2	Loadpally	Bejjur	70.907	Bejjur R.F & Bejjur Ext-VIII	adjoining
2	81 & 85	Bhoopalptnam	Sirpur (T)	174.223	Kadamba R.F	adjoining
			Total	245.13		

The proposals have been prepared with a cost of Rs 29,50,30000/-(Rupees Twenty Nine Crores Fifty lakhs and Thirty Thousand Only). The year wise scheme proposals are annexed as (Appendix – II)

This scheme will be monitored through the machinery of Forest Department at various levels.

The Compensatory Afforestation scheme is prepared over an area of 245.13 Ha for the period for (13) years basing on the Forest Schedule of Rates for the year 2016-17 of Adilabad Circle with an escalation of 15% for 2017-18 and with an annual escalation of 15% for the subsequent years, provided the funds are to be deposited and released during the year 2017-18.

SI No	Year	Forestry Works
1	2016-17	29753550
2	2017 -18	59607260
3	2018-19	39948599
4	2019-20	13015603
5 .	2020-21	9098298
6	2021-22	10463209
7	2022-23	12032603
8	2023-24	13837373
9	2024-25	15913097
10	2025-26	18300026
11	2026-27	21045093
12	2027-28	24201779
13	2028-29	27832064
	Total	29,50,28,554/-
		Or 29,50,30,000/

#### 2.0 AIMS AND OBJECTIVES:

The objectives of the scheme are as follows.

- 2.1 To create small timber and fuel wood resources to meet the needs of the local public.
- 2.2 To reduce pressure on the already depleted resource requirements of small timber, fuel and fodder of local tribal people.
- 2.3 To fulfill broader objective of sustainable environmental conservation for the general good of the people.

To fulfill the above objectives, it is proposed to take-up the Afforestation over an area which is equivalent to the area proposed for diversion for non-forestry purpose. In this Division as against the Forest area to be diverted for 567.0137 Ha non-forest area of 245.13 Ha is identified for CA. The plantations will be taken-up with the species like Bamboo, Kanuga, Vepa, Teak, Gummadi Teak etc and with fuel wood, fodder and locally suitable NTFP & NTSHW species.

#### 3.0 ELEMENTS OF THE PROJECT

3.1. Details of the lands identified for raising compensatory afforestation are as follows.

	Division	Range	Mandal	Near RF	Near Compt. No.	Area proposed in Ha.
1	Kaghaznagar	Bejjur	Bejjur	Bejjur R.F & Bejjur Ext-VIII	235	70.907
2	Kaghaznagar	Sirpur (T)	Sirpur (T)	Kadamba R.F	107	174.223
			Total			245.13

#### 3.2 NAME OF THE SCHEME

Compensatory Afforestation for "Construction of Barrage and main canal for Dr BR. Ambedkar Pranahitha Project in Package No-II & IV, Bejjur & Kaghazangar Mandals of Kaghazangar Forest Division of Adilabad District".

#### 3.3 SITUATION

The proposed Compensatory Afforestation area is situated adjacent to the RF Block Bejjur R.F & Bejjur Ext-VIII near Compt. No.235 of Bejjur Range, Bejjur Mandal and Kadamba R.F near Compt No. 107 of Sirpur Range, Sirpur Mandal and fit for CA scheme.

#### 3.4 GEOLOGY

106

The geology of the proposed area for Compensatory Afforestation is the youngest of the Gondwanas in this area which includes conglomerates, sandstones, shales and clays. The conglomerates are made up of rounded to subrounded pebbles of quartz, quartzite, chert and jasper. The Sub- Cretaceous – Eocene – Deccan Trap, Late Precambrian – Salluvai serios, Archaean Granites, Gneisses and schists.

#### 3.5 SOIL

The soils of area proposed for Compensatory Afforestation area vary with the underlying rock formation. The Deccan tract gives rise to black cotton soils and Red soils. The later disintegrates to form "murram". Sand stones give rise to sandy or loamy soils and gives rise to black soils. Composite gneisses yield black loamy and granites brown sandy soils.

#### General distribution of soils in the Division

- 1. Black cotton soils: 50 % found mostly in Bejjur & Karjelly Ranges.
- Chalka and Red loams Soils: 27% Found mostly in Bejjur, Karjelly, Sirpur and Kaghaznagar Ranges.
- 3. Sandy loams and other: 8% Mostly in Kaghaznagar and Sirpur Ranges.
- 4. Saline & Alkaline soils: 2% Scattered and found in small patches in the Division.

#### 3.6 CLIMATE:

The climate is fairly dry with very hot summer and cool winters. During summer, the temperature rises upto 47 degree centigrade. Summer and winter are separated by prolonged rainy season. The area is served by South-West Monsoon. However, Cyclonic rains are common during October – December.

#### 3.7 RAINFALL:

Rainfall is mostly from the Southwest monsoon, cyclonic rains during October – December are quite common. The normal rainfall in a year ranges from 1000 mm to 1100 mm. The average rainfall for the past (12) years is 1051 mm.

3.8 EXISTING VEGETATION:

The area is having vegetation of Maduca indica, Terminalia tomentosa, Diospyros melanoxylon, Cliestanthus collinus, Holoptelia integrefolia, Sommida febrifuga & Dalbergia paniculata. etc.

#### 3.9 AGENCY RESPONSIBLE FOR AFFORESTATION:

The afforestation programme will be implemented by the Telangana Forest Department through the Divisional Forest Officer, Kaghaznagar.

# 3.10 DETAILS OF WORK SCHEDULE PROPOSED FOR COMPENSATORY AFFORESTATION

The details of work schedule proposed for compensatory afforestation year wise is as follows.

Year	Proposed works
2016-17	Raising of Primary Beds Nursery     Development and improvement and extension of Nursery infrastructure for CA scheme     Erection of chainlink mesh fence
2017 -18	1) Raising of Primary Beds Nursery 2) Raising and Conversion of Nursery 3) Advance operations 4) Check dams and Percolation tanks 5) Saplings of desirable species in natural forests, weeding of miscellaneous growth 6) Development and improvement and extension of Nursery infrastructure for CA scheme 7) Construction of boundary pillars 8) Construction of Guest House at Kaghaznagar 9) Construction of Meeting Hall at Kaghaznagar 10) Extension of D.F.O Office building and its Maintenance 11) Construction of Compound wall (1. Bejjur, 2.Sirpur, 3.Koutala and 4.Ravindranagar 12) Solar Systems (1. D.F.O Office, Range Offices at Kaghaznagar and Sirpur)
2018-19	1) Raising and Conversion of Nursery 2) Maintenance of Nursery 3) Raising of plantation 4) SMC works 5) Digging of trench work around CA Plantation 6) Construction of boundary pillars
2019-20	1st Year maintenance of plantation
2020-21	2nd Year maintenance of plantation
2021-22	3rd Year maintenance of plantation
2022-23	4th Year maintenance of plantation
2023-24	5th Year maintenance of plantation
2024-25	6th Year maintenance of plantation
2025-26	7th Year maintenance of plantation
2026-27	8rh Year maintenance of plantation
2027-28	9th Year maintenance of plantation
2028-29	10th Year maintenance of plantation

1093

#### 3.11 COST STRUCTURE:

A compensatory afforestation scheme for <u>Rs.29,50,30,000/-</u> is prepared (Appendix-I). The year wise expenditure will be as hereunder.

SI No	Year	Forestry Works
1	2016-17	29733550
2	2017 -18	59607260
3	2018-19	39948599
4	2019-20	13015603
5	2020-21	9098298
6	2021-22	10463209
7.	2022-23	12032603
8	2023-24	13837373
9	2024-25	15913097
10	2025-26	18300026
11	2026-27	21045093
12	2027-28	24201779
13	2028-29	27832064
	Total	29,50,28,554/-
		Or 29,50,30,000/-

This scheme will be monitored through the machinery of Forest Department at various levels.

#### 4.0 SCHEME COMPONENT:

The area identified for Compensatory Afforestation is plan and having gentle slopes with good natural vegetation. It is proposed to take up afforestation with Aided Natural Regeneration method in the area having good vegetation cover and pit & planting in open patches under Labour Intensive Method with species like Bamboo, Kanuga, Vepa, Teak, Gummadi Teak etc., and with fuel wood, fodder and locally suitable NTFP & NTSHW species. Protect the plantation from biotic interference by providing cattle proof trench, watch and ward and from fire by way of control burning of the fire lines. The plantation would be maintained for (10) years after planting.

#### 4.1 COST STRUCTURE OF PLANTATIONS:

The cost structure of Compensatory Afforestation including the cost structure for various components of raising and maintenance of planting stock and the plantation is appended (Appendix-I).



#### 4.2 PROVISION OF FUNDS:

The funds for the Compensatory Afforestation have to be deposited by the user agency i.e., The Chief Engineer (Projects), Adilabad Dr. B.R. Ambedkar Pranahitha Project in favour of Telangana Forest Department. These funds will be utilized by the Divisional Forest Officer, Kaghaznagar for raising nurseries, plantations and their maintenance as per the detailed annual plan after obtaining the approval and funds from the competent authority.

#### 5.0 PLANTING TARGETS AND STAFF REQUIREMENT:

The area identified for the Compensatory Afforestation to an extent of 245.13 Ha of Kaghaznagar Division, the details as follows.

SI. No.	Division	Range	Mandal	Near RF	Near Compt No.	Area proposed in Ha.
1	Kaghaznagar	Bejjur	Bejjur	Bejjur R.F & Bejjur Ext-VIII	235	70.907
2	Kaghaznagar	Sirpur	Sirpur (T)	Kadamba R.F	107	174.223
			Total		*	245.13

The above CA area is proposed to be raised under various models as per site condition. The details are as follows.

SI.		10	Area	Model wise	area to be a	fforested
No.	Range	Village	proposed in Ha.	SMM 3x2m	LI 3x2m	ANR
1	Bejjur	Loadpally	70.907	20	10	40.907
2	Sirpur	Bhupalpatnam	174.223	80	94.223	0
		Total	245.13	100	104.223	40.907
	Requiremen	t of seedlings				
		Raising	470889	220000	229291	21599
		Replacements for 1 <sup>st</sup> year	97953	45760	47693	4500
			568842	265760	276984	26099

Hence it is proposed to raise the following seedlings for raising and for replacement of casualties in maintenance of plantation.

1) For Raising of plantations 245.13 Ha.

5.13 Ha. 4,70,000 Seedlings.

2) For casualties in maintenance 245.13 Ha.

98,000 Seedlings

Total 5,68,000 Seedlings

#### 5.1 OFFICE EXPENSES AND CONTINGENCIES RECURRING:

The amount proposed towards office expenses, contingent expenses are appended (Appendix-I & II)

#### 5.2 CAPITAL EXPENDITURE NON - RECURRING

No amount is proposed towards non-recurring expenditure

#### **5.3 SCHEME PERIOD:**

This scheme will be implemented over a period of (13) years commencing from 2016-17. The details of cash flow required for the entire project period for recurring and non recurring expenditure is furnished in Appendix-I & II.

#### 5.4 DETAILS OF PROPOSED MONITORING MECHANISM:

The Conservator of Forests, Adilabad Circle, Adilabad shall monitor the implementation of the conditions of Compensatory Afforestation and the survival of the plants planted.

Conservator of Forests

"COUNTER SIGN

Adilabae Sircle, Adilabad

- 118 -

APPENDIX - I
ABSTRACT FOR RAISING OF NURSERY AND PLANTATION IN C.A. LAND IN KAGHAZNAGAR FOREST DIVISION OF ADILABAD DISTRICT.

1	Component	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
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	NR method		625673	WEST SHEET			1 10000								625673
	Raising of plantation (Area in Ha.)	MANAGES .						September 1					100000	HOME TO SERVICE STATE OF THE PARTY OF THE PA	0
	m x 2m SMM method			8146600		Contraction of the last	200			A TOTAL OF					8146600
	lm x 2m LI method			5265346	Carlo Vingalia						-				5265346 887232
	NR method			887232 9958425											9958425
	) SMC works			5885125											5885125
b	Digging of trench work around CA Plantation		6612500	3003123	1000000			No.				Control Control	2000		6612500
	) Construction of Check dams i) Formation of Percolation tanks		6612500			1		8.00		800000			- CONTRACTOR	STATE OF THE PARTY OF	6612500
	) Saplings of desirable species in natural forests,	STATE OF THE PARTY OF			THE PERSON NAMED IN	Complete State	12 12 12 12 12	1	The same of	14 19 11 11	TREE DE		19.5		1613593
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	ord Year maintenance of plantation (Area in Ha.)						3982500								3982500
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APPENDIX - I

ABSTRACT FOR RAISING OF NURSERY AND PLANTATION IN G.A. LAND IN SY. NO. 125/1 & 125/2 OF LOADPALLY VILLAGE OF BEJUR MANDAL 70.907 Hs. and SY N 3982500 4402275 1127233 100 39825 104.223 42239 40.907 27556 O. Amount 2020-21 Rate 34630 36729 23961 104.223 YEAR WISE REQUIREMENT OF FUNDS
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ABSTRACT FOR RAISING OF NURSERY AND PLANTATION IN CA. LAND IN SY. NO. 125/1 & 125/2 OF LOADPALLY VILLAGE OF BEJUR MANDAL 70.907 Hs. and SY. N

No Item of work		2018-17	17	-	2047 40				STATISTICS	YEAR WI	YEAR WISE REQUIREMENT OF FUNDS	<b>EMENT OF</b>	FUNDS					
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Construction of Meeting Hall at Kaghaznagar				-		2000000	-											Name of the last
Estension of D.F.O Office building and its Maintenance		The state of		-		2500000												
Construction of Compound wall (1. Beijur, 2.Sirpur, 3. Coutais and 4. Ravindranagar				7		4000000												
Solar Systems (1. D.F.O Office, Range Offices at Kaghaznagar and Sirpur)				6		1000000												
Sub-Total			27030500		100	4188418	-	-	26346000			***************************************						
TOTAL:			2703050			5418842	-		3631691			11832368			8271180	-		9512008
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BARRECTER CERCECCE PDF Compre 8146600 5265346 887232 9958426 6612500 92450 5600580 2034260 5885125 2530000 4590502 625673 54577800 5452739 1007867 1613593 3463000 3828007 980173 3982500 4402275 1127233 0 5266800 6821897 1490733 6056900 6695181 1714371 Total 6965400 4579900 5062528 1296302 0 0 0 Qty. Rate Amount 2028-29 2027-28 Rate Oly. 2026-27 Rate Amount O 81 & 85 BHOOPALPATNAM VILLAGE OF SIRPUR MANDAL 174.223 Ha. WHICH FALLS IN KAGHAZNAGAR FOREST DIVISION Oty. Rate Amount Page \$ 100 69654 6965400 2025-26 Š. 2024-26 Rate Amount 100 60569 6056900 104,223 64239 6695181 40,907 41909 1714371 Oty. 2023-24 Rate Amount 100 52668 5266800 104,223 55860 5821897 40,907 36442 1490733 Oty. Rate Amount 4579900 5062528 1296302 45799 48574 31689 2022-23 104.223 Oty. 1st Year maintenance of plantation (Area in Ha.) tation (Area in Ha.) 3rd Year maintenance of plantation (Area in Ha.) ation (Area in Ha.) 6th Year maintenance of plantation (Area in Ha.) ion (Area in Ha.) 7th Year mathemance of plantation (Area in Ha.) 3m x 2m SMM metrod c) Construction of Check dams
d) Fornation of Percolation tanks
e) Saplings of desirable species in natural forests, weeding of miscellaneous growth b) Digging of trench work around CA Plantation esion of Nursery Raising of plantation (Area in Ha.) 3m x 2m SMM method operations (Area in Ha.) ursery & Plantation tem of work 2nd Year maintenance of pla 6th Year maintenance of plan 4th Year maintenance of 3m x 2m SMM method 3m x 2m Ll method 3m x 2m Ll method 3m x 2m Ll method 100 a) SMC works 8 9

	Item of work		2022-23		Control of	2023-24			2024-25		III SVIPS	2025-26		THE REAL PROPERTY.	2026-27			2027-28		TY DEL	2028-2		Total
	THE RESERVE OF THE PARTY OF THE	Qty.		Amount			Amount	Qty.	Rate	Amount	Qty.	Rate	Amount	Qty.	Rate	Amount	Qty.	Rate	Amount	Qty.	Rate	Amount	
-	3m x 2m LI method		ME B	10000		905(5)	A COL	E7.10	Clerical		104.223	73875 48195			76762			Water Street					7699474 1971513
П	ANR method	THE REAL PROPERTY.		NA SOL		DE CO					40.507	40100	10/10/10	E7/17	Same	Telephone Control						100000	0
1	8th Year maintenance of plantation (Area in Ha.)								MARKET STATE											R. Care			0
	3m x 2m SMM method													100	80102	8010200 8854473				2019		Control of	8010200 8854473
	3m x 2m LI method ANR method			No.	1		-			4.8						2267230	1	-00.10	Ball and		ORTHON.		2267230
						Name of Street	O Service				AL ALV		90000		200.0		OR II			2.6			0
22	9th Year maintenance of plantation (Area in Ha.) 3m x 2m SMM method		NV 19-1						01800		Angeles (						100	92117	9211700				9211700
	3m x 2m Ll method			No.				No.	100			10,000	de .	1000			104.223	97700	10182587	7	-	(Storate)	10182587
	ANR method		The state of the s						3,	PARTY NAMED IN	The second						40.907	63738	2607330				2607330
	10th Year maintenance of plantation (Area in	OLIVE A	19330	1000	<b>EBA09</b>	BANK!	190	133 V (1)	or a second	7 729			U. Sales		100			0.75	1		200	DAY R	0
	Ha.) : 3m x 2m SMM method																	DES				10593500	10593500
	3m x 2m LI method ANR method								*													11709975 2998401	
П				The same							415231	-		NO IN	500V)					The Cale			0
5	Development and improvement and extention of Nursery infrestructure for CA scheme																						24075000
	Erection of chainlink mesh fence Construction of boundary pillars		No const	CONTRACTOR OF THE PARTY OF THE		SECTION .	The same of		ASSTORE .														14950000 6450000
3	Construction of Guest House at Kaghaznagar	N SIGN		NO.	100				5000		-									12000			2500000 2000000
	Construction of Meeting Hall at Kaghaznagar  Extension of D.F.O Office building and its Maintenance		Residence of	2000		23718	Total San				2000	100		1000					Sales S			E VI	2500000
	Construction of Compound wall (1. Bejjur, 2.Sirpur, 3.Koutals and 4.Ravindranagar			ALC: U			Esserie		HUTCH!	BECK!						Zaki ka	House	80.00	Marie S	0.00		Name of	4000000
	3.Koutels and 4.Ravindransgar Solar Systems (1. D.F.O Office, Range Offices at		No. of London					•		-	12000				NAME OF TAXABLE PARTY.	1000					100		1000000
4	Solar Systems (1. D.F.O Office, Range Offices at Kaghazhagar and Sirpur) Sub-Total			10938730			12579430	2000		14466452			16636387			19131903			22001617	7		25301876	268207775
0	Administrative Cost 10%		VALUE OF THE PARTY	1093873		OTHER .	1257943			1446645		No.	1663639	Mark.		1913190 21045093	Var Barrie		2200162 24201779			2530188	26820779 295028554
-	TOTAL:			12032603		alla 9	13837373			15913097			18300026			21045093			24201/18			Or	295030000
2	20										- 1.981							nal Forest aghaznag				Lakhs Crores	2950.30 29.50
				•								•											
	- 4									Page	6												

SI. FSR	tem	RIMAR	YBE	DS NUE	CERT				
No. No			T	NUR	SERY FOR T	HE YE	AR 20	16-17	1
PRIMA	DVPPPP			Qty		ate	Unit		
burning a to the me	of years without changing the medium - what is require layer of grass on it and adding the below recommended fium.	eds are	otall!	rom for	The state of the s				1
01.01.0	Preparation of New Site by clearing jungle grown uprootal of stumps and removal of surface stones, p etc.	th,	1	T		-			
01.01.03	Digging soil of the demarcated beds of 1x1x0 30 m	sim.		Be	4.32		1	4	
01.01.04	including loading and unless the state of th	d	1	Bec	33.26	1	1	33	
01.01.06	cum FYM per primary bed	25	1	Bed	25.45		1	25	
01.01.07	Cost and transport of 0.025 cum FYM  Mixing of sandy soil and FYM in 5:1 proportion (5 of volume of bed) with assessment of the same of th	0 %	1 .	Bed	21.87		1	22	
	bed and lavelling.	the	1	Bed	9.45	. 1		9	
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	1		11	
01.01.09	Soil drenching with 0.1% Carbendazim (10 gm or 10 of Carbendazim in 1 lit of water)		1		By Nurser	,	+	0	
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		As per special instruction under	7		500	
01.01.11	Seed dressing with Captan or Thiram at 3-5 gm / kg of seeds (the insecticide should be mixed with 250 gm of a and then this should be thoroughly mixed with seeds to sown after pretreatment and before sowing)				By Nursery Watcher	2		0	
01.01.12	Sowing of seed (finer seeds like Adina, Mitragyna, Anthocephalus etc. to be mixed with sand and bradcaste Bigger seeds to be dibbled in lines 1-2 cm apart) and overing the bed to a thickness of 2.5 cm with paddy hay including cost and conveyance			Bed	10.75	1		11	
	Vatering the primary nursery beds with rose water ca wice daily for a maximum period of 2 months.	1	1000	Bed/ 2 months	12.10	1		24	
1.01.14 pr	erbing the primary beds all around with Cement Bricks in permanent nurseries only), if required. In all such remanent primary beds, no incurring of expenditure for aking the primary beds every year is permitted except for set of fungicides. This item has to be done with prior ritten approval of DFO		P	er Bed	As per CSSR			200	-
_	ost of chemicals, fungicide and insecticide		A 10	000/- per 1 la	s limited to Rs.			20	
.01.10  ar	oplication of Fungicide and insecticide with power- ven back-pack mechanized sprayer as used in ricultural fields to spray insecticide.	1	В		bed stage  y Watcher			0	
		-	-		-		8:		

#### UNIT RATE:

860.00 As per FSR 2016-17

989.00 As per FSR 2017-18 (15% Escalation charges added)

1137.35 As per FSR 2018-19 (15% Escalation charges added)

Divisional Forest Officer; Kaghaznagar

Per Bed

Or

- 119 -

UNIT COST FOR RAISING OF 50,000 BAG PLANTS NURSERY FOR 2017-18 (size of bag 5"x 9") and Convesion to 8" x 12"

¥0.	FSR item No	Nature of work		Qty		Ra	te	Unit	Amount	Remarks
	01.03.	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.						•		
		From July to October for 4 Months  Raising of Nursery in Polythene bags in sizes of 4"x7" (200								1
		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.	30	Ве	ed	44.1	2	1	1324	
		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	ii) 12.5 cm x 225 cm (5" x 9") size bags: 200 g 366 bags / kg	150	K	gs	159.0	00	1	23850	
		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				-	1/	1000	17408	
		a) Distance up to 5 km 12.5 cm x 225 cm (5" x 9") = 1.12 cum vol. for 1000 bags	500	00 B	Bags	348	1.16	1000	17400	
	01.03.06	b) For every extra km beyond 5 km upto 25 km	+-	00 1	Bags	130	5.05	1000	6803	
	01.03.08	12.5 cm x 225 cm (5" x 9") = 1.12 cult vol. los 12.5 cm x 9.07 = 136.05)	500	00	Jug.					
		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 opening opening of bags and filling with potting mixture and gently opening opening opening opening opening opening opening open				1.	30.95	10000	4155	
1.		opening of bags and filling with potting mixture and go pressing the same with finger tips and arranging in beds.	50	0000	Bags		6.59	1	198	
1	01.03.1		ic	30	Bed			1000	613	7
1	01.03.	1 of hade including	nto s	0000.	Bags	1	122.74	-	+	
+	01.03.	12 Inglyhags Valama	iai,	0	Bag	s	73.01	1000		+
T	01.03	1) Isrammaddi cic.) dir	180	1	Red	14.	238.19	1	28	583
	01.55	Watering the plants twice a day from July - October  a) Manually with rose spray or finely perforated nozzle attack  a) Manually with rose spray or finely perforated nozzle attack  a) Manually with rose spray or finely perforated nozzle attack  a) Manually with rose spray or finely perforated nozzle attack  b) A control of the plants twice a day from July - October  a) Manually with rose spray or finely perforated nozzle attack  a) Manually with rose spray or finely perforated nozzle attack  a) Manually with rose spray or finely perforated nozzle attack  a) Manually with rose spray or finely perforated nozzle attack  a) Manually with rose spray or finely perforated nozzle attack  a) Manually with rose spray or finely perforated nozzle attack  b) A control of the plants twice a day from July - October  a) Manually with rose spray or finely perforated nozzle attack  a) Manually with rose spray or finely perforated nozzle attack  b) A control of the plants twice a day from July - October  a) Manually with rose spray or finely perforated nozzle attack  a) Manually with rose spray or finely perforated nozzle attack  b) A control of the plants twice a day from July - October  a) Manually with rose spray or finely perforated nozzle attack  b) A control of the plants twice a day from July - October  a) Manually with rose spray or finely perforated nozzle attack  c) A control of the plants twice a day from July - October  a) Manually with rose spray or finely perforated nozzle attack  c) A control of the plants twice a day from July - October  a) Manually with rose spray or finely perforated nozzle attack  c) A control of the plants twice a day from July - October  a) Manually with rose spray or finely perforated nozzle attack  b) A control of the plants twice a day from July - October  a) Manually with rose spray or finely perforated nozzle attack  c) A control of the plants twice a day from July - October  a) Manually with rose spray or finely perforated nozzle attack  b) A control of the plants twice a day from July	ched	30	mor	nths		1	1 0	.00
	01.0	a) Manually with sprinkler sets fitted all along the beds	at a	0	Bed /	month	66.2	+	#	1312
	01.	b) Mechanically With Pheight of 75-100 cm height.  Weeding the plants from July to October (3 times)		30	_	weeding	43.74	-	1	1312
	1	.03.16 1st weeding - July		30	1	weeding		-	1	1312
)	1	1.03.17 2 <sup>nd</sup> weeding - Aug		30	Bed	/ weeding	43.1			
	1		n size bed	s	-		-	+	-	6128
	1	3 <sup>rd</sup> weeding - Sept  Shifting, Grading and rearranging in beds of 10x1 m (2600 no. of 4"x7"bags; 1700 no. of 5"x9" bags)		30	В	ed / shiftin	g 204	.28		
-	H	(2600 NO. 02	· hags an	1	1	Bed	58	.00	1 .	174
0		01.03.19 One Grading in Sept.  Replacement of casualties after sorting out the empty is at one end of the bed (maximum 10% of total	stock is	3	1		ich a maxim	um limit of		1000
6	H	01 03.20 keeping at one	r NPK-		1	As per actuals Rs. 2000/ per	1 lakh polyba	g seedlings.		
	ALL CONTRACTOR	permissible)  O1.03.21 Cost of foliar nutritient formulations like multiplex of 19:19:19:19; fungicides and insecticides from July to Oct.	Marie Tolland				65-6-6-6			

SI. No.	FSR item No	Nature of work		Qty	Rate	Unit	Amount	Remark
T.	01.03.22	Application prophylactic foliar spray of 0.2% of Carbendazim / Dithane M-45 and any organo-phosphate (Monocrotophos / Phosphamidon @ 3-4 ml in 1 lit of water) at regular interval (once in a month) alternatively. Similarly application of multiplex or NPK. 19:19:19 (a teaspoon in 1 lit water) - once in a month - to start 1 month after conversion by back-packed power-sprayer (preferably in morning or evening and no watering for at least 12 hours after spray)		By Nurse	ery Watcher		0.00	
	01.03.23	Weeding in the space between the beds, inspection path and sorroundings of Nursery	30	Bed	29.81	1	894	
	Page No.VIII of FSR 2016-17	Nursery Watcher from April to October for 7 Months	7	Month	5820	1	40740	
		Sub total	Spiral in				141330	TALED O
		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).						•
		From November to March for 5 Months  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					7.	
		a) Distance up to 5 km						
	01.03.24	i) RT plants to 6"x12" polybags		1000	494.29			
-	01.03.25	ii) RT plants to 8"x12" polybags		1000	1013.45	200		
-	01.03.26	iii) 4" x 7" to 6" x 12" polybags (2.15 - 0.56 = 1.59 cum)		1000	494.29			Eskelly.
-	01.03.27	iv) 4" x 7" to 8" x 12" polybags (3.82 - 0.56 = 3.26 cum)		1000	1013.45			
-	01.03.20	v) 5" x 9" to 8" x 12" polybags (3.82 - 1.12 = 2.70 cum) b) For every extra km beyond 5 km upto 25 km	50000	Nos	864.05	1000	43203	
		i) RT plants to 6"x12" polybags		Nos/Km	12.88	1000 No. /		
	01.03.30	ii) RT plants to 8"x12" polybags		Nos/Km	26.41	1000 No. /		1
	01.03.31	iii) 4" x 7" to 6" x 12" polybags (2.15 - 0.56 = 1.59 cum)		Nos/Km	12.88	1000 No. / km		
1		iv) 4" x 7" to 8" x 12" polybags (3.82 - 0.56 = 3.26 cum)		Nos/Km	26.41	1000 No. / km		
1	01.03.33	v) 5" x 9" to 8" x 12" polybags (3.82 - 1.12 = 2.70 cum) (15 Km x 21.87 = 328.05)	50000	Nos/Km	328.05	1000	16403	
		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)				1		
		i) RT plants to 6"x12" polybags		1000	870.78		The second	
	01.03.35	ii) RT plants to 8"x12" polybags		1000	1785.38			
	01.03.36	iii) 4" x 7" to 6" x 12" polybags (2.15 - 0.56 = 1.59 cum)		1000	870.78	The Other Park	4-225	ASIS.
	01.03.37	iv) 4" x 7" to 8" x 12" polybags (3.82 - 0.56 = 3.26 cum)		1000	1785.38			
-	01.03.38	v) 5" x 9" to 8" x 12" polybags (3.82 - 1.12 = 2.70 cum)	50000	Nos	1478.68	1000	73934	1
		Conversion into 10" x 16" bags for only SF Divisions is permitted (No. to be finalized with due approval from Circle Head) to make tall plants of at least 2 m height (excluding the height of bags). The transplanted seedlings at the time of conversion to 10" x 16" bags shall be at least 75 cm height (excluding the height of bags).						1
No. of the last of	1	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.		. "				
_	01.03.39 i	) 6" x 12" to 10" x 16" polybags (8.35 - 2.15 = 6.20)		1000	2589.74		0	
	01.03.40 i	i) 8" x 12" to 10" x 16" polybags (8.35 - 3.82 = 4.53)		1000	1892.18		0	
							-	*

SI.	FSR item							M
io.	No	Nature of work		Qty	Rate	Unit	Amount	Remar
		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						
	01.03.41	i) 6" x 12" to 10" x 16" polybags (8.35 - 2.15 = 6.20)		1000	3395.48		_	
	01.03.42	ii) 8" x 12" to 10" x 16" polybags (8.35 - 3.82 = 4.53)	140,777	1000	2480.89		0	
	01.03.43	Stakes to be provided to plants to tall Plants in 10"x16" bags	0.55	1000	2160		0	
		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		1000	2100		0	
1	01.03.44	1st weeding - December	. 63	Bed / weeding	43.74	1	2756	
1	01.03.45	2 <sup>nd</sup> weeding - February	63	Bed / weeding	43.74	1	2756	
1	01.03.46	Shifting, Grading and rearranging in secondary beds - One Grading in February	63	Bed / weeding	204.28	i	12870	
		Watering the plants manually twice a day (from Novemebr - March) with rose spray or finely perforated nozzle attached to a hose pipe.						
1	01.03.47	a) Manually with rose spray or finely perforated nozzle attached to a hose pipe for 5 months	63	Bed / 5 months	238.19	1	75030	
+	01.03.48	b) Mechanically with sprinkler sets fitted all along the beds at a height of 75-100 cm height.	0	Per bed / month	66.20	1.	0 .	
	01.03,49	Application prophylactic foliar spray of 0.2% of Carbendazim / Dithane M-45 and any organo-phosphate (Monocrotophos / Phosphamidon @ 3-4 ml in 1 lit of water) at regular interval (once in a month from Dec - March) alternatively. Similarly application of multiplex or NPK 19:19:19 (a teaspoon in 1 lit water) - once in a month - to start 1 month after conversion by back-packed power-sprayer (preferably in morning or evening and no watering for at least 12 hours after spray)		By Nursery	Watcher		0	
	01.03.50	Cost of foliar nutritient formulations like multiplex or NPK- 19:19:19; fungicides and insecticides (from Dec - March)		As per actuals with a Rs. 2000/ per 1 lakh	maximum limit of polybag seedlings.		1000	
	age No.VIII of FSR 2016-17	Nursery Watcher from November to March for 5 Months	. 5	Month	5820	1	29100	
	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, s of 5 % of estim	ate in raising	:	19618	1
+		Sub total	No.		No. of Street, or other last		276670	
+		Gran total		The same of the sa		-	TO THE REAL PROPERTY.	

#### UNIT RATE:

418000.00 As per FSR 2016-17

480700.00 As per FSR 2017-18 (15% Escalation charges added)

552805.00 As per FSR 2018-19 (15% Escalation charges added)

8.36 Per Plant - 2016-17 9.61 Per Plant - 2017-18 11.06 Per Plant - 2018-19

#### UNIT COST FOR MAINTENANCE OF BAG PLANTS NURSERY FOR 2018-19 (size of bag 8"x12")

SI.	FSR item	Nature of work	Q	ety	Rate	Unit	Amount	Remark
1		MAINTAINANCE YEAR OF NURSERY			MERCE			
		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				
	5.12	Watering polybag secondary beds twice a day for 4 months						
	01.04.01	a) Manually with rose spray or finely perforated nozzle attached to a hose pipe ( From April to July for 4 months)	63	Bed / 4 months	238.19	1 -	60024	
	01.04.02	b) Mechanically with sprinkler sets fitted all along the beds at a height of 75-100 cm height.	0	Bed / month	66.2	. 1	. 0	
	01.04.03	Weeding once during maintenance year	63	Bed / weeding	43.74	1	2756	
	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)	63	Bed / 2 times shifting	215.68	1 :	27176	
	01.04.05	Application prophylactic foliar spray of 0.2% of Carbendazim / Dithane M-45 and any organo-phosphate (Monocrotophos / Phosphamidon @ 3-4 ml in 1 lit of water) at regular interval (once in a month from April to August) alternatively. Similarly, application of multiplex or NPK 19:19:19 (1 teaspoon in 1 lit water) - once in a month - to be applied by back-packed power-sprayer (preferably in morning or evening and no watering for at least 12 hours after spray)	63	By Nursery Watcher			0	
	01.04.06	Cost of foliar nutritient formulations like multiplex or NPK-19:19; fungicides and insecticides (from April - August)	63	As per actuals v limit of Rs. 200 polybag seedlin			1000	
		Cowdung Slurry application (One can apply chemical foliar spray or apply cowdung slurry - not both)						
	01.04.07	Preparation of cowdung slurry -	63	per 100 beds	As per actua maximum of		945	
	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.	50000	Nos	178.79	1000	8940	
3	01.04.09	Weeding in the space between the beds, inspection path and sorroundings of Nursery	63	Beds	24.03	1	1514	
	01.04.10	Contingencies for Maint. Year towards the expenditure like cost of hose pipe, nursery boards, electricty 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.		of 5 % of est	s, subject to max. timate in Maint. Cear.		6365	3
	Page No.VIII of FSR 2016 17		4	Month	5820	1	23280	
7						TO S	132000	

Per 50000 Bags or 132000

#### UNIT RATE:

132000.00 As per FSR 2016-17

151800.00 As per FSR 2017-18 (15% Escalation charges added)

174570.00 As per FSR 2018-19 (15% Escalation charges added)

200755.50 As per FSR 2019-20 (15% Escalation charges added)

2.64 Per plant 2016-17

3.04 Per plant 2017-18

3.49 Per plant 2018-19

4.02 Per plant 2019-20



1691

### ESTIMATE FOR Identification and marking of saplings of desirable species in natural forests, weeding of miscellaneous growth IN C.A. AREAS

SI. No.	Nature of work	Quantity	Rate	Unit	Amount	Remarks
1	Identification and marking of saplings of desirable species in natural forests, weeding of miscellaneous growth upto a radius of 1M around the selected saplings and Soil working around 0.50 M radius of selected saplings to a depth of 10cm .(Not to be carried out around dressed teak stumps).  245.13 Ha @ 400 = 98052 samplings	98052	14.31	Per sampling	1403124	•
		TOTAL:			1403124	

1403124 As per FSR 2016-17

1613593 As per FSR 2017-18 (15% Escalation charges added)

1855632 As per FSR 2018-19 (15% Escalation charges added)

2133976 As per FSR 2019-20 (15% Escalation charges added)

2133976

1123

### ESTIMATE FOR SMC WORKS IN C.A. PLANTATION AREAS

SI. No.		Nature of work	Quantity	Rate	Unit '	Amount	Remarks
1	02.01.20	SMC works like Digging of CCT @ 150 Cmt. per 1 Ha. for 258.17 Ha.x 150= 38726 Cmt in the plantation areas	38726	193.99	Per Cmt.	7512457	
2		Misc. like cost of implements				17543	
			TOTAL:			7530000	

**7530000** As per FSR 2016-17 8659500 As per FSR 2017-18 (15% Escalation charges added) 9958425 As per FSR 2018-19 (15% Escalation charges added)

9958425

1128

#### UNIT COST DIGGING OF TRENCH WORK AROUND THE C.A. PLANTATION AREA

SI. No.	FSR Item No.	Nature of work	Quantity	Rate	Unit	Amount	Remarks
1	05.08.12	Digging of Cattle proof trench around the 245.13 Ha. with size of 2.00 width and 2.00 mtr. Depth (total 13000 Rmt.)	52000	85	Per Cmt.	4420000	
		2x2/2 x 2 = 4.00 Cmt.					
2		Misc. like cost of implements				30000	
			TOTAL:			4450000	

4450000

5117500 (15% Escalation charges added)for 2017-18 5885125 (15% Escalation charges added)for 2018-19

ESTIMATE FOR CONSTRUCTION OF CHECK DAMS IN C.A. PLANTATION AREAS

SI. No.	Nature of work	Quantity	Rate	Unit	Amount	Remarks
1	Construction of Check dams	5	1000000	P. No	5000000	
		TOTAL:			5000000	

5000000

5750000 As per SSR 2016-17 (15% Escalation charges added) 6612500 As per SSR 2017-18 (15% Escalation charges added)

6612500



## ESTIMATE FOR FORMATION OF PERCOLATION TANKS IN C.A. PLANTATION AREAS

SI. No.	Nature of work	Quantity	Rate	Unit	Amount	Remarks
1 '	Construction of Percolation tanks					
	a) Major PTs	2	500000	P. No	1000000	
	b) Medium PTs	10	100000	P. No	1000000	
	c) Mini PTs	60	50000	P. No	3000000	
		TOTAL:			5000000	

5000000

5750000 As per SSR 2016-17 (15% Escalation charges added) 6612500 As per SSR 2016-17 (15% Escalation charges added)

6612500

1131

### UNIT COST ERRECTION CHAIN LINK MESH FENCE AROUND THE C.A. PLANTATION AREA

SI. No.	FSR Item No.	Nature of work	Quantity	Rate	Unit	Amount	Remarks
1		Errection chainlink mesh fence around the CA area	13000	1000	Per Rmt.	13000000	•
	and the same of		TOTAL:			13000000	

13000000

14950000

(15% Escalation charges added)for 2016-17

Divisional Forest Officer Kaghaznagar

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# Development and improvement and extention of Nursery infrastructure for CA scheme

SI. No	Range	Location of nursery	Item of work	Amount required
1	Kaghaznagar	Kaghaznagar Forest	Borewell & Motor	2,000
18:5	7	Complex	Over head tanks 2 Nos.	2.000
tial	and the same		Central water system	1.500
16.3		N ISSNER OF SOLUTION	Seed storage room	4.500
	To be seen as a		Kerbing the primary beds all around with	3.000
			Cement Bricks (in permanent nurseries only) 50 Nos @ 1500/-	0.750
				11.750
2	Kaghaznagar	Easgaon	Borewell & Motor	1.000
			Over head tanks 2 Nos.	1.500
			Central water system	4.500
			Seed storage room	3.000
BIN		The second second	Chainlink fencing fencing	5.000
	The second second	The state of the s	Solar water System	
			Kerbing the primary beds all around with Cement Bricks (in permanent nurseries	0.750
			only) 50 Nos @ 1500/-	23.750
				23.730
3	Sirpur	Pedda Banda	Chainlink fencing fencing	5.000
			Central water system	4.500
			Over head tanks 2 Nos.	
			Borewell & Motor	1.500
		Residence of the second	Seed storage room	1.000
	1	44	Kerbing the primary beds all around with Cement Bricks (in permanent nurseries only) 50 Nos @ 1500/-	3.000 0.750
		1 2		15.750
				7
4	Sirpur	Sirpur Forest Complex	Borewell & Motor	1.000 -
			Over head tanks 2 Nos.	1.500
			Central water system	1 500
			Seed storage room	3.000
			Chainlink fencing fencing	5.000
			Kerbing the primary beds all around with Cement Bricks (in permanent nurseries only) 50 Nos @ 1500/-	0.750
				15.750
5	Sirpur	Kouthala	Borewell & Motor	1.000
			Over head tanks 2 Nos.	1.500
			Central water system	4.500
			Seed storage room	
			Chainlink fencing fencing	3.000
181				5.000
2			Solar water System	8.000
			Kerbing the primary beds all around with Cement Bricks (in permanent nurseries only) 50 Nos @ 1500/-	0.750
				23.750

Development and improvement and extention of Nursery infrastructure for CA scheme

-	Range	Location of nursery	Item of work	Amount required
6	Karjelly	Ravindranagar	Borewell & Motor	1.000
	//	1000	Over head tanks 2 Nos.	1.500
			Central water system	4.500
S Au			Seed storage room	3.000
	ALC: NO.		Chainlink fencing fencing	5.000
			Solar water System	8.000
			Kerbing the primary beds all around with Cement Bricks (in permanent nurseries only) 50 Nos @ 1500/-	0.750
				23.750
7	Karjelly	Gangapur	Chainlink fencing fencing	5.000
	ranjony	Cungapur	Solar water System	8.000
			Seed storage room	3.000
			Spinkler water system	5.000
3 1			Drilling of Borewell with	3.000
	ALCOHOL:		accessories	2.000
			Over head tanks 2 Nos.	1.500
			Kerbing the primary beds all around with Cement Bricks (in permanent nurseries only) 50 Nos @ 1500/-	0.750
			Omy) 30 Nos (@ 1300/-	25.250
				s. e spansausa.
8	Bejjur	Ettiguda	Chainlink fencing fencing	5.000
			Solar water System	8.000
			Seed storage room	3.000
		* · · · · · · · · · · · · · · · · · · ·	Spinkler water system	5.000
			Drilling of Borewell with accessories	2.000
	1		Over head tanks 2 Nos.	1.500
			Kerbing the primary beds all around with Cement Bricks (in permanent nurseries only) 50 Nos · @ 1500/-	0.750
				25.250
9	Kaghaznagar	Chedwai	Chainlink fencing fencing	5.000
			Solar water System	8.000
			Seed storage room	3.000
			Spinkler water system	5.000
			Drilling of Borewell with accessories	2.000
	The state of the s		Over head tanks 2 Nos.	1.500
			Kerbing the primary beds all around with Cement Bricks (in permanent nurseries only) 50 Nos @ 1500/-	0.750
	F			25.250
10	Karjelly	Karjelly	Chainlink fencing fencing	5.000
HIE			Solar water System	8.000
	Market Control		Seed storage room	and the second s
	Mary Sire Street			3.000
			Spinkler water system Drilling of Borewell with	5.000
			accessories	. 2.000

### Development and improvement and extention of Nursery infrastructure for CA scheme

SI. No	Range	Location of nursery	Item of work	Amount required
		***	Kerbing the primary beds all around with Cement Bricks (in permanent nurseries only) 50 Nos @ 1500/-	0.750
	SEA CONTRACTOR			25.250
11	Karjelly	Gudem	Chainlink fencing fencing	5.000
			Solar water System	8.000
0	10 THE 18TH	E DE LE CONTROL DE LA CONTROL	Seed storage room	3.000
			Spinkler water system	5.000
			Drilling of Borewell with accessories	2.000
200			Over head tanks 2 Nos.	1.500
			Kerbing the primary beds all around with Cement Bricks (in permanent nurseries only) 50 Nos @ 1500/-	0.750
				25.250
			Grand Total	240.750



The CA area proposed to be raised under various models as per the site conditions and Requirement of seedlings for CA scheme



SI.	Range	CA land	Area	Mode	el wise area to be	afforested	
No	Range	, village area	proposed in Ha	SMM (3m x 2m)	LI(3m x 2m)	ANR	Total
1	Bejjur	Laodpally	70.907	20	10	40.907	70.907
2	Sirpur	Bhoopalpatnam	174.223	80	94.223	0	174.223
		STEP STEP	245.13	100	104.223	40.907	245.13
		Requir	ement of seed	lingsf or the above ar	rea for CA scheme		
SI. No	Range	CA land village area	Area proposed in Ha	SMM (3m x 2m) (2000 Per Ha)	LI(3m x 2m) (2000 Per Ha)	ANR (@ 480)	Total
1	Bejjur		70.907	40000	20000	19635 ·	79635
2	Sirpur	Raising year	1.74.223	160000	188446	0	348446
			245.13	200000	208446	19635	428081
		Inclusive 10 %		220000	229291	21599	470889
1	Bejjur	Replancement	70.907	8320	4160	4091	16571
2	Sirpur	for 1st year	174.223	33280	39197	0	72477
		14	245.13	41600	43357	4091	89048
		Inclusive 10 %		45760	47693	4500	97953
						480	
		Grand Total					

Divisional Forest Officer, Kaghaznagar

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# UNIT COST FOR ADVANCE OPERATIONS FOR CA SCHEME FOR 2017-18 UNDER SEMI MECHNIACAL METHOD- (3m X 2m espacement)

ST.	FSR item No	Nature of work	Qty	Rate	Unit	Amount	Remarks
1	02.08.01	Survey with hand-held GPS (staff to carry out) and demarcation - one manday is allowed for assistance. The surveyed sketch with exact effective area statement will be uploaded in MIS platform by end of December.	1	311.04	1	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.					
2	02.08.03	Very Light Jungle Growth (>10% and upto 20% ground area covered with Jungle growth)	0.50	2598.59	1	1299	
3	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.	0.50	5207.65	1	2604	1
		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 process.					,
4	02.08.06	Very Light Jungle Growth (>10% and upto 20% ground area covered with Jungle growth)	0.50	8434.51	1	4217	
5	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.	0.50	10965.25	1	5483	
		Collection and removal of uprooted stumps of all sizes, other debris etc., to outside the plantation site.					1
6	02.08.09	Very Light Jungle Growth (>10% and upto 20% ground area covered with Jungle growth)	0.50	7363.33	1	3682	
7	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.	0.50	8585.68	1	4293	
1		SUB-TOTAL			OR	21889 22000	THE REAL PROPERTY.

#### UNIT RATE:

22000.00 As per FSR 2016-17

25300.00 As per FSR 2017-18 (15% Escalation charges added)

OR

25300.00 Per Ha.

Divisional Forest Officer, Kaghaznagar

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				1	en me		A A CONTRACTOR
10	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
1	2	3	4	5	6	7	8
	PLANTATIO		10.20			-	SECTION 1
	02.08.	RAISING OF BLOCK PLANTATIONS SEMI-MECHANICAL PLANTATION		The state of the s	1		
	02.09.	PLANTING OPERATIONS DURING RAISING YEAR	BY BY BY		ONE THE REAL PROPERTY.	ON SOM	SOUTH S
		Deep Ploughing the effective (excluding unsuitable patches) plantation area across the slope to a depth of 30 cm with Heavyduty Tractor of 55 HP and above with Firm Mould Board (FMB) plough (FOR UNTILLED AREA) - to be completed by 15th of June			1		-
1	02.09.01	i) Ordinary soil	Ha	1	3004.60	1	3005
2	02.09.04	Removing congestion of root suckers and other uprooted	На	1	853.42	1	853
		material hindering the effective ploughing  Note: After intensive site preparation including clear-felling,				*	
		burning, stump uprootal, removal of uprooted material, ploughing with the provision of removal of remnants of root suckers from soil, it is expected that there would not be any coppice growt	4				
		Allignment & Stacking including demarcation of base line					
3	02.09.06	ii) 2X3 m espacement = 1666 planting points	100 no.	1666	66.74	100	1112
4	02.09.09	Cost of preparation of stakes (0.45 m length) and transportation	100 no.	1666	47.30	100	788
		to site Digging of Pits in Ploughed Areas in June - July by adopting 50% of original rate of digging of pits of ordinary					
5	02.09.11	soil b) 45 cm³ pits	Pit	1666	8.84	1	14727
3	02.09.11	PLANTING OPERATIONS DURING RAISING YEAR		1000	0.04		14121
		Transportation of Planting Stock (including loading and unloading)					-
6	02.09.13	From nursery to plantation site - upto 5 Km lead 15 X 30 cm (6"X12") bag plants	100 nos	1666	96.79	100	1613
0	02.09.13	From nursery to plantation site - beyond 5 Km lead	100 1103	1000	50.75	100	10.5
	1000	i) For every extra km beyond 5 km upto 20 km				E GEORGE	
7	02.09.16	15 X 30 cm (6"X12") bag plants (15 x 3.38 =50.70)	100 nos / km	1666	50.70	100	845
		Internal transportation to planting points on head loads	KIII	7.00			
8	02.09.22	15 X 30 cm (6"X12") bag plants	100 Nos	1666	76.25	100	1270
		PLANTING: No Eucalyptus, not even mixed with bamboo, shall be planted in CA area. Only indigenous secondary harwood species and its associates mixed with local NTFP species shall be planted in CA areas. The minimum height of the planting stock to be plant					
	THE R. S.	Fortification of seedling with insecticide and treating pits with SSP					
9	02.09.24	i) 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)	100 No.	1666	32.62	100	543
10	02.09.25	Cost of SSP, Chloridine dust or Chloropyriphos (1666 x 50 / 1000/50 = 1.666 Bags)	Bag	1.666	500	1	833
11	02.09.27	Planting ii) 45 cm <sup>3</sup>	100 No.	1666	363.37	100	6054
74	JE. 00.21						
	02.09.29	Replacement of Casualties: 20% during Raising Year. The caualty replacement should be done in 3 stages at an interval of 15 days immediately after planting during raising year. 50% of unit rate of original pitting during raising year. Planting, transpor (1666 x 20% = 333 Nos)					
12		a) Pitting (50% of Original Rate 8.84 x 50% =4.42)	Each	333	4.42	1	1472
13		b) Transportation of Seedlings- up to 5Kms - 5 to 20Kms	No.	333	96.79 50.70	100	322 169
15		c) Internal transporation	No.	333	76.25	100	254
16		d) Planting	No.	333	363.37	100	1210
17		Fertilizer Application for boosting growth  Cost of DAP @ 25 gm / planting point (1666 x 25 / 1000/ 50 =	Por	0.922	1400		1100
	E STATE OF THE	0.833)	Bag	0.833	1400	1	1166

SI No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
1	2	3	4	5	6	. 7	8
18	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	100	Qty (in Rs)	100	543	
	PO WES	WEEDING & SOIL WORKING					
19	02.09.31	a) Circular weeding to a radius of 0.50 m around the plant (during July - Aug)	100	1666	103.79	. 100	1729
20	02.09.32	b) 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.)	100	1666	545.08	100	9081
		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			1		
21	02.09.33	i) Ordinary soil	Ha	1	2048.90	1	2049
22	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)	100	1666	103.19	100	1719
23	02.09.36	Uprootal of Mahaveera (Hyptis suaveolens) weed with prior written approval of Circle Head and taking photograph before and after uprootal. The weed removal shall be completed before September-end at any cost before inter-ploughing.	На	1	3032.48	1	3032
24	02.09.38	Cost of Protection: Identity Photo of Watchers shall be pasted in respective Plantation Journal. 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 ( 7500 / 10 Ha = 750.00 Per Ha)	per month per watcher	9	750	1	6750
25		Preparation and fixing of plantation board of standard size 6'x3' with iron Angulars, guage 6 mm (Errected on 65 mm x 65 mm x 6 mm for length of 3.00 m) including construction of CC Base		1	A/A		400
G. 1782						Total	61539

61600.00

61600.00 As per FSR 2016-17 70840.00 As per FSR 2017-18 (15% Escalation charges added) 81466.00 As per FSR 2018-19 (15% Escalation charges added)

OR 81466 Per Ha.

#### UNIT COST FOR 1st YEAR MAINTENANCE OF C.A. PLANTATION FOR 2019-20 UNDER SEMI MECHNIACAL METHOD-(3m X 2m espacement)

S No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
1	2	3	4	5	6	7	8
	02.10.	1ST YEAR MAINTAINANCE			Mark Table		
	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.					
	02.09.11	a) Pitting (Original Rate 8.84)	Each	416	8.84	1	3677
	02.09.13	b) Transportation of Seedlings- up to 5Kms	No.	416	96.79	100	403
	02.09.16	- 5 to 20Kms	No.	416	50.70	100	211
	02.09.22	c) Internal transporation	No.	416	76.25	100	317
	02.09.27	d) Planting	No.	416	363.37	100	1512
	02.10.02	Circular weeding to a radius of 0.50 m around the plant during raising year (July - Aug)	No.	1666	103.79	100	1729
	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	No.	1666	545.08	100	9081
	02.10.04	Uprootal of Mahaveera (Hyptis suaveolens) weed with prior written approval of Circle Head and taking photograph before and after uprootal. The weed removal shall be completed before August-end (before flowering) at any cost before interploughing.	На	1	3032.48	1	3032
	02.10.05	Inter-ploughing (during September) the effective plantation area (excluding unsuitable patches) across the slope to a depth of 30 cm with Heavyduty Tractor of 55 HP and above with Firm Mould Board (FMB) plough. This operation shall be carried out after	На	1	2048.9	1	2049
	02.10.06	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July-Aug)	No.	1666	103.19	100	1719
	02.10.07	Enumeration of row-wise survival and average growth thrice a year - Number of plants planted and Number surviving (to be undertaken during June, Oct. and Jan.) and entered in Plantation Journal. Minimum stocking of 90% and average minimum height of 2.5 m		(plantation-i	e by the staff n-charge) with of Plantation atcher		
*	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. (7500 /10 Ha = 750 per Ha)	Month	12	750.00	1	9000

or 32730.00

UNIT RATE

32730.00 As per FSR 2016-17

37639.50 As per FSR 2017-18 (15% Escalation charges added)

43285.43 As per FSR 2018-19 (15% Escalation charges added)

49778.24 As per FSR 2019-20 (15% Escalation charges added)

OR 49778 Per Ha.

# UNIT COST FOR 2nd YEAR MAINTENANCE OF C.A. PLANTATION FOR 2020-21 UNDER SEMI MECHNIACAL METHOD- (3m X 2m espacement)

SI	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
1	2	3	4	5	6	7	8
	02.11.	2 <sup>ND</sup> YEAR MAINTAINANCE					
	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) ( 1x1666= 1666)	Nos.	1666	545.08	100	9081
	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)	Nos.	1666	103.19	100	1719
	02.11.03	Enumeration of row-wise survival and average growth thrice a year - Number of plants planted and Number surviving (to be undertaken during June, Oct. and Jan.) and entered in Plantation Journal.  Minimum stocking of 90% and average minimum height of 3 m at		e by the sta rge) with th antation Wa		1	
	Cost of Protection: One Watcher is allowed for 10-3 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approva 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.		Month	12	750.00	1	9000
							19800
1				1000		19800.00	per Ha

#### UNIT RATE:

19800.00 As per FSR 2016-17

22770.00 As per FSR 2017-18 (15% Escalation charges added)
26185.50 As per FSR 2018-19 (15% Escalation charges added)
30113.33 As per FSR 2019-20 (15% Escalation charges added)
34630.33 As per FSR 2020-21 (15% Escalation charges added)

OR 34630 Per Ha.

# UNIT COST FOR 3rd YEAR MAINTENANCE OF C.A. PLANTATION FOR 2021-22 UNDER SEMI MECHNIACAL METHOD- (3m X 2m espacement)

SI	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
1	2	3	4	5	6	7	8
- 1	02.11.			STORES			Bass III
	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) ( 1x1666= 1666)	Nos.	1666	545.08	100	9081
	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)	Nos.	1666	103.19	100	1719
The second secon	02.11.03	Enumeration of row-wise survival and average growth thrice a year - Number of plants planted and Number surviving (to be undertaken during June, Oct. and Jan.) and entered in Plantation Journal.  Minimum stocking of 90% and average minimum height of 3 m at	in-cha	e by the sta rge) with th intation Wa		•	
	02.11.04	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.	Month	12	750.00	1	9000
-		***	USE SEE				.19800
					and the same		A STATE OF THE PARTY OF THE PAR

UNIT RATE:

19800.00 As per FSR 2016-17

22770.00 As per FSR 2017-18 (15% Escalation charges added)

26185.50 As per FSR 2018-19 (15% Escalation charges added) 30113.33 As per FSR 2019-20 (15% Escalation charges added)

34630.32 As per FSR 2020-21 (15% Escalation charges added)

39824.87 As per FSR 2021-22 (15% Escalation charges added)

OR 39825 Per Ha.

Divisional Forest Officer, Kaghaznagar

- 139 -

# UNIT COST FOR 4th YEAR MAINTENANCE OF C.A. PLANTATION FOR 2022-23 UNDER SEMI MECHNICAL METHOD- (3m X 2m espacement)

No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
	2	3,	4	5	6	7	8
	02.11.	THE STATE OF THE S					
	02.11.01	Circular weeding cum Deep soll 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) ( 1x1666= 1666)	Nos.	1666	545.08	100	9081
	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)	Nos.	1666	103.19	100	1719
	02.11.03	Enumeration of row-wise survival and average growth thrice a year - Number of plants planted and Number surviving (to be undertaken during June, Oct. and Jan.) and entered in Plantation Journal.  Minimum stocking of 90% and average minimum height of 3 m at	in-cha	e by the sta rge) with th antation Wa	Harry Control of the		•
	02.11.04	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.	Month	12	750.00	1	9000
							19800
				E STATE OF THE STA	gr.		

UNIT RATE:

19800.00 As per FSR 2016-17
22770.00 As per FSR 2017-18 (15% Escalation charges added)
26185.50 As per FSR 2018-19 (15% Escalation charges added)
30113.33 As per FSR 2019-20 (15% Escalation charges added)
34630.32 As per FSR 2020-21 (15% Escalation charges added)
39824.87 As per FSR 2021-22 (15% Escalation charges added)
45798.60 As per FSR 2022-23(15% Escalation charges added)

OR 45799 Per Ha.

## UNIT COST FOR 5th YEAR MAINTENANCE OF C.A. PLANTATION FOR 2023-24 UNDER SEMI MECHNIACAL METHOD- (3m X 2m espacement)

8I No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
1	2	3	4	5	6	7	8
	02.11.				Territories de		
No. of the last of	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) ( 1x1666= 1666)	Nos.	1666	545.08	100	9081
	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)	Nos.	1666	103.19	100	1719
*	02.11.03	Enumeration of row-wise survival and average growth thrice a year - Number of plants planted and Number surviving (to be undertaken during June, Oct. and Jan.) and entered in Plantation Journal.  Minimum stocking of 90% and average minimum height of 3 m at	in-cha	e by the sta rge) with th antation Wa		,	
and produced in the second	02.11.04	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.	Month	12	750.00	1	9000
					ELECTION OF THE		19800
I					or	19800.00	per Ha

UNIT RATE:

As per FSR 2016-17 19800.00 As per FSR 2017-18 (15% Escalation charges added) 22770.00 As per FSR 2018-19 (15% Escalation charges added) 26185.50 As per FSR 2019-20 (15% Escalation charges added) 30113.33 34630.32 As per FSR 2020-21 (15% Escalation charges added) 39824.87 As per FSR 2021-22 (15% Escalation charges added) 45798.60 As per FSR 2022-23 (15% Escalation charges added) As per FSR 2023-14 (15% Escalation charges added) 52668.39

OR 52668 Per Ha.

# UNIT COST FOR 6th YEAR MAINTENANCE OF C.A. PLANTATION FOR 2024-25 UNDER SEMI MECHNIACAL METHOD- (3m X 2m espacement)

No 1	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amoun
	02.11.	3	4	5	6	7	8
	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) ( 1x1666= 1666)	Nos.	1666	545.08	100	9081
	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)	Nos.	1666	103.19	100	1719
	02.11.03	Enumeration of row-wise survival and average growth thrice a year - Number of plants planted and Number surviving (to be undertaken during June, Oct. and Jan.) and entered in Plantation Journal.  Minimum stocking of 90% and average minimum height of 3 m at	in-cha	e by the sta rge) with th antation Wa			
S. State Sta	02.11.04	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.	Month	12	750.00	1	9000
and the last	and the same of the	A CONTRACTOR OF THE CONTRACTOR	The State of the last of the l	ASSESSED TO SELECTION OF THE PARTY OF THE PA	the state of the s	With the Park of t	40000

UNIT RATE:

19800.00	As per FSR 2016-17
22770.00	As per FSR 2017-18 (15% Escalation charges added)
26185.50	As per FSR 2018-19 (15% Escalation charges added)
30113.33	As per FSR 2019-20 (15% Escalation charges added)
34630.32	As per FSR 2020-21 (15% Escalation charges added)
39824.87	As per FSR 2021-22 (15% Escalation charges added)
45798.60	As per FSR 2022-23 (15% Escalation charges added)
52668.39	As per FSR 2023-24 (15% Escalation charges added)
60568.65	As per FSR 2024-25 (15% Escalation charges added)

OR 60569 Per Ha.

Divisional Forest Officer, Kaghaznagar

19800.00

per Ha

## UNIT COST FOR 7th YEAR MAINTENANCE OF C.A. PLANTATION FOR 2025-26 UNDER SEMI MECHNIACAL METHOD- (3m X 2m espacement)

No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
1	2	ore 3	4	5	6	7	8
	02.11.	Di- I II			A CONTRACTOR		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) ( 1x1666= 1666)	Nos.	1666	545.08	100	9081
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)	Nos.	1666	103.19	. 100	1719
	02.11.03	Enumeration of row-wise survival and average growth thrice a year - Number of plants planted and Number surviving (to be undertaken during June, Oct. and Jan.) and entered in Plantation Journal.  Minimum stocking of 90% and average minimum height of 3 m at	ber of g (to To be done by the staff (plantatio in-charge) with the help of				
	02.11.04	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.	Month	12	750.00	1	9000
-			1000	1.1	- 1		19800
1		10000000000000000000000000000000000000	Tales of		8		13000

UNIT RATE:

19800.00 As per FSR 2016-17 22770.00 As per FSR 2017-18 (15% Escalation charges added) 26185.50 As per FSR 2018-19 (15% Escalation charges added) 30113.33 As per FSR 2019-20 (15% Escalation charges added) 34630.32 As per FSR 2020-21 (15% Escalation charges added) 39824.87 As per FSR 2021-22 (15% Escalation charges added) 45798.60 As per FSR 2022-23 (15% Escalation charges added) 52668.39 As per FSR 2023-24 (15% Escalation charges added) 60568.65 As per FSR 2024-25 (15% Escalation charges added) 69653.95 As per FSR 2025-26 (15% Escalation charges added)

OR 69654 Per Ha.

Divisional Forest Officer, Kaghaznagar

19800.00

per Ha

or .

#### UNIT COST FOR 8 th YEAR MAINTENANCE OF C.A. PLANTATION FOR 2026-27 UNDER SEMI MECHNIACAL METHOD- (3m X 2m espacement)

No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
1	2	3	4	5	6	7	8
	02.11.	Circular weeding cum Deep soil working to a radius of 0.5 m and to a					e o l'age
	02.11.01	depth of 15 cm (to be done by pick-axe only) without damaging the plant. (July-Aug) ( 1x1666= 1666)	Nos.	1666	100	9081	
	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)	Nos.	1666	103.19	100 -	1719
The state of the s	02.11.03	Enumeration of row-wise survival and average growth thrice a year - Number of plants planted and Number surviving (to be undertaken during June, Oct. and Jan.) and entered in Plantation Journal.  Minimum stocking of 90% and average minimum height of 3 m at	in-cha	e by the sta irge) with the antation Wa		1	
	02.11.04	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.	Month	12	750.00	1	9000
120		73					19800
1					or	19800.00	per Ha

UNIT RATE:

19800.00 As per FSR 2016-17 22770.00 As per FSR 2017-18 (15% Escalation charges added) 26185.50 As per FSR 2018-19 (15% Escalation charges added) 30113.33 As per FSR 2019-20 (15% Escalation charges added) 34630.33 As per FSR 2020-21 (15% Escalation charges added) 39824.88 As per FSR 2021-22 (15% Escalation charges added) 45798.61 As per FSR 2022-23 (15% Escalation charges added) 52668.40 As per FSR 2023-24 (15% Escalation charges added) As per FSR 2024-25 (15% Escalation charges added) 60568.66 69653.96 As per FSR 2025-26 (15% Escalation charges added) 80102.05 As per FSR 2026-27 (15% Escalation charges added)

OR 80102 Per Ha.

Divisional Forest Officer, Kaghaznagar

## UNIT COST FOR 9th YEAR MAINTENANCE OF C.A. PLANTATION FOR 2027-28 UNDER SEMI MECHNIACAL METHOD- (3m X 2m espacement)

1	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per ·	Amount
1000	2	3	4	5	6	7	8
	02.11.	Ol- II	HE INC.	AVA SERVICE		The second	
	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) ( 1x1666= 1666)	Nos.	1666	100	9081	
	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)	Nos.	1666	103.19	100	1719
	02.11.03	Enumeration of row-wise survival and average growth thrice a year - Number of plants planted and Number surviving (to be undertaken during June, Oct. and Jan.) and entered in Plantation Journal.  Minimum stocking of 90% and average minimum height of 3 m at	in-cha	e by the sta irge) with th antation Wa			
	02.11.04	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.	Month	12	750.00	1	9000
		70					19800
					8		

UNIT RATE:

19800.00 As per FSR 2016-17 22770.00 As per FSR 2017-18 (15% Escalation charges added) As per FSR 2018-19 (15% Escalation charges added) 26185.50 30113.33 As per FSR 2019-20 (15% Escalation charges added) 34630.33 As per FSR 2020-21 (15% Escalation charges added) 39824.88 As per FSR 2021-22 (15% Escalation charges added) 45798.61 As per FSR 2022-23 (15% Escalation charges added) 52668.40 As per FSR 2023-24 (15% Escalation charges added) As per FSR 2024-25 (15% Escalation charges added) 60568.66 69653.96 As per FSR 2025-26 (15% Escalation charges added) As per FSR 2026-27 (15% Escalation charges added) 80102.05 92117.36 As per FSR 2027-28 (15% Escalation charges added)

OR 92117 Per Ha.

Divisional Forest Officer, Kaghaznagar

445-

### UNIT COST FOR 10 th YEAR MAINTENANCE OF C.A. PLANTATION FOR 2028-29 UNDER SEMI MECHNIACAL METHOD- (3m X 2m espacement)

10	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
1	2	3	4	5	6	7	8
	02.11.				- 4		
	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) (1x1666= 1666)	Nos.	1666	100	9081	
	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)	Nos.	1666	100	1719	
	02.11.03	Enumeration of row-wise survival and average growth thrice a year - Number of plants planted and Number surviving (to be undertaken during June, Oct. and Jan.) and entered in Plantation Journal.  Minimum stocking of 90% and average minimum height of 3 m at	in-cha	ff (plantation- e help of tcher			
Mark the second	Cost of Protection: One Watcher is allowed for 10-31 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.		Month	12	750.00	1	9000
		SA .		1			19800

UNIT RATE:

19800.00 As per FSR 2016-17 As per FSR 2017-18 (15% Escalation charges added) 22770.00 26185.50 As per FSR 2018-19 (15% Escalation charges added) As per FSR 2019-20 (15% Escalation charges added) 30113.33 34630.32 As per FSR 2020-21 (15% Escalation charges added) 39824.87 As per FSR 2021-22 (15% Escalation charges added) 45798.60 As per FSR 2022-23 (15% Escalation charges added) 52668.39 As per FSR 2023-24 (15% Escalation charges added) 60568.65 As per FSR 2024-25 (15% Escalation charges added) As per FSR 2025-26 (15% Escalation charges added) 69653.95 As per FSR 2026-27 (15% Escalation charges added) 80102.04 92117.35 As per FSR 2027-28 (15% Escalation charges added) As per FSR 2028-29 (15% Escalation charges added) 105934.95

OR 105935 Per Ha.

Divisional Forest Officer, Kaghaznagar

19800.00

per Ha

- 146-

#### UNIT COST FOR ADVANCE OPERATIONS FOR CA SCHEME FOR 2017-18 UNDER LI METHOD-(3m X 2m espacement)



).   '			The second second				
	02.01.01	Survey with hand-held GPS (staff to carry out) and demarcation - one manday is allowed for assistance. The surveyed sketch with exact effective area statement will be uploaded in MIS platform latest by December end.	1	311.04	1		311
		Clearing unsalable unwanted jungle growth (leaving all the tree species of good form particularly the hardwood tree species like Teak, Nallamaddi, Yegisa, Narepa, Somi, Jitregi, Billudu, Chenangi etc. and NTFP species like Ippa, Morri, Tani, Karaka, Vepa, Maredu, Tapasi, Tuniki, Chinta, Usuri, Nallajeedi etc.); Spreading the cut material all over the site; and Burning the same twice till completely burnt. All the above operations should be completed before December.					1
2	02.01.03	Very Light Jungle Growth (>10% and upto 20% ground area covered with Jungle growth)	0.50	2598.59	1	На	1299
3	02.01.04	Light Jungle Growth (> 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on the field inspection of DFO.	0.50	5207.65	1	Ha	2604
	02.01.05	Formation of Sector Lines / Fire Lines to a width of 3 m by giving surface treatment (sector to be in conformity with slope direction). All stumps to be cut to ground level. This operation is applicable for plantations other than Semi-Mechanical Plantation.	150.00	5.08	1	Rmt	762
4	02.01.06	Alignment and staking including laying base line for ii) 2X3 m espacement = 1666 planting points	1,666	66.74	100	Nos	1112
5	02.01.09	Cost of preparation of stakes (0.45 m length) and transportation to site	1,666	47.30	100	Nos	788
6	02.01.11	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 caualties.	1,666	18.75	1	Pit	31238
7		Misc expenditure SUB-TOTAL		No.			180 3829

#### UNIT RATE:

38300.00 As per FSR 2016-17

44045.00 As per FSR 2017-18 (15% Escalation charges added)

OR

44045.00 Per Ha.

Divisional Porest Officer, Kaghaznagar

147-

UNIT COST FOR RAISING OF C.A. PLANTATION UNDER LABOUR INTENSIVE METHOD FOR 2018-19 (3m X 2m espacement)

SI No	Item No.	Schedule of operations with Specification	Unit	Qty	(in Rs)	Per	Amount
1	2	3	4	5	6	7	8
	PLANTATIO	N			3 (0) (0)		CHARLES OF STREET
		RAISING OF BLOCK PLANTATIONS					
	02.01.	LABOUR INTENSIVE METHOD (LI METHOD)					
	02.02.	PLANTING OPERATIONS DURING RAISING YEAR					The contract of
True Park		Transportation of Planting Stock (including loading and unloading)					
		From nursery to plantation site - upto 5 Km lead					
4	02.02.02	15 X 30 cm (6"X12") bag plants	No.	1666	96.79	100	1613
		From nursery to plantation site - Beyond 5 Km lead				The state of	To the second
		i) For every extra km beyond 5 km upto 20 km	-				
5	02.02.05	15 X 30 cm (6"X12") bag plants (15 x 3.38=50.70)	No.	1666	50.70	100	- 845
5	02.02.05	Internal transportation to planting points on head loads		1666	BERNESS S		
_	00 00 44	15 X 30 cm (6"X12") bag plants	No.	1666	76.25	100	1270
6	02.02.11	PLANTING: Seedlings of local species of secondary	110.				CONTROL OF
		hardwood along with their associates and NTFP species will					
		have to be chosen for planting. The minimum height of the planting stock to be planted is 0.75 m - 1m height (excluding the height of the bag)		,			
7	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)	No.	1666	32.62	100	543
8	02.02.14	Cost of SSP, Chloridine dust (50 gm) or Chloropyriphos (50 g x 1666 / 1000 /50 =1.666 Bags)	Bag	1.666	500	1	833
		Planting			200 000	400	COEA
9	02.02.16	ii) 45 cm <sup>3</sup>	No.	1666	363.366	100	6054
		Replacement of Casualties	5		The State of the Land		
	02.02.17	casualty replacement should be done in 3 stages at an intervals of 15 days immediately after planting during raising year.  50% of unit rate of original pitting during raising year. Planting, trans					
10		a) Pitting (50% of Original Rate 14.98 x 50% = 9.49)	Each	333	7.49	1	2494
11		b) Transportation of Seedlings- up to 5Kms	No.	333	96.79	100	322
12		- 5 to 20Kms	No.	333	50.70	100	169
		c) Internal transporation	No.	333	76.25	100	254
13			No.	333	363.366	100	1210
14	T ROBERT OF	d) Planting	140.	- 555	000.000		
15	02.02.18	Application of Fertilizers  Cost of DAP @ 25 gm / planting point ( 1666 * 25 /1000/ 50 =	Bag	0.833	1400	1	1166
		Application of fertilizer in August (30 days after planting) by making 3 holes of 10 cm depth with crow bar holes at a					
16	02.02.19	distance of 10 cm away from plant and putting fertilizers and closing. Ensure that the soil is really wet at the time of DAF application	No.	1666	32.62	100	543
- 4		WEEDING & SOIL WORKING		COLUMN S			
17	02.02.20	latter 30 days of planting (i.e. July - Aug)		1666	103.79	100	1729
	02.02.21	b) 2nd circular weeding to a radius of 0.50 m around the plan after 90 days of planting (i.e. Sep - Oct)		1666	103.79	100	1729
		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 plan (to be carried out during Nov - Dec)					
18	02.02.22		No.	1666	363.37	100	6054
		Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the planting rows (to be undertaken during July - August)	S				
	02.02.25	(Adiiabad Circle.)		1	1215.43	1	_ 1215
	02.02.25	High rainfall zone > 800 mm (for Warangal, Khammam	& Ha	1	1215.43	1	121

SI	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
10		The second secon	4	5	6	7	8-
1	2	Pruning of lower branch initials of Timber and NTFP species	No.	1666	103.79	100	1729
	02.02.26	by scicature upto 1/3 rd height during October	NO.	1000	100.70		
	02.02.28	Enumeration of row-wise survival and average growth twice in the raising year - Number of plants planted and Number surviving (to be undertaken during October and March) and entered in Plantation Journal. With so much inputs like nutrition, augmentation o	(plan	be done by tation-in-cle help of P Watch	harge) with ' lantation		0
19	02.02.29	Cost of Protection: One Watcher is allowed for 10-30 flat. 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 with address shall be pasted in respective Plantation Journal. Payment to be made after satisfaction by Plantation-in-charge that fence is in proper condition and entry of grazing animals is stopped and site is not affected with fire. The guiding principle for continuation of the services of a Plantation Watcher is at leas 90% survival at the end of raising year. (July to March) (7500 flat to 10 flat at 150 per Ha)	Mont h	9	750	1	6750
20		Preparation and fixing of plantation board of standered size 6'x3' with iron Angulars, guage 6 mm (Errected on 65 mm x 6 mm x 6 mm for length of 3.00 m) including construction of Constructio		1	'A/A	Table	400
		Doddu				Total	361

38200.00

38200.00 As per FSR 2016-17 43930.00 As per FSR 2017-18 (15% Escalation charges added) 50519.50 As per FSR 2018-19 (15% Escalation charges added)

50520 Per Ha.

UNIT COST FOR 1st YEAR MAINTENANCE OF C.A. PLANTATION FOR 2019-20 UNDER LABOUR INTENSIVE METHOD -(3m X 2m espacement)

I No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	. Per	Amount
i No		3	4	5	6	7	8
1 -	2 02.10	1 <sup>ST</sup> YEAR MAINTAINANCE					
	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. (1666 & 25%)					1
1	02.01.15	= 416 Nos) a) Pitting ( Original Rate 14.98 )	No	416	14.98	1	6232
2	02.02.02	b) Transportation of Seedlings- up to 5Kms	No	416	96.79	100	403
3	02.02.02	- 5 to 20 Kms (15 Km x 3.38)	No	416	50.70	100	211
4	02.02.03	c) Internal transporation	No	416	76.25	100	317
5	The state of the s	d) Planting	No	416	363.366	100	1512
3	02.02.10	WEEDING & SOIL WORKING (To be carried out after replacement of casualties are over)					4700
6	02.03.02	a) 1st Circular weeding to a radius of 0.50 m around the plant during July - Aug	100	1666	103.79	100	-1729
7	02.03.03	b) 2 <sup>nd</sup> Circular weeding to a radius of 0.50 m around the plant during Sept - Oct	100	1666	103.79	100	1729
		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)					
8	02.03.04	n n diamonti	100	1666	363.366	100	6054
		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 -					
9	02.03.07	TACHADAG CIFCIET		1	1215.43	. 1	1215
10	02.03.07	Ladilanad Circles	ha	1	1215.43	1	1215
11	02.10.04	Uprootal of Mahaveera (Hyptis suaveolens) weed with prior written approval of Circle Head and taking photograph before and after uprootal. The weed removal shall be completed before August-end (before flowering at any cost before inter-ploughing.	Ha	1	3032.48	1	3032
11	02.02.09	Pruning of lower branch initials of Timber and NTFP	100 Nos	1666	103.194	100	1719
12	02.03.09	Enumeration of row-wise survival and average growth thrice in I  Maintainance year - Number of plants planted and number surviving  (to be undertaken during lune Oct and Jan.) to be ascertained and	charg	ione by the st e) with the he Watch	aff (plantation-in- elp of Plantation her		
1	02.03.1	entered in Plantation Journal. With so much inputs lik  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 Phot of Watchers with address 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 and site is not affected with fire. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival during 1st year maintainance period 7500/10 Ha = 750 per Ha)	Monti	12	750	1	9000

UNIT RATE:

34400.00 As per FSR 2016-17

39560.00 As per FSR 2017-18 (15% Escalation charges added)
45494.00 As per FSR 2018-19 (15% Escalation charges added)
52318.10 As per FSR 2019-20 (15% Escalation charges added)

OR 52318

34400.00 per Ha

UNIT COST FOR 2nd YEAR MAINTENANCE OF C.A. PLANTATION FOR 2020-21 UNDER LABOUR INTENSIVE METHOD -(3m X 2m espacement)

Î	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
0	2	3	4	5	6	. 7	8
3	02.04.	SECOND YEAR MAINTAINANCE				100	nia Para
4	02.04.	WEEDING & SOIL WORKING					
1	02.04.01	a) 1 st circular weeding to a radius of 0.50 m around the plant during July - Aug.	No	1666	103.79	100	1729
1	02.04.02	b) 2 <sup>nd</sup> circular weeding to a radius of 0.50 m around the plant during Sept Oct.	No	1666	103.79	100	1729
		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 during Nov Dec.			260.05	400	6054
	02.04.03	i) For ordinary soil	No	1666	363.37	100	0054
		Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the planting rows (to be undertaken during July - August)					
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	На	1	1215.43	. 1	1215
1000	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	На	1	1215.43	1.	1215
70000	02.04.07	Enumeration of row-wise survival and average growth thrice in 2 <sup>nd</sup> Maintainance year - Number of plants planted and Number surviving (to be undertaken during June, Oct. and Jan.) and entered in Plantation Journal. With so much inputs like nutrition, augmentation of moisture status by SCTs and other cultural operations; deploying indegenous forest species and planting of seedlings of minimum height of 0.75 - 1.0 m, it is prescribed that the minimum stocking of 90% with average minimum height of 2.5 - 3 m at the end of 1st year maintainance.	(plantati	e done by on-in-char f Plantation	ge) with the	1	
	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 with address shall be pasted in respective Plantation Journal. Every month payment will be made after satisfaction by Plantation-in-charge that fence is in proper condition and incidence of grazing and fire is not there. The guiding principle of charging the Plantation Watcher in 2nd year is at least 80% stocking during 2nd year of maintainance	Month	12	750	1	9000
	000000	period.				Total	2094

UNIT RATE:

21000.00 As per FSR 2016-17

As per FSR 2017-18 (15% Escalation charges added) 24150.00 As per FSR 2018-19 (15% Escalation charges added) As per FSR 2019-20 (15% Escalation charges added) As per FSR 2020-21 (15% Escalation charges added) 27772.50

31938.38 36729.14

Per Ha. OR 36729

## UNIT COST FOR 3rd YEAR MAINTENANCE OF C.A. PLANTATION FOR 2021-22 UNDER LABOUR INTENSIVE METHOD (3m X 2m espacement)

Î	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)		Amount
-			4	5	6	7	8
+	2 02 04	A STATE OF THE STA					
+	02.04.	WEEDING & SOIL WORKING	2				ESCAPE.
+		a) 1 <sup>st</sup> circular weeding to a radius of 0.50 m around the plant during July - Aug.	No	1666	103.79	100	1729
1	02.04.02	b) 2 <sup>nd</sup> circular weeding to a radius of 0.50 m	No	1666	103.79	100	1729
-		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 during Nov Dec.				100	6054
+	02.04.03	i) For ordinary soil	No	1666	363.37	100	6054
		Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the planting rows (to be undertaken during July - August)					
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	На	1	1215.43	1	1215
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	На	1	1215.43	. 1	1215
The state of the s	02.04.07	Enumeration of row-wise survival and average growth thrice in 2 <sup>nd</sup> Maintainance year - Number of plants planted and Number surviving (to be undertaken during June, Oct. and Jan.) and entered in Plantation Journal. With so much inputs like nutrition, augmentation of moisture status by SCTs and other cultural operations; deploying indegenous forest species and planting of seedlings of minimum height of 0.75 - 1.0 m, it is prescribed that the minimum stocking of 90% with average minimum height of 2.5 3 m at the end of 1st year maintainance.	(planta	pe done by tion-in-char of Plantation	ge) with the		
	02.04.08	Plantation-in-charge that fence is in proper condition and incidence of grazing and fire is not there. The guiding principle of charging the Plantation Watcher in 2nd year is at least 80% stocking during 2nd year of maintainance	Month	12	750	1	9000
300	2 - 2	period.	W. C.	The state of the s		Total	2094

#### UNIT RATE:

21000.00 As per FSR 2016-17
24150.00 As per FSR 2017-18 (15% Escalation charges added)
27772.50 As per FSR 2018-19 (15% Escalation charges added)
31938.38 As per FSR 2019-20 (15% Escalation charges added)
36729.13 As per FSR 2020-21 (15% Escalation charges added)
42238.50 As per FSR 2021-22 (15% Escalation charges added)

OR 42239 Per Ha.

UNIT COST FOR 4th YEAR MAINTENANCE OF C.A. PLANTATION FOR 2022-23 UNDER LABOUR INTENSIVE METHOD

(3m X 2m espacement)

		us Occasification	Unit	Qty	Rate (in Rs)	Per .	Amount
1	Item No.	Schedule of operations with Specification	4	5	6	7	8
+	2	3	1/100			123	
t	02.04						7
+		WEEDING & SOIL WORKING					4700
1		a) 1 <sup>st</sup> circular weeding to a radius of 0.50 m around the plant during July - Aug.	No	1666	103.79	100	1729
1	and the second	b) 2 <sup>nd</sup> circular weeding to a radius of 0.50 m	No	1666	103.79	100	1729
The state of the s		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 during Nov Dec.		1666	363.37	100	6054
-	02.04.03	D For sedingry soil	No	1000	303.37	100	
The Particular of	02.04.03	Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the planting rows (to be undertaken during July - August)					1015
	02.04.06	High rainfall zone > 800 mm (for Warangal,	На	1	1215.43	1	1215
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	На	1	1215.43	1	1215
	02.04.07	Enumeration of row-wise survival and average growth thrice in 2 <sup>nd</sup> Maintainance year - Number of plants planted and Number surviving (to be undertaken during June, Oct. and Jan.) and entered in Plantation Journal.  With so much inputs like nutrition, augmentation of moisture status by SCTs	(planta help	be done by ation-in-cha of Plantatio	the staff rge) with the on Watcher		
	02.04.0	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 with address shall be pasted in respective Plantation Journal.	Mont	h 12	750	1	- 900
		period.			100	Tota	1 209
-		period.					

#### UNIT RATE:

21000.00 As per FSR 2016-17
24150.00 As per FSR 2017-18 (15% Escalation charges added)
27772.50 As per FSR 2018-19 (15% Escalation charges added)
31938.38 As per FSR 2019-20 (15% Escalation charges added)
36729.13 As per FSR 2020-21 (15% Escalation charges added)
42238.50 As per FSR 2021-22 (15% Escalation charges added)
48574.28 As per FSR 2022-23 (15% Escalation charges added)

OR 48574 Per Ha.

UNIT COST FOR 5 th YEAR MAINTENANCE OF C.A. PLANTATION FOR 2023-24 UNDER LABOUR INTENSIVE METHOD

(3m X 2m espacement)

lo	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
ř	2	3	4	5	6	7.	8
1	02.04.						,
1		WEEDING & SOIL WORKING					
	02.04.01	a) 1 <sup>st</sup> circular weeding to a radius of 0.50 m around the plant during July - Aug.	No	1666	103.79	100	1729
	02.04.02	b) 2 <sup>nd</sup> circular weeding to a radius of 0.50 m around the plant during Sept Oct.	No	1666	103.79	100	. 1729
Parkly or		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 during Nov Dec.					
-	02.04.03	i) For ordinary soil	No	1666	363.37	100	6054
State of the state		Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the planting rows (to be undertaken during July - August)			*	•	
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	На	1	1215.43	1	1215
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	На	1	1215.43	1	1215
DE KALE.	02.04.07	Enumeration of row-wise survival and average growth thrice in 2 <sup>nd</sup> Maintainance year - Number of plants planted and Number surviving (to be undertaken during June, Oct. and Jan.) and entered in Plantation Journal. With so much inputs like nutrition, augmentation of moisture status by SCTs and other cultural operations; deploying indegenous forest species and planting of seedlings of minimum height of 0.75 - 1.0 m, it is prescribed that the minimum stocking of 90% with average minimum height of 2.5 - 3 m at the end of 1st year maintainance.	(plantation	e done by t on-in-charg Plantation	ge) with the		•
Manufacture of the last		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 with address shall be pasted in respective Plantation Journal.				*	
	02.04.08	Every month payment will be made after satisfaction by Plantation-in-charge that fence is in proper condition and incidence of grazing and fire is not there. The guiding principle of charging the Plantation Watcher in 2nd year is at least 80% stocking during 2nd year of maintainance	Month	12	750	1	9000
101	1	period.	-	-		Total	2094

#### UNIT RATE:

55860

Per Ha.

OR

21000.00	As per FSR 2016-17
24150.00	As per FSR 2017-18 (15% Escalation charges added)
27772.50	As per FSR 2018-19 (15% Escalation charges added)
31938.38	As per FSR 2019-20 (15% Escalation charges added)
36729.13	As per FSR 2020-21 (15% Escalation charges added)
42238.50	As per FSR 2021-22 (15% Escalation charges added)
48574.28	As per FSR 2022-23 (15% Escalation charges added)
55860.42	As per FSR 2023-24 (15% Escalation charges added)
	As per FSR 2023-24 (15% Escalation charge

UNIT COST FOR 6 th YEAR MAINTENANCE OF C.A. PLANTATION FOR 2024-25 UNDER LABOUR INTENSIVE METHOD

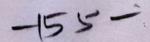
-(3m X 2m espacement)

0	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
ĭ	2	3	4	5	6	7	8
	02.04.				7		
1		WEEDING & SOIL WORKING			A STATE OF		
	02.04.01	a) 1 <sup>st</sup> circular weeding to a radius of 0.50 m around the plant during July - Aug.	No	1666	103.79	100	, 1729
	02.04.02	b) 2 <sup>nd</sup> circular weeding to a radius of 0.50 m around the plant during Sept Oct.	No	1666	103.79	100	1729
		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 during Nov Dec.					•
	02.04.03	i) For ordinary soil	No	1666	363.37	100	6054
Statement of the last		Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the planting rows (to be undertaken during July - August)		* *	*	1	
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	На	1	1215.43	1	1215
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	На	1	1215.43	1	1215
	02.04.07	Enumeration of row-wise survival and average growth thrice in 2 <sup>nd</sup> Maintainance year - Number of plants planted and Number surviving (to be undertaken during June, Oct. and Jan.) and entered in Plantation Journal. With so much inputs like nutrition, augmentation of moisture status by SCTs and other cultural operations; deploying indegenous forest species and planting of seedlings of minimum height of 0.75 - 1.0 m, it is prescribed that the minimum stocking of 90% with average minimum height of 2.5 - 3 m at the end of 1st year maintainance.	(plantati	e done by t on-in-charg f Plantation	ge) with the		
The state of the s	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 with address shall be pasted in respective Plantation Journal. Every month payment will be made after satisfaction by Plantation-in-charge that fence is in proper condition and incidence of grazing and fire is not there. The guiding principle of charging the Plantation Watcher in 2nd year is at least 80% stocking during 2nd year of maintainance	Month	12	750	1	9000
		period.		No. of the last of	THE REAL PROPERTY.	Total	2094

UNIT RATE:

As per FSR 2016-17 21000.00 As per FSR 2017-18 (15% Escalation charges added) 24150.00 As per FSR 2018-19 (15% Escalation charges added) 27772.50 As per FSR 2019-20 (15% Escalation charges added) 31938.38 As per FSR 2020-21 (15% Escalation charges added) 36729.13 As per FSR 2021-22 (15% Escalation charges added) 42238.50 As per FSR 2022-23 (15% Escalation charges added) As per FSR 2023-24 (15% Escalation charges added) As per FSR 2024-25 (15% Escalation charges added) 48574.28 55860.42 64239.48

OR 64239 Per Ha.



UNIT COST FOR 7 th YEAR MAINTENANCE OF C.A. PLANTATION FOR 2025-26 UNDER LABOUR INTENSIVE METHOD

-{3m X 2m espacement}

Ť	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
+	2	3	4	6	6	7	8
1	02.04.						
	02.011	WEEDING & SOIL WORKING					
	02.04.01	a) 1 <sup>st</sup> circular weeding to a radius of 0.50 m around the plant during July - Aug.	No	1666	103.79	100	1729
1	02.04.02	b) 2 <sup>nd</sup> circular weeding to a radius of 0.50 m around the plant during Sept Oct.	No	1666	103.79	.100	1729
1		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 during Nov Dec.					
t	02.04.03	i) For ordinary soil	. No	1666	363.37	100	6054
一年を日本は は一日の		Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the planting rows (to be undertaken during July - August)					
での	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	На	1	1215.43	1 1	1215
の方の方の	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	На	1	1215.43	1	1215
With the second	02.04.07	Enumeration of row-wise survival and average growth thrice in 2 <sup>nd</sup> Maintainance year - Number of plants planted and Number surviving (to be undertaken during June, Oct. and Jan.) and entered in Plantation Journal. With so much inputs like nutrition, augmentation of moisture status by SCTs and other cultural operations; deploying indegenous forest species and planting of seedlings of minimum height of 0.75 - 1.0 m, it is prescribed that the minimum stocking of 90% with average minimum height of 2.5 - 3 m at the end of 1st year maintainance.	To be done by the staff  (plantation-in-charge) with the help of Plantation Watcher			•	y
The second secon	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 with address shall be pasted in respective Plantation Journal. Every month payment will be made after satisfaction by Plantation-in-charge that fence is in proper condition and incidence of grazing and fire is not there. The guiding principle of charging the Plantation Watcher in 2nd year is at least 80% stocking during 2nd year of maintainance	Month	12	750	1	9000
		period.			1000		200
		AND DESCRIPTION OF THE PARTY OF				Total	2094

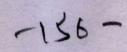
#### UNIT RATE:

	21000.00	As per FSR 2016-17
	24150.00	As per FSR 2017-18 (15% Escalation charges added)
	27772.50	As per FSR 2018-19 (15% Escalation charges added)
	31938.38	As per FSR 2019-20 (15% Escalation charges added)
	36729.13	As per FSR 2020-21 (15% Escalation charges added)
	42238.50	As per FSR 2021-22 (15% Escalation charges added)
	48574.28	As per FSR 2022-23 (15% Escalation charges added)
	55860.42	As per FSR 2023-24 (15% Escalation charges added)
ì	64239.48	As per FSR 2024-25 (15% Escalation charges added)
	A STATE OF THE PARTY OF THE PAR	As per FSR 2025-26 (15% Escalation charges added)
į.	73875.40	As per ran 2020-20 (10% Escalation charges and a

OR 73875 Per Ha.

Divisional Forest Officer, Kaghaznagar

21000.00 per Ha



## UNIT COST FOR 8 th YEAR MAINTENANCE OF C.A. PLANTATION FOR 2026-27 UNDER LABOUR INTENSIVE METHOD (3m X 2m espacement)

1	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
9	2	3	4	6	6	7.	8
	02.04.	THE PROPERTY COMMENTS OF THE PERSON OF THE P					
+	02.04.	WEEDING & SOIL WORKING					-
-	02.04.01	a) 1 <sup>st</sup> circular weeding to a radius of 0.50 m around the plant during July - Aug.	No	1666	103.79	100	1729
	02.04.02	b) 2 <sup>nd</sup> circular weeding to a radius of 0.50 m around the plant during Sept Oct.	No	1666	103.79	100	1729
1		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 during Nov Dec.					•
1	02.04.03	i) For ordinary soil	No	1666	363.37	100	6054
State of the second		Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the planting rows (to be undertaken during July - August)					•
A 4000000000000000000000000000000000000	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	На	1	1215.43	1 ·	1215
Total Control	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	На	1	1215.43	1 1	1215
Contract Con	02.04.07	Enumeration of row-wise survival and average growth thrice in 2 <sup>nd</sup> Maintainance year - Number of plants planted and Number surviving (to be undertaken during June, Oct. and Jan.) and entered in Plantation Journal. With so much inputs like nutrition, augmentation of moisture status by SCTs and other cultural operations, deploying indegenous forest species and planting of seedlings of minimum height of 0.75 - 1.0 m, it is prescribed that the minimum stocking of 90% with average minimum height of 2.5 3 m at the end of 1st year maintainance.	(plantat	e done by ion-in-char f Plantation	ge) with the		
	02.04.08	Plantation-in-charge that fence is in proper condition and incidence of grazing and fire is not there. The guiding principle of charging the Plantation Watcher in 2nd year is at least 80% stocking during 2nd year of maintainance	Month	12	750	1	900
	2	period.				Total	2094

#### UNIT RATE:

	21000.00	As per FSR 2016-17
	24150.00	As per FSR 2017-18 (15% Escalation charges added)
	27772.50	As per FSR 2018-19 (15% Escalation charges added)
	31938.38	As per FSR 2019-20 (15% Escalation charges added)
	36729.13	As per FSR 2020-21 (15% Escalation charges added)
	42238.50	As per FSR 2021-22 (15% Escalation charges added)
		As per FSR 2022-23 (15% Escalation charges added)
	48574.28	As per FSR 2023-24 (15% Escalation charges added)
	55860.42	As per FSR 2023-24 (15% Escalation charges added)
	64239.48	As per FSR 2024-25 (15% Escalation charges added)
	73875.40	As per FSR 2025-26 (15% Escalation charges added)
1	84956.71	As per FSR 2026-27 (15% Escalation charges added)
1		
2/5		

157

UNIT COST FOR 9 th YEAR MAINTENANCE OF C.A. PLANTATION FOR 2027-28 UNDER LABOUR INTENSIVE METHOD
(3m X 2m espacement)

0	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
1	2	3	4	5	6	. 7	8
3	02.04.				E CONTRACTOR		
		WEEDING & SOIL WORKING					
1	02.04.01	a) 1 <sup>st</sup> circular weeding to a radius of 0.50 m around the plant during July - Aug.	No	1666	103.79	100	1729
	02.04.02	b) 2 <sup>nd</sup> circular weeding to a radius of 0.50 m around the plant during Sept Oct.	No	1666	103.79	100	1729
		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 during Nov Dec.					
	02.04.03	i) For ordinary soil	No	1666	363.37	100	6054
		Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the planting rows (to be undertaken during July - August)					
Salar Salar	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	На	1	1215.43	. 1	1215
or Hosel	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	На	1	1215.43	1.	1215
The second second second second	02.04.07	Enumeration of row-wise survival and average growth thrice in 2 <sup>nd</sup> Maintainance year - Number of plants planted and Number surviving (to be undertaken during June, Oct. and Jan.) and entered in Plantation Journal. With so much inputs like nutrition, augmentation of moisture status by SCTs and other cultural operations; deploying indegenous forest species and planting of seedlings of minimum height of 0.75 - 1.0 m, it is prescribed that the minimum stocking of 90% with average minimum height of 2.5 - 3 m at the end of 1st year maintainance.	urvival and average growth thrice in 2 <sup>nd</sup> or of plants planted and Number surviving (to be and Jan.) and entered in Plantation Journal. To be done by the staff (plantation-in-charge) with the deploying indegenous forest species and mum height of 0.75 - 1.0 m, it is prescribed of 90% with average minimum height of 2.5				
	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 with address shall be pasted in respective Plantation Journal. Every month payment will be made after satisfaction by Plantation-in-charge that fence is in proper condition and incidence of grazing and fire is not there. The guiding principle of charging the Plantation Watcher in 2nd year is at least 80% stocking during 2nd year of maintainance period.	Month	12	750	1	9000
-	- 1/		The same			Total	2094

UNIT RATE:

As per FSR 2016-17 21000.00 As per FSR 2017-18 (15% Escalation charges added) 24150.00 27772.50 As per FSR 2018-19 (15% Escalation charges added) As per FSR 2019-20 (15% Escalation charges added) 31938.38 As per FSR 2020-21 (15% Escalation charges added) 36729.13 As per FSR 2021-22 (15% Escalation charges added) 42238.50 As per FSR 2022-23 (15% Escalation charges added) 48574.28 As per FSR 2023-24 (15% Escalation charges added) 55860.42 As per FSR 2024-25 (15% Escalation charges added) 64239.48 As per FSR 2025-26 (15% Escalation charges added) 73875.40 As per FSR 2026-27 (15% Escalation charges added) 84956.71 As per FSR 2027-28 (15% Escalation charges added) 97700.22

OR 97700 Per Ha.

-158-

Divisional Forest Officer, Kaghaznagar

21000.00 per Ha

UNIT COST FOR 10 th YEAR MAINTENANCE OF C.A. PLANTATION FOR 2028-29 UNDER LABOUR INTENSIVE METHOD

(3m X 2m espacement)

	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
1	2	3	4	- 5	6	7	8
T	02.04.	A STATE OF THE STA					
t	021011	WEEDING & SOIL WORKING				The same	
	02.04.01	a) 1 <sup>st</sup> circular weeding to a radius of 0.50 m around the plant during July - Aug.	No	1666	103.79	100	1729
	02.04.02	b) 2 <sup>nd</sup> circular weeding to a radius of 0.50 m around the plant during Sept Oct.	No	1666	103.79	100	1729
The state of the s		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 during Nov Dec.					
t	02.04.03	i) For ordinary soil	No	1666	363.37	100	6054
		Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the planting rows (to be undertaken during July - August)					
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	На	1_	1215.43	1	1215
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	Ha	1	1215.43	1	1215
SAGON SELVED SERVICE SERVICE SERVICES	02.04.07	Enumeration of row-wise survival and average growth thrice in 2 <sup>nd</sup> Maintainance year - Number of plants planted and Number surviving (to be undertaken during June, Oct. and Jan.) and entered in Plantation Journal. With so much inputs like nutrition, augmentation of moisture status by SCTs and other cultural operations, deploying indegenous forest species and planting of seedlings of minimum height of 0.75 - 1.0 m, it is prescribed that the minimum stocking of 90% with average minimum height of 2.5 3 m at the end of 1st year maintainance.	(plantati	e done by to on-in-charg f Plantation	e) with the	1	
	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 with address shall be pasted in respective Plantation Journal. Every month payment will be made after satisfaction by Plantation-in-charge that fence is in proper condition and incidence of grazing and fire is not there. The guiding principle of charging the Plantation Watcher in 2nd year is at least 80% stocking during 2nd year of maintainance period.	Month	12	750	1	900
1	A CAMPAGE AND A STATE OF	period.		N COLUMN		Total	2094

#### UNIT RATE:

As per FSR 2016-17 21000.00 As per FSR 2017-18 (15% Escalation charges added) 24150.00 As per FSR 2018-19 (15% Escalation charges added) 27772.50 As per FSR 2019-20 (15% Escalation charges added) 31938.38 As per FSR 2020-21 (15% Escalation charges added) 36729.13 As per FSR 2021-22 (15% Escalation charges added) 42238.50 As per FSR 2022-23 (15% Escalation charges added) 48574.28 As per FSR 2023-24 (15% Escalation charges added) 55860.42 As per FSR 2024-25 (15% Escalation charges added) 64239.48 As per FSR 2025-26 (15% Escalation charges added) 73875.40 As per FSR 2026-27 (15% Escalation charges added) 84956.71 As per FSR 2027-28 (15% Escalation charges added) 97700.22 As per FSR 2028-29 (15% Escalation charges added) 112355.25

OR 112355 Per Ha.

-159-

## UNIT COST FOR ADVANCE OPERATIONS FOR CA SCHEME FOR 2017-18 UNDER ANR METHOD-, (400 plants per Ha)

SI. No.	FSR item No	Nature of work	Qty	Rate	U	nit	Amount
1	02.01.01	Survey with hand-held GPS (staff to carry out) and demarcation - one manday is allowed for assistance. The surveyed sketch with exact effective area statement will be uploaded in MIS platform latest by December end.	1	311.04	1	Plantati on	311
		Clearing unsalable unwanted jungle growth (leaving all the tree species of good form particularly the hardwood tree species like Teak, Nallamaddi, Yegisa, Narepa, Somi, Jitregi, Billudu, Chenangi etc. and NTFP species like Ippa, Morri, Tani, Karaka, Vepa, Maredu, Tapasi, Tuniki, Chinta, Usuri, Nallajeedi etc.); Spreading the cut material all over the site; and Burning the same twice till completely burnt. All the above operations should be completed before December.					•
2	02.01.03	Very Light Jungle Growth (>10% and upto 20% ground area covered with Jungle growth)	. 0.50	2598.59	1	На	1,299
3	02.01.04	Light Jungle Growth (> 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on the field inspection of DFO.	0.50	5207.65	1	На	2604
4	02.01.05	Formation of Sector Lines / Fire Lines to a width of 3 m by giving surface treatment (sector to be in conformity with slope direction ). All stumps to be cut to ground level. This operation is applicable for plantations other than Semi-Mechanical Plantat	150.00	5.08	1	Rmt	762
5	02.01.08	Alignment and staking including laying base line for ii) 5X5 m espacement = 400planting points	400	98.77	100	Nos	,395
6	02.01.09	Cost of preparation of stakes (0.45 m length) and transportation to site	400	47.30	100	Nos	189
7	02.01.11	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 caualties.	400	18.75	, 1	Pit	7500
8		Misc expenditure				No.	202
		SUB-TOTAL SUB-TOTAL	WAS BOW				13262

#### UNIT RATE:

13300.00 As per FSR 2016-17

15295.00 As per FSR 2017-18 (15% Escalation charges added)

OR

15295.00 Per Ha.

## UNIT COST FOR RAISING OF C.A. PLANTATION FOR 2018-19 UNDER ANR METHOD (LI) (400 plants per Ha)

0	Item No.	Schedule of operations with Specification	Init	Qty	Rate (in Rs)	Per	Amount
+	2	3	4	5	6	7	8
+	PLANTATION	The second secon					
ť	11 1	PAISING OF BLOCK PLANTATIONS					
+	02.04	ABOUR INTENSIVE METHOD (LI METHOD)	To the second				
+	02.02	DI ANTING OPERATIONS DURING RAISING YEAR	0.00				
		Transportation of Planting Stock (including loading and					
		unloading)			The state of the s		
36	- 10 Te	From nursery to plantation site - upto 5 Km lead		-		400	207
3%	02.02.02	15 X 30 cm (6"X12") bag plants	No.	400	96.79	100	387
2/8	02.02.02	From nursery to plantation site - Beyond 5 Km lead					1
-		i) For every extra km beyond 5 km upto 20 km		The state of the	, 1		1
-	*****	15 X 30 cm (6"X12") bag plants (15 x 3.38=50.70)	No.	400	50.70	100	203
	02.02.05	Internal transportation to planting points on head loads		400		William !	TO BE A S
		Internal transportation to planting points of risks to the	No.	400	76.25	100	305
3	02.02.11	15 X 30 cm (6"X12") bag plants  PLANTING: Seedlings of local species of secondary				THE STATE OF	
		hardwood along with their associates and NTFP species will			The State of		
		hardwood along with their associates and NTT species the					1
		have to be chosen for planting. The minimum height of the	4				
		planting stock to be planted is 0.75 m - 1m height (excluding	95	- N. S. L.	The state of the s		
	CONTRACT CONTRACT	the height of the bag)	-			100	
		Application of 50 gm of SSP per pit (1 day before planting)	- 100	THE PLANT	THE REAL PROPERTY.		
		for root growth and early establishment of plant after planting.	Na	400	32.62	100	130
7	02.02.13	cimilarly the had plants to be planted are to be dipped inside	No.	400	32.02	100	
		Chloropyriphos solution (5 ml of Chloropyriphos in 1 lit water)	-		A STATE OF THE STA		A Contract of
		Cost of SSP, Chloridine dust (50 gm) or Chloropyriphos (50 g	Bag	0.40	500	. 1	200
8	02.02.14	x 400 / 1000 /50 =0.40 Bags)	-				
- 120		Planting			5	100	1450
9	02.02.16	ii) 45 cm <sup>3</sup>	No.	400	363.366	100	1453
9	02.02.10	Replacement of Casualties		laur .	Linear Street		
		Replacement of Casualties: 20% during Raising Year . The			Control of the		
		casualty replacement should be done in 3 stages at an					
		intervals of 15 days immediately after planting during raising					
	02.02.17	year. 50% of unit rate of original pitting during raising year.					
		year. 50% of unit rate of original pitting during rations year.				L. Commercial Commerci	
	a set	Planting, trans a) Pitting (50% of Original Rate 14.98 x 50% = 7.49)	Each	80	7.49	1	599
10		a) Pitting (50% of Original Rate 14.96 x 50% = 1.45)	No.	80	96.79	100	77
11	DESIGN TO	b) Transportation of Seedlings- up to 5Kms - 5 to 20Kms	No.	80	50.70	100	41
12			No.	80	76.25	100	61
13		c) Internal transporation		80	363.366	- 100	291
14		d) Planting	No.	00	303.300	100	
		Application of Fertilizers		-			2000
		Cost of DAP @ 25 gm / planting point ( 400 * 25 /1000/ 50 =	Bag	0.200	1400	1	280
15	02.02.18	0.200)	The latest				
		Application of fertilizer in August (30 days after planting) by		100000			
		making 3 holes of 10 cm depth with crow bar holes at a				400	- 400
16	02.02.19	distance of 10 cm away from plant and putting fertilizers and	No.	400	32.62	100	130
	02.02	closing. Ensure that the soil is really wet at the time of DAP					
		application					
		WEEDING & SOIL WORKING					
	33	a) 1st circular weeding to a radius of 0.50 m around the plant		400	400 70	100	415
17	02.02.20	a) 1" circular weeding to a radius of 0.50 III around the plant	No.	. 400	103.79	100	415
Uis		Tamer 30 days of Diaming H.C. July - Aug/	+			400	445
	02.02.21	b) 2nd circular weeding to a radius of 0.50 m around the plant	No.	400	103.79	100	415
	02.02.21		-				
		c) Deep soil working to a radius of 0.5 m and to a depth of 10	1				
		cm (to be done by pick-axe only) without damaging the plan	q				and the same
		(to be carried out during Nov - Dec)		100	200.07	100	1453
			I No	400	363.37	100	1453
15	02.02.22		No.				The second secon
18	02.02.22	i) For ordinary soil	1		- 20.0		
18	3 02.02.22	(i) For ordinary soil  Cutting of coppice growth flush to the ground to reduce the	9				
18	3 02.02.22	Cutting of coppice growth flush to the ground to reduce the	e s	4			
18	3 02.02.22	Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the	e s	4			
18	3 02.02.22	Cutting of coppice growth flush to the ground to reduce the	e s				
18	3 02.02.22	Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the planting rows (to be undertaken during July - August)	8		101510		1241
18		Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the planting rows (to be undertaken during July - August)  High rainfall zone > 800 mm (for Warangal, Khammam &	e s e		1215.43	1	121
18	02.02.22	Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the planting rows (to be undertaken during July - August)  High rainfall zone > 800 mm (for Warangal, Khammam &	s e & Ha	1	1215.43 1215.43		1215

SI	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
4	^ 2	3 3 4 1 4 1 1 3	4	5	6	7	8
	02.02.26	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height during October	No.	400	103.79	100	415
	02.02.28	Enumeration of row-wise survival and average growth twice in the raising year - Number of plants planted and Number surviving (to be undertaken during October and March) and entered in Plantation Journal. With so much inputs like nutrition, augmentation o	(plan the				0
19	02.02.29	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 with address shall be pasted in respective Plantation Journal. Payment to be made after satisfaction by Plantation-in-charge that fence is in proper condition and entry of grazing animals is stopped and site is not affected with fire. The guiding principle for continuation of the services of a Plantation Watcher is at least 90% survival at the end of raising year. (July to March) (7500, 10 Ha = 750 per Ha)	Mont h	9	750	1	6750
20	200 May	Preparation and fixing of plantation board of standered size 6'x3' with iron Angulars, guage 6 mm (Errected on 65 mm x 65 mm x 6 mm for length of 3.00 m) including construction of CC Boddu		1	A/A		365
				1-10-11-01		Total	16400

16400.00

16400.00

As per FSR 2016-17
As per FSR 2017-18 (15% Escalation charges added)
As per FSR 2018-19 (15% Escalation charges added) 21689.00

21689 Per Ha.

UNIT COST FOR 1st YEAR MAINTENANCE OF C.A. PLANTATION FOR 2019-20 UNDER ANR METHOD (LI) , (400 plants per Ha

SINO	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
1	2	A STATE OF THE PARTY OF THE PAR	4	5	6	7	8
P.	02.10.	1 <sup>ST</sup> YEAR MAINTAINANCE					
	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. (400 @ 25% = 100 Nos)	*	14 SEC. 14			•
1	02.01.15	a) Pitting ( Original Rate 14.98 )	No	100	14.98	1	1498
2	02.02.02	b) Transportation of Seedlings- up to 5Kms	No	100	96.79	100	97
3	02.02.05	- 5 to 20 Kms (15 Km x 3.38)	No	100	50.70	100	51
4	02.02.11	c) Internal transporation	No	100	76.25	100	76
5	02.02.16	d) Planting	No	100	363.366	100	363
		WEEDING & SOIL WORKING (To be carried out after replacement of casualties are over)					
6	02.03.02	a) 1st Circular weeding to a radius of 0.50 m around the plant during July - Aug	100	400	103.79	100	415
7	02.03.03	b) 2 <sup>nd</sup> Circular weeding to a radius of 0.50 m around the plant during Sept - Oct	100	400	103.79	100	415
		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)		, ,			
8	02.03.04	i) For ordinary soil	100	400	363.366	100	1453
		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 -			o.		
9	02.03.07	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	ha '	1	1215.43	1	1215
10	02.03.07	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	ha	1	1215.43	1	1215
12	02.03.08	Ispecies by scicature upto 1/3 rd neight auring October.	100 Nos	400	103.194	100	413
	02.03.09	Enumeration of row-wise survival and average growth thrice in 1 <sup>st</sup> Maintainance year - Number of plants planted and number surviving (to be undertaken during June, Oct. and Jan.) to be ascertained and entered in Plantation Journal. With so much inputs lik Cost of Protection: One Watcher is allowed for 10-30 ha. plantation;	10 De di	To be done by the staff (plantation-in- charge) with the help of Plantation Watcher			,
13	02.03.10	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 with address shall be pasted in respective Plantation lowers. Every month payment to be made after satisfaction by	Month	12	750	1	9000

UNIT RATE:

16200.00 As per FSR 2016-17

18630.00 As per FSR 2017-18 (15% Escalation charges added) 21424.50 As per FSR 2018-19 (15% Escalation charges added) 24638.18 As per FSR 2019-20 (15% Escalation charges added)

OR Per Ha. 24638

Divisional Forest Officer, Kaghaznagar,

16200.00

per Ha

UNIT COST FOR 2nd YEAR MAINTENANCE OF C.A. PLANTATION FOR 2020-21 UNDER ANR METHOD (LI) ( 400 plants per Ha)

Ī	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	· Per	Amount
0	2	Construction of the set 3	4	5	6	7	8
4	02.04.	SECOND YEAR MAINTAINANCE					
1	02.04.	WEEDING & SOIL WORKING			TOP OF THE		
	02.04.01	a) 1 <sup>st</sup> circular weeding to a radius of 0.50 m around the plant during July - Aug.	No	400	103.79	100	415
1	02.04.02	b) 2 <sup>nd</sup> circular weeding to a radius of 0.50 m around the plant during Sept Oct.	No	400	103.79	100	415
		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 during Nov Dec.					
	02.04.03	i) For ordinary soil	No	400	363.37	100	1453
ことの日本 自治療をよう		Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the planting rows (to be undertaken during July - August)		£ .			1
古地の日本	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	Ha	1	1215.43	1	1215
Service.	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	На	1	1215.43	1	1215
	02.04.07	Enumeration of row-wise survival and average growth thrice in 2 <sup>nd</sup> Maintainance year - Number of plants planted and Number surviving (to be unitertaken during June, Oct. and Jan.) and entered in Plantation Journal. With so much inputs like nutrition, augmentation of moisture status by SCTs and other cultural operations; deploying indegenous forest species and planting of seedlings of minimum height of 0.75 - 1.0 m, it is prescribed that the minimum stocking of 90% with average minimum height of 2.5 - 3 m at the end of 1st year maintainance.	To be done by the staff (plantation-in-charge) with the help of Plantation Watcher				
	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 with address shall be pasted in respective Plantation Journal. Every month payment will be made after satisfaction by Plantation-in-charge that fence is in proper condition and incidence of grazing and fire is not there. The guiding principle of charging the Plantation Watcher in 2nd year is at least 80% stocking during 2nd year of maintainance period.	Month	12	750	1	9000
10	STATE OF THE PARTY OF	perioa.		100	S ISSUED	Total	1371

UNIT RATE:

13700.00 As per FSR 2016-17

15755.00 As per FSR 2017-18 (15% Escalation charges added)

18118.25 As per FSR 2018-19 (15% Escalation charges added)

20835.99 As per FSR 2019-20 (15% Escalation charges added)

23961.39 As per FSR 2020-21 (15% Escalation charges added)

OR 23961 Per Ha.

Divisional Forest Officer, Kaghaznagar

13700.00 per Ha

UNIT COST FOR 3rd YEAR MAINTENANCE OF C.A. PLANTATION FOR 2021-22 UNDER UNDER ANR METHOD (LI) ( 400 plants per Ha)

T	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount 8
1	2	3	4	5	6	7	
t	02.04.			#1			1
+	02.04.	WEEDING & SOIL WORKING	mon.			1000	-
1		a) 1 st circular weeding to a radius of 0.50 m around the plant during July - Aug.	No	400	103.79	100	415
1	02.04.02	b) 2 <sup>nd</sup> circular weeding to a radius of 0.50 m	No	400	103.79	100	415
1		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 during Nov Dec.			262.27	100	1453
+	02.04.03	i) For ordinary soil	No	400	363.37	100	1455
No. of Concession, Name of Street, or other Persons and Name of Street, or other Pers		Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the planting rows (to be undertaken during July - August)					
Series Series	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	На	1	1215.43	1 '	1215
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	На	1	1215.43	1	1215
	02.04.07	Enumeration of row-wise survival and average growth thrice in 2 <sup>nd</sup> Maintainance year - Number of plants planted and Number surviving (to be undertaken during June, Oct. and Jan.) and entered in Plantation Journal. With so much inputs like nutrition, augmentation of moisture status by SCTs and other cultural operations; deploying indegenous forest species and planting of seedlings of minimum height of 0.75 - 1.0 m, it is prescribed that the minimum stocking of 90% with average minimum height of 2.5 3 m at the end of 1st year maintainance.	(planta	be done by tion-in-char of Plantatio		,	
A STATE OF THE PARTY OF THE PAR	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 with address shall be pasted in respective Plantation Journal.  Every month payment will be made after satisfaction by Plantation-in-charge that fence is in proper condition and incidence of grazing and fire is not there. The guiding principle of charging the Plantation Watcher in 2nd year is at least 80% stocking during 2nd year of maintainance period.		12	750	1	900

#### UNIT RATE:

As per FSR 2016-17 13700.00

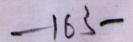
As per FSR 2017-18 (15% Escalation charges added) 15755.00

As per FSR 2018-19 (15% Escalation charges added) 18118.25 As per FSR 2019-20 (15% Escalation charges added)

20835.99 As per FSR 2020-21 (15% Escalation charges added) 23961.39

As per FSR 2021-22 (15% Escalation charges added) 27555.60

Per Ha. 27556 OR



UNIT COST FOR 4th YEAR MAINTENANCE OF C.A. PLANTATION FOR 2022-23 UNDER ANR METHOD (LI) ( 400 plants per Ha)

	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
i	2		4	5	6	7	8
3	02.04.						
2		WEEDING & SOIL WORKING			1		
W 180 M	02.04.01	a) 1 <sup>st</sup> circular weeding to a radius of 0.50 m around the plant during July - Aug.	No	400	103.79	100	415
1000	02.04.02	b) 2 <sup>nd</sup> circular weeding to a radius of 0.50 m around the plant during Sept Oct.	No	400	103.79	100	415
Sell Strike		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 during Nov Dec.					
1	02.04.03	i) For ordinary soil	No	400	363.37	100	1453
		Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the planting rows (to be undertaken during July - August)					
Series .	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	На	1	1215.43	. 1	1215
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	На	1	1215.43	1	1215
大学 の大学 かんかん はない	02.04.07	Enumeration of row-wise survival and average growth thrice in 2 <sup>nd</sup> Maintainance year - Number of plants planted and Number surviving (to be undertaken during June, Oct. and Jan.) and entered in Plantation Journal.  With so much inputs like nutrition augmentation of moisture status by SCTs  (plantation_in_charpe) with the				and the second s	
	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 with address shall be pasted in respective Plantation Journal. Every month payment will be made after satisfaction by Plantation-in-charge that fence is in proper condition and incidence of grazing and fire is not there. The guiding principle of charging the Plantation Watcher in 2nd year is at least 80% stocking during 2nd year of maintainance period.	Month	12	750	1	9000
1 10/3	A CONTRACTOR	periou.				Total	1371

#### UNIT RATE:

13700.00 As per FSR 2016-17
15755.00 As per FSR 2017-18 (15% Escalation charges added)
18118.25 As per FSR 2018-19 (15% Escalation charges added)
20835.99 As per FSR 2019-20 (15% Escalation charges added)
23961.39 As per FSR 2020-21 (15% Escalation charges added)
27555.60 As per FSR 2021-22 (15% Escalation charges added)
31688.94 As per FSR 2022-23 (15% Escalation charges added)

OR 31689 Per Ha.

Divisional Forest Officer, Kaghaznagar

13700.00 per Ha

UNIT COST FOR 5 th YEAR MAINTENANCE OF C.A. PLANTATION FOR 2023-24 UNDER ANR METHOD (LI) (400 plants

I	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
0	2	The state of the s	4	- 5	6	7	8
1	02.04.						
t	-	WEEDING & SOIL WORKING					
No. of Lot	02.04.01	a) 1 <sup>st</sup> circular weeding to a radius of 0.50 m around the plant during July - Aug.	No	400	103.79	.100	415
	02.04.02	b) 2 <sup>nd</sup> circular weeding to a radius of 0.50 m around the plant during Sept Oct.	No	400	103.79	100,	415
がいる		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 during Nov Dec.					
	02.04.03	i) For ordinary soil	No	400	363.37	100	1453
Contraction of the Contraction o		Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the planting rows (to be undertaken during July - August)					1
10 44 10 MIR	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	Ha	1	1215.43	1	1215
では地面	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	. Ha	1	1215.43	1	. 1215
1000年代の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の大学の	02.04.07	Enumeration of row-wise survival and average growth thrice in 2 <sup>nd</sup> Maintainance year - Number of plants planted and Number surviving (to be undertaken during June, Oct. and Jan.) and entered in Plantation Journal.  To be done by the st					
The state of the s	02.04.08	Plantation-in-charge that fence is in proper condition and incidence of grazing and fire is not there. The guiding principle of charging the Plantation Watcher in 2nd year is at least 80% stocking during 2nd year of maintainance	Month	12	750	- 1	9000
		period.				Total	1371

#### UNIT RATE:

As per FSR 2016-17 13700.00 As per FSR 2017-18 (15% Escalation charges added) 15755.00 As per FSR 2018-19 (15% Escalation charges added) 18118.25 As per FSR 2019-20 (15% Escalation charges added) 20835.99 As per FSR 2020-21 (15% Escalation charges added) 23961.39 As per FSR 2021-22 (15% Escalation charges added) 27555.60 As per FSR 2022-23 (15% Escalation charges added) 31688.94 As per FSR 2023-24 (15% Escalation charges added) 36442.28

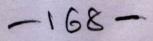
OR 36442 Per Ha.

UNIT COST FOR 6 th YEAR MAINTENANCE OF C.A. PLANTATION FOR 2024-25 UNDER ANR METHOD (LI) ( 400 plants per Ha)

	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)		mount
		3	4	5	6	7	8
	2						
	02.04.	WEEDING & SOIL WORKING					
-		a) 1 <sup>st</sup> circular weeding to a radius of 0.50 m around the plant during July - Aug.	No	400	103.79	100	415
		b) 2 <sup>nd</sup> circular weeding to a radius of 0.50 m	No	400	103.79	100	415
Shirth and		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 during Nov Dec.			,		
ļ	000103	i) For ordinary soil	No	400	363.37	100	1453
京に 合行のないとうしかなっ	02,04.03	Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the planting rows (to be undertaken during July - August)					
State of the last	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	На	1	1215.43	1	1215
September 1	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	На	1	1215.43	1	1215
	02.04.07	Enumeration of row-wise survival and average growth thrice in 2 <sup>nd</sup> Maintainance year - Number of plants planted and Number surviving (to be undertaken during June, Oct. and Jan.) and entered in Plantation Journal. With so much inputs like nutrition, augmentation of moisture status by SCTs and other cultural operations; deploying indegenous forest species and planting of seedlings of minimum height of 0.75 - 1.0 m, it is prescribed that the minimum stocking of 90% with average minimum height of 2.5 3 m at the end of 1 styrear maintainance.	(planta help	be done by tion-in-cha of Plantatio	1	•	
大阪 日本の の 日本の 日本の 日本の 日本の 日本の 日本の 日本の 日本の 日	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 with address shall be pasted in respective Plantation Journal. Every month payment will be made after satisfaction by Plantation-in-charge that fence is in proper condition and incidence of grazing and fire is not there. The guiding principle of charging the Plantation Watcher in 2nd year is at least 80% stocking during 2nd year of maintainance	E 2500-00	h 12	750	1	9000
	TO SERVICE AND ADDRESS OF	period.	E CONTRACTOR	200		Total	137

#### UNIT RATE

13700.00	As per FSR 2016-17
15755.00	As per FSR 2017-18 (15% Escalation charges added)
18118.25	As per FSR 2018-19 (15% Escalation charges added)
20835.99	As per FSR 2019-20 (15% Escalation charges added)
23961.39	As per FSR 2020-21 (15% Escalation charges added)
27555.60	As per FSR 2021-22 (15% Escalation charges added) As per FSR 2022-23 (15% Escalation charges added)
31688.94	
36442.28	
41908.62	As per FSR 2024-25 (15% Escalation charges added)
	Marie Committee of the
44000	Dor Us



UNIT COST FOR 7 th YEAR MAINTENANCE OF C.A. PLANTATION FOR 2025-26 UNDER ANR METHOD (LI) ( 400 plants per Ha)

A	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	4	6	6	7.	8
	03.04						
3	02.04.	WEEDING & SOIL WORKING					
1		a) 1 st circular weeding to a radius of 0.50 m	No	400	103.79	100	415
		around the plant during July - Aug.					Sea Se
	02.04.02	b) 2 <sup>nd</sup> circular weeding to a radius of 0.50 m around the plant during Sept Oct.	No	400	103.79	100	415
		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 during Nov Dec.		*			
	02.04.03	i) For ordinary soil	No	400	363.37	100	1453
Will with the Strategies of	0210-1100	Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the planting rows (to be undertaken during July - August)					
100	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	Ha	1	1215.43	1	1215
100	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	На	1	1215.43	1	1215
	02.04.07	Enumeration of row-wise survival and average growth thrice in 2 <sup>nd</sup> Maintainance year - Number of plants planted and Number surviving (to be undertaken during June, Oct. and Jan.) and entered in Plantation Journal. With so much inputs like nutrition, augmentation of moisture status by SCTs and other cultural operations; deploying indegenous forest species and planting of seedlings of minimum height of 0.75 - 1.0 m, it is prescribed that the minimum stocking of 90% with average minimum height of 2.5 - 3 m at the end of 1st year maintainance.	(plantati	e done by t ion-in-charg f Plantation	ge) with the	• •	
The state of the s	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 with address shall be pasted in respective Plantation Journal. Every month payment will be made after satisfaction by Plantation-in-charge that fence is in proper condition and incidence of grazing and fire is not there. The guiding	Month	12	750	1	9000
		principle of charging the Plantation Watcher in 2nd year is at least 80% stocking during 2nd year of maintainance period.				Total	137
			The second second			. Intal	1 13/

#### UNIT RATE:

	13700.00	As per FSR 2016-17
	15755.00	As per FSR 2017-18 (15% Escalation charges added)
	18118.25	As per FSR 2018-19 (15% Escalation charges added)
	20835.99	As per FSR 2019-20 (15% Escalation charges added)
1	23961.39	As per FSR 2020-21 (15% Escalation charges added)
2	27555.60	As per FSR 2021-22 (15% Escalation charges added)
量	31688.94	As per FSR 2022-23 (15% Escalation charges added)
西	36442.28	As per FSR 2023-24 (15% Escalation charges added)
1	41908.62	As per FSR 2024-25 (15% Escalation charges added)
1	48194.91	As per FSR 2025-26 (15% Escalation charges added)
R.	48195	Per Ha.

Divisional Porest Officer, Kaghaznagar

- 169 -

UNIT COST FOR 8 th YEAR MAINTENANCE OF C.A. PLANTATION FOR 2026-27 UNDER ANR METHOD (LI) (400 plants per Ha)

	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
t	2	Market Barrier 3	4	5	6	7	8
t	02.04.	The state of the s					
t	41 202	WEEDING & SOIL WORKING	level TY	Service Control			
	02.04.01	a) I <sup>st</sup> circular weeding to a radius of 0.50 m around the plant during July - Aug.	No	400	103.79	100	415
	02.04.02	b) 2 <sup>nd</sup> circular weeding to a radius of 0.50 m around the plant during Sept Oct.	No	400	103.79	.100	, 415
		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 during Nov Dec.					
t	02.04.03	i) For ordinary soil	No	400	363.37	100	1453
して いいかい は ののない ないない ない かいかい かいかい かいかい かいかい かいかい か		Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the planting rows (to be undertaken during July - August)		. •			
は、日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	На	1	1215.43	1 1	1215
とのではない。	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	На	1	1215.43	1.	1215
STATE OF THE PARTY	02.04.07	Enumeration of row-wise survival and average growth thrice in 2 <sup>nd</sup> Maintainance year - Number of plants planted and Number surviving (to be undertaken during June, Oct. and Jan.) and entered in Plantation Journal. With so much inputs like nutrition, augmentation of moisture status by SCTs and other cultural operations; deploying indegenous forest species and planting of seedlings of minimum height of 0.75 - 1.0 m, it is prescribed that the minimum stocking of 90% with average minimum height of 2.5 - 3 m at the end of 1st year maintainance.	(plantati	e done by to on-in-charg f Plantation	e) with the		•
The state of the s	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 with address shall be pasted in respective Plantation Journal. Every month payment will be made after satisfaction by Plantation-in-charge that fence is in proper condition and incidence of grazing and fire is not there. The guiding principle of charging the Plantation Watcher in 2nd year is	Month	. 12	750	1	9000
		at least 80% stocking during 2nd year of maintainance period.		A COLUMN			105
	ST SA SALE				AND DESCRIPTION OF THE PARTY OF	Total	1371

#### UNIT RATE:

13700.00	As per FSR 2016-17
15755.00	As per FSR 2017-18 (15% Escalation charges added)
18118.25	As per FSR 2018-19 (15% Escalation charges added)
20835.99	As per FSR 2019-20 (15% Escalation charges added)
23961.39	As per FSR 2020-21 (15% Escalation charges added)
27555.60	As per FSR 2021-22 (15% Escalation charges added)
31688.94	As per FSR 2022-23 (15% Escalation charges added)
36442.28	As per FSR 2023-24 (15% Escalation charges added)
	As per FSR 2024-25 (15% Escalation charges added)
41908.62	As per FSR 2024-25 (15% Escalation charges added)
48194.91	As per FSR 2025-26 (15% Escalation charges added)
55424.15	As per FSR 2026-27 (15% Escalation charges added)
30	

-170 -

UNIT COST FOR 9 th YEAR MAINTENANCE OF C.A. PLANTATION FOR 2027-28 UUNDER ANR METHOD (LI) ( 400 plants per Ha)

Ť	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per,	Amount
-	26 - 26 - 10	3	4	' 6	6	7	8
H	2 02 04	AND THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN T				100	1
H	02.04.	WEEDING & SOIL WORKING					
	02.04.01	a) 1 <sup>st</sup> circular weeding to a radius of 0.50 m around the plant during July - Aug.	No	400	103.79	100	415
1	02,04.02	b) 2 <sup>nd</sup> circular weeding to a radius of 0.50 m around the plant during Sept Oct.	No	400	103.79	100	415
		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 during Nov Dec.					,
t	02.04.03	i) For ordinary soil	No	400	363.37	100	1453
一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一		Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the planting rows (to be undertaken during July - August)				= 14	
のないのである。	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	На	1 1	1215.43	1	1215
SCHOOL ST	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	На	1	1215.43	1	1215
The state of the s	02.04.07	Enumeration of row-wise survival and average growth thrice in 2 <sup>nd</sup> Maintainance year - Number of plants planted and Number surviving (to be undertoken during June, Oct. and Jan.) and entered in Plantation Journal. With so much inputs like nutrition, augmentation of moisture status by SCTs and other cultural operations; deploying indegenous forest species and planting of seedlings of minimum height of 0.75 - 1.0 m, it is prescribed that the minimum stocking of 90% with average minimum height of 2.5 - 3 m at the end of 1st year maintainance.	To b (plantat help o		•		
一	02.04.08	Plantation-in-charge that fence is in proper condition and incidence of grazing and fire is not there. The guiding principle of charging the Plantation Watcher in 2nd year is at least 80% stocking during 2nd year of maintainance	Month	12	750	1	9000
13	S - 3	period.		THE PARTY NAMED IN		Total	1371

#### UNIT RATE:

R	63738	Per Ha.
	63737.77	As per FSR 2027-28 (15% Escalation charges added)
翻	55424.15	As per FSR 2026-27 (15% Escalation charges added)
2	48194.91	As per FSR 2025-26 (15% Escalation charges added)
	41908.62	As per FSR 2024-25 (15% Escalation charges added)
	36442.28	As per FSR 2023-24 (15% Escalation charges added)
	31688.94	As per FSR 2022-23 (15% Escalation charges added)
	27555.60	As per FSR 2021-22 (15% Escalation charges added)
	23961.39	As per FSR 2020-21 (15% Escalation charges added)
	20835.99	As per FSR 2019-20 (15% Escalation charges added)
	18118.25	As per FSR 2018-19 (15% Escalation charges added)
	15755.00	As per FSR 2017-18 (15% Escalation charges added)
	13700.00	As per FSR 2016-17

Divisional Eorest Officer, Kaghaznagar

13700.00 per Ha

UNIT COST FOR 10 th YEAR MAINTENANCE OF C.A. PLANTATION FOR 2028-29 UNDER ANR METHOD (LI) ( 400 plants

per Ha)

T	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
0	2	3	4	5	6	7	8
	02.04.	HER LESS AND A STATE OF THE STA					
63	1	WEEDING & SOIL WORKING					1000
The same of	02.04.01	a) 1 <sup>st</sup> circular weeding to a radius of 0.50 m around the plant during July - Aug.	No	400	103.79	100	415
	02.04.02	b) 2 <sup>nd</sup> circular weeding to a radius of 0.50 m around the plant during Sept Oct.	No	400	103.79	100	415
		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 during Nov Dec.					,
1	02.04.03	i) For ordinary soil	No	400	363.37	100	1453
Spirit San		Cutting of coppice growth flush to the ground to reduce the competition over the entire area duly retaining useful species after planting and placing the cut material in between the planting rows (to be undertaken during July - August)					•
C ASS C	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	На	1	1215.43	1.	1215
September 1	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	Ha	1	1215.43	. 1	1215
1000年の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の	02.04.07	Enumeration of row-wise survival and average growth thrice in 2 <sup>nd</sup> Maintainance year - Number of plants planted and Number surviving (to be undertaken during June, Oct. and Jan.) and entered in Plantation Journal. With so much inputs like nutrition, augmentation of moisture status by SCTs and other cultural operations; deploying indegenous forest species and planting of seedlings of minimum height of 0.75 - 1.0 m, it is prescribed that the minimum stocking of 90% with average minimum height of 2.5- 3 m at the end of 1st year maintainance.	To be done by the staff (plantation-in-charge) with the help of Plantation Watcher				
		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 with address shall be pasted in respective Plantation Journal.			0		
S. S	02.04.08	Every month payment will be made after satisfaction by Plantation-in-charge that fence is in proper condition and incidence of grazing and fire is not there. The guiding principle of charging the Plantation Watcher in 2nd year is at least 80% stocking during 2nd year of maintainance	Month	12	750	. 1	9000
39		period.					

UNIT RATE:

As per FSR 2016-17 13700.00 As per FSR 2017-18 (15% Escalation charges added) 15755.00 As per FSR 2018-19 (15% Escalation charges added) 18118.25 As per FSR 2019-20 (15% Escalation charges added) 20835.99 As per FSR 2020-21 (15% Escalation charges added) 23961.39 As per FSR 2021-22 (15% Escalation charges added) 27555.60 As per FSR 2022-23 (15% Escalation charges added) 31688.94 As per FSR 2023-24 (15% Escalation charges added) 36442.28 As per FSR 2024-25 (15% Escalation charges added) 41908.62 As per FSR 2025-26 (15% Escalation charges added) 48194.91 As per FSR 2026-27 (15% Escalation charges added) 55424.15 As per FSR 2027-28 (15% Escalation charges added) As per FSR 2028-29 (15% Escalation charges added) 63737.77 73298.44 Per Ha. 73298 172