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**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*, *Cliethanthus 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
			<b>Total</b>	<b>245.13</b>		

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.

Sl 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
	<b>Total</b>	<b>29,50,28,554/-</b> <b>Or 29,50,30,000/-</b>



**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.

Sl. No.	Division	Range	Mandal	Near RF	Near Compt. No.	Area proposed in Ha.
1	Kaghasnagar	Bejjur	Bejjur	Bejjur R.F & Bejjur Ext-VIII	235	70.907
2	Kaghasnagar	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 & Kaghasnagar Mandals of Kaghasnagar 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**

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 sub-rounded pebbles of quartz, quartzite, chert and jasper. The Sub- Cretaceous – Eocene – Deccan Trap, Late Precambrian – Salluvai series, 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.                       |
| 2. 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*, *Cliستانthus 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	1) Raising of Primary Beds Nursery 2) Development and improvement and extension of Nursery infrastructure for CA scheme 3) 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	8th Year maintenance of plantation
2027-28	9th Year maintenance of plantation
2028-29	10th Year maintenance of plantation



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**3.11 COST STRUCTURE:**

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

Sl 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
	<b>Total</b>	<b>29,50,28,554/-</b> <b>Or 29,50,30,000/-</b>

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 NTFF & 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).

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**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.

Sl. 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
			<b>Total</b>			<b>245.13</b>

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

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

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. | 4,70,000 Seedlings.             |
| 2) For casualties in maintenance | 245.13 Ha. | 98,000 Seedlings                |
|                                  |            | <b>Total 5,68,000 Seedlings</b> |



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**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.

**"COUNTER SIGNED"**

Conservator of Forests,  
Adilabad Circle, Adilabad

Divisional Forest Officer,  
Kaghnaznagar



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

Sl No	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
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	Raising of Nursery & Plantation:														
	a) Primary beds	43000	49450												92450
	b) Raising and Convesion of Nursery		4516700	1083880											5600580
2	Maintenance of Nursery		0	1640300	393960										2034260
3	Advance operations (Area in Ha.)														0
	3m x 2m SMM method		2530000												2530000
	3m x 2m LI method		4590502												4590502
	ANR method		625673												625673
4	Raising of plantation (Area in Ha.)														0
	3m x 2m SMM method			8146600											8146600
	3m x 2m LI method			5265346											5265346
	ANR method			887232											887232
	a) SMC works			9958425											9958425
	b) Digging of trench work around CA Plantation			5885125											5885125
	c) Construction of Check dams		6612500												6612500
	d) Formation of Percolation tanks		6612500												6612500
	e) Saplings of desirable species in natural forests, weeding of miscellaneous growth		1613593												1613593
															0
															0
5	1st Year maintenance of plantation (Area in Ha.)														0
	3m x 2m SMM method				4977800										4977800
	3m x 2m LI method				5452739										5452739
	ANR method				1007867										1007867
6	2nd Year maintenance of plantation (Area in Ha.)														0
	3m x 2m SMM method					3463000									3463000
	3m x 2m LI method					3828007									3828007
	ANR method					980173									980173
															0
7	3rd Year maintenance of plantation (Area in Ha.)														0
	3m x 2m SMM method						3982500								3982500
	3m x 2m LI method						4402275								4402275
	ANR method						1127233								1127233
															0
8	4th Year maintenance of plantation (Area in Ha.)														0
	3m x 2m SMM method							4579900							4579900
	3m x 2m LI method							5062528							5062528
	ANR method							1296302							1296302
															0
9	5th Year maintenance of plantation (Area in Ha.)														0
	3m x 2m SMM method								5266800						5266800
	3m x 2m LI method								5821897						5821897
	ANR method								1490733						1490733
															0
10	6th Year maintenance of plantation (Area in Ha.)														0
	3m x 2m SMM method									6056900					6056900
	3m x 2m LI method									6995181					6995181
	ANR method									1714371					1714371
															0
11	7th Year maintenance of plantation (Area in Ha.)														0
	3m x 2m SMM method										6965400				6965400
	3m x 2m LI method										7699474				7699474
	ANR method										1971513				1971513
															0
12	8th Year maintenance of plantation (Area in Ha.)														0
	3m x 2m SMM method											8010200			8010200
	3m x 2m LI method											8854473			8854473
	ANR method											2267230			2267230



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

Sl No	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
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
13	9th Year maintenance of plantation (Area in Ha.)														
	3m x 2m SMM method														0
	3m x 2m LI method														0
	ANR method														0
14	10th Year maintenance of plantation (Area in Ha.)												9211700		9211700
	3m x 2m SMM method												10182587		10182587
	3m x 2m LI method												2607330		2607330
	ANR method														0
15	Development and improvement and extension of Nursery infrastructure for CA scheme													10593500	10593500
16	Erection of chainlink mesh fence	12037500	12037500											11709975	11709975
17	Construction of boundary pillars	14950000												2998401	2998401
18	Construction of Guest House at Kaghaznagar			3450000											0
19	Construction of Meeting Hall at Kaghaznagar														24076000
20	Extension of D.F.O Office building and its Maintenance			3000000											14960000
21	Construction of Compound wall (1. Bejjur, 2. Sirpur, 3. Koutala and 4. Ravindranagar)			2500000											8450000
22	Solar Systems (1. D.F.O Office, Range Offices at Kaghaznagar and Sirpur)			2500000											2500000
	Sub-Total		4000000												2000000
		27030500	1000000												2500000
23	Administrative Cost 10%	27030500	54188418	36316908	11832368	8271180	9512008	10938730	12579430	14466452	16636387	19131903	22001817	25301878	1000000
TOTAL:		27030500	5418842	3631691	1183237	827118	951201	1093873	1257943	1446645	1663639	1913190	2200182	2530188	26820775
		29733550	68607260	39948599	13015603	9088298	10483209	12032603	13837373	15913097	18300026	21045093	24201779	27832064	26820779
															295028554

Or  
Lakhs  
Crores

295030000  
2950.30  
29.50

Divisional Forest Officer,  
Kaghaznagar



**ABSTRACT FOR RAISING OF NURSERY AND PLANTATION IN C.A. LAND IN SY. NO. 125/1 & 125/2 OF LOADPALLY VILLAGE OF BEJUR MANDAL 70.907 Hb. and SY N**

[illegible]



ABSTRACT FOR RAISING OF NURSERY AND PLANTATION IN C.A. LAND IN SY. NO. 125/1 & 125/2 OF LOADPALLY VILLAGE OF BEJUR MANDAL-70,907 Ha. and SYN

Sl. No.	Item of work	YEAR WISE REQUIREMENT OF FUNDS											
		2016-17			2017-18			2018-19			2019-20		
		Qty.	Rate	Amount	Qty.	Rate	Amount	Qty.	Rate	Amount	Qty.	Rate	Amount
	3m x 2m LI method												
	ANR method												
12	8th Year maintenance of plantation (Area In Ha.)												
	3m x 2m SMM method												
	3m x 2m LI method												
	ANR method												
13	9th Year maintenance of plantation (Area In Ha.)												
	3m x 2m SMM method												
	3m x 2m LI method												
	ANR method												
14	10th Year maintenance of plantation (Area In Ha.)												
	3m x 2m SMM method												
	3m x 2m LI method												
	ANR method												
15	Development and improvement and extension of Nursery	6		12037500	5		12037500						
16	Infrastructure for CA scheme												
17	Erection of chainlink mesh fence			14950000									
18	Construction of boundary pillars				300	10000	3000000	300	11500	3450000			
19	Construction of Guest House at Kaghaznagar				1		2500000						
19	Construction of Meeting Hall at Kaghaznagar				1		2000000						
20	Extension of D.F.O Office building and its Maintenance				1		2500000						
21	Construction of Compound wall (1. Bejjur, 2. Sirpur, 3. Kottala and 4. Ravindranagar)				4		4000000						
22	Solar Systems (1. D.F.O Office, Range Offices at Kaghaznagar and Sirpur)				3		1000000						
	Sub-Total			27030500			54188418			36316908			
				27030500			54188418			3631691			
20	Administrative Cost 10%			29733550			59607260			39948599			
	TOTAL:									11832366			9512008
										1183237			951201
										13015603			10463209



Q.81 & 85 BHOOPALPATNAM VILLAGE OF SIRPUR MANDAL 174.223 Ha. WHICH FALLS IN KAGHAZNAGAR FOREST DIVISION

Sl. No.	Item of work	2022-23			2023-24			2024-25			2025-26			2026-27			2027-28			2028-29			Total
		Qty.	Rate	Amount	Qty.	Rate	Amount	Qty.	Rate	Amount	Qty.	Rate	Amount	Qty.	Rate	Amount	Qty.	Rate	Amount	Qty.	Rate	Amount	
1	Raising of Nursery & Plantation; a) Primary beds b) Raising and Conversion of Nursery 2 Maintenance of Nursery 3 Advance operations (Area In Ha.) 3m x 2m SMM method 3m x 2m LI method ANR method 4 Raising of plantation (Area In Ha.) 3m x 2m SMM method 3m x 2m LI method ANR method a) SMC works b) Digging of trench work around CA Plantation c) Construction of Check dams d) Formation of Percolation tanks e) Saplings of desirable species in natural forests, weeding of miscellaneous growth																						92450 5600580 2034260 0 2530000 4590502 626673 0 8148600 5265346 887232 9958425 5886125 6612500 6612500 1613593 0 0 0 4977800 5452739 1007867 0 3483000 3828007 960173 0 0 3982500 4402275 1127233 0 0 4579900 5062528 1296302 0 0 5266800 5821897 1490733 0 0 6056900 6695181 1714371 0 0
5	1st Year maintenance of plantation (Area In Ha.) 3m x 2m SMM method 3m x 2m LI method ANR method																						0 0 0 4977800 5452739 1007867 0 3483000 3828007 960173 0 0 3982500 4402275 1127233 0 0 4579900 5062528 1296302 0 0 5266800 5821897 1490733 0 0 6056900 6695181 1714371 0 0
6	2nd Year maintenance of plantation (Area In Ha.) 3m x 2m SMM method 3m x 2m LI method ANR method																						0 0 0 4977800 5452739 1007867 0 3483000 3828007 960173 0 0 3982500 4402275 1127233 0 0 4579900 5062528 1296302 0 0 5266800 5821897 1490733 0 0 6056900 6695181 1714371 0 0
7	3rd Year maintenance of plantation (Area In Ha.) 3m x 2m SMM method 3m x 2m LI method ANR method																						0 0 0 4977800 5452739 1007867 0 3483000 3828007 960173 0 0 3982500 4402275 1127233 0 0 4579900 5062528 1296302 0 0 5266800 5821897 1490733 0 0 6056900 6695181 1714371 0 0
8	4th Year maintenance of plantation (Area In Ha.) 3m x 2m SMM method 3m x 2m LI method ANR method	100	45799	4579900	104.223	48574	5062528	40.907	31689	1296302													0 0 0 4579900 5062528 1296302 0 0 4579900 5062528 1296302 0 0 5266800 5821897 1490733 0 0 6056900 6695181 1714371 0 0
9	5th Year maintenance of plantation (Area In Ha.) 3m x 2m SMM method 3m x 2m LI method ANR method				100	52668	5266800	104.223	55860	5821897													0 0 0 4579900 5062528 1296302 0 0 4579900 5062528 1296302 0 0 5266800 5821897 1490733 0 0 6056900 6695181 1714371 0 0
10	6th Year maintenance of plantation (Area In Ha.) 3m x 2m SMM method 3m x 2m LI method ANR method							100	52668	5266800													0 0 0 4579900 5062528 1296302 0 0 4579900 5062528 1296302 0 0 5266800 5821897 1490733 0 0 6056900 6695181 1714371 0 0
11	7th Year maintenance of plantation (Area In Ha.) 3m x 2m SMM method																						0 0 0 4579900 5062528 1296302 0 0 4579900 5062528 1296302 0 0 5266800 5821897 1490733 0 0 6056900 6695181 1714371 0 0



## O 81 &amp; 85 BHOOPALPATNAM VILLAGE OF SIRPUR MANDAL 174.223 Ha. WHICH FALLS IN KAGHAZNAGAR FOREST DIVISION

Sl. No.	Item of work	2022-23			2023-24			2024-25			2025-26			2026-27			2027-28			2028-29			Total
		Qty.	Rate	Amount	Qty.	Rate	Amount	Qty.	Rate	Amount	Qty.	Rate	Amount	Qty.	Rate	Amount	Qty.	Rate	Amount	Qty.	Rate	Amount	
	3m x 2m LI method										104.223	73875	7699474										7699474
	ANR method										40.907	48195	1971513										1971513
																							0
12	8th Year maintenance of plantation (Area in Ha.)																						0
	3m x 2m SMM method											100	80102	8010200									8010200
	3m x 2m LI method										104.223	84957	8854473										8854473
	ANR method										40.907	55424	2267230										2267230
																							0
13	9th Year maintenance of plantation (Area in Ha.)																						0
	3m x 2m SMM method													100	92117	9211700							9211700
	3m x 2m LI method													104.223	97700	10182587							10182587
	ANR method													40.907	63738	2607330							2607330
																							0
14	10th Year maintenance of plantation (Area in Ha.)																						0
	3m x 2m SMM method																100	105935	10593500				10593500
	3m x 2m LI method																104.223	112355	11709975				11709975
	ANR method																40.907	73298	2998401				2998401
																							0
15	Development and improvement and extension of Nursery infrastructure for CA scheme																						24075000
16	Erection of chainlink mesh fence																						14950000
17	Construction of boundary pillars																						6450000
18	Construction of Guest House at Kaghaznagar																						2500000
19	Construction of Meeting Hall at Kaghaznagar																						2000000
20	Extension of D.F.O. Office building and its Maintenance																						2500000
21	Construction of Compound wall (1. Bejur, 2. Sirpur, 3. Koutals and 4. Ravindranagar)																						4000000
22	Solar Systems (1. D.F.O. Office, Range Offices at Kaghaznagar and Sirpur)																						1000000
	Sub-Total			10938730			12579430			14466452			16636387			19131903			22001617			25301876	268207775
20	Administrative Cost 10%			1093873			1257943			1446645			1663639			1913190			2200162			2530188	26820779
	TOTAL:-			12032603			13837373			15913097			18300026			21045093			24201779			27832064	295028554

Or 295030000  
Lakhs 2950.30  
Crores 29.50

Divisional Forest Officer,  
Kaghaznagar



## UNIT COST FOR RAISING OF Misc. PRIMARY BEDS NURSERY FOR THE YEAR 2016-17

Sl. No.	FSR item No	Nature of work	Qty	Rate	Unit	Amount	Remarks
<b>PRIMARY BEDS of 1x1x0.3 m size for Miscellaneous species including bamboo - 50 primary beds for 1 lakh nursery is permitted. Primary beds should start from Jan - May depending on availability of fresh seeds. Once primary beds are formed, they can be used upto 5 years without changing the medium - what is required each time is solarization, burning a layer of grass on it and adding the below recommended fungicides and insecticides to the medium.</b>							
01.01.01		Preparation of New Site by clearing jungle growth, uprootal of stumps and removal of surface stones, pebbles etc.	1	Bed	4.32	1	4
01.01.03		Digging soil of the demarcated beds of 1x1x0.30 m size	1	Bed	33.26	1	33
01.01.04		Cost of sandy soil and transportation with 5 kms lead including loading and unloading charges (sandy soil and FYM in 5:1 ratio, i.e., 0.125 cum sandy soil and 0.025 cum FYM per primary bed	1	Bed	25.45	1	25
01.01.06		Cost and transport of 0.025 cum FYM	1	Bed	21.87	1	22
01.01.07		Mixing of sandy soil and FYM in 5:1 proportion (50 % of volume of bed) with excavated soil and refilling the bed and levelling.	1	Bed	9.45	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 ml of Carbendazim in 1 lit of water)	1		By Nursery Watcher		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 FSR		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 ash and then this should be thoroughly mixed with seeds to be sown after pretreatment and before sowing)	1		By Nursery Watcher		0
01.01.12		Sowing of seed (finer seeds like Adina, Mitragyna, Anthocephalus etc. to be mixed with sand and broadcasted - Bigger seeds to be dibbled in lines 1-2 cm apart) and covering the bed to a thickness of 2.5 cm with paddy hay including cost and conveyance	1	Bed	10.75	1	11
01.01.13		Watering the primary nursery beds with rose water cans twice daily for a maximum period of 2 months.	1	Bed/ 2 months	12.10	1	24
01.01.14		Kerbing the primary beds all around with Cement Bricks (in permanent nurseries only), if required. In all such permanent primary beds, no incurring of expenditure for making the primary beds every year is permitted except for cost of fungicides. This item has to be done with prior written approval of DFO	1	Per Bed	As per CSSR		200
01.01.15		Cost of chemicals, fungicide and insecticide			As per actuals limited to Rs. 1000/- per 1 lakh seedlings in primary bed stage		20
01.01.16		Application of Fungicide and insecticide with power-driven back-pack mechanized sprayer as used in agricultural fields to spray insecticide.	1	By Nursery Watcher			0
						859	
						Or 860	Per Bed

## 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



## UNIT COST FOR RAISING OF 50,000 BAG PLANTS NURSERY FOR 2017-18 (size of bag 5"x9") and Convesion to 8" x 12" 1113

Sl. No.	FSR item No	Nature of work	Qty	Rate	Unit	Amount	Remarks
	01.03.	<b>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.</b>					
		<b>From July to October for 4 Months</b>					
		<b>Raising of Nursery in Polythene bags in sizes of 4"x7" (200 gauge) or 5"x9" (250 gauge) bags and arranging in secondary beds (Bed size: 10 X 1 M).</b>					
	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	Bed	44.12	1	1324
		<b>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 &amp; Technology), Hyderabad at the cost of tenderer by taking samples from various lots of polybags.</b>					
	01.03.04	ii) 12.5 cm x 22.5 cm (5" x 9") size bags: 200 g 366 bags / kg	150	Kgs	159.00	1	23850
		<b>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.</b>					
		<b>Transportation of soil mixture ingredients</b>					
		a) Distance up to 5 km	50000	Bags	348.16	1000	17408
	01.03.06	12.5 cm x 22.5 cm (5" x 9") = 1.12 cum vol. for 1000 bags					
		b) For every extra km beyond 5 km upto 25 km	50000	Bags	136.05	1000	6803
	01.03.08	12.5 cm x 22.5 cm (5" x 9") = 1.12 cum vol. for 1000 bags ( 15 Kms x 9.07 = 136.05)					
		<b>Preparation of Potting Mixture by powdering of various ingredients, sieving and mixing them in prescribed proportion; opening of bags and filling with potting mixture and gently pressing the same with finger tips and arranging in beds.</b>					
		ii) 12.5 cm x 22.5 cm (5" x 9") size bags: 1700 bags / bed	50000	Bags	830.95	10000	4155
	01.03.10	Alignment of beds including alignment of inspection paths etc	30	Bed	6.59	1	198
	01.03.11	Pricking out seedlings from primary beds and transplanting into polybags	50000	Bags	122.74	1000	6137
	01.03.12	Sowing / dibbling of pretreated seeds (e.g. Yegisa, Nalamadi, Yerumaddi etc.) directly into bags including cost of treatment	0	Bags	73.01	1000	0
	01.03.13	<b>Watering the plants twice a day from July - October</b>					
		a) Manually with rose spray or finely perforated nozzle attached to a hose pipe for 4 Months	30	Bed / 4 months	238.19	1	28583
	01.03.14	b) Mechanically with sprinkler sets fitted all along the beds at a height of 75-100 cm height.	0	Bed / month	66.2	1	0.00
	01.03.15	<b>Weeding the plants from July to October (3 times)</b>					
		1 <sup>st</sup> weeding - July	30	Bed / weeding	43.74	1	1312
	01.03.16	2 <sup>nd</sup> weeding - Aug	30	Bed / weeding	43.74	1	1312
	01.03.17	3 <sup>rd</sup> weeding - Sept	30	Bed / weeding	43.74	1	1312
	01.03.18	<b>Shifting, Grading and rearranging in beds of 10x1 m size beds (2600 no. of 4"x7"bags; 1700 no. of 5"x9" bags)</b>	30	Bed / shifting	204.28	1	6128
	01.03.19	<b>One Grading in Sept.</b>	3	Bed	58.00	1	174
	01.03.20	<b>Replacement of casualties after sorting out the empty bags and keeping at one end of the bed (maximum 10% of total stock is permissible)</b>					
	01.03.21	<b>Cost of foliar nutrient formulations like multiplex or NPK-19:19:19; fungicides and insecticides from July to Oct.</b>					
		As per actuals with a maximum limit of Rs. 2000/ per 1 lakh polybag seedlings.					1000



Sl. No.	FSR item No	Nature of work	Qty		Rate	Unit	Amount	Remarks
	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 Nursery Watcher				0.00	
	01.03.23	Weeding in the space between the beds, inspection path and surroundings 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	
		<b>Sub total</b>					<b>141330</b>	
		<b>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).</b>						
		<b>From November to March for 5 Months</b>						
		<b>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.</b>						
		<b>Transportation of soil mixture ingredients</b>						
		<b>a) Distance up to 5 km</b>						
	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			
	01.03.26	iii) 4" x 7" to 6" x 12" polybags (2.15 - 0.56 = 1.59 cum)	1000		494.29			
	01.03.27	iv) 4" x 7" to 8" x 12" polybags (3.82 - 0.56 = 3.26 cum)	1000		1013.45			
	01.03.28	v) 5" x 9" to 8" x 12" polybags (3.82 - 1.12 = 2.70 cum)	50000	Nos	864.05	1000	43203	
		<b>b) For every extra km beyond 5 km upto 25 km</b>						
	01.03.29	i) RT plants to 6"x12" polybags		Nos/Km	12.88	1000 No. / km		
	01.03.30	ii) RT plants to 8"x12" polybags		Nos/Km	26.41	1000 No. / km		
	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		
	01.03.32	iv) 4" x 7" to 8" x 12" polybags (3.82 - 0.56 = 3.26 cum)		Nos/Km	26.41	1000 No. / km		
	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	
		<b>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)</b>						
	01.03.34	i) RT plants to 6"x12" polybags	1000		870.78			
	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			
	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	
		<b>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).</b>						
		<b>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.</b>						
	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	ii) 8" x 12" to 10" x 16" polybags (8.35 - 3.82 = 4.53)	1000		1892.18		0	



Sl. No.	FSR item No	Nature of work	Qty	Rate	Unit	Amount	Remarks
		<b>Preparation of Potting Mixture</b> by powdering of various ingredients, sieving and mixing them in prescribed proportion; <b>opening of bags</b> and filling with potting mixture partially, <b>tearing the polybag plants and repotting them inside bigger bags</b> 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		0	
01.03.42	ii) 8" x 12" to 10" x 16" polybags (8.35 - 3.82 = 4.53)		1000	2480.89		0	
01.03.43	Stakes to be provided to plants to tall Plants in 10"x16" bags		1000	2160		0	
		<b>Weeding the plants</b> (1100 no. of 6"x12"bags; 800 no. of 8"x12" bags; and 400 no. of 10"x16" bags) from November - March: 2 weedings					
01.03.44	1 <sup>st</sup> weeding - December	63	Bed / weeding	43.74	1	2756	
01.03.45	2 <sup>nd</sup> weeding - February	63	Bed / weeding	43.74	1	2756	
01.03.46	Shifting, Grading and rearranging in secondary beds - One Grading in February	63	Bed / weeding	204.28	1	12870	
		<b>Watering</b> the plants manually twice a day (from Novemebr - March) with rose spray or finely perforated nozzle attached to a hose pipe.					
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 nutrient formulations like multiplex or NPK-19:19:19; fungicides and insecticides (from Dec - March)		As per actuals with a maximum limit of Rs. 2000/- per 1 lakh polybag seedlings.			1000	
Page 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, subject to max. of 5 % of estimate in raising year			19618	
	Sub total					276670	
	Gran total					418000	

Per 50000 Bags or 418000

## 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)

## OR

8.36 Per Plant - 2016-17

9.61 Per Plant - 2017-18

11.06 Per Plant - 2018-19

Divisional Forest Officer,  
Kaghaznagar



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

Sl. No.	FSR item No.	Nature of work	Qty	Rate	Unit	Amount	Remarks
	01.04.	<b>MAINTAINANCE YEAR OF NURSERY</b>					
		<b>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" X 9" bags; 1100 Nos. of 6" X 12" bags; 800 Nos. of 8" X 12" bags; 400 Nos. of 10" X 16" bags per bed)</b>					
		<b>Watering</b> 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	<b>Weeding once</b> during maintenance year	63	Bed / weeding	43.74	1	2756
	01.04.04	<b>Shifting, grading and re-arranging in beds</b> for 10 m X 1 m size bed <i>max. two shifts</i> (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 nutrient formulations like multiplex or NPK-19:19:19; fungicides and insecticides (from April - August)	63	As per actuals with a maximum limit of Rs. 2000/- per 1 lakh polybag seedlings			1000
		<b>Cowdung Slurry application</b> (One can apply chemical foliar spray or apply cowdung slurry - not both)					
	01.04.07	<b>Preparation of cowdung slurry -</b>	63	per 100 beds	As per actual subject to maximum of Rs. 1500/-		945
	01.04.08	<b>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.</b>	50000	Nos	178.79	1000	8940
	01.04.09	<b>Weeding in the space between the beds, inspection path and surroundings of Nursery</b>	63	Beds	24.03	1	1514
	01.04.10	<b>Contingencies for Maint. Year</b> towards the expenditure like cost of hose pipe, nursery boards, electricity charges, running and maintainance charges of oil engines (Bills to be certified by ACF / DFO; and separate logbook for repair of motor or oil engine and store register for materials purchased.		As per actuals, subject to max. of 5 % of estimate in Maint. Year.			6365
	Page No VIII of FSR 2016-17	Nursery Watcher from April to July for 4 Months	4	Month	5820	1	23280
							<b>132000</b>

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

Divisional Forest Officer,  
 Kaghaznagar

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1121

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

Sl. No.		Nature of work	Quantity	Rate	Unit	Amount	Remarks
1	04.02.01	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 saplings	98052	14.31	Per sampling	1403124	
			<b>TOTAL:</b>			<b>1403124</b>	

**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**

  
 Divisional Forest Officer  
 Kaghaznagar



1123

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


Sl. 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	
			<b>TOTAL:</b>			<b>7530000</b>	

**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**

  
Divisional Forest Officer  
Kaghaznagar

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1125

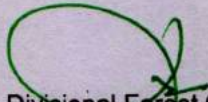
## UNIT COST DIGGING OF TRENCH WORK AROUND THE C.A. PLANTATION AREA

Sl. 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	
			<b>TOTAL:</b>			<b>4450000</b>	

4450000

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

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

  
Divisional Forest Officer  
Kaghaznagar



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

Sl. 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

Divisional Forest Officer  
Kaghaznagar



1129

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



Sl. 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	
		<b>TOTAL:</b>			<b>5000000</b>	

5000000

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

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

6612500

  
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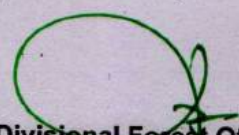
1131

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

Sl. 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	
			<b>TOTAL:</b>			<b>13000000</b>	

13000000

14950000 (15% Escalation charges added)for 2016-17

  
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Kaghaznagar



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

Sl. No	Range	Location of nursery	Item of work	Amount required
1	Kaghaznagar	Kaghaznagar Forest Complex	Borewell & Motor	2.000
			Over head tanks 2 Nos.	1.500
			Central water system	4.500
			Seed storage room	3.000
			Kerbing the primary beds all around with Cement Bricks (in permanent nurseries only) 50 Nos @ 1500/-	0.750
				<b>11.750</b>
2	Kaghaznagar	Easgaon	Borewell & Motor	1.000
			Over head tanks 2 Nos.	1.500
			Central water system	4.500
			Seed storage room	3.000
			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
				<b>23.750</b>
3	Sirpur	Pedda Banda	Chainlink fencing fencing	5.000
			Central water system	4.500
			Over head tanks 2 Nos.	1.500
			Borewell & Motor	1.000
			Seed storage room	3.000
			Kerbing the primary beds all around with Cement Bricks (in permanent nurseries only) 50 Nos @ 1500/-	0.750
				<b>15.750</b>
4	Sirpur	Sirpur Forest Complex	Borewell & Motor	1.000
			Over head tanks 2 Nos.	1.500
			Central water system	4.500
			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
				<b>15.750</b>
5	Sirpur	Kouthala	Borewell & Motor	1.000
			Over head tanks 2 Nos.	1.500
			Central water system	4.500
			Seed storage room	3.000
			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
				<b>23.750</b>



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

Sl. No	Range	Location of nursery	Item of work	Amount required
6	Karjelly	Ravindranagar	Borewell & Motor	1.000
			Over head tanks 2 Nos.	1.500
			Central water system	4.500
			Seed storage room	3.000
			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
			Solar water System	8.000
			Seed storage room	3.000
			Spinkler water system	5.000
			Drilling of Borewell with 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
				25.250
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
			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
			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
10	Karjelly	Karjelly	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
			Over head tanks 2 Nos.	1.500



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

Sl. 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
				25.250
11	Karjelly	Gudem	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
			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
			<b>Grand Total</b>	<b>240.750</b>

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

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Sl. No	Range	CA land village area	Area proposed in Ha	Model wise area to be afforested			
				SMM ( 3m x 2m)	L I ( 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
			<b>245.13</b>	<b>100</b>	<b>104.223</b>	<b>40.907</b>	<b>245.13</b>

**Requirement of seedlings for the above area for CA scheme**

Sl. No	Range	CA land village area	Area proposed in Ha	SMM ( 3m x 2m) ( 2000 Per Ha)	L I ( 3m x 2m) ( 2000 Per Ha)	ANR ( @ 480)	Total
1	Bejjur	Raising year	70.907	40000	20000	19635	79635
2	Sirpur		174.223	160000	188446	0	348446
			<b>245.13</b>	<b>200000</b>	<b>208446</b>	<b>19635</b>	<b>428081</b>
		<b>Inclusive 10 %</b>		<b>220000</b>	<b>229291</b>	<b>21599</b>	<b>470889</b>
1	Bejjur	Replancement for 1st year	70.907	8320	4160	4091	16571
2	Sirpur		174.223	33280	39197	0	72477
			<b>245.13</b>	<b>41600</b>	<b>43357</b>	<b>4091</b>	<b>89048</b>
		<b>Inclusive 10 %</b>		<b>45760</b>	<b>47693</b>	<b>4500</b>	<b>97953</b>
		<b>Grand Total</b>		<b>265760</b>	<b>276984</b>	<b>26099</b>	<b>568842</b>

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

Sl. No.	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	
		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 excused from the clearing operation 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	
		Uprootal of Stumps (excluding unsuitable patches) to a minimum depth of 45 cm with heavy machinery fitted with 0.90 cum and above capacity bucket, filling the pits caused by uprootal, and levelling. For retrieved encroached area, the approval of Circle Head is required and the approval should indicate clearly the density of stumps or vegetation to be removed through uprootal. The uprootal work can be carried out preferably through tender process.					
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.					
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	
		<b>SUB-TOTAL</b>				<b>21889</b>	

OR **22000**

**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.**

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

Sl No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
1	2	3	4	5	6	7	8
	<b>PLANTATION</b>						
	II	<b>RAISING OF BLOCK PLANTATIONS</b>					
	02.08.	<b>SEMI-MECHANICAL PLANTATION</b>					
	02.09.	<b>PLANTING OPERATIONS DURING RAISING YEAR</b>					
		Deep Ploughing the effective (excluding unsuitable patches) plantation area across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough (FOR UNTILLED AREA) - to be completed by 15th of June					
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 material hindering the effective ploughing	Ha	1	853.42	1	853
		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 growth					
		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 to site	100 no.	1666	47.30	100	788
		Digging of Pits in Ploughed Areas in June - July by adopting 50% of original rate of digging of pits of ordinary soil					
5	02.09.11	b) 45 cm <sup>3</sup> pits	Pit	1666	8.84	1	14727
		<b>PLANTING OPERATIONS DURING RAISING YEAR</b>					
		Transportation of Planting Stock (including loading and unloading)					
		From nursery to plantation site - upto 5 Km lead					
6	02.09.13	15 X 30 cm (6"X12") bag plants	100 nos	1666	96.79	100	1613
		From nursery to plantation site - beyond 5 Km lead					
		j) For every extra km beyond 5 km upto 20 km					
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					
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 hardwood 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					
		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
		Planting					
11	02.09.27	ii) 45 cm <sup>3</sup>	100 No.	1666	363.37	100	6054
	02.09.29	Replacement of Casualties: 20% during Raising Year. The casualty 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	No.	333	96.79	100	322
14		- 5 to 20Kms	No.	333	50.70	100	169
15		c) Internal transportation	No.	333	76.25	100	254
16		d) Planting	No.	333	363.37	100	1210
		Fertilizer Application for boosting growth					
17		Cost of DAP @ 25 gm / planting point (1666 x 25 / 1000/ 50 = 0.833)	Bag	0.833	1400	1	1166



Sl 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	1666	32.62	100	543
		<b>WEEDING &amp; SOIL WORKING</b>					
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					
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.	Ha	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
						<b>Total</b>	<b>61539</b>

or 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.

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 Kaghaznagar



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

Sl 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.	<b>1<sup>ST</sup> YEAR MAINTAINANCE</b>					
	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 ( <i>Hyptis suaveolens</i> ) 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
	02.10.05	Inter-ploughing (during September) the effective plantation area (excluding unsuitable patches) across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough. This operation shall be carried out after	Ha	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	To be done by the staff (plantation-in-charge) with the help of Plantation Watcher				
	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
						<b>Total</b>	<b>32730</b>

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.

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Kaghaznagar



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

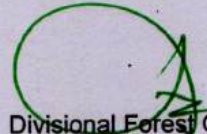
Sl No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
1	2	3	4	5	6	7	8
	02.11.	<b>2<sup>ND</sup> YEAR MAINTAINANCE</b>					
	02.11.01	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the 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. <b>Minimum stocking of 90% and average minimum height of 3 m at</b>	To be done by the staff (plantation-in-charge) with the help of Plantation Watcher				
	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
							<b>19800</b>

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)

OR 34630 Per Ha.

  
 Divisional Forest Officer,  
 Kaghaznagar



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

Sl 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.						
	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	To be done by the staff (plantation-in-charge) with the help of Plantation Watcher				
	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

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)  
 34630.32 As per FSR 2020-21 (15% Escalation charges added)  
 39824.87 As per FSR 2021-22 (15% Escalation charges added)

OR 39825 Per Ha.

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Kaghaznagar



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

Sl 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.						
	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	To be done by the staff (plantation-in-charge) with the help of Plantation Watcher				
	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

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)
34630.32	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.

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

Sl 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.						
	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. <b>Minimum stocking of 90% and average minimum height of 3 m at</b>	To be done by the staff (plantation-in-charge) with the help of Plantation Watcher				
	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
							<b>19800</b>

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)
34630.32	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 2023-14 (15% Escalation charges added)

OR 52668 Per Ha.

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Kaghaznagar



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

Sl 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.						
	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	To be done by the staff (plantation-in-charge) with the help of Plantation Watcher				
	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

UNIT RATE :

or 19800.00 per Ha

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.

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

Sl 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.						
	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	To be done by the staff (plantation-in-charge) with the help of Plantation Watcher				
	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

UNIT RATE :

or 19800.00 per Ha

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.

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

SI 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.						
	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	To be done by the staff (plantation-in-charge) with the help of Plantation Watcher				
	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

UNIT RATE :

or 19800.00 per Ha

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)
60568.66	As per FSR 2024-25 (15% Escalation charges added)
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.

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

Sl 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.						
	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	To be done by the staff (plantation-in-charge) with the help of Plantation Watcher				
	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

UNIT RATE :

or 19800.00 per Ha

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)
60568.66	As per FSR 2024-25 (15% Escalation charges added)
69653.96	As per FSR 2025-26 (15% Escalation charges added)
80102.05	As per FSR 2026-27 (15% Escalation charges added)
92117.36	As per FSR 2027-28 (15% Escalation charges added)

OR 92117 Per Ha.

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

Sl 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.						
	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	To be done by the staff (plantation-in-charge) with the help of Plantation Watcher				
	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

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)
34630.32	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)
80102.04	As per FSR 2026-27 (15% Escalation charges added)
92117.35	As per FSR 2027-28 (15% Escalation charges added)
105934.95	As per FSR 2028-29 (15% Escalation charges added)

OR 105935 Per Ha.

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Kaghaznagar



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

Sl. No.	FSR item No	Nature of work	Qty	Rate	Unit		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		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	Ha	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 casualties.	1,666	18.75	1	Pit	31238
7		Misc expenditure					180
		<b>SUB-TOTAL</b>					<b>38294</b>

OR

**38300****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 Forest Officer,  
Kaghaznagar

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

Sl No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (In Rs)	Per	Amount
1	2	3	4	5	6	7	8
		<b>PLANTATION</b>					
		<b>II RAISING OF BLOCK PLANTATIONS</b>					
	02.01.	<b>LABOUR INTENSIVE METHOD (LI METHOD)</b>					
	02.02.	<b>PLANTING OPERATIONS DURING RAISING YEAR</b>					
		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					
		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
		Internal transportation to planting points on head loads		1666			
6	02.02.11	15 X 30 cm (6"X12") bag plants	No.	1666	76.25	100	1270
		<b>PLANTING:</b> Seedlings of local species of secondary 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
		<b>Planting</b>					
9	02.02.16	ii) 45 cm <sup>3</sup>	No.	1666	363.366	100	6054
		<b>Replacement of Casualties</b>					
	02.02.17	Replacement of Casualties: 20% during Raising Year. The 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
13		c) Internal transporation	No.	333	76.25	100	254
14		d) Planting	No.	333	363.366	100	1210
		<b>Application of Fertilizers</b>					
15	02.02.18	Cost of DAP @ 25 gm / planting point ( 1666 * 25 /1000/ 50 = 0.833)	Bag	0.833	1400	1	1166
16	02.02.19	Application of fertilizer in August (30 days after planting) by making 3 holes of 10 cm depth with crow bar holes at a distance of 10 cm away from plant and putting fertilizers and closing. Ensure that the soil is really wet at the time of DAP application	No.	1666	32.62	100	543
		<b>WEEDING &amp; SOIL WORKING</b>					
17	02.02.20	a) 1 <sup>st</sup> circular weeding to a radius of 0.50 m around the plant after 30 days of planting (i.e. July - Aug)	No.	1666	103.79	100	1729
	02.02.21	b) 2nd circular weeding to a radius of 0.50 m around the plant after 90 days of planting (i.e. Sep - 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 (to be carried out during Nov - Dec)					
18	02.02.22	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)					
	02.02.25	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle.)	Ha	1	1215.43	1	1215
	02.02.25	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle.)	Ha	1	1215.43	1	1215



SI No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (In Rs)	Per	Amount
1	2	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.	1666	103.79	100	1729
	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	To be done by the staff (plantation-in-charge) with the help of Plantation Watcher				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)	Month	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 65 mm x 6 mm for length of 3.00 m) including construction of CC Boddu		1	A/A		400
						Total	38137

or 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.

Divisional Forest Officer,  
 Kaghaznagar



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

Sl 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.	<b>1<sup>ST</sup> YEAR MAINTAINANCE</b>					
	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% = 416 Nos)					
1	02.01.15	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	02.02.05	- 5 to 20 Kms (15 Km x 3.38)	No	416	50.70	100	211
4	02.02.11	c) Internal transportation	No	416	76.25	100	317
5	02.02.16	d) Planting	No	416	363.366	100	1512
		<b>WEEDING &amp; SOIL WORKING (To be carried out after replacement of casualties are over)</b>					
6	02.03.02	a) 1 <sup>st</sup> 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	i) For ordinary soil	100	1666	363.366	100	6054
		<del>Cutting of coppice growth</del> <i>cutting of coppice growth</i> must 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)					
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
11	02.10.04	Uprootal of Mahaveera ( <i>Hyptis suaveolens</i> ) 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
12	02.03.08	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height during October.	100 Nos	1666	103.194	100	1719
	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	To be done by the staff (plantation-in-charge) with the help of Plantation Watcher				
	02.03.10	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers 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)	Month	12	750	1	9000
13							
						<b>Total</b>	<b>34368</b>

or 34400.00 per Ha

**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 Per Ha.

Divisional Forest Officer,  
Kagahaznagar

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

Sl No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
1	2	3	4	5	6	7	8
	<b>02.04.</b>	<b>SECOND YEAR MAINTAINANCE</b>					
		<b>WEEDING &amp; SOIL WORKING</b>					
	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)					
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	Ha	1	1215.43	1	1215
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	Ha	1	1215.43	1	1215
	02.04.07	Enumeration of row-wise survival and average growth thrice in 2 <sup>nd</sup> Maintenance 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 indigenous 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 maintenance.	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 maintenance period.	Month	12	750	1	9000
						<b>Total</b>	<b>20942</b>
						or 21000.00	per Ha

## 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)
36729.14	As per FSR 2020-21 (15% Escalation charges added)

OR 36729 Per Ha.

Divisional Forest Officer,  
Kaghaznagar



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

Sl No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (In Rs)	Per	Amount
1	2	3	4	5	6	7	8
	02.04.						
		<b>WEEDING &amp; SOIL WORKING</b>					
	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)					
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	Ha	1	1215.43	1	1215
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	Ha	1	1215.43	1	1215
	02.04.07	Enumeration of row-wise survival and average growth thrice in 2 <sup>nd</sup> Maintenance 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 indigenous 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 maintenance.	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 maintenance period.	Month	12	750	1	9000
						<b>Total</b>	<b>20943</b>
						or 21000.00	per Ha

## 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.

Divisional Forest Officer,  
Kaghaznagar



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

Sl No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
1	2	3	4	5	6	7	8
	02.04.						
		<b>WEEDING &amp; SOIL WORKING</b>					
	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)					
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	Ha	1	1215.43	1	1215
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	Ha	1	1215.43	1	1215
	02.04.07	Enumeration of row-wise survival and average growth thrice in 2 <sup>nd</sup> Maintenance 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 indigenous 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 maintenance.	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 maintenance period.	Month	12	750	1	9000
						<b>Total</b>	<b>20943</b>

or 21000.00

per Ha

**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.

Divisional Forest Officer,  
Kaghaznagar



**UNIT COST FOR 5<sup>th</sup> YEAR MAINTENANCE OF C.A. PLANTATION FOR 2023-24 UNDER LABOUR INTENSIVE METHOD**  
(3m X 2m espacement)

Sl No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (In Rs)	Per	Amount
1	2	3	4	5	6	7	8
	02.04.						
		<b>WEEDING &amp; SOIL WORKING</b>					
	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)					
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	Ha	1	1215.43	1	1215
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	Ha	1	1215.43	1	1215
	02.04.07	Enumeration of row-wise survival and average growth thrice in 2 <sup>nd</sup> Maintenance 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 indigenous 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 maintenance.	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 maintenance period.	Month	12	750	1	9000
						<b>Total</b>	<b>20943</b>
						or 21000.00	per Ha

## 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)

OR 55860 Per Ha.

Divisional Forest Officer,  
Kaghaznagar

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**UNIT COST FOR 6<sup>th</sup> YEAR MAINTENANCE OF C.A. PLANTATION FOR 2024-25 UNDER LABOUR INTENSIVE METHOD**  
**-(3m X 2m espacement)**

Sl No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
1	2	3	4	5	6	7	8
	<b>02.04.</b>						
		<b>WEEDING &amp; SOIL WORKING</b>					
	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)					
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	Ha	1	1215.43	1	1215
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	Ha	1	1215.43	1	1215
	02.04.07	Enumeration of row-wise survival and average growth thrice in 2 <sup>nd</sup> Maintenance 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 indigenous 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 maintenance.	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 maintenance period.	Month	12	750	1	9000
						<b>Total</b>	<b>20943</b>
						<b>or 21000.00</b>	<b>per Ha</b>

## 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)
64239.48	As per FSR 2024-25 (15% Escalation charges added)

OR 64239 Per Ha.

Divisional Forest Officer,  
Kaghaznagar

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**UNIT COST FOR 7<sup>th</sup> YEAR MAINTENANCE OF C.A. PLANTATION FOR 2025-26 UNDER LABOUR INTENSIVE METHOD**  
**{3m X 2m espacement}**

Sl No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
1	2	3	4	5	6	7	8
	02.04.						
		<b>WEEDING &amp; SOIL WORKING</b>					
	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)					
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	Ha	1	1215.43	1	1215
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	Ha	1	1215.43	1	1215
	02.04.07	Enumeration of row-wise survival and average growth thrice in 2 <sup>nd</sup> Maintenance 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 indigenous 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 maintenance.	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 maintenance period.	Month	12	750	1	9000
						<b>Total</b>	<b>20943</b>
						or 21000.00	per Ha

## 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)
64239.48	As per FSR 2024-25 (15% Escalation charges added)
73875.40	As per FSR 2025-26 (15% Escalation charges added)

OR 73875 Per Ha.

Divisional Forest Officer,  
Kagaznagar

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

Sl No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
1	2	3	4	5	6	7	8
	02.04.						
		<b>WEEDING &amp; SOIL WORKING</b>					
	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)					
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	Ha	1	1215.43	1	1215
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	Ha	1	1215.43	1	1215
	02.04.07	Enumeration of row-wise survival and average growth thrice in 2 <sup>nd</sup> Maintenance 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 indigenous 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 maintenance.	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 maintenance period.	Month	12	750	1	9000
						<b>Total</b>	<b>20943</b>
						or 21000.00	per Ha

## 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)
64239.48	As per FSR 2024-25 (15% Escalation charges added)
73875.40	As per FSR 2025-26 (15% Escalation charges added)
84956.71	As per FSR 2026-27 (15% Escalation charges added)

OR 84957 Per Ha.

Divisional Forest Officer,  
Kag haznagar

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

Sl No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
1	2	3	4	5	6	7	8
	02.04.						
		<b>WEEDING &amp; SOIL WORKING</b>					
	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)					
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	Ha	1	1215.43	1	1215
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	Ha	1	1215.43	1	1215
	02.04.07	Enumeration of row-wise survival and average growth thrice in 2 <sup>nd</sup> Maintenance 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 indigenous 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 maintenance.	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 maintenance period.	Month	12	750	1	9000
						<b>Total</b>	<b>20943</b>
						or 21000.00	per Ha

**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)
64239.48	As per FSR 2024-25 (15% Escalation charges added)
73875.40	As per FSR 2025-26 (15% Escalation charges added)
84956.71	As per FSR 2026-27 (15% Escalation charges added)
97700.22	As per FSR 2027-28 (15% Escalation charges added)

OR 97700 Per Ha.

Divisional Forest Officer,  
Kaghnaznagar

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**UNIT COST FOR 10<sup>th</sup> YEAR MAINTENANCE OF C.A. PLANTATION FOR 2028-29 UNDER LABOUR INTENSIVE METHOD**  
**-(3m X 2m espacement)**

Sr No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (In Rs)	Per	Amount
1	2	3	4	5	6	7	8
	<b>02.04.</b>						
		<b>WEEDING &amp; SOIL WORKING</b>					
	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)					
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	Ha	1	1215.43	1	1215
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	Ha	1	1215.43	1	1215
	02.04.07	Enumeration of row-wise survival and average growth thrice in 2 <sup>nd</sup> Maintenance 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 indigenous 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 maintenance.	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 maintenance period.	Month	12	750	1	9000
						<b>Total</b>	<b>20943</b>
						or 21000.00	per Ha

**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)
64239.48	As per FSR 2024-25 (15% Escalation charges added)
73875.40	As per FSR 2025-26 (15% Escalation charges added)
84956.71	As per FSR 2026-27 (15% Escalation charges added)
97700.22	As per FSR 2027-28 (15% Escalation charges added)
112355.25	As per FSR 2028-29 (15% Escalation charges added)

OR 112355 Per Ha.

Divisional Forest Officer,  
Kaghnaznagar

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

Sl. No.	FSR Item No	Nature of work	Qty	Rate	Unit		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	Plantation	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	Ha	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
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 casualties.	400	18.75	1	Pit	7500
8		Misc expenditure					202
		<b>SUB-TOTAL</b>					<b>13262</b>

OR 13300

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.

Divisional Forest Officer,  
Kaghaznagar



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

Sl No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (In Rs)	Per	Amount
1	2	3	4	5	6	7	8
		<b>PLANTATION</b>					
		<b>II RAISING OF BLOCK PLANTATIONS</b>					
	02.01.	<b>LABOUR INTENSIVE METHOD (LI METHOD)</b>					
	02.02.	<b>PLANTING OPERATIONS DURING RAISING YEAR</b>					
		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.	400	96.79	100	387
		From nursery to plantation site - Beyond 5 Km lead					
		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.	400	50.70	100	203
		Internal transportation to planting points on head loads		400			
6	02.02.11	15 X 30 cm (6"X12") bag plants	No.	400	76.25	100	305
		<b>PLANTING:</b> Seedlings of local species of secondary 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.	400	32.62	100	130
8	02.02.14	Cost of SSP, Chloridine dust (50 gm) or Chloropyriphos (50 g x 400 / 1000 / 50 = 0.40 Bags)	Bag	0.40	500	1	200
		<b>Planting</b>					
9	02.02.16	ii) 45 cm <sup>3</sup>	No.	400	363.366	100	1453
		<b>Replacement of Casualties</b>					
	02.02.17	Replacement of Casualties: 20% during Raising Year. The 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% = 7.49)	Each	80	7.49	1	599
11		b) Transportation of Seedlings- up to 5Kms	No.	80	96.79	100	77
12		- 5 to 20Kms	No.	80	50.70	100	41
13		c) Internal transporation	No.	80	76.25	100	61
14		d) Planting	No.	80	363.366	100	291
		<b>Application of Fertilizers</b>					
15	02.02.18	Cost of DAP @ 25 gm / planting point ( 400 * 25 / 1000 / 50 = 0.200)	Bag	0.200	1400	1	280
16	02.02.19	Application of fertilizer in August (30 days after planting) by making 3 holes of 10 cm depth with crow bar holes at a distance of 10 cm away from plant and putting fertilizers and closing. Ensure that the soil is really wet at the time of DAP application	No.	400	32.62	100	130
		<b>WEEDING &amp; SOIL WORKING</b>					
17	02.02.20	a) 1 <sup>st</sup> circular weeding to a radius of 0.50 m around the plant after 30 days of planting (i.e. July - Aug)	No.	400	103.79	100	415
	02.02.21	b) 2nd circular weeding to a radius of 0.50 m around the plant after 90 days of planting (i.e. Sep - 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 (to be carried out during Nov - Dec)					
18	02.02.22	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)					
	02.02.25	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle.)	Ha	1	1215.43	1	1215
	02.02.25	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle.)	Ha	1	1215.43	1	1215



Sl No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (In Rs)	Per	Amount
1	2	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	To be done by the staff (plantation-in-charge) with the help of Plantation Watcher				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)	Month	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 65 mm x 6 mm for length of 3.00 m) including construction of CC Boddu		1	A/A		365
						Total	16400

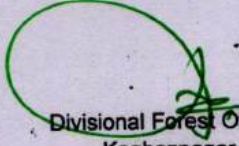
or 16400.00

16400.00 As per FSR 2016-17

18860.00 As per FSR 2017-18 (15% Escalation charges added)

21689.00 As per FSR 2018-19 (15% Escalation charges added)

21689 Per Ha.

  
 Divisional Forest Officer,  
 Kaghaznagar



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

Sl 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.	<b>1<sup>ST</sup> YEAR MAINTAINANCE</b>					
	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)					
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 transportation	No	100	76.25	100	76
5	02.02.16	d) Planting	No	100	363.366	100	363
		<b>WEEDING &amp; SOIL WORKING (To be carried out after replacement of casualties are over)</b>					
6	02.03.02	a) 1 <sup>st</sup> 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
		Cutting or 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 -					
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	Pruning of lower branch initials of Timber and NTFP species by sciculture upto 1/3 rd height during 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	To be done by the staff (plantation-in-charge) with the help of Plantation Watcher				
	02.03.10	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers 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)	Month	12	750	1	9000
13							
					Total		16211

or 16200.00 per Ha

## 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 24638 Per Ha.

Divisional Forest Officer,  
 Kaghaznagar,



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

Sr No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (In Rs)	Per	Amount
1	2	3	4	5	6	7	8
	<b>02.04.</b>	<b>SECOND YEAR MAINTAINANCE</b>					
		<b>WEEDING &amp; SOIL WORKING</b>					
	<b>02.04.01</b>	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>02.04.02</b>	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.					
	<b>02.04.03</b>	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)					
	<b>02.04.06</b>	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	Ha	1	1215.43	1	1215
	<b>02.04.06</b>	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	Ha	1	1215.43	1	1215
	<b>02.04.07</b>	Enumeration of row-wise survival and average growth thrice in 2 <sup>nd</sup> Maintenance 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 indigenous 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 maintenance.	To be done by the staff (plantation-in-charge) with the help of Plantation Watcher				
	<b>02.04.08</b>	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 maintenance period.	Month	12	750	1	9000
						<b>Total</b>	<b>13713</b>
						<b>or 13700.00</b>	<b>per Ha</b>

## 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,  
Kagaznagar



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

Sl No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
1	2	3	4	5	6	7	8
	02.04.						
		<b>WEEDING &amp; SOIL WORKING</b>					
	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.					
	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)					
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	Ha	1	1215.43	1	1215
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	Ha	1	1215.43	1	1215
	02.04.07	Enumeration of row-wise survival and average growth thrice in 2 <sup>nd</sup> Maintenance 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 indigenous 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 maintenance.	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 maintenance period.	Month	12	750	1	9000
						<b>Total</b>	<b>13714</b>
						or	13700.00 per Ha

## 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)

OR 27555 Per Ha.

Divisional Forest Officer,  
Kagaznagar



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

Sl No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
1	2	3	4	5	6	7	8
	<b>02.04.</b>						
		<b>WEEDING &amp; SOIL WORKING</b>					
	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.					
	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)					
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	Ha	1	1215.43	1	1215
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	Ha	1	1215.43	1	1215
	02.04.07	Enumeration of row-wise survival and average growth thrice in 2 <sup>nd</sup> Maintenance 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 indigenous 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 maintenance.	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 maintenance period.	Month	12	750	1	9000
						<b>Total</b>	<b>13714</b>
						or 13700.00	per Ha

## 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,  
Kaghnaznagar



**UNIT COST FOR 5<sup>th</sup> YEAR MAINTENANCE OF C.A. PLANTATION FOR 2023-24 UNDER ANR METHOD (LI) (400 plants per Ha)**

S/No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (In Rs)	Per	Amount
1	2	3	4	5	6	7	8
	02.04.						
		<b>WEEDING &amp; SOIL WORKING</b>					
	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.					
	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)					
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	Ha	1	1215.43	1	1215
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	Ha	1	1215.43	1	1215
	02.04.07	Enumeration of row-wise survival and average growth thrice in 2 <sup>nd</sup> Maintenance 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 indigenous 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 maintenance.	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 maintenance period.	Month	12	750	1	9000
						<b>Total</b>	<b>13714</b>
						or 13700.00	per Ha

**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)

OR 36442 Per Ha.

Divisional Forest Officer,  
Kaghnaznagar



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

Sl No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (In Rs)	Per	Amount
1	2	3	4	5	6	7	8
	02.04.						
		<b>WEEDING &amp; SOIL WORKING</b>					
	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.					
	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)					
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	Ha	1	1215.43	1	1215
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	Ha	1	1215.43	1	1215
	02.04.07	Enumeration of row-wise survival and average growth thrice in 2 <sup>nd</sup> Maintenance 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 indigenous 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 <sup>st</sup> 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 2 <sup>nd</sup> year is at least 80% stocking during 2 <sup>nd</sup> year of maintainance period.	Month	12	750	1	9000
						<b>Total</b>	<b>13714</b>
						or 13700.00	per Ha

## 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)
41908.62	As per FSR 2024-25 (15% Escalation charges added)

OR 41909 Per Ha.

Divisional Forest Officer,  
Kaghnaznagar



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

Sl No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
1	2	3	4	5	6	7	8
	02.04.						
		<b>WEEDING &amp; SOIL WORKING</b>					
	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.					
	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)					
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	Ha	1	1215.43	1	1215
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	Ha	1	1215.43	1	1215
	02.04.07	Enumeration of row-wise survival and average growth thrice in 2 <sup>nd</sup> Maintenance 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 indigenous 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 maintenance.	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 maintenance period.	Month	12	750	1	9000
						<b>Total</b>	<b>13714</b>
						or 13700.00	per Ha

## 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)
41908.62	As per FSR 2024-25 (15% Escalation charges added)
48194.91	As per FSR 2025-26 (15% Escalation charges added)

OR. 48195 Per Ha.

Divisional Forest Officer,  
Kagahaznagar

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

Sl No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
1	2	3	4	5	6	7	8
	<b>02.04.</b>						
		<b>WEEDING &amp; SOIL WORKING</b>					
	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.					
	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)					
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	Ha	1	1215.43	1	1215
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	Ha	1	1215.43	1	1215
	02.04.07	Enumeration of row-wise survival and average growth thrice in 2 <sup>nd</sup> Maintenance 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 indigenous 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 maintenance.	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 maintenance period.	Month	12	750	1	9000
						<b>Total</b>	<b>13714</b>
						or 13700.00	per Ha

## 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)
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)

OR 55424 Per Ha.

Divisional Forest Officer,  
Kaghnaznagar

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

Sl. No.	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
1	2	3	4	5	6	7	8
	02.04.						
		<b>WEEDING &amp; SOIL WORKING</b>					
	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.					
	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)					
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	Ha	1	1215.43	1	1215
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	Ha	1	1215.43	1	1215
	02.04.07	Enumeration of row-wise survival and average growth thrice in 2 <sup>nd</sup> Maintenance 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 indigenous 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 maintenance.	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 maintenance period.	Month	12	750	1	9000
						<b>Total</b>	<b>13714</b>
						or 13700.00	per Ha

## 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)
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)
63737.77	As per FSR 2027-28 (15% Escalation charges added)

OR 63738 Per Ha.

Divisional Forest Officer,  
Kaghnaznagar

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**UNIT COST FOR 10<sup>th</sup> YEAR MAINTENANCE OF C.A. PLANTATION FOR 2028-29 UNDER ANR METHOD (LI) (400 plants per Ha)**

Sl No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
1	2	3	4	5	6	7	8
	02.04.						
		<b>WEEDING &amp; SOIL WORKING</b>					
	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.					
	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)					
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	Ha	1	1215.43	1	1215
	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle)	Ha	1	1215.43	1	1215
	02.04.07	Enumeration of row-wise survival and average growth thrice in 2 <sup>nd</sup> Maintenance 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 indigenous 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 maintenance.	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 maintenance period.	Month	12	750	1	9000
						<b>Total</b>	<b>13714</b>
						or 13700.00	per Ha

## 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)
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)
63737.77	As per FSR 2027-28 (15% Escalation charges added)
73298.44	As per FSR 2028-29 (15% Escalation charges added)

OR 73298 Per Ha.

Divisional Forest Officer,  
Kaghaznagar

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