

ABSTRACT FOR RAISING OF NURSERY AND PLANTATION IN C.A. LAND IN SY. NO. 65 OF KOTHUR (V) OF TALAMADUGU MANDAL EXTENT AREA 92.3934 HA., SY. NO.90 OF LINGI VILLAGE OF TALAMADUGU MANDAL EXTENT AREA 47.6833 HA, SY.NO. 51 OF LIMGUDA (V) OF TAMSİ MANDAL EXTENT AREA 94.0583 HA, SY.NO. 265, 238 OF KOTHUR (V) OF JAINATH MANDAL EXTENT AREA 21.4342 HA, SY.NO. 3 OF YAPALGUDA (V) OF ADILABAD MANDAL EXTENT AREA 16.9755 HA, SY.NO. 44 OF HATTIGHAT (V) OF JAINATH MANDAL EXTENT AREA 11.0986 HA, SY.NO. 8 OF KACHKANTI (V) OF ADILABAD MANDAL EXTENT AREA 3.6686 HA, SY.NO. 47 KORATIKAL-b (V) OF NEREDIGONDA MANDAL EXTENT AREA 5.4967 HA, SY.NO. 62 OF MANNUR (V) OF GUDIHATNOOR MANDAL EXTENT AREA 18.2315 HA, SY.NO. 206 OF BAZARHATNOOR (V) OF BAZARHATNOOR MANDAL EXTENT AREA 25.1765 HA, SY.NO. 35 OF GUBBA (V) OF ECHODA MANDAL EXTENT AREA 7.56 HA AND SY.NO. 70 OF KARATHWADA (V) OF BOATH MANDAL EXTENT AREA 6.6787 HA TOTAL TO AN EXTENT AREA 350.4591 HA (865.634 ACRES) IN ADILABAD DIVISION, IN LIEU OF THE DIVERSION OF FOREST LAND FOR DR. B.R. AMBEDKAR PRANAHITHA CHEVELLA SUJALA SRAVANTHI PROJECT IN BELLAMPALLY AND KAGAZNAGR DIVISIONS IN ADILABAD DISTRICT.

1.0 INTRODUCTION

The Superintending Engineer, Irrigation & CAD Department, Bellampally has submitted the proposals for diversion of forest land for Dr. B.R. Ambedkar Pranahitha Chevella Sujala Sravanthi Project in Bellampally and Kagaznagar Divisions in Adilabad District. In this regard, the land identified for Compensatory Afforestation is in Adilabad Division and the Prl. Chief Conservator of Forests, (HoFF) Telengana, Hyderabad, Rc.No. 10205/2016-FCA-1/TS dt. 22.07.2016 has communicated the list of Sy. No's to an extent of 350.4591 Ha. towards Compensatory Afforestation purpose as follows.

Sl.No.	Mandal	Village	Sy.No.	Extent in Ha
1	Talamadugu	Kothur	65	92.3934
2	Talamadugu	Lingi	90	47.6833
3	Tamsi	Limguda	51	94.0583
4	Jainath	Kothur	265, 238	21.4342
5	Adilabad	Yapalguda	3	16.9755
6	Jainath	Hattighat	44	11.0986
7	Adilabad	Kachkanti	8	3.6686
8	Neredigonda	Koratal (B)	47	5.4967
9	Gudihathnoor	Mannur	62	18.2315
10	Bazarhathnoor	Bazarhathnoor	206	25.18
11	Echoda	Gubba	35	7.5638
12	Boath	Karathwada	70	6.6787
	Total			350.4591 Ha

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1.1 Accordingly 350.4591 Ha of land in above Sy. No's was allotted under CA. The area proposed for CA is having existing tree growth and coppice growth with the species like *Butea monosperma*, *Tectona grandis* & *Cassia fistula*. The area is undulating hillock with minor streams passing through it and covered with mostly red morrum and black cotton soil and rocky patches.

1) **Compensatory Afforestation:** The proposed CA land is an extent of 350.4591 Ha. The area is mostly hillock with rocky patches and gentle slope for which Protection and SMC like, CCT, Checkdams, Percolation tanks and Chainlink mesh fence around CA areas are proposed which includes providing of Watch and Ward and SMC works along with regeneration with afforestation plantation. 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).

The proposals have been prepared with a cost of Rs 40,39,27,000/-. The year wise scheme proposals are as hereunder (Appendix – II)

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

Sl.No.	Year	Financial (in Rs)
1	2016-17	9394001
2	2017-18	86077603
3	2018-19	36276037
4	2019-20	27276436
5	2020-21	15229339
6	2021-22	17406101
7	2022-23	19347473
8	2023-24	22186260
9	2024-25	25447795
10	2025-26	29195367
11	2026-27	33501914
12	2027-28	38450392
13	2028-29	44137645
	TOTAL	403926363
	OR	403927000

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The Compensatory Afforestation scheme is prepared over an area of 350.4591 Ha for a period of 10 years basing on the Forest Schedule of Rates for the year 2016-17 of Zone-II 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 has to be released during the year 2016-17.

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, i.e., 350.4591 Ha. The plantations will be taken up with the Indigenous Secondary hard wood Species and its associates mixed with local NTFP species like Bamboo, Vepa, Teak etc and with fuel wood, fodder and locally suitable NTFP species.

3.0 ELEMENTS OF THE PROJECT

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

I.No.	Mandal	Village	Sy.No.	Extent in Ha
1	Talamadugu	Kothur	65	92.3934
2	Talamadugu	Lingi	90	47.6833
3	Tamsi	Limguda	51	94.0583
4	Jainath	Kothur	265, 238	21.4342
5	Adilabad	Yapalguda	3	16.9755
6	Jainath	Hattighat	44	11.0986
7	Adilabad	Kachkanti	8	3.6686
8	Neredigonda	Koratal (B)	47	5.4967
9	Gudihathnoor	Mannur	62	18.2315
10	Bazarhathnoor	Bazarhathnoor	206	25.18
11	Echoda	Gubba	35	7.5638
12	Boath	Karathwada	70	6.6787
	Total			350.4591 Ha

3.2 NAME OF THE SCHEME

Compensatory Afforestation in lieu of diversion of forest land for " Dr. B.R. Ambedkar Pranahitha Chevella Sujala Sravanthi Project in Bellampally and Kagaznagar divisions of Adilabad District".

3.3 SITUATION

The proposed Compensatory Afforestation areas as shown in the above statement are situated in Adilabad division and fit for CA scheme. .

3.4 GEOLOGY

The geology of the proposed area for Compensatory Afforestation is 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 lateritic 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. There is continuous erosion of top soil due to undulating terrain and disturbing biotic factors.

General distribution of soils in the division

Black cotton soils 63 % Mostly in Boath, Echoda Ranges; partly of Adilabad and Utnoor Ranges.

Chalka and Red Soils 27% Mostly in Indervelly, Utnoor partly in Adilabad Range

Sandy loams and other 5% Mostly in Utnoor / Echoda and Indervelly Ranges.

Saline & Alkaline soils 2% Scattered and spread over 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 :

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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 shrub vegetation of *Butea monosperma* *Tectona grandis*, and *Cassia fistula*, etc.

3.9 AGENCY RESPONSIBLE FOR AFFORESTATION:

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

3.10 DETAILS OF WORK SCHEDULE PROPOSED FOR COMPENSATORY AFFORESTATION

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

2016-17	i.	Raising of Primary Beds Nursery
	ii.	Infrastructure Development of Nurseries.
2017-18	i.	Raising of Primary Beds Nursery
	ii.	Raising & Conversion of bag nursery
	iii.	Advance Operations
	iv	Soil and Moisture conservation works
	v	ANR works
	vi	Infrastructure Development of Nurseries Construction
	vii	Erection of Chainlink mesh fence
	viii	Construction of Boundary pillars
2018-19	i	Raising & Conversion of bag nursery
	ii	Maintenance of Nurseries
	iii	Raising of Plantation
	iv	SMC works
	v	Construction of boundary pillars
2019-20	i.	Nursery maintenance
	ii	1 st year maintenance of plantation
	iii.	Construction of boundary pillars
2020-21	i.	2nd year maintenance of plantation
2021-22	i	3 rd Year maintenance of plantation
2022- 23	i.	4 th year maintenance of plantation
2023- 24	i.	5 th year maintenance of plantation
2024- 25	i.	6 th year maintenance of plantation

2025- 26	i.	7 th year maintenance of plantation
2026- 27	i.	8 th year maintenance of plantation
2027- 28	i.	9 th year maintenance of plantation
2028- 29	i.	10 th year maintenance of plantation

3.11 COST STRUCTURE:

A compensatory afforestation scheme for **Rs. 40,39,27,000/-** is prepared (Appendix-I). The year wise expenditure will be as hereunder.

Sl.No.	Year	Financial (in Rs)
1	2016-17	9394001
2	2017-18	86077603
3	2018-19	36276037
4	2019-20	27276436
5	2020-21	15229339
6	2021-22	17406101
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11	2026-27	33501914
12	2027-28	38450392
13	2028-29	44137645
	TOTAL	403926363
	OR	403927000

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 undulating hillock with rocky patches and minor streams. It is proposed to take up afforestation under Labour Intensive Method, which coppices of clearance of unwanted growth, heaping the bushes, with Indigenous Secondary hard wood Species and its associates mixed with local NTFP species like Bamboo, Vepa, Teak etc and with fuel wood, fodder and locally suitable NTFP species. Protect the plantation from biotic interference by providing cattle proof trench / chain link mesh fence, watch and ward

and from fire by way of control, burning of the fire lines. The plantation would be maintained for (10) years after planting.

4.1 COST STRUCTURE OF PLANTATIONS :

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

4.2 PROVISION OF FUNDS :

The funds for the Compensatory Afforestation have to be deposited by the user agency i.e., SE I&CADD Division, Bellampally in favour of Telangana Forest Department. These funds will be utilized by the Divisional Forest Officer, Adilabad 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 planting targets fixed in the area identified for the Compensatory Afforestation to an extent of **350.4591 Ha.** in Adilabad Division is 9,83,000 seedlings.

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

Sl. No	Range	CA land village area	Area proposed in Ha	Method	Requirement of Seedlings (L 1) (3m x 2m) (2000 Per Ha)
				L 1 (3m x 2m)	
1	2	3	4	5	6
1	Adilabad	Kottur	92.3934	92.3934	184787
2	Adilabad	Lingi	47.6833	47.6833	95367
3	Adilabad	Linguda	94.0583	94.0583	188117
4	Adilabad	Kottur	21.4342	21.4342	42868
5	Adilabad	Yapalguda	16.9755	16.9755	33951
6	Adilabad	Hattighat	11.0986	11.0986	22197
7	Adilabad	Kachikanti	3.6686	3.6686	7337
8	Boath	Koritikal	5.4967	5.4967	10993
9	Echoda	Mannur	18.2315	18.2315	36463

10	Baath	Bazarhatnoor	25.1765	25.1765	50353
11	Echoda	Gubba	7.5638	7.5638	15128
12	Boath	Karatwada	6.6787	6.6787	13357
			350.4591	350.4591	700918
		Add 10%			70092
		Total			771010
		Replacement of Casualties for 1st year (25%)			192753
		Add 10%			19275
		Total			212028
		Grand Total			983038

5.1 OFFICE EXPENSES AND CONTINGENCIES¹RECURRING :

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

5.2 CAPITAL EXPENDITURE NON – RECURRING

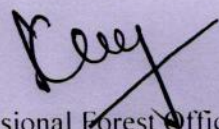
No amount is proposed towards non-recurring expenditure

5.3 SCHEME PERIOD :

This scheme will be implemented over a period of (7) years commencing from 2015-16. 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.


Divisional Forest Officer,
Adilabad

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SI 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	3m x 2m LI method	0	0	0	0	0	0	0	19576645	0	0	0	0	0	19576645
10	6th Year maintenance of plantation (Area in Ha.)														
	3m x 2m LI method	0	0	0	0	0	0	0	0	22513142	0	0	0	0	22513142
11	7th Year maintenance of plantation (Area in Ha.)														
	3m x 2m LI method	0	0	0	0	0	0	0	0	0	25890166	0	0	0	25890166
12	8th Year maintenance of plantation (Area in Ha.)														
	3m x 2m LI method	0	0	0	0	0	0	0	0	0	0	29773954	0	0	29773954
13	9th Year maintenance of plantation (Area in Ha.)														
	3m x 2m LI method	0	0	0	0	0	0	0	0	0	0	0	34239854	0	34239854
14	10th Year maintenance of plantation (Area in Ha.)														
	3m x 2m LI method	0	0	0	0	0	0	0	0	0	0	0	0	39375832	39375832
15	Development and improvement and extension of Nursery infrastructure for CA scheme	8100000	3125000	0	0	0	0	0	0	0	0	0	0	0	11225000
16	Erection of chainlink mesh fence	0	26369500	0	0	0	0	0	0	0	0	0	0	0	26369500
17	Construction of boundary pillars	0	4000000	4600000	4628750	0	0	0	0	0	0	0	0	0	13228750
18	Project Monitoring Unit (PMU) at FDO, Adilabad	0	2500000	0	0	0	0	0	0	0	0	0	0	0	2500000
a)	Construction of PMU at FDO, Adilabad	0	1000000	0	0	0	0	0	0	0	0	0	0	0	1000000
b)	Infrastructure to PMU at FDO, Adilabad	0	396000	415800	436590	458420	481342	252705	265340	278607	292537	307164	322522	338648	4245675
c)	Engaging of Computer Operators	0	396000	415800	436590	458420	481342	252705	265340	278607	292537	307164	322522	338648	4245675
d)	Hiring of jeep	0	25000	26000	27000	28000	29000	30000	31000	32000	33000	34000	35000	36000	366000
19	Project Monitoring Unit (PMU) at Circle, Adilabad														
a)	Construction of PMU at FDO, Adilabad	2500000	0	0	0	0	0	0	0	0	0	0	0	0	2500000
b)	Infrastructure to PMU at FDO, Adilabad	1000000	0	0	0	0	0	0	0	0	0	0	0	0	1000000
c)	Engaging of Computer Operators	396000	415800	436590	458420	481342	252705	265340	278607	292537	307164	322522	338648	36000	4245675
d)	Hiring of jeep	25000	26000	27000	28000	29000	30000	31000	32000	33000	34000	35000	36000	366000	366000
20	Sub-Total	8540000	78252366	32978214	24796759	13844852	15823726	17588610	20169325	23134356	26541240	30456282	34954898	40125128	367205756
	Administrative Cost 10%	854001	7825237	3297823	2479677	1384487	1582375	1758863	2016935	2313439	2654127	3045632	3495494	4012517	36720607
	TOTAL:	9394001	86077603	36276037	27276436	15228339	17406101	19347473	22186260	25447795	29195367	33501914	38450392	44137645	403926363

Or 403927000
4039.270
40.393
Lakhs
Crores

Divisional Forest Officer,
Adilabad

APPENDIX - I

ABSTRACT FOR RAISING OF NURSERY AND PLANTATION IN C.A. LAND IN SY. NO. 65 OF KOTHUR (V) OF TALAMADUGU MANDAL EXTENT AREA 92.3934 HA., SY. NO.90 OF LINGI VILLAGE OF TALAMADUGU MANDAL EXTENT AREA 47.8833 HA, SY. NO. 51 OF LIMGUDA (V) OF TAMSI MANDAL EXTENT AREA 94.0583 HA, SY. NO. 265, 238 OF KOTHUR (V) OF JAINATH MANDAL EXTENT AREA 21.4342 HA, SY. NO. 3 OF YAPALGUDA (V) OF ADILABAD MANDAL EXTENT AREA 16.9755 HA, SY. NO. 44 OF HATTIGHAT (V) OF JAINATH MANDAL EXTENT AREA 11.0986 HA, SY. NO. 8 OF KACHKANTI (V) OF ADILABAD MANDAL EXTENT AREA 3.6686 HA, SY. NO. 47 KORATIKAL-b (V) OF NEREDIGONDA MANDAL EXTENT AREA 5.4967 HA, SY. NO. 62 OF MANNUR (V) OF GUDIHATNOOR MANDAL EXTENT AREA 18.2315 HA, SY. NO. 206 OF BAZARHATNOOR (V) OF BAZARHATNOOR MANDAL EXTENT AREA 25.1785 HA, SY. NO. 35 OF GUBBA (V) OF ECHODA MANDAL EXTENT AREA 7.5638 HA AND SY. NO. 70 OF KARATHWADA (V) OF BOATH MANDAL EXTENT AREA 6.6787 HA. TOTAL TO AN EXTENT AREA 350.4591 HA (865.634 ACRES) IN ADILABAD DIVISION, IN LIEU OF THE DIVERSION OF FOREST LAND FOR DR. B.R. AMBEDKAR PRANAHITHA CHEVELLA SUJALA SRAVANTHI PROJECT IN BELLAMPALLY AND KAGAZNAGR DIVISIONS IN ADILABAD DISTRICT.

Sl. No.	Item of work	YEAR WISE REQUIREMENT OF FUNDS																	
		2016-17			2017-18			2018-19			2019-20			2020-21			2021-22		
		Qty.	Rate	Amount	Qty.	Rate	Amount	Qty.	Rate	Amount	Qty.	Rate	Amount	Qty.	Rate	Amount	Qty.	Rate	Amount
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	Raising of Nursery & Plantation:																		
	a) Primary beds	500	880	440000	500	1012	506000												
	b) Raising and Convesion of Nursery				7.72	9.79	7557880	2.12	11.26	2387120									
2	Maintenance of Nursery							7.72	3.49	2694280	2.12	4.02	852240						
3	Advance operations (Area in Ha.)																		
	3m x 2m LI method				350.4591	44045	15435971												
4	Raising of plantation (Area in Ha.)																		
	3m x 2m LI method							350.4591	50916	17843976									
	a) SMC works							350.4591		4569238									
	b) Construction of Check dams				5		3967500												
	c) Formation of Percolation tanks				78		7141500												
	d) Saplings of desirable species in natural forests, weeding of miscellaneous growth				140184		2307015												
5	1st Year maintenance of plantation (Area in Ha.)																		
	3m x 2m LI method										350.4591	52470	18388589						
6	2nd Year maintenance of plantation (Area in Ha.)																		
	3m x 2m LI method													350.4591	36729	12872012			
7	3rd Year maintenance of plantation (Area in Ha.)																		
	3m x 2m LI method																350.4591	42239	14803042
8	4th Year maintenance of plantation (Area in Ha.)																		
	3m x 2m LI method																		
9	5th Year maintenance of plantation (Area in Ha.)																		
	3m x 2m LI method																		
10	6th Year maintenance of plantation (Area in Ha.)																		
	3m x 2m LI method																		

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Sl. No.	Item of work	YEAR WISE REQUIREMENT OF FUNDS																	
		2016-17			2017-18			2018-19			2019-20			2020-21			2021-22		
		Qty.	Rate	Amount	Qty.	Rate	Amount	Qty.	Rate	Amount	Qty.	Rate	Amount	Qty.	Rate	Amount	Qty.	Rate	Amount
		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
11	7th Year maintenance of plantation (Area in Ha.)																		
	3m x 2m LI method																		
12	8th Year maintenance of plantation (Area in Ha.)																		
	3m x 2m LI method																		
13	9th Year maintenance of plantation (Area in Ha.)																		
	3m x 2m LI method																		
14	10th Year maintenance of plantation (Area in Ha.)																		
	3m x 2m LI method																		
15	Development and improvement and extension of Nursery infrastructure for CA scheme																		
16	Erection of chainlink mesh fence	5		8100000	2		3125000												
17	Construction of boundary pillars						26369500												
18	Project Monitoring Unit (PMU) at FDO, Adilabad				400	10000	4000000	400	11500	4600000	350	13225	4628750						
	a) Construction of PMU at FDO, Adilabad				1		2500000												
	b) Infrastructure to PMU at FDO, Adilabad				2	198000	3960000	2	207900	415800	2	218295	436590	2	229210	458420	2	240671	481342
	c) Engaging of Computer Operators				1	25000	25000	1	26000	26000	1	27000	27000	1	28000	28000	1	29000	29000
	d) Hiring of jeep				1		2500000												
19	Project Monitoring Unit (PMU) at Circle, Adilabad				1		1000000												
	a) Construction of PMU at FDO, Adilabad				2	198000	396000	2	207900	415800	2	218295	436590	2	229210	458420	2	240671	481342
	b) Infrastructure to PMU at FDO, Adilabad				1	25000	25000	1	26000	26000	1	27000	27000	1	28000	28000	1	29000	29000
	c) Engaging of Computer Operators				1		2500000												
	d) Hiring of jeep				1		1000000												
20	Sub-Total				1	198000	396000	2	207900	415800	2	218295	436590	2	229210	458420	2	240671	481342
	Administrative Cost 10%				1	25000	25000	1	26000	26000	1	27000	27000	1	28000	28000	1	29000	29000
	TOTAL:			8540005			78252374			32978225			24796773			13844869			15823746
				854001			7825237			3297823			2479677			1384487			1582375
				9394006			86077611			36276048			27276450			15229356			17406121

931

Sl. No.	Item of work	YEAR WISE REQUIREMENT OF FUNDS																								Total				
		2022-23				2023-24				2024-25				2025-26				2026-27				2027-28					2028-29			
		Qty	Rate	Amount	Qty	Rate	Amount	Qty	Rate	Amount	Qty	Rate	Amount	Qty	Rate	Amount	Qty	Rate	Amount	Qty	Rate	Amount	Qty	Rate	Amount					
1	2	21	22	23		24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41		42					
	Raising of Nursery & Plantation:																													
	a) Primary beds																								946000					
	b) Raising and Convesion of Nursery																								9945000					
	Maintenance of Nursery																								3546520					
3	Advance operations (Area in Ha.)																								0					
	3m x 2m LI method																								15435971					
4	Raising of plantation (Area in Ha.)																								0					
	3m x 2m LI method																								17843976					
	a) SMC works																								4569238					
	b) Construction of Check dams																								3967500					
	c) Formation of Percolation tanks																								7141500					
	d) Saplings of desirable species in natural forests, weeding of miscellaneous growth																								2307015					
																									0					
																									0					
	1st Year maintenance of plantation (Area in Ha.)																								18388589					
	3m x 2m LI method																								0					
	2nd Year maintenance of plantation (Area in Ha.)																								12872012					
	3m x 2m LI method																								0					
																									0					
7	3rd Year maintenance of plantation (Area in Ha.)																								0					
	3m x 2m LI method																								14803042					
																									0					
	4th Year maintenance of plantation (Area in Ha.)																								0					
	3m x 2m LI method	350 4591	48574	17023200																					17023200					
																									0					
9	5th Year maintenance of plantation (Area in Ha.)																								0					
	3m x 2m LI method																								19576645					
																									0					
1	6th Year maintenance of plantation (Area in Ha.)																								22513142					
	3m x 2m LI method																								0					

Or	403927000	
	4039.270	Lakhs
	40.393	Crores

Page 4

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

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
	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.							
	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	4.00	
	01.01.03	Digging soil of the demarcated beds of 1x1x0.30 m size	1	Bed	33.26	1	33.00	
	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	25.45	
	01.01.05	For every extra km beyond 5 km upto 25 km(20x 1.01=20.20)	1	Bed	20.2	1	20.20	
	01.01.06	Cost and transport of 0.025 cum FYM	1	Bed	21.87	1	21.87	
	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	9.45	
	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	10.80	
	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		0.00	
	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		500.00	
	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		0.00	
	01.01.12	Sowing of seed (finer seeds like Adina, Mitragyna, Anthocephalus etc. to be mixed with sand and bradcasted - 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	10.75	
	01.01.13	Watering the primary nursery beds with rose water cans twice daily for a maximum period of 2 months. (12.10 x 2 = 24.20)	1	Bed	24.20	1	24.20	
	01.01.14	Kerbing the primary beds all around with Content 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		200.00	
	01.01.15	Cost of chemicals, fungicide and insecticide			As per actuals limited to Rs. 1000/- per 1 lakh seedlings in primary bed stage		20.00	
	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		0.00	
							879.72	
							Or 880	Per Bed

Or **880** Per Bed

UNIT RATE :

880.00	As per FSR 2016-17
1012.00	As per FSR 2017-18 (15% Escalation charges added)
1163.80	As per FSR 2018-19 (15% Escalation charges added)

Key
Divisional Forest Officer,
Adilabad

937

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

Sl. No.	FSR item No	Nature of work	Qty		Rate	Unit	Amount	Remarks
	01.03.	BAG PLANT NURSERY: Seedlings need to be raised in 4"x7" (200 gauge) or 5"x9" (250 gauge) bags which are to be converted into 6"x12" (400 gauge) or 8"x12" (400 gauge) polybags. The seedlings are to be transplanted from primary beds in June - July. Hence the bags are to be filled during April-May when the soil is dry.						
		From July to October for 4 Months						
		Raising of Nursery in Polythene bags in sizes of 4"x7" (200 gauge) or 5"x9" (250 gauge) bags and arranging in secondary beds (Bed size: 10 X 1 M).						
	01.03.01	Site preparation for New Sites - Clearing of growth, uprootal of stumps and removal of surface stones, rubbish of all sorts etc.	30	Bed	44.12	1	1324	
		Cost of Polybags (including the cost of certification by): To ensure quality control, the quality of bags have to be certified by CIPET (Central Institute of Plastic Engineering & Technology), Hyderabad at the cost of tenderer by taking samples from various lots of polybags.						
	01.03.04	ii) 12.5 cm x 22.5 cm (5" x 9") size bags: 200 g 366 bags / kg	150	Kgs	159.00	1	23850	
		Cost and Transport of ingredients for Potting Mixture: (As per CSSR) Red Soil, tank-silt, FYM in 2:1:1 ratio. To this soil mixture, 220 gm of Indophyll M-45, 4.5 kg of single super phosphate (SSP) and 250 gm of phorate granules per 1 cum of potting mixture will be added. Cost of chemicals is as per actuals.						
		Transportation of soil mixture ingredients						
		a) Distance up to 5 km						
	01.03.06	12.5 cm x 22.5 cm (5" x 9") = 1.12 cum vol. for 1000 bags	50000	Bags	348.16	1000	17408	
		b) For every extra km beyond 5 km upto 25 km						
	01.03.08	12.5 cm x 22.5 cm (5" x 9") = 1.12 cum vol. for 1000 bags (20 Kms x 9.07 = 181.40)	50000	Bags	181.4	1000	9070	
		Preparation of Potting Mixture by powdering of various ingredients, sieving and mixing them in prescribed proportion; opening of bags and filling with potting mixture and gently pressing the same with finger tips and arranging in beds.						
	01.03.10	ii) 12.5 cm x 22.5 cm (5" x 9") size bags: 1700 bags / bed	50000	Bags	830.95	10000	4155	
	01.03.11	Allignment of beds including allignment of inspection paths etc	30	Bed	6.59	1	198	
	01.03.12	Pricking out seedlings from primary beds and transplanting into polybags	50000	Bags	122.74	1000	6137	
	01.03.13	Sowing / dibbling of pretreated seeds (e.g. Yegisa, Nalamadi, Yerumaddi etc.) directly into bags including cost of treatment	0	Bags	73.01	1000	0	
		Watering the plants twice a day from July - October						
	01.03.14	a) Manually with rose spray or finely perforated nozzle attached to a hose pipe for 4 Months	30	Bed / 4 months	238.19	1	28583	
	01.03.15	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	
		Weeding the plants from July to October (3 times)						
	01.03.16	1 st weeding - July	30	Bed / weeding	43.74	1	1312	
	01.03.17	2 nd weeding - Aug	30	Bed / weeding	43.74	1	1312	
	01.03.18	3 rd weeding - Sept	30	Bed / weeding	43.74	1	1312	
		Shifting, Grading and rearranging in beds of 10x1 m size beds (2600 no. of 4"x7"bags; 1700 no. of 5"x9" bags)						
	01.03.19	One Grading in Sept.	30	Bed / shifting	204.28	1	6128	
	01.03.20	Replacement of casualties after sorting out the empty bags and keeping at one end of the bed (maximum 10% of total stock is permissible)	3	Bed	58.00	1	174	

939

Sl. No.	FSR item No	Nature of work	Qty		Rate	Unit	Amount	Remarks
	01.03.21	Cost of foliar nutrient formulations like multiplex or NPK-19:19:19; fungicides and insecticides from July to Oct.		As per actuals with a maximum limit of Rs. 2000/ per 1 lakh polybag seedlings.			1000	
	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	
		Sub total					143597	
		CONVERSION of RT plants or 4"x7" or 5"x9" bag-plants into higher size bags - to be done during November - December. At the time of conversion, the height of the plants should be at least above 0.45m in height (excluding the height of polybag).						
		From November to March for 5 Months						
		Cost and Transport of ingredients for Potting Mixture: Red Soil, tank-silt, FYM in 2:1:1 ratio. To this soil mixture, 220 gm of Indophyll M-45, 4.5 kg of single super phosphate (SSP) and 250 gm of phorate granules per 1 cum of potting mixture will be added. Cost of chemicals is as per actuals.						
		Transportation of soil mixture ingredients						
		a) Distance up to 5 km						
	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) For every extra km beyond 5 km upto 25 km						
	01.03.33	v) 5" x 9" to 8" x 12" polybags (3.82 - 1.12 = 2.70 cum) (20 Km x 21.87 = 437.40)	50000	Nos/Km	437.4	1000	21870	
		Preparation of Potting Mixture by powdering of various ingredients, sieving and mixing them in prescribed proportion; opening of bags and filling with potting mixture partially, tearing the polybag plants and repotting them inside bigger bags and filling the rest of bags; gently pressing the same with finger tips and arranging in beds of 10x1 m size (6"x12" size: 1100 bag plants / bed and 8"x12" size": 800 bag plants per bed)						
	01.03.38	v) 5" x 9" to 8" x 12" polybags (3.82 - 1.12 = 2.70 cum)	50000	Nos	1478.68	1000	73934	
		Weeding the plants (1100 no. of 6"x12"bags; 800 no. of 8"x12" bags; and 400 no. of 10"x16" bags) from November - March: 2 weedings						
	01.03.44	1 st weeding - December	63	Bed / weeding	43.74	1	2756	
	01.03.45	2 nd 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	
		Watering the plants manually twice a day (from Novemebr - March) with rose spray or finely perforated nozzle attached to a hose pipe.						
	01.03.47	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	
	01.03.49	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	

e141

Sl. No.	FSR item No	Nature of work	Qty		Rate	Unit	Amount	Remarks
	Page No VIII of FSR 2016-17	Nursery Watcher from November to March for 5 Months	5	Month	5820	I	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					282137	
							425734	
		Gran total					425800	

Per 50000 Bags

or

425800

UNIT RATE :

425800.00 As per FSR 2016-17

489670.00 As per FSR 2017-18 (15% Escalation charges added)

563120.50 As per FSR 2018-19 (15% Escalation charges added)

OR

8.52 Per Plant - 2016-17

9.79 Per Plant - 2017-18

11.26 Per Plant - 2018-19

[Signature]
 Divisional Forest Officer,
 Adilabad

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

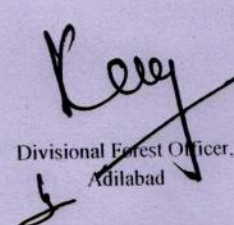
Sl. No.	FSR item No.	Nature of work	Qty		Rate	Unit	Amount	Remarks
	01.04.	MAINTAINANCE YEAR OF NURSERY						
		MAINTAINANCE OF BAG PLANTS NURSERY UPTO PLANTING SEASON (APRIL TO AUGUST) for 10 m X 1 m size secondary beds (2600 Nos of 4" X 7" bags; 1700 Nos of 5" X 9" bags; 1100 Nos. of 6" X 12" bags; 800 Nos. of 8" X 12" bags; 400 Nos. of 10" X 16" bags per bed)						
		Watering polybag secondary beds twice a day for 4 months						
	01.04.01	a) Manually with rose spray or finely perforated nozzle attached to a hose pipe (From April to July for 4 months)	63	Bed / 4 months	238.19	1	60024	
	01.04.03	Weeding once during maintenance year	63	Bed / weeding	43.74	1	2756	
	01.04.04	Shifting, grading and re-arranging in beds for 10 m X 1 m size bed <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	
		Cowdung Slurry application (One can apply chemical foliar spray or apply cowdung slurry - not both)						
	01.04.07	Preparation of cowdung slurry -	63	per 100 beds	As per actual subject to maximum of Rs. 1500/-		945	
	01.04.08	Application of cowdung slurry - only once between April to June - <i>Watering should not be done 12 hours before and after application of cowdung slurry treatment.</i>	50000	Nos	178.79	1000	8940	
	01.04.09	Weeding in the space between the beds, inspection path and surroundings of Nursery	63	Beds	24.03	1	1514	
	01.04.10	Contingencies for Maint. Year towards the expenditure like cost of hose pipe, nursery boards, electricity charges, running and maintenance charges of oil engines (Bills to be certified by ACF / DFO; and separate logbook for repair of motor or oil engine and store register for materials purchased.			As per actuals, subject to max. of 5% of estimate in Maint. Year.		6365	
	Page No VIII of FSR 2016-17	Nursery Watcher from April to July for 4 Months	4	Month	5820	1	23280	
							132000	

Per 50000 Bags or 132000

UNIT RATE :

132000.00 As per FSR 2016-17
 151800.00 As per FSR 2017-18 (15% Escalation charges added)
 174570.00 As per FSR 2018-19 (15% Escalation charges added)
 200755.50 As per FSR 2019-20 (15% Escalation charges added)

2.64 Per plant 2016-17
 3.04 Per plant 2017-18
 3.49 Per plant 2018-19
 4.02 Per plant 2019-20


 Divisional Forest Officer,
 Adilabad

aps

**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). 350.46 Ha @ 400 = 140184 samplings	140184	14 31	Per sampling	2006033	
			TOTAL:			2006033	
					or	2006100	

2006100 As per FSR 2016-17

2307015 As per FSR 2017-18 (15% Escalation charges added)

2653067 As per FSR 2018-19 (15% Escalation charges added)

3051027 As per FSR 2019-20 (15% Escalation charges added)

3051027

[Signature]
Divisional Forest Officer
Adilabad

947

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 SCTs for impounding rain water (Size: 6m length, 0.45m top width, 0.30m bottom width and 0.45m depth; earthwork volume per trench :1.012 cum) @ 50 no. per 1 Ha. (for 350.46 Ha.x 50= 17523 nos.) (17523 x 1.012=17733.276 cmt) in the plantation areas by manual.	17733.276	193.99	Per Cmt.	3440078	
2		Misc. like cost of implements				14922	
			TOTAL:			3455000	

3455000 As per FSR 2016-17

3973250 As per FSR 2017-18 (15% Escalation charges added)

4569238 As per FSR 2018-19 (15% Escalation charges added)

4569238

[Signature]
 Divisional Forest Officer
 Adilabad

aug

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

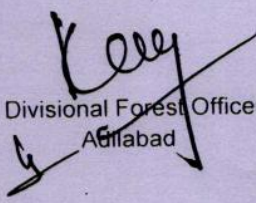
Sl. No.		Nature of work	Quantity	Rate	Unit	Amount	Remarks
1		Construction of Check dams	5	600000	P. No	3000000	
			TOTAL:			3000000	

3000000

3450000 As per SSR 2016-17 (15% Escalation charges added)

3967500 As per SSR 2017-18 (15% Escalation charges added)

3967500


Divisional Forest Officer
Amlabad

951

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	12	100000	P. No	1200000	
	c) Mini PTs	64	50000	P. No	3200000	
	TOTAL:	78			5400000	

5400000

6210000 As per SSR 2016-17 (15% Escalation charges added)

7141500 As per SSR 2016-17 (15% Escalation charges added)

7141500

[Signature]
 Divisional Forest Officer
 Adilabad

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 areas in 12 locations.	22930	1000	Per Rmt.	22930000	
			TOTAL:			22930000	

22930000

26369500 (15% Escalation charges added)for 2017-18)

[Signature]
Divisional Forest Officer
Adilabad

**Development and improvement and extention of Nursery infrastructure for
scheme**

CA

Sl. No	Range	Location of nursery	Item of work	Amount required
1.	Adilabad	Durganagar	Borewell & Motor	1.000
			Water tanks 2 Nos. with Pedastal	1.500
			Central water system	5.000
			Seed storage room	3.000
			Solar Power System for water Supply	8.000
			Barbed wire fencing	2.000
			Kerbing the primary beds all around with Cement Bricks (in permanent nurseries only) 50 Nos @ 1500/-	0.750
				21.250
2	Echoda	Dampur	Borewell & Motor	1.000
			Water tanks 2 Nos. with Pedastal	1.500
			Central water system	4.000
			Seed storage room	3.000
			Barbed wire fencing	2.000
			Kerbing the primary beds all around with Cement Bricks (in permanent nurseries only) 50 Nos @ 1500/-	0.750
				12.250
3	Boath	Pochera	Central water system	4.500
			Water tanks 2 Nos. with Pedastal	1.500
			Seed storage room	3.000
			Solar Power System for water Supply	8.000
			Kerbing the primary beds all around with Cement Bricks (in permanent nurseries only) 50 Nos @ 1500/-	0.750
				17.750
4	Tamsi	Tamsi	Borewell & Motor	1.000
			Water tanks 2 Nos. with Pedastal	1.500
			Central water system	4.500
			Seed storage room	3.000
			Barbed wire fencing	2.000
			Solar Power System for water Supply	8.000
			Kerbing the primary beds all around with Cement Bricks (in permanent nurseries only) 50 Nos @ 1500/-	0.750
				20.750
5	Indervelly	Indervelly Complex	Water tank 1Nos. with Pedastal	0.750
			Land levelling	2.000
			Central water system	2.500
			Seed storage room	3.000

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Development and improvement and extention of Nursery infrastructure for
scheme

CA

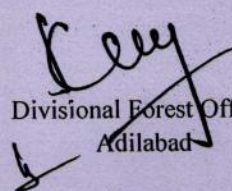
Sl. No	Range	Location of nursery	Item of work	Amount required
			Kerbing the primary beds all around with Cement Bricks (in permanent nurseries only) 50 Nos @ 1500/-	0.750
				9.000
6	Neradigonda	Neradigonda	Borewell & Motor	1.000
			Water tanks 2 Nos. with Pedastal	1.500
			Central water system	4.500
			Seed storage room	3.000
			Barbed wire fencing	2.000
			Solar Power System for water Supply	8.000
			Kerbing the primary beds all around with Cement Bricks (in permanent nurseries only) 50 Nos @ 1500/-	0.750
				20.750
7	Utnoor	Devnagar	Solar Power System for water Supply	8.000
			Drilling of Borewell with accessories	1.000
			Water tank 1 Nos. with Pedastal	0.750
			Kerbing the primary beds all around with Cement Bricks (in permanent nurseries only) 50 Nos @ 1500/-	0.750
				10.500
			Grand Total	112.250

[Signature]
Divisional Forest Officer,
Adilabad

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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

Sl. No	Range	CA land village area	Area proposed in Ha	Method	Requirement of Seedlings (L I) (3m x 2m) (2000 Per Ha)
				L I (3m x 2m)	
1	2	3	4	5	6
1	Adilabad	Kottur	92.3934	92.3934	184787
2	Adilabad	Lingi	47.6833	47.6833	95367
3	Adilabad	Linguda	94.0583	94.0583	188117
4	Adilabad	Kottur	21.4342	21.4342	42868
5	Adilabad	Yapalguda	16.9755	16.9755	33951
6	Adilabad	Hattighat	11.0986	11.0986	22197
7	Adilabad	Kachikanti	3.6686	3.6686	7337
8	Boath	Koritikal	5.4967	5.4967	10993
9	Echoda	Mannur	18.2315	18.2315	36463
10	Baath	Bazarhatnoor	25.1765	25.1765	50353
11	Echoda	Gubba	7.5638	7.5638	15128
12	Boath	Karatwada	6.6787	6.6787	13357
			350.4591	350.4591	700918
		Add 10%			70092
		Total			771010
		Replacement of Casualties for 1st year (25%)			192753
		Add 10%			19275
		Total			212028
		Grand Total			983038


 Divisional Forest Officer
 Adilabad

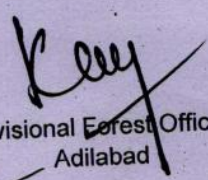
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UNIT COST FOR ENGAGING OF COMPUTER OPERATORS

Sl. No.	FSR Item No.	Nature of work	Quantity	Rate	Unit	Amount	Remarks
1		Engaging of Computer Operators for Project Monitoring Unit at FDO, Adilabad.	1	15000	Per Year.	180000	
			TOTAL:			180000	

180000 2016-17

198000 (15% Escalation charges added)for 2017-18)
 207900 (15% Escalation charges added)for 2018-19)
 218295 (15% Escalation charges added)for 2019-20)
 229210 (15% Escalation charges added)for 2020-21)
 240671 (15% Escalation charges added)for 2021-22)
 252705 (15% Escalation charges added)for 2022-23)
 265340 (15% Escalation charges added)for 2023-24)
 278607 (15% Escalation charges added)for 2024-25)
 292537 (15% Escalation charges added)for 2025-26)
 307164 (15% Escalation charges added)for 2026-27)
 322522 (15% Escalation charges added)for 2027-28)
 338648 (15% Escalation charges added)for 2028-29)


 Divisional Forest Officer
 Adilabad

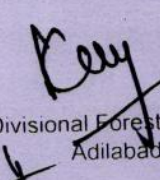
963

UNIT COST FOR ADVANCE OPERATIONS FOR CA SCHEME FOR 2017-18 UNDER LI 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		311.04
		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	1299.30
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	762.00
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	1111.89
5	02.01.09	Cost of preparation of stakes (0.45 m length) and transportation to site	1,666	47.30	100	Nos	788.02
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	31237.50
7		Misc expenditure					180
		SUB-TOTAL					38293.75
						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,
 Adilabad

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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
	PLANTATION						
	II	RAISING OF BLOCK PLANTATIONS					
	02.01.	LABOUR INTENSIVE METHOD (LI METHOD)					
	02.02.	PLANTING OPERATIONS DURING RAISING YEAR					
		Transportation of Planting Stock (including loading and unloading)					
		From nursery to plantation site - upto 5 Km lead	No.	1666	96.79	100	1613.00
1	02.02.02	15 X 30 cm (6"X12") bag plants					
		From nursery to plantation site - Beyond 5 Km lead					
		i) For every extra km beyond 5 km upto 25 km	No.	1666	67.60	100	1126
2	02.02.05	15 X 30 cm (6"X12") bag plants (20 x 3 38=67.60)					
		Internal transportation to planting points on head loads	No.	1666	76.25	100	1270
3	02.02.11	15 X 30 cm (6"X12") bag plants					
		PLANTING: 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)					
4	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
5	02.02.14	Cost of SSP, Chloridine dust (50 gm) or Chloropyriphos (50 g x 1666 / 1000 / 50 = 1.666 Bags)	Bag	1.666	500	1	833
		Planting	No.	1666	363.366	100	6054
6	02.02.16	ii) 45 cm ³					
		Replacement of Casualties					
	02.02.17	Replacement of Casualties: 20% during Raising Year. The casually 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.					
7		Trans	Each	333	7.49	1	2494
		a) Pitting (50% of Original Rate 14.98 x 50% = 7.49)	No.	333	96.79	100	322
8		b) Transportation of Seedlings- up to 5Kms	No.	333	67.60	100	225
9		- 5 to 25Kms	No.	333	76.25	100	254
10		c) Internal transportation	No.	333	363.366	100	1210
11		d) Planting					
		Application of Fertilizers					
12	02.02.18	Cost of DAP @ 25 gm / planting point (1666 * 25 / 1000 / 50 = 0.833)	Bag	0.833	1400	1	1166
13	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
		WEEDING & SOIL WORKING					
14	02.02.20	a) 1 st 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
15	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)	No.	1666	363.37	100	6054
16	02.02.22	i) For ordinary soil					
		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)					
17	02.02.25	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle.) (2 X 1215.43=2430.86)	Ha	1	2430.86	1	2431
18	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

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SI No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
1	2	3	4	5	6	7	8
19	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
20	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
21		Preparation and fixing of plantation board of standard size 6'x3' with iron Angulars, gauge 6 mm (Erected on 65 mm x 65 mm x 6 mm for length of 3.00 m) including construction of CC Bed.		1	A/A		400
						Total	38475

or 38500.00

38500.00 As per FSR 2016-17
 44275.00 As per FSR 2017-18 (15% Escalation charges added)
 50916.25 As per FSR 2018-19 (15% Escalation charges added)
 50916 Per Ha.

K. Singh
 Divisional Forest Officer,
 Adilabad

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

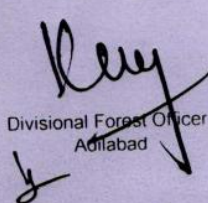
Sl No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
1	2	3	4	5	6	7	8
	02.10.	1ST YEAR MAINTAINANCE					
	02.03.01	Replacement of Casualties 25% in 1st year (In case of Eucalyptus - no casualty replacement). The list of all casualty points shall be prepared by concerned FRO by and made a report to DFO latest by end of May. The pitting of all such casualty points shall be over by end of June. The casualty replacement shall be completed by end of July. (1666 & 25% = 416 Nos)	No	416	14.98	1	6232
1	02.01.15	a) Pitting (Original Rate 14.98)	No	416	96.79	100	403
2	02.02.02	b) Transportation of Seedlings- up to 5Kms	No	416	67.60	100	281
3	02.02.05	- 5 to 25 Kms (20 Km x 3.38)	No	416	76.25	100	317
4	02.02.11	c) Internal transportation	No	416	363.366	100	1512
5	02.02.16	d) Planting					
		WEEDING & SOIL WORKING (To be carried out after replacement of casualties are over)					
6	02.03.02	a) 1 st 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 nd 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)	100	1666	363.366	100	6054
8	02.03.04	i) For ordinary soil 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)					
9	02.03.07	High rainfall zone ~ 800 mm (for Warangal, Khammam & Adilabad Circle) (2 x 1215.43 = 2430.86)	ha	1	2430.86	1	2431
10	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
11	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 st Maintanance 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				
12	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
						Total	34439

or 34500.00 per Ha

UNIT RATE :

34500.00 As per FSR 2016-17
 39675.00 As per FSR 2017-18 (15% Escalation charges added)
 45626.25 As per FSR 2018-19 (15% Escalation charges added)
 52470.19 As per FSR 2019-20 (15% Escalation charges added)

OR 52470 Per Ha.


 Divisional Forest Officer,
 Adilabad

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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)

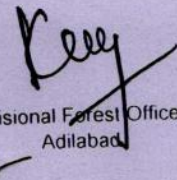
SI No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
1	2	3	4	5	6	7	8
	02.04.	SECOND YEAR MAINTAINANCE					
		WEEDING & SOIL WORKING					
1	02.04.01	a) 1 st circular weeding to a radius of 0.50 m around the plant during July - Aug.	No	1666	103.79	100	1729
2	02.04.02	b) 2 nd 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.					
3	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)					
4	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle) (2 x 1215.43=2430.86)	Ha	1	2430.86	1	2431
5	02.04.07	Enumeration of row-wise survival and average growth thrice in 2 nd 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				
6	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
						Total	20943

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,
 Adilabad

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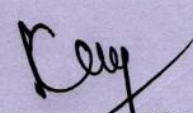
UNIT COST FOR 3rd YEAR MAINTENANCE OF C.A. PLANTATION FOR 2021-22 UNDER LABOUR INTENSIVE METHOD
-(3m X 2m espacement)

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.						
		WEEDING & SOIL WORKING					
1	02.04.01	a) 1 st circular weeding to a radius of 0.50 m around the plant during July - Aug.	No	1666	103.79	100	1729
2	02.04.02	b) 2 nd 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.					
3	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)					
4	02.04.06	High rainfall zone - 800 mm (for Warangal, Khammam & Adilabad Circle) (2 x 1215.43=2430.86)	Ha	1	2430.86	1	2431
5	02.04.07	Enumeration of row-wise survival and average growth thrice in 2 nd 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				
6	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
						Total	20943
						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)
42238.51	As per FSR 2021-22 (15% Escalation charges added)

OR 42239 Per Ha.


 Divisional Forest Officer,
 Adilabad

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UNIT COST FOR 4th YEAR MAINTENANCE OF C.A. PLANTATION FOR 2022-23 UNDER LABOUR INTENSIVE 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
	02.04.						
		WEEDING & SOIL WORKING					
1	02.04.01	a) 1 st circular weeding to a radius of 0.50 m around the plant during July - Aug.	No	1666	103.79	100	1729
2	02.04.02	b) 2 nd 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.					
3	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)					
4	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle) (2 x 1215.43=2430.86)	Ha	1	2430.86	1	2431
5	02.04.07	Enumeration of row-wise survival and average growth thrice in 2 nd 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				
6	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
						Total	20943

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)
42238.51	As per FSR 2021-22 (15% Escalation charges added)
48574.29	As per FSR 2022-23 (15% Escalation charges added)

OR 48574 Per Ha.


 Divisional Forest Officer,
 Adilabad

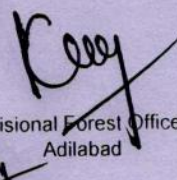
UNIT COST FOR 5th YEAR MAINTENANCE OF C.A. PLANTATION FOR 2023-24 UNDER LABOUR INTENSIVE METHOD
(3m X 2m espacement)

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.						
		WEEDING & SOIL WORKING					
1	02.04.01	a) 1 st circular weeding to a radius of 0.50 m around the plant during July - Aug.	No	1666	103.79	100	1729
2	02.04.02	b) 2 nd 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.					
3	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)					
4	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle) (2 x 1215.43=2430.86)	Ha	1	2430.86	1	2431
5	02.04.07	Enumeration of row-wise survival and average growth thrice in 2 nd 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				
6	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
						Total	20943
						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)
42238.51	As per FSR 2021-22 (15% Escalation charges added)
48574.29	As per FSR 2022-23 (15% Escalation charges added)
55860.43	As per FSR 2023-24 (15% Escalation charges added)

OR 55860 Per Ha.


 Divisional Forest Officer,
 Adilabad

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UNIT COST FOR 6th 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
	02.04.						
		WEEDING & SOIL WORKING					
1	02.04.01	a) 1 st circular weeding to a radius of 0.50 m around the plant during July - Aug.	No	1666	103.79	100	1729
2	02.04.02	b) 2 nd 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.					
3	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)					
4	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle) (2 x 1215.43=2430.86)	Ha	1	2430.86	1	2431
5	02.04.07	Enumeration of row-wise survival and average growth thrice in 2 nd 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				
6	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
						Total	20943

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)
42238.51	As per FSR 2021-22 (15% Escalation charges added)
48574.29	As per FSR 2022-23 (15% Escalation charges added)
55860.43	As per FSR 2023-24 (15% Escalation charges added)
64239.49	As per FSR 2024-25 (15% Escalation charges added)

OR 64239 Per Ha.


 Divisional Forest Officer,
 Adilabad

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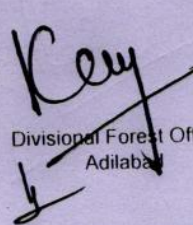
UNIT COST FOR 7th YEAR MAINTENANCE OF C.A. PLANTATION FOR 2025-26 UNDER LABOUR INTENSIVE METHOD
(3m X 2m espacement)

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.						
		WEEDING & SOIL WORKING					
1	02.04.01	a) 1 st circular weeding to a radius of 0.50 m around the plant during July - Aug.	No	1666	103.79	100	1729
2	02.04.02	b) 2 nd 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.					
3	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)					
4	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle) (2 x 1215.43=2430.86)	Ha	1	2430.86	1	2431
5	02.04.07	Enumeration of row-wise survival and average growth thrice in 2 nd 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				
6	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
						Total	20943
						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)
42238.51	As per FSR 2021-22 (15% Escalation charges added)
48574.29	As per FSR 2022-23 (15% Escalation charges added)
55860.43	As per FSR 2023-24 (15% Escalation charges added)
64239.49	As per FSR 2024-25 (15% Escalation charges added)
73875.41	As per FSR 2025-26 (15% Escalation charges added)

OR 73875 Per Ha.


 Divisional Forest Officer,
 Adilabad

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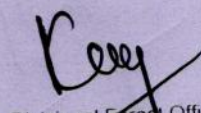
UNIT COST FOR 8th YEAR MAINTENANCE OF C.A. PLANTATION FOR 2026-27 UNDER LABOUR INTENSIVE METHOD
(-3m X 2m espacement)

SI No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
1	2	3	4	5	6	7	8
	02.04.						
		WEEDING & SOIL WORKING					
1	02.04.01	a) 1 st circular weeding to a radius of 0.50 m around the plant during July - Aug.	No	1666	103.79	100	1729
2	02.04.02	b) 2 nd 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.					
3	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)					
4	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle) (2 x 1215.43=2430.86)	Ha	1	2430.86	1	2431
5	02.04.07	Enumeration of row-wise survival and average growth thrice in 2 nd 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				
6	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
						Total	20943
						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)
42238.51	As per FSR 2021-22 (15% Escalation charges added)
48574.29	As per FSR 2022-23 (15% Escalation charges added)
55860.43	As per FSR 2023-24 (15% Escalation charges added)
64239.49	As per FSR 2024-25 (15% Escalation charges added)
73875.41	As per FSR 2025-26 (15% Escalation charges added)
84956.72	As per FSR 2026-27 (15% Escalation charges added)

OR 84957 Per Ha.


 Divisional Forest Officer,
 Adilabad

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

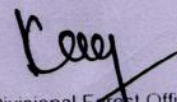
Sl No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
1	2	3	4	5	6	7	8
	02.04.						
		WEEDING & SOIL WORKING					
1	02.04.01	a) 1 st circular weeding to a radius of 0.50 m around the plant during July - Aug.	No	1666	103.79	100	1729
2	02.04.02	b) 2 nd circular weeding 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.					
3	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)					
4	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle) (2 x 1215.43=2430.86)	Ha	1	2430.86	1	2431
5	02.04.07	Enumeration of row-wise survival and average growth thrice in 2 nd 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				
6	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
						Total	20943

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)
42238.51	As per FSR 2021-22 (15% Escalation charges added)
48574.29	As per FSR 2022-23 (15% Escalation charges added)
55860.43	As per FSR 2023-24 (15% Escalation charges added)
64239.49	As per FSR 2024-25 (15% Escalation charges added)
73875.41	As per FSR 2025-26 (15% Escalation charges added)
84956.72	As per FSR 2026-27 (15% Escalation charges added)
97700.23	As per FSR 2027-28 (15% Escalation charges added)

OR 97700 Per Ha.


 Divisional Forest Officer,
 Adilabad

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

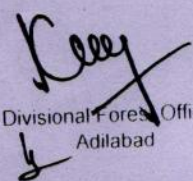
SI No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
1	2	3	4	5	6	7	8
	02.04.						
		WEEDING & SOIL WORKING					
1	02.04.01	a) 1 st circular weeding to a radius of 0.50 m around the plant during July - Aug.	No	1666	103.79	100	1729
2	02.04.02	b) 2 nd circular weeding 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.					
3	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)					
4	02.04.06	High rainfall zone > 800 mm (for Warangal, Khammam & Adilabad Circle) (2 x 1215.43=2430.86)	Ha	1	2430.86	1	2431
5	02.04.07	Enumeration of row-wise survival and average growth thrice in 2 nd 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 SCFs 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				
6	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
						Total	20943

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)
42238.51	As per FSR 2021-22 (15% Escalation charges added)
48574.29	As per FSR 2022-23 (15% Escalation charges added)
55860.43	As per FSR 2023-24 (15% Escalation charges added)
64239.49	As per FSR 2024-25 (15% Escalation charges added)
73875.41	As per FSR 2025-26 (15% Escalation charges added)
84956.72	As per FSR 2026-27 (15% Escalation charges added)
97700.23	As per FSR 2027-28 (15% Escalation charges added)
112355.26	As per FSR 2028-29 (15% Escalation charges added)

OR 112355 Per Ha.


 Divisional Forest Officer,
 Adilabad