

Year-wise detailed Abstract of CA scheme for twice the Degraded Forest Land to an extent 33.00 Ha in lieu of Diversion of 16.5099 Ha of forest land for construction of four Lining of NH 363 Hyderabad-Karimnagar-Chanda Road from Km 0.000 (Km 2511.900) to Km 94.602 (Km 342.000)- In favour of DGM (Tech) & Project Director, NHAI, PIU Nirmal in Asifabad Division.

Sl. No	Item of Work	Phy	Unit Cost 2018-19 (Rs.)	2019 - 20			2020 - 21			2021 - 22			2022 - 23			2023 - 24			2024 - 25			2025 - 26		
				Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
	Twice the extent of forest land proposed for diversion over Degraded Forest Land to an extent 32.50 Ha																							
	<b>A Raising of Plants in Nurseries &amp; their Maintenance</b>																							
1	Raising of Primary beds - cost for 100000 plants	Plant	0.238	61500	0.262	0.161	10200	0.288	0.029															
2	Raising of Bag Plants of 5"x9" - Cost 100000 plants	Plant	4.968	61500	5.465	3.361	10200	6.011	0.613															
3	Maintenance of Bag Plants of 5"x9" - Cost for 100000 plants	Plant	1.447				61500	1.750	1.076	10200	1.925	0.196												
4	Conversion of bag plants from 5"x9" to 8"x12" - Cost 100000 plants	Plant	12.681				61500	15.344	9.437	10200	16.879	1.722												
5	Maintenance of Bag Plants of 8"x12" - Cost for 100000 plants	Plant	3.048							61500	4.057	2.495	10200	4.453	0.455									
	Sub Total:					3.522			11.156			4.413			0.455			0.000			0.000			0.000
	<b>B Nursery and other Infrastructure</b>																							
	At Rebbena Nursery																							
6	Boreswell & Motor	No	350000	1	350000	3.500																		
7	Construction of sumps / RCC Over Head Tank	No	600000		800000	0.000	1	600000	6.000															
8	Pumphouse cum shed	No	500000		500000	0.000	1	500000	5.000															
9	Permanent primary beds (10MX1M)	No	10000	50	10000	5.000		10000	0.000															
10	Compound wall to Nursery	RMT	8019	200	8821	17.642	100	9703	9.703															
11	Running charges & Electricity charges for nurseries		100000		100000	1.000		100000	1.000															
12	Central water system HDPE Pipeline	No	100000		100000	1.000		100000	0.000															
	Sub Total:					28.142			21.703			0.000			0.000			0.000			0.000			0.000
	<b>C Planting activities (SMM) - 28.40 Ha</b>																							
13	Advance Operations	Ha	35241				33.00	42641.13	14.072															
14	Raising of Plantation	Ha	148674							33.00	197885.4	65.302												
15	1st Year Maintenance	Ha	43774										33.00	64089.90	21.150									
16	2nd Year Maintenance	Ha	24097													33.00	38808.46	12.807						
17	3rd Year Maintenance	Ha	18204																33.00	32249.53	10.642			
18	4th Year Maintenance	Ha	18204																			33.00	35474.49	11.707
19	5th Year Maintenance	Ha	8656																					
20	6th Year Maintenance	Ha	6255																					
21	7th Year Maintenance	Ha	1984																					
22	8th Year Maintenance	Ha	1583																					
23	9th Year Maintenance	Ha	1984																					
24	10th Year Maintenance	Ha	1583																					
	Sub Total:					0.000			14.072			65.302			21.150			12.807			10.642			11.707
	<b>D Forest Protection</b>																							
25	Construction of boundary pillars	No's	10000	0	11000	0.000	25	12100	3.025	0	13310	0.000												
26	Digging of CPT	km	167500	0	184250	0.000	3.420	202875	6.931															
27	Bund Planting	km	38733	0	42606	0.000	0	48867	0.000	3.420	51554	1.763			0.000			0.000			0.000			0.000
	Sub Total:					0.000			9.956			1.763			0.000			0.000			0.000			0.000
	<b>Total of DFL</b>					31.664			56.887			71.479			21.605			12.807			10.642			11.707
	<b>E Administrative Cost - 10% over core activities</b>					3.1664			5.6887			7.1479			2.1605			1.2807			1.0642			1.1707
	<b>Grand Total ( DFL+ Admn cost)</b>					34.830			62.575			78.627			23.765			14.087			11.707			12.877

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Sl. No	Item of Work	2026 - 27			2027 - 28			2028 - 29			2029 - 30			2030 - 31			2031-32			Grand Total		
		Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)	Phy	Unit Cost (Rs.)	Fin (Rs.in Lakhs)
1	2	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46
	Twice the extent of forest land proposed for diversion over Degraded Forest Land to an extent 32.50 Ha																					
A	Raising of Plants in Nurseries & their Maintenance																					
1	Raising of Primary beds - cost for 100000 plants																			71700		0.191
2	Raising of Bag Plants of 5"x9" - Cost 100000 plants																			71700		3.974
3	Maintenance of Bag Plants of 5"x9" - Cost for 100000 plants																			71700		1.273
4	Conversion of bag plants from 5"x9" to 8"x12" - Cost 100000 plants																			71700		11.158
5	Maintenance of Bag Plants of 8"x12" - Cost for 100000 plants																			71700		2.951
	Sub Total:			0.000			0.000			0.000			0.000			0.000			0.000			19.546
B	Nursery and other Infrastructure																					
	At Rebbena Nursery																					
6	Borewell & Motor																			1		3.500
7	Construction of sumps / RCC Over Head Tank																			1		6.000
8	Pumphouse cum shed																			1		5.000
9	Permanent primary beds (10MX1M)																			50		5.000
10	Compound wall to Nursery																			300		27.345
11	Running charges & Electricity charges for nurseries																			0		2.000
12	Central water system HDPE Pipeline																			0		1.000
	Sub Total:			0.000			0.000			0.000			0.000			0.000			0.000			49.845
C	Planting activities (SMM) - 28.40 Ha																					
13	Advance Operations																			33.00		14.072
14	Raising of Plantation																			33.00		65.302
15	1st Year Maintenance																			33.00		21.150
16	2nd Year Maintenance																			33.00		12.807
17	3rd Year Maintenance																			33.00		10.642
18	4th Year Maintenance																			33.00		11.707
19	5th Year Maintenance	33.00	18554.95	6.123																33.00		6.123
20	6th Year Maintenance				33.00	19464.91	6.423													33.00		6.423
21	7th Year Maintenance							33.00	5146.04	1.698										33.00		1.698
22	8th Year Maintenance										33.00	4516.54	1.490							33.00		1.490
23	9th Year Maintenance													33.00	6226.70	2.055				33.00		2.055
24	10th Year Maintenance																33.00	5465.01	1.803	33.00		1.803
	Sub Total:			6.123			6.423			1.698			1.490			2.055			1.803			155.273
D	Forest Protection																					
25	Construction of boundary pillars																			25		3.025
26	Digging of CPT																			3.420		6.931
27	Bund Planting																			3.420		1.763
	Sub Total:			0.000			0.000			0.000			0.000			0.000			0.000			11.720
	Total of DFL			6.123			6.423			1.698			1.490			2.055			1.803			236.383
E	Administrative Cost - 10% over core activities			0.6123			0.6423			0.1698			0.1490			0.2055			0.1803			23.638
	Grand Total ( DFL+ Admn cost)			6.735			7.066			1.868			1.640			2.260			1.984			260.022

Forest Division Officer,  
Asifabad



## **CA SCHEME**

**For Double Degraded Forest Land to an extent 33.00 Ha identified in Compt no.417 of Beat Tungeda of Section Takkalapally of Rebbena Range of Asifabad Division in lieu of Diversion of 16.5099Ha of forest land for construction of four Laning of NH 363 Hyderabad-Karimnagar-Chanda Road from Km 0.000 (Km 2511.900) to Km 94.602 (Km 342.000)- In favour of DGM (Tech) & Project Director, NHAI, PIU Nirmal.**

**Area: 33.00 Ha**

**Compt No: 417**

**Beat: Tungeda**

**Section: Takkalapally**

**Range: Rebbena**

**Division: Asifabad**

**District :Kumram Bheem Asifabad**

**Circle : Adilabad**

**CA scheme for Double Degraded Forest Land to an extent 33.00 Ha identified in Compt No.417 of Beat Tungeda of Section Takkalapally of Rebbena Range of Asifabad Division in lieu of Diversion of 16.5099 Ha of forest land for construction of four Laning of NH 363 Hyderabad-Karimnagar-Chanda Road from Km 0.000 (Km 2511.900) to Km 94.602 (Km 342.000)- In favour of DGM (Tech) & Project Director, NHAI, PIU Nirmal.**

## **1.0 INTRODUCTION:**

The DGM (Tech) & Project Director, NHAI, PIU Nirmal has submitted the proposals for Diversion of 16.1278 Ha of forest land for construction of four Laning of NH 363 Hyderabad-Karimnagar-Chanda Road from Km 0.000 (Km 2511.900) to Km 94.602 (Km 342.000)- In favour of DGM (Tech) & Project Director, NHAI, PIU Nirmal. In lieu of the RF area to be diverted in Asifabad Forest Division.

1.1 The Principal Chief Conservator of Forests ( HoFF) Telangana, Hyderabad vide Rc.No.18629/2016/ FCA-2 Dated: 23.06.2018 has requested to **CA scheme to be prepared twice the extent of forest land proposed for diversion over degraded forest land as per the guidelines issued under Forest ( Conservation) Act, 1980 for raising with 7-10 years maintenance.**

Accordingly, the Forest Range Officer, Rebbena has identified twice the degraded forest land to an extent of **33.00 Ha** in Compt no.417 of Beat Tungeda of Section Takkalapally of Rebbena Range falling in Tungeda R.F. for the purpose of CA.

1) **Compensatory Afforestation:** The double degraded forest land to an extent of **33.00 Ha.** is identified for takingup plantation with 3mx3m espacement in Compt. No. 417 of Beat Tungeda of Section Takkalapally of Rebbena Range for Protection with Digging of CPT and Bund planting are proposed and the details of Compensatory Afforestation scheme proposals are as follows.

### **Double Degraded Forest Land Area:**

SL No	Compt. No	Beat	Section	Range	Total Area Ha.	Name of the RF
1	417	Tungeda	Takkalapally	Rebbena	<b>33.00</b>	Tungeda

The proposals have been prepared with a cost of **Rs. 260.022 Lakhs**. The year wise scheme proposals are annexed.

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

The Compensatory Afforestation scheme is prepared over an area of **33.00 Ha** of Double Degraded Forest Land basing on the Forest Schedule of Rates for the year 2018-19 of Zone-II with an escalation of 10% for 2019-20 and with an annual escalation of 10% for the subsequent years, provided the funds are to be deposited and released during the year 2019-20.

Sl No	Year	Amount for Forestry Works ( In Lakhs)
1	2019-20	34.830
2	2020-21	62.575
3	2021-22	78.627
4	2022-23	23.765
5	2023-24	14.087
6	2024-25	11.707
7	2025-26	12.877
8	2026-27	6.735
9	2027-28	7.066
10	2028-29	1.868
11	2029-30	1.640
12	2030-31	2.260
13	2031-32	1.984
	<b>Total</b>	<b>260.022</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 of **33.00 Ha** is double degraded Forest Land which the area proposed for diversion for non-forestry purpose. The plantation in **33.00 Ha** DFL will be taken-up with the species like Teak, Gummadi Teak, Nalla Maddi, Somi, Narepa, Rose Wood etc., and with fuel wood, fodder and locally suitable NTFP species with 3m x3m espacement under semi mechanical method.

### **3.0 ELEMENTS OF THE PROJECT**

3.1. Details of the Degraded Forest Land is identified for raising compensatory Afforestation is as follows.

#### **Double Degraded Forest Land Area:**

SL No	Compt. No	Beat	Section	Range	Total Area Ha.	Name of the RF
1	417	Tungeda	Takkalapally	Rebbena	<b>33.00</b>	Tungeda

### **3.2 NAME OF THE SCHEME**

Compensatory Afforestation scheme over an area of 33.00 Ha. of double degraded forest land in compt No.417 of Beat Tungeda of Takkalapally Section of Rebbena Range Asifabad Division of Kumara Bheem Asifabad District in lieu of Diversion of 16.5099Ha of forest land for construction of four Laning of NH 363 Hyderabad-Karimnagar-Chanda Road from Km 0.000 (Km 2511.900) to Km 94.602 (Km 342.000)- In favour of DGM (Tech) & Project Director, NHAI, PIU Nirmal

### **3.3 SITUATION**

The proposed Compensatory Afforestation area for double degraded forest land to an extent of **33.00 Ha.** is identified for takingup plantation with 3mx3m espacement in Compt. No. 417 of Beat Tungeda of Takkalapally Section of Rebbena Range.

### **3.4 GEOLOGY**

The geology of the area proposed for Compensatory Afforestation is Gondwana formation supporting mixed forests.

### **3.5 SOIL**

The soil of the area proposed for Compensatory Afforestation is morram soil.

### **3.6 CLIMATE :**

The climate is fairly dry with very hot summer and cool winters. During summer, the temperature rises up to 47<sup>0</sup> 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 is quite common. Average annual rainfall is 1051 mm.

### **3.8 EXISTING VEGETATION:**

The Degraded Forest Land area having canopy density is about 0.1-0.4

### **3.9 AGENCY RESPONSIBLE FOR AFFORESTATION:**

The Afforestation programme will be implemented by the Telangana Forest Department through the Forest Divisional Officer, Asifabad

### **3.10 DETAILS OF WORK SCHEDULE PROPOSED FOR COMPENSATORY AFFORESTATION**

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

<b>Year</b>	<b>Proposed works</b>
2019-20	1) Raising of Primary Beds Nursery 2) Nursery infrastructure.
2020-21	1) Raising of Primary Beds Nursery 2) Raising and Conversion of Nursery 3) Maintenance of Nursery 4) Advance Operations for Plantation. 5) Digging of CPT 6) Nursery infrastructures. 7) Construction of boundary pillars
2021-22	1) Raising of Plantations 2) Maintenance of Nursery 3) Bund planting
2022-23	1) Maintenance of Nursery 2) 1st Year maintenance of plantation

2023-24	2nd Year maintenance of plantation
2024-25	3rd Year maintenance of plantation
2025-26	4th Year maintenance of plantation
2026-27	5th Year maintenance of plantation
2027-28	6th Year maintenance of plantation
2028-29	7th Year maintenance of plantation
2029-30	8th Year maintenance of plantation
2030-31	9th Year maintenance of plantation
2031-32	10th Year maintenance of plantation

### 3.11 COST STRUCTURE:

A Compensatory Afforestation scheme for **Rs. 260.022 Lakhs** is prepared. The year wise expenditure will be as hereunder.

Sl No	Year	Amount for Forestry Works (In Lakhs)
1	2019-20	34.830
2	2020-21	62.575
3	2021-22	78.627
4	2022-23	23.765
5	2023-24	14.087
6	2024-25	11.707
7	2025-26	12.877
8	2026-27	6.735
9	2027-28	7.066
10	2028-29	1.868
11	2029-30	1.640
12	2030-31	2.260
13	2031-32	1.984
	<b>Total</b>	<b>260.022</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 proposed to take up afforestation planting over an area of **33.00 Ha.** in Degraded Forest Land under Semi Mechanical Method in 3mx3m espacement with NTSHW species and with fuel wood, fodder and locally suitable NTFP species. The plantation will 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

#### **4.2 PROVISION OF FUNDS :**

The funds for the Compensatory Afforestation have to be deposited by the user agency in favour of Telangana Forest Department by following due procedure through e-payment method by generating the Challan from the Ministry's web portal ([www.forestsclearance.nic.in](http://www.forestsclearance.nic.in)). These funds will be utilized by the Forest Divisional Officer, Asifabad 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 double the Degraded Forest Land area identified for the Compensatory Afforestation to an extent of **33.00 Ha** of Asifabad Division, the details as follows.

Sl No	Compt. No	Beat	Section	Range	Total Area Ha.	Name of the RF
1	417	Tungeda	Takkalapally	Rebbena	33.00	Tungeda

The above Degraded Forest Land area is proposed to be raised under SMM as per site condition. The details are as follows.

Sl. No.	Division	Range	Beat	Area proposed		Requirement of Seedlings + casualties
1	Asifabad	Rebbena	Tungeda	33.00	Ha	
	<b>Requirement of seedlings</b>					
		<b>Raising year</b>	SMM Plantation- 3mx3m	33.00	Ha	49,000
			Bund plantation	3.420	KMs	12,500
		<b>1st year maint.</b>	Replacements for 1 <sup>st</sup> year	33.00	Ha	10,200
	<b>Total</b>					<b>71,700</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	33.00 Ha.	49,000 Seedlings.
2) For Bund plantations	3.420 Kms.	12,500 Seedlings.
3) For casualties in maintenance	33.00 Ha.	10,200 Seedlings
<b>Total</b>		<b>71,700 Seedlings</b>

### **5.1 OFFICE EXPENSES AND CONTINGENCIES RECURRING:**

The amount proposed towards office expenses, contingent expenses are appended

### **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 2019-20. The details of cash flow required for the entire project period for recurring and non recurring expenditure is furnished in annexure.

### **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.

  
Forest Divisional Officer,  
Asifabad