

CA scheme for Double Degraded Forest Land to an extent 147.00 Ha identified in Kaghaznagar Range and Sirpur Range of Kaghaznagar Division in lieu of permission in an area 189.6808 ha in Asifabad, Bellampally & Kaghaznagar Divisions for laying of new third BG railway line along the existing tracks within the railway boundary between Makhudi and Rechini road railway stations in Komarambheem Asifabad and Mancherial Districts in favor of South Central Railway, Secunderabad

1.0 INTRODUCTION:

The South Central Railway, Secunderabad has submitted the proposals for permission an area of **189.6808 ha** in Asifabad, Bellampally & Kaghaznagar Divisions for laying of new third BG railway line along the existing tracks within the railway boundary between Makhudi and Rechini road railway stations in Komarambheem Asifabad and Mancherial Districts in favor of South Central Railway, Secunderabad. In lieu of the RF area to be diverted in Kaghaznagar Forest Division.

Accordingly, the Forest Range Officer, Kaghaznagar and Sirpur have identified the double degraded forest land to an extent of 110.00 Ha of Kaghaznagar Range and 37.00 Ha in Sirpur Range for the purpose of CA. The comp wise details are as follows.

Sl No	Compt. No	Beat	Section	Range	Total Area Ha.	Name of the RF
1	69	Kaghaznagar	Kaghaznagar	Kaghaznagar	20.00	Garlapet Ext-IV
2	134	Raspally	Raspally	Kaghaznagar	30.00	Kadamba
3	152	Chedwai	Pothapally	Penchikalpet	25.00	Kadamba
4	137	Chedwai	Chedwai	Penchikalpet	35.00	Kadamba Ext-X
5	100	Kaniki	Koutala	Sirpur	15.00	Kadamba
6	100	Kaniki	Koutala	Sirpur	22.00	Kadamba
				Total	147.00	

1) 1) **Compensatory Afforestation:** The double degraded forest land to an extent of **147.00 Ha.** is identified for takingup plantation with 3mx3m espacement for Protection with Digging of CPT and Bund planting are proposed and the details of Compensatory Afforestation scheme proposals are as follows.

Degraded Forest Area:

Sl No	Compt. No	Beat	Section	Range	Total Area Ha.	Name of the RF
1	69	Kaghaznagar	Kaghaznagar	Kaghaznagar	20.00	Garlapet Ext-IV
2	134	Raspally	Raspally	Kaghaznagar	30.00	Kadamba
3	152	Chedwai	Pothapally	Penchikalpet	25.00	Kadamba
4	137	Chedwai	Chedwai	Penchikalpet	35.00	Kadamba Ext-X

5	100	Kaniki	Koutala	Sirpur	15.00	Kadamba
6	100	Kaniki	Koutala	Sirpur	22.00	Kadamba
				Total	147.00	

The proposals have been prepared with a cost of **Rs. 925.893 Lakhs.** The year wise scheme proposals are annexed as (Appendix).

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

The Compensatory Afforestation scheme is prepared over an area of **147.00 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	Forestry Works
1	2019-20	44.037
2	2020-21	160.067
3	2021-22	347.652
4	2022-23	105.867
5	2023-24	62.753
6	2024-25	52.147
7	2025-26	57.362
8	2026-27	30.003
9	2027-28	31.475
10	2028-29	8.321
11	2029-30	7.303
12	2030-31	10.069
13	2031-32	8.837
	Total	925.893

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 **147.00 Ha** is double degraded Forest Land which the area proposed for diversion for non-forestry purpose. The plantation in **147.00 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	69	Kaghaznagar	Kaghaznagar	Kaghaznagar	20.00	Garlapet Ext-IV
2	134	Raspally	Raspally	Kaghaznagar	30.00	Kadamba
3	152	Chedwai	Pothapally	Penchikalpet	25.00	Kadamba
4	137	Chedwai	Chedwai	Penchikalpet	35.00	Kadamba Ext-X
5	100	Kaniki	Koutala	Sirpur	15.00	Kadamba
6	100	Kaniki	Koutala	Sirpur	22.00	Kadamba
				Total	147.00	

3.2 NAME OF THE SCHEME

Compensatory Afforestation scheme for “laying of new third BG railway line along the existing tracks within the railway boundary between Makhudi and Rechini road railway stations in Komarambheem Asifabad and Mancherial Districts in favor of South Central Railway, Secunderabad”

3.3 SITUATION

The proposed Compensatory Afforestation area for double degraded forest land to an extent of **147.00 Ha.** is identified for takingup plantation with 3m x 3m espacement under Semi Mechanical Method in Kaghaznagar and Sirpur Ranges.

3.4 GEOLOGY

The area predominantly carries black cotton and Red loam soils derived from Deccan trap supporting teak and Archaean granite – gneiss complex giving reddish gravelly loam supporting good teak forests and also the Gondwana soils supporting mixed teak forests being more sandy. Humus is practically absent.

3.5 SOIL

The soils of area proposed for Compensatory Afforestation area is partially Red loam and Black Cotton soils.

General distribution of soils in the Division

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

3.6 CLIMATE :

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

3.7 RAINFALL :

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

3.8 EXISTING VEGETATION:

The 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, Kaghaznagar.

3.10 DETAILS OF WORK SCHEDULE PROPOSED FOR COMPENSATORY AFFORESTATION

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

Year	Proposed works
2019-20	Raising of Primary Beds Nursery Raising of Bag plants Nursery infrastructure.
2020-21	Raising of Primary Beds Nursery Raising and Conversion of Nursery Maintenance of Nursery Advance Operations for Plantation. Construction of boundary pillars
2021-22	Raising of Plantations Raising and Conversion of Nursery Maintenance of Nursery

	Bund planting
2022-23	Maintenance of Nursery 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.925.893 Lakhs** is prepared (Appendix). The year wise expenditure will be as hereunder.

SI No	Year	Forestry Works
1	2019-20	44.037
2	2020-21	160.067
3	2021-22	347.652
4	2022-23	105.867
5	2023-24	62.753
6	2024-25	52.147
7	2025-26	57.362
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9	2027-28	31.475
10	2028-29	8.321
11	2029-30	7.303
12	2030-31	10.069
13	2031-32	8.837
	Total	925.893

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 **147.00 Ha.** in Degraded Forest Land under Semi Mechanical Method in 3m x 3m 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 (**Appendix**).

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). These funds will be utilized by the Forest Divisional Officer, Kaghaznagar for raising nurseries, plantations and their maintenance as per the detailed annual plan after obtaining the approval and funds from the competent authority.

5.0 PLANTING TARGETS AND STAFF REQUIREMENT :

The DFL area identified for the Compensatory Afforestation to an extent of **147.00 Ha** of Kaghaznagar Division, the details as follows.

Sl No	Compt. No	Beat	Section	Range	Total Area Ha.	Name of the RF
1	69	Kaghaznagar	Kaghaznagar	Kaghaznagar	20.00	Garlapet Ext-IV
2	134	Raspally	Raspally	Kaghaznagar	30.00	Kadamba
3	152	Chedwai	Pothapally	Penchikalpet	25.00	Kadamba
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5	100	Kaniki	Koutala	Sirpur	15.00	Kadamba
6	100	Kaniki	Koutala	Sirpur	22.00	Kadamba
Total					147.00	

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

Sl. No.	Division	Requirement of seedlings		Area proposed		Requirement of Seedlings + casualties (20%)
	Kaghaznagar			147.00	Ha	
		Raising year	SMM Plantation- 3mx3m	147.00	Ha	1,96,000
			Bund plantation	16.050	KMs	53,000
		1st year maint.	Replacements for 1 st year (25%)	147.00	Ha	49,000
						2,98,000

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	147.00 Ha.	1,96,000 Seedlings.
2) For Bund plantations	16.050 Kms.	53,000 Seedlings.
3) For casualties in maintenance	147.00 Ha.	<u>49,000 Seedlings</u>
Total 2,98,000 Seedlings		

5.1 OFFICE EXPENSES AND CONTINGENCIES RECURRING:

The amount proposed towards office expenses, contingent expenses are appended (Appendix).

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 Appendix.

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
Kaghanagar