

CA scheme for Non Forest Land (NFL) for 81.4313 Ha in Sy.No. 322 of Pangidimadara village of Tiryani Mandal of Ginnehary Range of Asifabad Division and Development of Degraded Forest Land (DFL) for 71.00Ha in Kaghaznagar Division in lieu of Diversion of Forest land for (21) roads projects in Asifabad and Kaghaznagar Divisions of Kumuram Bheem-Asifabad District under LWE of Roads & Buidlings (R&B) Department.

1.0 INTRODUCTION:

The Principal Chief Conservator of Forests, (HoFF) Telangana, Hyderabad vide Rc.No. 6465/2018/ FCA-2, Dt:12.10.2021 has requested to prepare CA scheme over 81.4313 Ha for Non-forest land in Sy.No. 322 of Pangidimadara village of Tiryani Mandal of Ginnehary Range of Asifabad Division in lieu of Diversion of Forest land for (21) roads projects in Asifabad and Kaghaznagar Divisions of Kumuram Bheem-Asifabad District under LWE of Roads & Buidlings (R&B) Department of Kumuram Bheem-Asifabad District.

Sl No	Circle	District	Division	Name of the Proposals	CA land required in Ha
1	Adilabad	KB-Asifabad	Kagaznagar	Somini to Kammergaon	5.9631
2	Adilabad	KB-Asifabad	Kagaznagar	Sirpur to Methandani	11.7465
3	Adilabad	KB-Asifabad	Asifabad	BT Road from Raghavapur to Govena	2.3789
4	Adilabad	KB-Asifabad	Asifabad	BT Road from Govena to Jamuldhara	4.6537
5	Adilabad	KB-Asifabad	Asifabad	BT Road from Mangi to Dampur	10.07
6	Adilabad	KB-Asifabad	Asifabad	BT Road from Kereguda to Dampur	5.551
7	Adilabad	KB-Asifabad	Asifabad	BT Road from Gundala to Mangi	5.318
8	Adilabad	KB-Asifabad	Asifabad	BT Road from Kamana to Sarkepalli	2.516
9	Adilabad	KB-Asifabad	Asifabad	BT Road from Vanjariguda to Geethabanda	1.388
10	Adilabad	KB-Asifabad	Asifabad	BT Road from Movad to Chorpalli	7.0062
11	Adilabad	KB-Asifabad	Asifabad	BT Road from Movad to Koutan Movad	1.9351
12	Adilabad	KB-Asifabad	Asifabad	BT Road from Sirpur (U) to Devudpally	0.447
13	Adilabad	KB-Asifabad	Asifabad	BT Road from Pangidi to Madhura Thanda	3.037
14	Adilabad	KB-Asifabad	Kagaznagar	HLB on Dimda to Chittam at km 4/850	0.9332
15	Adilabad	KB-Asifabad	Kagaznagar	HLB on Dimda to Chittam at km 5/340	0.4957
16	Adilabad	KB-Asifabad	Kagaznagar	BT Road from Kammergaon to Nadigaon	2.9929
17	Adilabad	KB-Asifabad	Asifabad	BT Road from Karji to Loha	3.3745
18	Adilabad	KB-Asifabad	Kagaznagar	BT Road from Dimda to Chittam	3.1621
19	Adilabad	KB-Asifabad	Kagaznagar	BT Road from Gudem main road to Chittam	
				Total- A	72.9689
20	Adilabad	KB-Asifabad	Kagaznagar	Construction of ROB in lieu of LC No. 80 at Railway Km 191/17 of Kazipet Ballarsha Section	2.3495
21	Adilabad	KB-Asifabad	Kagaznagar	Widening and Strengthening of existing road from Kagaznagar to Panchikalpet from Km 20/0 to 25/0 & 30/0 to 35/0 in Kadamba RF	2.2634
				Total- B	4.6129
				Total (A+B)	77.5818

Accordingly, identified Non-Forest land of 81.4313 Ha in Sy.No. 322 of Pangidimadara village of Tiryani Mandal of Ginnehdary Range of Asifabad Division of Kumuram Bheem-Asifabad District for the purpose of CA has been inspected with User Agency by the undersigned on 23.03.2021 in the field and found that;

The Non-Forest land identified in Sy.No. 322 of Pangidimadara village of Tiryani Mandal of Ginnehdary Range of Asifabad Division is adjacent to compartment numbers. 146 of Tiryani R.F of Ginnedhary Range. The most of the area is covered with hard soil, boulders and mixed with sheetrock. The terrain is undulated and hillock area and the land is adjacent to compartment no. 146 of Chintalamadara Beat. The land is free from encroachments. It is classified as Non-Forest in village records. The land is in a compact block and in close proximity of Reserve Forest area of Tiryani R.F. The CA land now proposed has not been proposed or recommended to any other assignment or alternate land for any other project of any department. The existing vegetation is 0.1 to 0.4 with good vegetation consists mainly of Teak (*Tectona grandis*), Moduga (*Butea Monosperma*), Bilugu, Tapsi, Tani (*Terminalia bellarica*) Nemalinara (*Holoptelia integrifolia*), Nallamaddi (*Terminalia elliptica*), Andugu and Kanuga (*Pongamia pinnata*) and On average, there is 10.00 ha suitable patch for taking up planting under Labour Intensive (LI) method with 3m x 3m espacement.

In view of the above, Handbook of guidelines for effective and transparent implementation of the provisions of Forest (Conservation) Act, 1980 vide Govt. of India vide GOI, MoEF New Delhi F. No. 5-2/2017- FC, Dt: 28.03.2019 in chapter-2 for Compensatory Afforestation (CA) in 2.4 clarifications is as follows.

- (v) Any non-forest land for the purpose of Compensatory Afforestation (CA), selected by the State Government, in lieu of forest land to be diverted may be accepted by MoEF&CC irrespective of crown density. All such lands shall be mutated in favour of State forest department and declared as protected forest prior to stage I approval.
- (vi) State Government shall prepare a CA scheme with 1000 plants per ha for all such non-forest lands. In case it is not possible to raise plantation at the rate of 1000 plants per ha on the selected non-forest land, then the balance plants shall be planted on degraded forest land as per working plan prescriptions. All forest lands which have crown density below 40 percent should only be treated as degraded forest land for the purpose of CA.
- (vii) Any degraded forest land for the purpose of CA, selected by State Government may be accepted by MoEF&CC only if the crown density of the area is below 40 percent.

Since, identified Non-forest land is having good vegetation and most of the area is covered with hard soil, boulders and mixed with sheetrock & the terrain is undulated and hillock area, there is 10.00 ha suitable patch for taking up planting under Labour Intensive (LI) method with 3m x 3m espacement and remaining area could not be taken up for planting activity, and hence it is proposed to raise the CA Plantation in the Degraded Forest Land (DFL) with 1000 plants per ha in Compt. No. 55 of Itikalpahad Beat of Makidi Section of Sirpur Range of Kaghaznagar Division of Garlapet R.F. However the identified non-forest land to an extent of **81.4313 Ha** is proposed to be protected by erecting chain link fencing, boundary pillars and SMC works i.e., SCTs etc., and by taking up cultural operations and fire management works.

- 1) **Compensatory Afforestation:** It is proposed to raise CA in the area to be taken over from Revenue Authorities i.e. the Government land in **81.4313 Ha**, most of the area is covered with hard soil, boulders and mixed with sheetrock & the terrain is undulated and hillock area, there is 10.00 ha suitable patch for taking up planting under Labour Intensive (LI) method with 3m x 3m espacement for which Protection and SMC like, staggered trenches, singling & coppicing are proposed. The proposals have been prepared to take up under ANR method, Coppicing and Singling of the existing valuable species like long rotation high value timber species and the details of Compensatory Afforestation scheme proposals are as follows.

Non-Forest Land Area:

S No	Sy No	Village	Mandal	Range	Area in Ha.	Name of the adjacent RF	Distance from RF to land
1	322	Pangidimadara village	Tiryani	Ginnedhary	81.4313	Tiryani RF	Adjoining to Tiryani RF

Degraded Forest Land Area:

SL No	Division	Compt. No	Beat	Section	Range	Area in Ha.	Name of the RF
1	Kaghaznagar	55	Itikalpahad	Makidi	Sirpur	71.00	Garlapet RF.

The Compensatory Afforestation for Non-Forest Land scheme is prepared over an area of **81.4313 Ha** and for Degraded Forest Land over an area of **71.00 Ha** of basing on the Forest Schedule of Rates for the year 2021-22 of Zone-II with an escalation of 10% for 2022-23 and with an annual escalation of 10% for the subsequent years, provided the funds are to be deposited and released during the year 2021-22.

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. Non-forest area of 81.4313 Ha to be taken up under ANR and other forestry operation works and Degraded Forest area of 71.00 Ha is identified for CA. The plantations in 71.00 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.

3. ELEMENTS OF THE PROJECT

3.1. Details of the lands identified for raising Compensatory Afforestation are as follows.

Non Forest Land Area:

Sl. No.	Division	Range	Mandal	Village & Sy.No	Near RF	Near Compt. No.	Area in Ha.
1	Asifabad	Ginnedhary	Tiryani	Pangidimadara (v) & 322	Tiyani	146	39.84

Degraded Forest Land Area:

SL No	Division	Compt. No	Beat	Section	Range	Area in Ha.	Name of the RF
1	Kaghaznagar	55	Itikalpahad	Makidi	Sirpur	71.00	Garlapet

3.2 NAME OF THE SCHEME

Compensatory Afforestation scheme over 81.4313 Ha of Non Forest Land in Sy.No. 322 of Pangidimadara village of Tiryani Mandal of Ginnehdary Range of Asifabad Division of Kumram Bheem Asifabad District in lieu of Diversion of Forest land for (21) roads projects in Asifabad and Kaghaznagar Divisions of Kumuram Bheem-Asifabad District under LWE of Roads & Buidlings (R&B) Department of Kumuram Bheem-Asifabad District.

3.3 SITUATION

The proposed Compensatory Afforestation over area of 81.4313 Ha is situated adjacent to the RF Tiryani, near Compt. No. 146 of Ginnedhary Range, Tiryani Mandal of Asifabad Division and not fit for raising of CA Plantations, hence a Degraded Forest Land to an extent of 71.00 Ha is identified for taking up plantation with 3mx3m espacement in Compt. No. 55 of Itikalpahad Beat of Makidi Section of Sirpur Range of Kaghaznagar Division of Garlapet RF.

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 most of the area is covered with hard soil, boulders and mixed with sheetrock & the terrain is undulated and hillock area.

3.6 CLIMATE :

The climate is fairly dry with very hot summer and cool winters. During summer, the temperature rises up to 47⁰ 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 NFL area is having good vegetation with miscellaneous and forest species about 0.1 to 0.4 density.

3.9 AGENCY RESPONSIBLE FOR AFFORESTATION:

The Afforestation programme will be implemented by the Telangana Forest Department through the Forest Divisional Officer, Asifabad and 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
2022-23	1) Nursery infrastructure, Maintenance of vehicles & improvements / Maintenance of Offices
2023-24	1) Protection works of NFL with Boundary pillars & Fencing with chainlink 2) Cultural operations & SMC works. 3) Purchase of bag plants and Conversion of Nursery 4) Nursery Infrastructure 5) Advance Operations for Plantation. 6) Animal trackers 7) SMC works. 8) Digging of CPT along DFL area 9) Base camp
2024-25	1) Protection works of NFL with Boundary pillars 2) Maintenance of Fire Lines 3) SMC works for NFL 4) Purchase of bag plants and Conversion of Nursery 5) Maintenance of Nursery 6) Raising of Plantations 7) Animal Trackers 8) Stabilization of CPT 9) Base camp
2025-26	Cultural Operations. Base camp Maintenance of New Fire Lines Maintenance of Nursery 1 st Year maintenance of plantation Animal trackers
2026-27	2nd Year maintenance of plantation Animal trackers Maintenance of Fire Lines Base camp
2027-28	3rd Year maintenance of plantation Cultural Operations. Maintenance of Fire Lines Animal trackers Base camp
2028-29	4th Year maintenance of plantation Maintenance of Fire Lines Animal trackers
2029-30	5th Year maintenance of plantation Cultural Operations. Maintenance of Fire Lines Animal trackers

2030-31	6th Year maintenance of plantation Maintenance of Fire Lines Animal trackers
2031-32	7th Year maintenance of plantation Cultural Operations. Maintenance of Fire Lines Animal trackers
2032-33	8th Year maintenance of plantation Maintenance of Fire Lines
2033-34	9th Year maintenance of plantation Cultural Operations. Maintenance of Fire Lines
2034-35	10th Year maintenance of plantation Maintenance of Fire Lines

3.11 COST STRUCTURE:

Compensatory Afforestation scheme for **Rs. 1256.465 lakhs** is prepared. The year wise expenditure will be as hereunder.

Sl No	Year	Amount in Lakhs		
		NFL	DFL	Total
1	2022-23	9.944	0.550	10.494
2	2023-24	353.160	152.721	505.881
3	2024-25	117.668	153.254	270.922
4	2025-26	50.974	78.789	129.763
5	2026-27	14.615	58.632	73.247
6	2027-28	14.935	42.263	57.198
7	2028-29	8.880	34.917	43.797
8	2029-30	9.784	24.677	34.461
9	2030-31	5.826	15.036	20.862
10	2031-32	11.170	27.503	38.673
11	2032-33	7.455	15.745	23.200
12	2033-34	13.263	21.023	34.286
13	2034-35	8.738	4.943	13.681
	Total	626.412	630.053	1256.465

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 81.4313 Ha is most of the area is covered with hard soil, boulders and mixed with sheetrock & the terrain is undulated and hillock area with having good vegetation. It is proposed to protect the area by Chain link fence, and SMC works i.e., SCTs etc., and by taking up cultural operations and fire management works. It is also proposed to take up Afforestation planting over an area of 71.00 Ha in DFL under Semi Mechanical Method in 3mx3m espacement with NTSHW species and with fuel wood, fodder and locally suitable NTFP species. 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.

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, Asifabad & 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 **71.00 Ha** of Kaghaznagar Division, the details as follows.

SL No	Division	Compt. No	Beat	Section	Range	Area in Ha.	Name of the RF
1	Kaghaznagar	55	Itikalpahad	Makidi	Sirpur	71.00	Garlapet

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 2022-23. 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 Forest Divisional Officer, Asifabad & Kaghaznagar and District Forest Officer, Kumram Bheem-Asifabad & the Chief Conservator of Forests, Adilabad Circle, Adilabad shall monitor the implementation of the conditions of Compensatory Afforestation and the survival of the plants planted.


District Forest Officer,
KB-Asifabad