

CA SCHEME OVER 20.02 HA OF NON FOREST LAND IN ASIFABAD DIVISION ASIFABAD IN LIEU OF DIVERSION OF FOREST LAND IN MANCHERIAL FOREST DIVISION FOR WIDENING OF SINGLE LANE ROAD TO DOUBLE LANE ROAD IMPROVEMENT OF CHENNUR - VEMANPALLY ROAD FROM 6/5 TO 31/125.

1.0 INTRODUCTION:

The Executive Engineer, R & B Division, Mancherial has submitted the proposals for Diversion of **20.02 Ha** Forest Land in Mancherial Forest Division for Widening of Single Lane Road to Double Lane Road Improvement of Chennur - Vemanpally Road from 6/5 To 31/125. In lieu of the RF area to be diverted in Mancherial Forest Division.

1.1 Accordingly the User Agency has identified the non forest land of **20.02 Ha** in in Sy. No. 95/1 of Sungapur village of Tiryani Mandal for the purpose of CA. The area proposed for CA has been inspected in the field and found that;

The Non Forest land identified in Sy. No. 95/1 is adjacent to Tiryani R.F. 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. The land now proposed has not been proposed or recommended to any other assignment or alternate land for any other project of any department. The land is having 0.5 to 0.6 density with good vegetation and is a hillock with rocky terrain, hence not found suitable for raising of CA Plantation in such land.

In view of the guidelines issued by the Govt. of India vide GOI, MoEF New Delhi F.No.11-423/2011-FC, Dt 08.11.2017, since the identified non-forest land is having good vegetation and is a hillock with rocky terrain, could not be taken up for planting activity and hence it is proposed to raise the CA Plantation in the Degraded Forest Land in Compt. No. 407 of Beat Girelly, Section Girelly of Rebbena Range falling in Kunchavelly R.F. However the identified non-forest land to an extent of 20.02 Ha. is proposed to be protected by erecting boundary pillars, Digging of CPT, 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 **20.02 Ha**. The area is having slopes 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:

SL No	Sy No	Village	Mandal	Total Area Ha.	Name of the adjacent RF	Distance from RF to land
1	95/1	Sungapur	Tiryani	20.02	Tiryani	Adjoining to Tiryani RF

Degraded Forest Land Area:

SL No	Compt. No	Beat	Section	Range	Total Area Ha.	Name of the RF
1	407	Girelly	Girelly	Rebbena	20.02	Kunchavelly

The proposals have been prepared with a cost of **Rs. 2,51,42,400/-**. 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 **20.02 Ha** Non-Forest Land and **20.02 Ha.** of Degraded Forest Land basing on the Forest Schedule of Rates for the year 2017-18 of Zone-II with an escalation of 10% for 2018-19 and with an annual escalation of 10% for the subsequent years, provided the funds are to be deposited and released during the year 2018-19.

Sl No	Year	Forestry Works
1	2018-19	23.997
2	2019-20	110.381
3	2020-21	46.856
4	2021-22	15.516
5	2022-23	9.666
6	2023-24	8.867
7	2024-25	9.078
8	2025-26	6.397
9	2026-27	5.799
10	2027-28	4.076
11	2028-29	2.756
12	2029-30	4.932
13	2030-31	3.103
	Total	251.424

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 20.02 Ha to be taken up under ANR and other forestry operation works and Degraded Forest area of 20.02 Ha. is identified for CA. The plantations in 20.02 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.

3.0 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	Near RF	Near Compt. No.	Area proposed in Ha.
1	Asifabad	Tiryani	Tiryani	Tiryani	153	20.02

Degraded Forest Land Area:

SL No	Compt. No	Beat	Section	Range	Total Area Ha.	Name of the RF
1	407	Girelly	Girelly	Rebbena	20.02	Kunchavelly

3.2 NAME OF THE SCHEME

Compensatory Afforestation scheme over **20.02 Ha.** of non forest land in Sy.No.95/1 of Sungapur Village, Tiryani Mandal, Asifabad Division of Kumara Bheem Asifabad District in lieu Diversion of 20.02 Ha Forest Land in Mancherial Forest Division for Widening of Single Lane Road to Double Lane Road Improvement of Chennur – Vemanpally Road.

3.3 SITUATION

The proposed Compensatory Afforestation area is situated adjacent to the RF Block Tiryani of Asifabad Division near Compt. No. 153 of Tiryani Range, Tiryani Mandal and not fit for raising of CA Plantations, hence a degraded forest land to an extent of 20.02 Ha. is identified for takingup plantation with 3mx3m espacement in Compt. No. 407 of Girelly Beat, Girelly Section of Rebbena Range.

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 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 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 **20.02 Ha** of Asifabad Division, the details as follows.

SL No	Compt. No	Beat	Section	Range	Total Area Ha.	Name of the RF
1	407	Girelly	Girelly	Rebbena	20.02	Kunchavelly

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

Sl. No.	Range	Beat	Area proposed in Ha.	Seedlings required 3x2m
1	Rebbena	Girelly	20.02	
Requirement of seedlings				
		Raising	20.02	30,000
		Replacements for 1 st year	20.02	6500
			20.02	36,500

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	20.02 Ha.	30,000 Seedlings.
2) For casualties in maintenance	20.02 Ha.	6,500 Seedlings
		Total 36,500 Seedlings

5.1 OFFICE EXPENSES AND CONTINGENCIES RECURRING:

The amount proposed towards office expenses, contingent expenses are appended

	2) Maintenance of Nursery 3) Cultural Operations. 4) SMC works.
2021-22	1) Maintenance of Nursery 2) 1st Year maintenance of plantation 3) Cultural Operations.
2022-23	2nd Year maintenance of plantation
2023-24	1) 3rd Year maintenance of plantation 2) Cultural Operations.
2024-25	4th Year maintenance of plantation
2025-26	1) 5th Year maintenance of plantation 2) Cultural Operations.
2026-27	6th Year maintenance of plantation
2027-28	1) 7th Year maintenance of plantation 2) Cultural Operations.
2028-29	8th Year maintenance of plantation
2029-30	1) 9th Year maintenance of plantation 2) Cultural Operations.
2030-31	10th Year maintenance of plantation

3.11 COST STRUCTURE:

A compensatory afforestation scheme for **Rs.2,51,42,400/-** is prepared. The year wise expenditure will be as hereunder.

Sl No	Year	Forestry Works
1	2018-19	23.997
2	2019-20	110.381
3	2020-21	46.856
4	2021-22	15.516
5	2022-23	9.666
6	2023-24	8.867
7	2024-25	9.078
8	2025-26	6.397
9	2026-27	5.799
10	2027-28	4.076
11	2028-29	2.756
12	2029-30	4.932
13	2030-31	3.103
	Total	251.424

.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 a hillock with rocky terrain having good vegetation. It is proposed to protect the area by Digging of CPT, and SMC works i.e., SCTs etc., and by takingup cultural operations and fire management works. It is also proposed to take up afforestation planting over an area of 20.02 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.

3.4 GEOLOGY

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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 Rocky and morram soil and the land is sloppy.

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 0.5 to 0.6 density

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.

Year	Proposed works
2018-19	1) Raising of Primary Beds Nursery 2) Nursery infrastructure. 3) Digging of CPT in DFL. 4) Protection works of NFL 5) SMC Works.
2019-20	1) Raising of Primary Beds Nursery 2) Raising and Conversion of Nursery 3) Maintenance of Nursery 4) Advance Operations for Plantation. 5) SMC works. 6) Construction of boundary pillars 7) Cultural Operations.
2020-21	1) Raising of Plantations

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 2018-19. 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.


District Forest Officer
Komaram Bheem
(Asifabad)


Forest Divisional Officer,
Asifabad

Year-wise detailed Abstract of CA scheme for Non Forest Land (NFL) for 20.02 Ha in Sy.No. 95/1 of Sungapur Village of Tiryani Mandal and Development of Degraded Forest Land (DFL) for 20.02 Ha to equalant to Non Forest Land (NFL) of Asifabad Division in lieu of Diversion of Forest Land (i) for widening of Single lane road to Double lane road improvement of Chennur- Vemanpally road from Km 6/5 to 31/ 125 in Mancherial Forest Division.

Sl. No	Item of Work	Phy	Unit Cost 2017-18 (Rs.)	2018 - 19			2019 - 20			2020 - 21			2021 - 22			2022 - 23			2023 - 24			2024 - 25		
				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
A	NON FOREST LAND (NFL- CA LAND 20.02 Ha)																							
I	Forest Protection																							
1	Construction of boundary pillars	No	10000	0	11000	0.000	175	12100	21.175															
2	Fencing to CA lands - km	KM	1300000	0	1430000	0.000	3.539	1573000	55.668															
	Sub-total					0.000			76.843			0.000			0.000			0.000			0.000			0.000
II	SMC Works and Cultural Opearations																							
3	Staggered trenches - 3mx0.4mx0.3m	cum	250	0	275	0.000	1000	302.50	3.025															
4	RFDs	No	12000	0	13200	0.000	10	14520	1.452															
5	Singling and Coppicing to existing growth (03.02.04)	Ha.	411.5	0	4527	0.00	20.02	4979	0.997	20.02	5477	1.097	20.02	6025	1.206		6627	0.000	20.02	7290	1.459		8019	0.000
	Sub-total					0.000			5.474			1.097			1.206			0.000			1.459			0.000
III	Forest Fire Management																							
	Formation of Fire Lines, Maintanace of Fire Lines and Procurement of Fire Fighting equipments etc.,																							
6	Formation of New Fire Lines of 5.00 M width	KM	7171.40	4.200	7889	0.331	0																	
7	Maintanace of Fire Lines (5.00 mtr width)	No	5304.81	0	5835	0.000	4.200	6419	0.270	4.200	7061	0.297	4.200	7767	0.326	4.200	8543	0.359	4.200	9398	0.395	4.200	10338	0.434
8	Procurement of Fire Fighting equipments etc.,	LS	100000			1.000						1.000						1.000						1.000
	Sub-total					1.331			0.270			1.297			0.326			1.359			0.395			1.434
	Total of NFL					1.331			82.587			2.393			1.532			1.359			1.854			1.434
B	DEGRADED FOREST LAND (DFL) (20.02 Ha)																							
I	Raising of Plants in Nurseries & their Maintenance																							
1	Raising of Primary beds - cost for 100000 plants	Plant	0.233	30000	0.256	0.077	6500	0.282	0.018															
2	Raising of Bag Plants of 5"x9" - Cost 100000 plants	Plant	4.779	30000	5.257	1.577	6500	5.783	0.376															
3	Maintenance of Bag Plants of 5"x9" - Cost for 100000 plants	Plant	1.395				30000	1.688	0.507	6500	1.857	0.121												
4	Conversion of bag plants from 5"x9" to 8"x12" - Cost 100000 plants	Plant	12.841				30000	15.538	4.661	6500	17.092	1.111												
5	Maintenance of Bag Plants of 8"x12" - Cost for 100000 plants	Plant	2.87							30000	3.826	1.148	6500	4.209	0.274			0.000			0.000			0.000
	Sub Total:					1.654			5.562			2.379			0.274			0.000			0.000			0.000
II	Nursery and other Infrastructure																							
6	Borewell & Motor	No	350000	1	350000	3.500																		
7	Over head tanks	No	150000	1	150000	1.500																		
8	Central water system HDPE Pipeline	No	200000	1	200000	2.000																		
9	Seed storage & watchman shed	No	400000	0	400000	0.000																		
10	Compound wall to Nursery	RMT	8019	100	8821	8.821																		
11	Sprinkler system	No	150000	1	150000	1.500																		
12	Permanent primary beds (10MX1M)	No	10000	15	10000	1.500												0.000			0.000			0.000
	Sub Total:					18.821			0.000			0.000			0.000			0.000			0.000			0.000
III	Planting activities (SMM) - 20.02 Ha																							
13	Advance Operations	Ha	32214				20.02	38978.94	7.804															
14	Raising of Plantation	Ha	140215							20.02	186626.1	37.363												
15	1st Year Maintenance	Ha	41962										20.02	61436.04	12.299									
16	2nd Year Maintenance	Ha	23038													20.02	37102.93	7.428						
17	3rd Year Maintenance	Ha	17501																20.02	31004.60	6.207			
18	4th Year Maintenance	Ha	17501																		20.02	34105.06	6.828	
19	5th Year Maintenance	Ha	8322																					
20	6th Year Maintenance	Ha	7936																					
21	7th Year Maintenance	Ha	1908																					
22	8th Year Maintenance	Ha	1522																					
23	9th Year Maintenance	Ha	1908																					
24	10th Year Maintenance	Ha	1522																					
	Sub Total:					0.000			7.804			37.363			12.299			7.428			6.207			6.828
IV	Forest Protection																							
25	Construction of boundary pillars	No's	10000																					
26	Digging of CPT	km	167500	0	184250	0.000	2.168	202675	4.394	0	222943	0.000												
27	Bund Planting	km	16000	0	17600	0.000	0	19360	0.000	2.168	21296	0.462					0.000			0.000			0.000	
	Sub Total:					0.000			4.394			0.462					0.000			0.000				0.000
	Total of DFL					20.475			17.760			40.204			12.573			7.428			6.207			6.828
V	Administrative Cost - 10% over core activities					2.1806			10.0347			4.2597			1.4105			0.8787			0.8061			0.8262
	Grand Total (NFL +DFL+ Admn cost)					23.987			110.381			46.856			15.516			9.666			8.867			9.088

Year-wise detailed Abstract of CA scheme for Non Forest Land (NFL) for 20.02 Ha in Sy.No. 95/1 of Sungapur Village of Tiryan Mandal and Development of Degraded Forest Land (DFL) for 20.02 Ha to equalant to Non Forest Land (NFL) of Asifabad Division in lieu of Diversion of Forest Land (i) for widening of Single lane road to Double lane road improvement of Chennur- Vemanpally road from Km 6/5 to 31/ 125 in Mancheril Forest Division.

Year-wise detailed Abstract of CA Land (NFL) of Asifabad Division in lieu of Diversion of Forest Land (i) for widening of Single lane Road																						
		2025 - 26			2026 - 27			2027 - 28			2028 - 29			2029 - 30			2030 - 31			Grand Total		
Sl. No	Item of Work	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	Fin (Rs.in Lakhs)	
		26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46
1	2																					
A	NON FOREST LAND (NFL- CA LAND 20.02 Ha)																			175	21.175	
I	Forest Protection															0.000		0.000	3.54		76.843	
1	Construction of boundary pillars						0.000			0.000			0.000									
2	Fencing to CA lands - km			0.000																1000	3.025	
	Sub- total																			10	1.452	
II	SMC Works and Cultural Operations																			20.02	11.247	
3	Staggered trenches - 3mx0.4mx0.3m																					
4	RFDs	20.02	8821	1.766	9703	0.000	0.000	20.02	10673	2.137		11741	0.000	20.02	12915	2.586		2.586	0.000		15.724	
5	Singiling and Coppicing to existing growth (03.02.04)			1.766			0.000			2.137			0.000									
	Sub- total			1.766			0.000			2.137			0.000									
III	Forest Fire Management																			4.20	0.331	
	Formation of Fire Lines, Maintanace of Fire Lines and Procurement of Fire Fighting equipments etc.																			4.20	5.765	
6	Formation of New Fire Lines of 5.00 M width	4.200	11371	0.478	4.200	12508	0.525	4.200	13759	0.578	4.200	15135	0.636	4.200	16649	0.699	4.200	18314	0.769	0	7.000	
7	Maintenance of Fire Lines (5.00 mtr width)						1.000			0.578			1.000			0.699		1.769			13.096	
8	Procurement of Fire Fighting equipments etc.			0.478			1.525			0.578			1.636			3.285		1.769			105.664	
	Sub- total			0.478			1.525			2.715			1.636			3.285		1.769				
	Total of NFL			2.244			1.525			2.715			1.636			3.285		1.769				
B	DEGRADED FOREST LAND (DFL) (20.02 Ha)																			36500	0.095	
I	Raising of Plants in Nurseries & their Maintenance																			36500	1.953	
1	Raising of Primary beds - cost for 100000 plants																			36500	0.627	
2	Raising of Bag Plants of 5"x9" - Cost 100000 plants																			36500	5.772	
3	Maintenance of Bag Plants of 5"x9" - Cost for 100000 plants																			36500	1.421	
4	Conversion of bag plants from 5"x9" to 8"x12" - Cost 100000 plants															0.000		0.000			9.869	
5	Maintenance of Bag Plants of 8"x12" - Cost for 100000 plants			0.000			0.000			0.000			0.000							1	3.500	
	Sub Total:			0.000			0.000			0.000			0.000							1	1.500	
II	Nursery and other Insfrastrucure																			1	2.000	
6	Borewell & Motor																			0	0.000	
7	Over head tanks																			100	8.821	
8	Central water system HDPE Pipeline																			1	1.500	
9	Seed storage & watchman shed																			15	1.500	
10	Compound wall to Nursery																				18.821	
11	Sprinkler system															0.000		0.000				
12	Permanent primary beds (10MX1M)			0.000			0.000			0.000			0.000								7.804	
	Sub Total:			0.000			0.000			0.000			0.000							20.02	37.363	
III	Planting activities (SMM) - 20.02 Ha																			20.02	12.299	
13	Advance Operations																			20.02	7.428	
14	Raising of Plantation																			20.02	6.207	
15	1st Year Maintenance																			20.02	6.828	
16	2nd Year Maintenance																			20.02	3.571	
17	3rd Year Maintenance																			20.02	3.746	
18	4th Year Maintenance																			20.02	0.991	
19	5th Year Maintenance	20.02	17839.56	3.571	20.02	18713.35	3.746	20.02	4949.61	0.991	20.02	4343.27	0.870	20.02	5989.03	1.199	20.02	5255.35	1.052	20.02	0.870	
20	6th Year Maintenance																			20.02	1.199	
21	7th Year Maintenance																			20.02	1.052	
22	8th Year Maintenance																			20.02	89.358	
23	9th Year Maintenance																			0	0.000	
24	10th Year Maintenance			3.571			3.746			0.991			0.870			1.199		1.052		2.168	4.394	
	Sub Total:			3.571			3.746			0.991			0.870			1.199		1.052		2.168	0.462	
IV	Forest Protection																				4.856	
25	Construction of boundary pillars															0.000		0.000			122.904	
26	Digging of CPT						0.000			0.000			0.000					1.052				
27	Bund Planting			0.000			0.000			0.991			0.870			1.199						
	Sub Total:			0.000			0.000			0.991			0.870			1.199						
	Total of DFL			3.571			3.746			0.991			0.870			1.199						
V	Administrative Cost - 10% over core activities			0.5815			0.5272			4.076			2.756			4.932			3.103		22.857	
	Grand Total (NFL +DFL+ Admn cost)			6.397			5.799			4.076			2.756			4.932			3.103		251.424	

Forest Divisional Officer

Forest Divisional Officer
Asifabad