

I/169280/2023

**GOVERNMENT OF TELANGANA
FOREST DEPARTMENT**

From
Sri R M Dobriyal, IFS,
Prl. Chief Conservator of Forests & Head of
Forest Force
Aranya Bhavan,
HYDERABAD (TS) 500 004.

To
The Special Chief Secretary to
Government,
Forests Department,
Government of Telangana,
Hyderabad (TS), 500004.

Rc.No.FC2/FC09/09/2022 (15847/2020), Dt. 05/08/2023.

Madam,

Sub: TSFD - Forest (C) Act, 1980 - Diversion of **3.5481 Ha** (*revised from 4.070 ha*)
- forest land for Construction of BT road from **Dampur to Kereguda** via Thatiguda of Tiryani Mandal of Kumarambheem-Asifabad District under LWE (RCPLWE) Batch-I in favour of the EE, R&B division, Kumarambheem-Asifabad - **submission of EDS replies** - Reg.

Ref : 1. CCF, Adilabad Rc.No.1988/2020/M6(i), Dt.23.09.2021.
- 2. PCCF's Rc.No.15847/2020/FCA-2, Dt.05.01.2022.
3. State Govt. Lr.No.74/For.I(1)/2022, dt.12.01.2022.
4. IRO, MoEF&CC, Gol, Hyderabad Ref.No.4-TSB251/2022-Hyd/445, dt.12.04.2022.
5. PCCF, TS, Hyd Rc.No.15847/2020/FCA-2, Dt.19.04.2022.
6. CCF, Adilabad Ref.No.32/2021/M6, dt.09.06.2022.
7. PCCF, TS, Hyd Rc.No.15847/2020/FCA-2, Dt.26.04.2022.
8. CCF & FDPT, KTR, Mancherla Lr.No. 1988/2020/D2, dt.04.04.2023.
9. DFO, Asifabad Lr.No.17/2021/S4, dt.04.08.2023.

Kind attention of the Govt. is invited to the references cited above.

Vide State Govt. ref 3rd cited, proposal for diversion of 4.070 ha of FL in Asifabad District for formation of the subject road duly recommended was submitted to the IRO, MoEF&CC, Gol for approval. The IRO vide ref 4th cited has raised certain EDS.

While submitting EDS replies, the DFO and User Agency has informed that the length of the road passing through RF is reduced to 6451.1 M as against initially proposed 7041.35 M. Accordingly, the forest area required for diversion is reduced to 3.5481 Ha from 4.070 Ha. Revised enumeration list of the tree to be felled in the forest area actually involved is also enclosed.

Vide reference 9th cited, the District Forest Officer, Asifabad has submitted point-wise replies to the EDS raised by the IRO, MoEF&CC, Gol, Hyderabad. Point-wise replies to the EDS raised by the IRO are as follows:

Point wise replies are as follows:

Sl. No.	Additional Information sought by	Reply
1	In pursuance to Para no 12.4 of FCA Act, 1980 and FC Rules, 2003 (guidelines and clarification), the proposals involving diversion of forest	The proposal is approved in the 73 rd NBWL meeting held on 17.07.2023 at agenda no 73.4.46

I/169280/2023

	land located within one or more PAs require prior recommendations of the Standing Committee of the NBWL. As the instant proposals falls in Buffer area of KTR, it is to request to obtain and submit the recommendations of SC-NBWL.	
2.	Design/cross section of the proposed road clearly indicating the width of carriage way (BT portion) shoulders/Berm/drainage etc may be furnished	The District R&B Officer, Executive Engineer, KumuramBheem Asifabad has submitted the cross section details (Copy enclosed herewith).
3.	Benefits of blacktopping of the road may be informed and extent of vehicular traffic in the proposed route and number of people get benefit out this road may also be provided.	<p>User Agency vide Ir.dt.26.05.2022 has stated that, Black topping is an all-weather road is the one which is negotiable during all weathers. This provides easy access and faster movement from habitations to mandals, agriculture markets, other farmer related enterprises, higher secondary schools, colleges, hospitals etc., in order to improve the quality life of rural populous.</p> <p>Average Daily Traffic in this route is 92 in 2008-19. This road connects 2 no. of habitations Dampur and Kereguda with population of 454 and 613 respectively. So 1067 people will get benefited out this road.</p> <p>Further it is submitted that, the District R&B Officer, (Executive Engineer), Kumuram Bheem Asifabad vide reference 25.07.2023 has submitted that, the road was identified and sanctioned by the Ministry of Home Affairs (MHA), Gol in consultation with the state home department and intelligence department to combat left wing extremism in the area and the state R&B department has no role in identifying road proposal from Dampur to Kereguda. Improvement of this particular road from Dampur to Kereguda is critical for secure and seamless movement of the security personnel during anti extremist operation. Further, Road connectivity project for the LWE affected areas (RCPLWEA) population of the habitation is not a consideration at all, as the primary objective is providing seamless connectivity, area security and area domination along with smooth movement of security forces in the LWE affected area by construction / up gradation of specifically identified roads.</p>
4	State Government may inform	The proposed road for construction of BT road

I/169280/2023

	whether or not RoW was allowed for the alignment proposed for diversion and if so, details with supporting documents may be furnished.	from Dampur to Kereguda from Km 0/0 to 7/875 via Thatiguda village is an existing cart track. These road is exiting prior to 1980 and it is mapped on SOI (Map sheet No.56M/4) The proposed road is passing through RF Tiryani and there is no Right of Way as per the Gazette Notification.
5.	Revised map, .kml file and map etc for an area of 4.070 Ha non forest area proposed for CA purpose shall be uploaded in the online application	Reply to point no 5 & 6 is furnished hereunder.
6.	Map and DGPS data for the entire area of 81.4313 ha NFL and 71.00 ha DFL may be submitted.	Reply to point no 5 & 6 is furnished hereunder.

Reply to point no:5 & 6

The District Collector, KB Asifabad vide Ref E2/1278/202, dt.25.02.2021 cited has allotted revenue (Non-forest) land to an extent of 81.4311 Ha in Sy.No.322 of Pangidi madhara Village of Tiryani Mandal of Asifabad Division is being proposed for utilization for diversion of forest land proposed by R&B Department for LWE Projects. Accordingly, a total of 43.4570 Ha was utilized for 15 projects.

As the case is such, while examining the status of this land in the field, the DFO., Asifabad has informed that at many locations there are encroachments and other field problems. Accordingly, instructions were issued to the CCF & FDPT, KTR, Nirmal vide this office ref dt.20.05.2023 to inspect the subject land and report about the suitability to consider for CA.

The CCF & FDPT, KTR vide ref dt.03.06.2023 has submitted a report and informed that keeping the field situation and encroachments, the final recommended area which can be taken over by Forest Department as CA is to an extent of 45.00 ha only in two patches (35.20 Ha Patch-1 & 9.80 Ha Patch-2).

The R&B Dept has conducted DGPS survey of the above two patches duly excluding the encroachments and the data was submitted to this office vide Ir.dt.21.06.2023.

The NFL proposed to be handed over to the Forest Department, which is free from encroachments and other field problems, is ascertained to 44.5 ha in two patches (34.3665 ha + 10.1221 Ha) and it is falling in Eco-Sensitive Zone of Kawal Tiger Reserve. The said NFL is proposed to be utilized for the following roads pertaining to R&B Dept.

I/169280/2023

Sl.	District	Name of the Proposals	NFL Area apportioned
1	Asifabad	BT Road from Karjji to Loha NBWL approved	2.4746
2	Asifabad	BT Road from Kereguda to Dampur (Present file)	4.1077
3	Asifabad	BT Road from Kammergaon to Nandigaon NBWL approved	2.1948
4	Asifabad	BT Road from Vanjariguda to Geethabanda. Stage-I - 16.09.2022 - Subject to NBWL approval.	1.018
5	Asifabad	BT Road from Sirpur(U) to Devudpally Stage-I - 28.11.2022 - Subject to NBWL approval	0.327
6	Asifabad	BT Road from Govena to Jamuldhara	3.412
7	Asifabad	BT Road from Gundala to Mangi	3.9
8	Asifabad	BT Road from Movad to Chorpalli	5.139
9	Asifabad	Sirpur to Methandani	8.6142
10	Asifabad	Dimda to Chittam and two HLB at Km 4/850 and Km 5/340	3.291
11	Asifabad	BT Road from Pangidi to Madhura Thanda	2.983
12	Asifabad	BT Road from Raghavapur to Govena	1.744
13	Asifabad	BT Road from Movad to Koutan Movad	1.419
14	Asifabad	BT Road from Kamana to Sarkepalli	0.521
15	Asifabad	Kazipet to Ballarsha Section	2.3495
		Total	43.4948
		Remaining Balance Area	0.9937

The DFO vide Ir.dt.05.07.2023 has submitted revised CA scheme proposals for NFL for Rs.449.021 Lakhs and for DFL for Rs.356.447 Lakhs, totalling to Rs.805.468 Lakhs, **which has been revised and finally approved for Rs. 702.257 lakhs (Rs.392.372 lakhs for CA NFL and Rs 309.885 Lakhs for CA DFL).** Location of the NFL and DFL duly signed by the DFO and User Agency is enclosed herewith.

Revised CA scheme proposals are also enclosed along with apportioned CA scheme proposal. The same is also uploaded online on Ministry's portal.

In view of the above, the above replies alongwith revised CA scheme proposals and other documents are enclosed herewith with a request to forward the above replies to the IRO, MoEF&CC, GoI, Hyderabad for according Stage-I approval at the earliest, as the proposal is being regularly monitored by Ministry of Rural Development and Ministry of Home Affairs, Government of India, as the road is proposed under RCP - LWE scheme and the proposal is also approved by the NBWL under WL Protection Act, 1972.

Encl.: As above.

Yours faithfully,

I/169280/2023

Signed by Rakesh Mohan

Dobriyal

Date: 05-08-2023 15:45:08

Reason: Approved

Prl. Chief Conservator of Forests
& Head of Forest Force

Copy to the District Forest Officer, KB Asifabad and Conservator of Forests, KTR, Mancherial for information and necessary action.

Copy to the District (R&B) Officer, (Executive Engineer), Kumaram Bheem Asifabad District / Chief Engineer, (R&B) LWE, D&P, RSW & RR, Errummanzil, Hyderabad for information. It is requested to submit non-encumbrance certificate obtained from the District Collector, Asifabad for the final area to be allotment as CA land.

Copy to the Collector & District Magistrate, Kumaram Bheem Asifabad District for information and necessary action.

Copy to the Prl. Chief Conservator of Forests (WL) & CWLW, O/o the PCCF (HoFF), TS, Hyderabad for information and necessary action.

Government of Telangana
Forest Department

From
Sri Neeraj Kumar Tibrewal, I.F.S.,
District Forest Officer,
Kumuram Bheem-Asifabad.

To
The Principal Chief Conservator of Forests (FCA),
O/o the Principal Chief Conservator of Forests,
Aranya Bhawan, Saifabad, Hyderabad.

Re. No. 1577/2020/S 4, Dated: 05.07.2023.

Sir,

Sub:- TSFD- F(C) Act, 1980- Diversion of 72.9689 ha of forest land for (19) road projects of R&B Department in Asifabad District- DGPS survey conducted for non-forest land for CA & DGPS Raw data verified and Authenticated- Project wise split CA Map communication-Report on Non-Forest CA Land in Sy. No. 322 of Pangidimadra village of Tiryani Mandal for Compensatory Afforestation purpose- REVISED CA scheme for Non-Forest Land and Degraded Forest Land --Submitted for vetting-- Regarding.

Ref:- 1. Prl.C.C.F., TS Hyd, Rc.No. 6465/2018/ FCA-2, Dt: 28-09-2020.
2. F.D.O. Asifabad Rc.No.1866/2020/S10, Dt: 16.10.2020, 31.10.2020, 16.11.2020 & 23.01.2021.
3. Collector & District Magistrate, KB-Asifabad Lr.No.E2/1278/2020, Dt: 25.02.2021.
4. EE (R&B) Division, KB-Asifabad Lr.No.DB/EE/Asifabad/R&B/2020-21, Dt: 13.02.2021.
5. Prl.C.C.F., TS Hyd, Rc.No. 6465/2018/-FCA-2, Dt: 25.03.2021.
6. F.D.O. Asifabad Rc.No.1866/2020/S10, Dt: 08.04.2021, 24.05.2021, 13.07.2021, 29.07.2021.
7. F.R.O., Ginnedhary, Rc.No.27/GDY/202122, Dt: 07.08.2021.
8. District R&B Officer (Executive Engineer), KB-Asifabad Lr.No.DB/EE/Asifabad/R&B/2020-21/01, Dt: 08.02.2021 (addressed to the Prl.C.C.F., Aranya Bhawan, Hyderabad).
9. F.D.O. Asifabad Rc.No.1866/2020/S10, Dt:28.08.2021 (mail Dt: 29.08.2021)
10. Prl.C.C.F., TS Hyd, Rc.No. 6465/2018/ FCA-2, Dt:12.10.2021.
11. F.D.O. Asifabad Rc.No.1866/2020/S10, Dt:28.10.2021.
13. Vetted CA Scheme by Head Office, mail Dt: 29.10.2021.
14. Prl.C.C.F., TS Hyd, Rc.No. FC2/FC09/2/2022/15854/2020/FCA-1, Dt:02.07.2023.

It is submitted that, the Principal Chief Conservator of Forests (HoFF) Telangana, Hyderabad vide reference cited 14th cited has communicated the project wise split CA DGPS map for the non-forest land for C.A. **44.4886 ha**, identified in Sy.No.322 of Pangidimadara (v), Tiryani (M) of Asifabad and Kagaznagar Division (for 15 roads) each project wise the details are as follows.

Sl No	Circle	District	Name of the Proposals	CA land required in Ha
1	Adilabad	KB-Asifabad	Sirpur to Methandani	8.6142
2	Adilabad	KB-Asifabad	BT Road from Raghavapur to Govena	1.744
3	Adilabad	KB-Asifabad	BT Road from Govena to Jamuldhara	3.412
4	Adilabad	KB-Asifabad	BT Road from Kereguda to Dampur	4.1077
5	Adilabad	KB-Asifabad	BT Road from Gundala to Mangi	3.9
6	Adilabad	KB-Asifabad	BT Road from Kamana to Sarkepalli	0.521
7	Adilabad	KB-Asifabad	BT Road from Vanjariguda to Geethabanda	1.018
8	Adilabad	KB-Asifabad	BT Road from Movad to Chorpalli	5.139
9	Adilabad	KB-Asifabad	BT Road from Movad to Koutan Movad	1.419
10	Adilabad	KB-Asifabad	BT Road from Sirpur (U) to Devudpally	0.327
11	Adilabad	KB-Asifabad	BT Road from Pangidi to Madhura Thanda	2.983
12	Adilabad	KB-Asifabad	HLB on Dimda to Chittam at km 4/850 km 5/340	3.291
13	Adilabad	KB-Asifabad	Kazipet to Ballarsha Section	2.3495
14	Adilabad	KB-Asifabad	BT Road from Kammergaon to Nadigaon	2.1948
15	Adilabad	KB-Asifabad	BT Road from Karji to Loha	2.4746
			Total- A	44.4886

Asifabad
7/6/23

In view of the above, I am submitting herewith the **Revised** CA scheme for vetting (for 15 Roads projects) for Non-Forest CA Land (NFL) for 45.00 Ha and CA scheme for Development of Degraded Forest Land (DFL) for 45.00 Ha of Kumuram Bheem-Asifabad District in lieu of Diversion of Forest land for Road projects in Asifabad & Kaghaznagar Divisions of Kumuram Bheem-Asifabad District pertains to R&B Department and requested to kindly approval of the above scheme of Kumuram Bheem-Asifabad District.

Sl No	Name of the Scheme	Area in Ha	Amount in lakhs
1	CA scheme for Non-Forest CA Land for 45.00 Ha in Sy. No. 322 of Pangidimadra village of Tiryani Mandal of Ginnedhary Range Asifabad Division	45.00	449.021
2	CA scheme for Development of Degraded Forest Land for 45.00 Ha in Compt. No. 55 of Itikalpahad Beat of Makidi Section of Sirpur Range of Kaghaznagar Division	45.00	356.447
	Total		805.468

This is submitted for favour of kind information.

Yours faithfully,

District Forest Officer,
KB-Asifabad

Copy submitted to the Chief Conservator of Forests & Field Director Project Tiger, Kawal Tiger Reserve, Mancherial for kind information.

Copy to the Forest Divisional Officer, Asifabad for information.

District Forest Officer,
KB-Asifabad

CA SCHEME

CA scheme for Non Forest Land (NFL) for 44.4886 Ha in Pangidimadara (v), Tiryani (M) of Ginnedhary Range of Asifabad Division and Development of Degraded Forest Land (DFL) for 45.00 Ha in Kaghaznagar Division in lieu of Diversion of Forest land for (15) roads projects in Asifabad & Kagaznagar Divisions of Kumuram Bheem-Asifabad District under LWE roads of Roads & Building (R&B) Department.

A) Detail of Compensatory Afforestation land(NFL)

Area: 44.4886 Ha

Sy.No: 322

Village: Pangidimadara (v),

Mandal: Tiryani

Range: Ginnehdary

Division: Asifabad

District :Kumram Bheem Asifabad

Circle : Kawal Tiger Reserve Mancheria

B) Detail of Degraded Forest Land (DFL):

Area: 45.00

Compt No. 55

Beat: Itikalpahad

Mandal: Sirpur (T) & Section : Makidi

Range: Sirpur

Division: Kaghaznagar

District :Kumram Bheem Asifabad

Circle : Kawal Tiger Reserve Mancheria

CA scheme for Non Forest Land (NFL) for **44.4886 Ha** in Sy.No. **322 of Pangidimadara village of Tiryani Mandal of Ginnedhary Range of Asifabad Division** and Development of Degraded Forest Land (DFL) for **45.00Ha** in Kaghaznagar Division in lieu of Diversion of Forest land for (15) 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. FC2/FC09/2/2022/15854/2020/FCA-1, Dt:02.07.2023 has requested to prepare CA scheme over 44.4886 Ha for Non-forest land in Sy.No. 322 of Pangidimadara village of Tiryani Mandal of Ginnehdary Range of Asifabad Division in lieu of Diversion of Forest land for (15) 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	Name of the Proposals	CA land required in Ha
1	Adilabad	KB-Asifabad	Sirpur to Methandani	8.6142
2	Adilabad	KB-Asifabad	BT Road from Raghavapur to Govena	1.744
3	Adilabad	KB-Asifabad	BT Road from Govena to Jamuldhara	3.412
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14	Adilabad	KB-Asifabad	BT Road from Kammergaon to Nadigaon	2.1948
15	Adilabad	KB-Asifabad	BT Road from Karji to Loha	2.4746
			Total- A	44.4886

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*).

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 no area suitable for taking up planting hence the 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 **44.4886 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 **44.4886 Ha**, most of the area is covered with hard soil, boulders and mixed with sheetrock & the terrain is undulated and hillock area, and 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	44.4886	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	45.00	Garlapet RF.

The Compensatory Afforestation for Non-Forest Land scheme is prepared over an area of 44.4886 Ha and for Degraded Forest Land over an area of **45.00 Ha** of basing on the Forest Schedule of Rates for the year 2023-24 of Zone-II with an escalation of 10% for 2023-24 and with an annual escalation of 10% for the subsequent years, provided the funds are to be deposited and released during the year 2023-24.

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 44.4886 Ha to be taken up under ANR and other forestry operation works and Degraded Forest area of 45.00 **Ha** is identified for CA. The plantations in 45.00 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	44.4886

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	45.00	Garlapet

3.2 NAME OF THE SCHEME

Compensatory Afforestation scheme over 44.4886 Ha of Non Forest Land in Sy.No. 322 of Pangidimadara village of Tiryani Mandal of Ginnedhary Range of Asifabad Division of Kumram Bheem Asifabad District in lieu of Diversion of Forest land for (15) 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 44.4886 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 45.00 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
2023-24	1) Nursery infrastructure, Maintenance of vehicles & improvements / Maintenance of Offices
2024-25	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

2025-26	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
2026-27	Cultural Operations. Base camp Maintenance of New Fire Lines Maintenance of Nursery 1 st Year maintenance of plantation Animal trackers
2027-28	2nd Year maintenance of plantation Animal trackers Maintenance of Fire Lines Base camp
2028-29	3rd Year maintenance of plantation Cultural Operations. Maintenance of Fire Lines Animal trackers Base camp
2029-30	4th Year maintenance of plantation Maintenance of Fire Lines Animal trackers
2030-31	5th Year maintenance of plantation Cultural Operations. Maintenance of Fire Lines Animal trackers
2031-32	6th Year maintenance of plantation Maintenance of Fire Lines Animal trackers
2032-33	7th Year maintenance of plantation Cultural Operations. Maintenance of Fire Lines Animal trackers
2033-34	8th Year maintenance of plantation Maintenance of Fire Lines
2034-35	9th Year maintenance of plantation Cultural Operations. Maintenance of Fire Lines
2035-36	10th Year maintenance of plantation Maintenance of Fire Lines

3.11 COST STRUCTURE:

Compensatory Afforestation scheme for **Rs. 805.47 lakhs** is prepared. The year wise expenditure will be as hereunder.

Sl No	Year	Amount in Lakhs		
		NFL	DFL	Total
1	2023-24	23.97	0.00	23.97
2	2024-25	334.38	89.28	423.66
3	2025-26	45.53	114.54	160.08
4	2026-27	5.41	42.59	47.99
5	2027-28	4.45	26.97	31.42
6	2028-29	5.96	16.19	22.15
7	2029-30	2.60	17.81	20.41
8	2030-31	4.44	10.95	15.39
9	2031-32	3.03	2.40	5.44
10	2032-33	5.26	13.25	18.51
11	2033-34	3.56	2.91	6.46
12	2034-35	6.24	16.03	22.28
13	2035-36	4.19	3.52	7.71
	Total	449.02	356.45	805.47

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 44.4886 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 by user Agency 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 45.00 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 **45.00 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	45.00	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 2023-24 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 & Field Director Project Tiger, Kawal Tiger Reserve, Mancherial shall monitor the implementation of the conditions of Compensatory Afforestation and the survival of the plants planted.


**District Forest Officer,
KB-Asifabad**

15

Year-wise detailed Abstract of CA scheme for Non Forest Land (NFL) for 45.00 Ha in Sy.No. 322 of PANGIDIMADARA village of Tiryani Mandal of Asifabad Division of Kumuram Bheem-Asifabad District in lieu of Division of Forest land for (14) Road projects in Asifabad & Kaghanagar Divisions of Kumuram Bheem-Asifabad District under LAWE Scheme of R & B Department.

Item of Work	Phy	Unit Cost 2023- 24(Rs.)	2023-24			2024-25			2025-26			2026-27			2027-28			2028-29		
			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)
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Cultural Operations																				
Singling and Coppicing to existing growth	Ha	1536.44		1690.084		45	1859	0.8366		2045.00		45.00	2249.50	1.01228		2474.45		45.00	2721.90	1.22485
Formation of New Fire Lines of 5.00 M width (03.01.04)	KM	9705	0.000	10676	0.000	15.000	11743	1.761												
Maintenance of Fire Lines (5.00 mtr width) (03.04.05)	KM	6386	0	7025	0.000	0.000	7727	0.000	15.000	8500	1.275	15.000	9350	1.402	15.000	10285	1.543	15.000	11313	1.697
Fire Watch Tower	LS	1500000	1	1500000	15.000															
Sub Total:					15.000			2.598			1.275						1.543			2.922
SMC Works																				
Construction of Check Dams	No	600000		660000		2.00	726000	14.52	2	798600	15.97									
Construction of Percolation Tanks	No	200000		220000		3	242000	7.26	5	266200	13.31									
Construction of Mini Percolation Tanks	No	50000		55000		5	60500	3.03	5	66550	3.33									
Sub Total:					0.000			24.805			32.610						0.000			0.000
Protection																				
Construction of boundary pillars @40 m interval	No's	10000		11000	0.000	178	12100	21.478	0	13310	0.000									
Erection of Chain Link Fencing	km	2200000		2420000	0.000	7.10	2662000	189.002												
Construction of Protection Camp	No	800000		880000	0.000	1	968000	9.680												
Sub Total:					0.000			220.2			0.000						0.000			0.000
Nursery activities (including casualities)																				
Purchase of Gachakaya Bag Plants of size 6"x8" for Planting on the trench done by user agency	Plant	10.000	19250	11.000	2.118	0.00	12.10	0.000	0	13.31	0.000									
Purchase of Gachakaya Bag Plants of size 6"x8" for Revist of Stabilization	Plant	9.773		10.750		7100	13.01	0.924	0.00	14.31	0.000	0	15.74	0.000						
Sub Total:					2.118			0.924			0.000						0.000			0.000
Nursery Infrastructure																				
Nursery Infrastructure	LS				0.000	0	1.5	0.000			0.000			0.000			0			
Sub Total:					0.000			0.000			0.000			0.000			0.000			0.000
Planting activities (L1 method) - (3m x3m) -																				
Stabilization of Gachakaya Seedlings	Ha	47700	7.00	52470	3.673	7.10	57717	4.098												
Revisit	Ha	47700		52470	0.000	0.00	57717	0.000	7.10	63489	4.508									
Sub Total:					3.673			4.098			4.508						0.000			0.000
Misc - Infrastructure & Admin. Charges																				
Monitoring and Awareness - Publicity	LS							2.00000			2.0000						2.000			2.000
Mobility, supervizing and infrastructure of front line staff for better monitoring of improvement of forests and wildlife	I	4000000	0	4400000	0.000	1	4810000	48.400		5324000	0.000		5856400	0.000		6442040	0.000		7086244	0.000
Improvements / Maintenance of Offices	LS				1.000			1.000			1.000			0.500			0.500			0.500
Sub Total:					1.000			51.400			3.000			2.500			2.500			2.500
Total					21.790			303.984			41.392						4.043			5.422
Administrative cost 10% over core activities					2.179			30.398			4.139						0.404			0.542
Grand Total					23.969			334.38			45.531						4.447			5.964

2084522(3)/2023/FCA SECTION-PCCF

Abstract of CA scheme for Non Forest Land (NFL) for 45.00 Ha in Sy.No. 322 of PANGIDIMADARA village of Tiryani Mandal of Asifabad Division of Kumram Bheem-Asifabad District in lieu of Diversion of Forest land for (14) Road projects in Asifabad & Kaghaznagar Divisions of Kumram Bheem-Asifabad District under LVE Scheme of R & B Department.

Item of Work	2029-30			2030-31			2031-32			2032-33			2033-34			2034-35			2035-36			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)	Phy		Fin
2	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46
ral Operations																								
ing and Coppicing to existing growth		2994.09		45.00	3293.50	1.48207		3622.85		45.00	3985.13	1.79331		4383.64		45.00	4822.01	2.16990				45.00		8.519
ation of New Fire Lines of 5.00 M width (03.01.04)																						15.00		1.761
tanance of Fire Lines (5.00 mtr width) (03.04.05)	15.000	12445	1.867	15.000	13689	2.053	15.000	15058	2.259	15.000	16564	2.485	15.000	18220	2.733	15.000	20042	3.006	15.000	22046	3.307	165		23.627
Watch Tower																						1		15.000
Sub Total:			1.867			3.535			2.259			4.278			2.733			5.176			3.307			48.907
Works																								
uction of Check Dams																						4		30.492
uction of Percolation Tanks																						8		20.570
uction of Mini Percolation Tanks																						10		6.353
Sub Total:			0.000			0.000			0.000			0.000			0.000			0.000			0.000			57.415
ection																								
uction of boundary pillars @40 m interval																						178		21.478
ion of Chain Link Fencing																						7		189.002
uction of Protection Camp																						1		9.680
Sub Total:			0.000			0.000			0.000			0.000			0.000			0.000			0.000			220.160
ery activities (including casualities)																								
ase of Gachakaya Bag Plants of size 6"x8" for Planting on																						19250		2.118
ecg done by user agency																						7100		0.924
ase of Gachakaya Bag Plants of size 6"x8" for Revist of																								
lization																								
Sub Total:			0.000			0.000			0.000			0.000			0.000			0.000			0.000			3.041
ery Infrastructure																								
ry Infrastructure																						0		0.000
Sub Total:			0.000			0.000			0.000			0.000			0.000			0.000			0.000			0.000
ing activities (LI method) - (3m x3m) -																								
ization of Gachakaya Seedlings																						14.10		7.771
it																						7.10		4.508
Sub Total:			0.000			0.000			0.000			0.000			0.000			0.000			0.000			12.279
- Infrastructure & Admin. Charges																								
oring and Awareness - Publicity																								10.000
ity, supervizing and infrastrurure of front line staff for		7794868	0.000		8574355	0.000		9431791	0.000		10374970	0.000		11412467	0.000		12553714	0.000		13809085	0.000			48.400
monitoring of improvement of forests and wildlife																								
vements / Maintenance of Offices			0.500			0.500			0.500			0.500			0.500			0.500			0.500			8.000
Sub Total:			0.500			0.500			0.500			0.500			0.500			0.500			0.500			66.400
Total			2.367			4.035			2.759			4.778			3.233			5.676			3.807			408.201
nsrative cost 10% over core activities			0.237			0.404			0.276			0.478			0.323			0.568			0.381			40.820
Grand Total			2.603			4.439			3.035			5.256			3.556			6.244			4.188			449.021

District Forest Officer,
KumramBheem-Asifabad

UNIT COST FOR MAINTENANCE OF BAG PLANTS (September to till disposal) (9x11) - FSR 2023-34

Sl. No.	FSR	Item of work	Unit	Quantity	As per FSR		Amount (Rs.)
					Rate (Rs.)	Per	
		MAINTENANCE OF BAG NURSERY FROM SEPTEMBER TO TILL DISPOSAL					
1	01.05.01	Watering plants for 10 m X 1 m size secondary bed	Bed/month	4	208.96	1	835.84
2	01.05.02	Shifting, grading and rearrangement in beds	Bed/weeding	1	290.16	1	290.16
3	01.05.04	Cost of Protection: One Nursery Watcher is allowed up to 1 lakh RT nursery or 100 secondary beds of polybags / 100 Teak beds of 10 x 1 m size or combination of both. One additional Nursery Watcher is permitted for nurseries having more than 1 lakh upto 3 lakh RT seedlings or more than 100 upto 300 secondary beds or Teak beds of 10 x 1 m size or combination of both. For more than 3 lakh RT or 300 secondary beds of Teak beds or combination of both another additional Nursery Watcher is allowed. While calculating the number of Nursery Watcher, care shall be taken to include the nursery raising under all Schemes at a particular site. No extra Nursery Watcher is allowed for primary beds of 1x1 m size. However, the above narrative is subject to the provisions cited under general instructions.	Watcher/month	5	10846.93	100	542.35
		Total					1668.35
		cost of each plant (500 Plants per bed)					3.3367



District Forest Officer
KB Asifabad

UNIT COST FOR MAINTENANCE OF BAG PLANTS (April to August) FSR -2023-24

Sl. No.	FSR	Item of work	Unit	Quantity	As per FSR		Amount (Rs.)
					Rate (Rs.)	Per	
	01.04.00	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" X9" bags ; 1100 Nos. of 6"X12" bags; 800 Nos. of 8"X12" bags; 400 Nos. of 10"x16" bags per bed)					
	01.04.01	Watering polybag secondary beds twice a day for 4 months					
1	a	Manually with rose spray or finely perforated nozzle attached to a hose pipe	Bed/month	4	338.27	1	1353.08
2	01.04.02	Weeding once during maintenance year	Bed/weeding	1	68.33	1	68.33
3	01.04.03	Shifting, grading and rearrangement in beds	Bed/shifting	2	290.16	1	580.32
4	01.04.05	Cost of foliar nutrient formulations like multiplex or NPK-19:19:19; fungicides and insecticides from April to August	As per actuals	1	20.00	1	20.00
	01.04.06	Cowdung Slurry application (One can apply chemical foliar spray or apply cowdung slurry - not both)					
5	a	Cost and transportation of fresh cowdung	As per actuals	1	25.00	1	25.00
6	01.04.07	Weeding in the space between the beds, inspection path and surroundings of Nursery	Bed	1	34.19	1	34.19
7	01.05.04	Cost of Protection: One Nursery Watcher is allowed up to 1 lakh RT nursery or 100 secondary beds of polybags / 100 Teak beds of 10 x 1 m size or combination of both. One additional Nursery Watcher is permitted for nurseries having more than 1 lakh upto 3 lakh RT seedlings or more than 100 upto 300 secondray beds or Teak beds of 10 x 1 m size or combination of both. For more than 3 lakh RT or 300 secodary beds of Teak bedsor combination of both another additional Nursery Watcher is allowed. While calculating the number of Nursery Watcher, care shall be taken to include the nursery raising under all Schemes at a particular site. No extra Nursery Watcher is allowed for primary beds of 1x1 m size. However, the above narrative is subject to the provisions cited under general instructions.	Watcher/ month	4	10846.93	100	433.88
8	01.04.09	Electricity charges			550.00		550.00
		Total					3064.80
9	01.04.08	Contingencies @ 5%					153.24
		2021-22 Total					3218.04
		cost of each plant (500 Plants per bed)					6.4361


District Forest Officer
KB Asifabad

UNIT COST FOR CONVERSION FROM 6"x8" to 9"x11" (FSR -2023- 24)

Sl. No.	FSR Code	Item of work	Unit	Quantity	As per FSR		Amount (Rs.)
					Rate (Rs)	Per	
		CONVERSION of Root Trainer plants or 4"x7" or 5"x9" bag-plants into higher size bags - to be done during September - October. At the time of conversion, the height of the plants should be at least above 0.45m in height (excluding the height of polybag).					
		Cost and Transport of ingredients for Potting Mixture: Red Soil, tank-silt / clayey soil, 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.					
	01.03.21	Transportation of soil mixture ingredients					
		Distance up to 5 km					
1	h	(h) 6" x 8" to 9" x 11" bags (4.717 - 1.433 = 3.284 cum) (500 Bags per Bed)	No	500	1447.37	1000	723.69
	01.03.22	Transportation of soil mixture ingredients more than 5 km distance and upto 25 km distance					
2	j	(j) 6" x 8" to 9" x 11" bags (4.717 - 1.433 = 3.284 cum)	No	500	38.32	1000	19.16
	01.03.24	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)					
3	h	(h) 6" x 8" to 9" x 11" bags (4.717 - 1.433 = 3.284 cum)	No	500	2554.32	1000	1277.16
	01.03.31	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					
4		Weeding the plants (2 weedings)	Bed	2	68.33	1	136.66
5	01.03.32	Shifting, Grading and rearranging in secondary beds - One Grading in February	Bed	2	290.16	1	580.32
	01.03.33	Watering the plants manually twice a day (from Novemembr - March) with rose spray or finely perforated nozzle attached to a hose pipe.					
6	a	Manually with rose spray or finely perforated nozzle attached to a hose pipe	Bed	5	338.34	1	1691.70
	01.03.37	Cost of foliar nutrient formulations like multiplex or NPK-19:19:19; fungicides and insecticides from July to Oct.					35.00
7	01.05.04	Cost of Protection: One Nursery Watcher is allowed up to 1 lakh RT nursery or 100 secondary beds of polybags / 100 Teak beds of 10 x 1 m size or combination of both. One additional Nursery Watcher is permitted for nurseries having more than 1 lakh upto 3 lakh RT seedlings or more than 100 upto 300 secondray beds or Teak beds of 10 x 1 m size or combination of both. For more than 3 lakh RT or 300 secodary beds of Teak bedsor combination of both another additional Nursery Watcher is allowed. While calculating the number of Nursery Watcher, care shall be taken to include the nursery raising under all Schemes at a particular site. No extra Nursery Watcher is allowed for primary beds of 1x1 m size. However, the above narrative is subject to the provisions cited under general instructions.	Bed	4	10846.93	100	433.88
8		Cost of the ploythene bags					2500.00
9	01.03.39	Electricity charges					600.00
		Total					7997.56
10	01.03.38	Contingencies @ 5%					399.878
		Total for 500 plants					8397.44
		cost of each plant					16.7949


District Forest Officer
KB Asifabad

Unit cost for Stabilization of RF Block boundary (CPT Bund stabilization) FSR 2023-24

			Area in Ha/Km. :		1.00	KM		
Sl. No.	FSR Item No.	Nature of work	Quantity		Rate	Per		Amount
1	2	3	4	5	6	7	8	9
		First year operations in ANR areas						
1		STABILIZATION OF RF BLOCK BOUNDARY CONTINUOUS PERIPHERAL TRENCH MOUND: Planting on peripheral trench mound and adjacent strips are taken up with the objective of increasing the effectiveness of trench as a barrier for entry of grazing animals and spread of fire. Also by planting on the mound, the loose soil gets stabilized and increases the life-span of trench. The rationale of planting the edible wild fruit species is to enhance the food base of the monkeys and other wild animals. The species selected for planting may be Pithecolobium dulce, Terminalia bellirica, Careya arborea, Bridellia retusa, Phyllanthus emblica, Semecarpus anardium, Buchanania lanzan, Tamarindus indica, Ficus benghalensis, Ficus religiosa, Limonia acidissima, Syzygium cuminii etc. All these plantings will be one time operation without further years' maintainance. The process includes following steps:						
	03.02.02	1) Planting of :- (A) 2 rows of Gachakaya (Caesalpinia bonduc) seedlings in 2 staggered rows in 1x1 m spacement (row to row 1 m and within the row 1 m spacing) on the outer slope of the trench mound; (B) 1 row of wild edible fruit species on the ridge line of the trench mound at 2 m apart; (C) bamboo (Dendrocalamus strictus) seedlings / rhizome(2-3 yr old) at 4 m apart in the middle of the inner slope of the mound; and (D) broadcasting of pretreated (overnight soaking in boiled water) Babul (Acacia nilotica) seeds inside trench @ 500gms per km by staff. (E) 15% extra over basic rates for revisiting areas only. The total planting points thus works out to be 2750 seedlings per km on trench mound.						
		Procurement of seedlings (Gachakaya 2000+ Bamboo-250 + fruit species-500) (2750 +25 % casualities per Kms= 3437 Nos or <u>3450 Nos</u>	3450	Nos	5.50	1	Nos	18975
		(A) 2 rows of Gachakaya (Caesalpinia bonduc) seedlings in 2 staggered rows in 1x1 m spacement (row to row 1 m and within the row 1 m spacing) on the outer slope of the trench mound.						
		(a) Allignment & Stacking (in 2 staggered rows)	2000	Nos	94.82	100	Nos	1896
		(b) Cost of preparation of stakes (0.45 m length) and transportation to site	2000	Nos	65.94	100	Nos	1319
		(c) Digging of 30 cm ³ pits to be done during June	2000	Nos	5.64	1	No	11280
		(e) Transportation of seedlings (including loading and unloading) & Internal transport –						
		(iii) From nursery to plantation site - upto 5 Km lead (4"X7") bag plants	2000	Nos	44.88	100	Nos	898
		(iv) From nursery to plantation site - beyond 5 Km upto 25 km lead (4"X7") bag plants (20 Kms X 1.43)	2000	Nos	33.00	100	Nos	660
		(g) Internal transportation of 4"X7" bag plants to planting points on Head loads	2000	Nos	47.38	100	Nos	948
		(h) Planting with 2.00 m apart in two row (1000 Nos. per km) and formation of saucer on lower slope to hold water.	2000	Nos	165.85	100	Nos	3317

2084522(3)/2023/FCA SECTION-PCCF

Sl. No.	FSR Item No.	Nature of work	Quantity		Rate	Per		Amount
1	2	3	4	5	6	7	8	9
2		(B) 1 row of wild edible fruit species on the ridge line of the trench mound at 2 m apart (Bag Planting)						
		(a) Allignment & Stacking	500	Nos	94.82	100	Nos	474
		(b) Cost of preparation of stakes (0.45 m length) and transportation to site	500	Nos	65.94	100	Nos	330
		(c) Digging of 30 cm ³ pits to be done during June	500	Nos	5.64	1	No	2820
		(e) Transportation of seedlings (including loading and unloading) & Internal transport –						
		(i) From nursery to plantation site – upto 5 Km lead - (4"x7") bag plants	500	Nos	44.88	100	Nos	224
		(ii) From nursery to plantation site - beyond 5 Km lead - for every extra km beyond 5 km upto 25 km (20 x 1.30=41.00)	500	Nos	33.00	100	Nos	165
		(f) Internal transportation of 4"x7" bag plants to planting points on Head loads	500	Nos	47.38	100	Nos	237
		(h)Planting with 2 m apart in one row (500Nos. per km)	500	Nos	165.85	100	Nos	829
3		(C) bamboo (Dendrocalamus strictus) seedlings / rhizome(2-3 yr old) at 4 m apart in the middle of the inner slope of the mound (Bag planting)						
		(a) Allignment & Stacking)	250	Nos	94.82	100	Nos	237
		(b) Cost of preparation of stakes (0.45 m length) and transportation to site	250	Nos	65.94	100	Nos	165
		(d) Digging of 45 cm ³ pits (50% of original rate) to be done during June	250	Nos	5.64	1	No	1410
		(e) Transportation of seedlings (including loading and unloading) & Internal transport –						
		(i) From nursery to plantation site – upto 5 Km lead - (6"x8") bag plants	250	Nos	44.88	100	Nos	112
		(ii) From nursery to plantation site - beyond 5 Km lead - for every extra km beyond 5 km upto 25 km (20 x 4.03=80.60)	250	Nos	33.00	100	Nos	83
		(f) Internal transportation of 6"x8" bag plants to planting points on Head loads	250	Nos	47.38	100	Nos	118
		(h)Planting with 4 m apart in one row (250 Nos. per km)	250	Nos	165.85	100	Nos	415
4		(D) broadcasting of pretreated (overnight soaking in boiled water) Babul (Acacia nilotica) seeds inside trench @ 500gms per km by staff						0
		Total						46911

2023-24

P. KM

47700

District Forest Officer
K.B. Asifabad

2084522(3)/2023/FCA SECTION-PCCF

Year-wise detailed Abstract of CA scheme for Development of Degraded Forest Land (DFL) for 45.00 Ha in Compartment No. 55 of Itikalpahad Beat of Makidi Section of Sirpur Range of Kaghaznagar Division of Kumuram Bheem-Asifabad District in lieu of Diversion of Forest land for Road projects in Asifabad & Kaghaznagar Divisions of Kumuram Bheem-Asifabad District under LWE Scheme of Roads & Building (R&B) Department.

Year-wise detailed Abstract of CA scheme for Development of Degraded Forest Land (DFL) for 45.00 Ha in Compartment No. 55 of Itikalpahad Beat of Makidi Section of Sirpur Range of Kaghaznagar Division of Kumuram Bheem-Asifabad District in lieu of Diversion of Forest land for Road projects in Asifabad & Kaghaznagar Divisions of Kumuram Bheem-Asifabad District under LWE Scheme of Roads & Building (R&B) Department.

Sl. No	Item of Work	Phy	Unit Cost 2021-22 (Rs.)	2023-24			2024-25			2025-26			2026-27			2027-28			2028-29			2029-30		
				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	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
	DEGRADED FOREST LAND (DFL) - 45.00 Ha																							
A	Nursery activities (including casualties)																							
1	Purchase of Bag Plants of size 6"x8"	Plant	10.000		11.000		60750	12.10	7.351	15188	13.31	2.021												
2	Conversion of bag plants from 6"x8" to 9"x11"	Plant	16.795		18.474		60750	20.32	12.345	15188	22.35	3.395												
3	Maintenance of Bag Plants of 9"x11"	Plant	9.773		10.750			13.01		60750	14.31	8.692	15188	15.74	9.56153									
	Sub Total:					0.000			19.696			14.109			9.562			0.000			0.000			0.000
	Nursery Infrastructure																							
4	Nursery Infrastructure	Ls			0.000	1	LS	15.000			5.000			0			0							
	Sub Total:					0.000			15.000			5.000			0.000			0.000			0.000			0.000
B	Planting activities (SMM) - (3m x3m) - 45.00 Ha																							
5	Advance Operations	Ha	45918				45.00	55561	25.002															
6	Raising of Plantation	Ha	112749							45.00	150069	67.531												
7	1st Year Maintenance	Ha	44252										45.00	64789	29.155									
8	2nd Year Maintenance	Ha	33833													45.00	54488	24.520						
9	3rd Year Maintenance	Ha	18459																45.00	32700	14.715			
10	4th Year Maintenance	Ha	18459																			45.00	35970	16.187
11	5th Year Maintenance	Ha	10322																					
12	6th Year Maintenance	Ha	2060																					
13	7th Year Maintenance	Ha	10322																					
14	8th Year Maintenance	Ha	2060																					
15	9th Year Maintenance	Ha	10322																					
16	10th Year Maintenance	Ha	2060																					
	Sub Total:					0.000			25.002			67.531			29.155			24.520			14.715			16.187
C	Forest Protection																							
17	Digging of CPT (1X1.5X1 Mt) along the DFL boundaries	Km	60000		66000	0.000	3.110	72600	2.258															
18	Stabilization of CPT	Km	47700		52470			57717	0.000	3.110	63489	1.974												
19	Construction of Mini Percolation Tanks	No	50000		55000		10	60500	6.050															
20	Construction of Check dams	No	600000		660000		2	726000	14.520	2	798600	15.972												
	Sub Total:					0.000			22.828			17.946			0.000			0.000			0.000			0.000
D	Administrative Cost - 10% over DFL Activities					0.000			6.753			9.959			3.872			2.452			1.472			1.619
	Total of DFL					0.000			89.279			114.545			42.588			26.972			16.187			17.805

2084522(3)/2023/FCA SECTION-PCCF

t of CA scheme for Development of Degraded Forest Land (DFL) for 45.00 Ha in Compartment No. 55 of Itikalpahad Beat of Makidi Section of Sirpur Range of Kaghaznagar Division of Kumuram Bheem-
t in lieu of Diversion of Forest land for Road projects in Asifabad & Kaghaznagar Divisions of Kumuram Bheem-Asifabad District under LWE Scheme of Roads & Building (R&B) Department.

SL No	Item of Work	2030-31			2031-32			2032-33			2033-34			2034-35			2035-36			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		Fin (Rs.in Lakhs)
1	2	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	44	45	46
	DEGRADED FOREST LAND (DFL) - 45.00 Ha																					
A	Nursery activities (including casualties)																					
1	Purchase of Bag Plants of size 6"x8"																			75938		9.372
2	Conversion of bag plants from 6"x8" to 9"x11"																			75938		15.741
3	Maintenance of Bag Plants of 9"x11"																			75938		18.254
	Sub Total:			0.000			0.000			0.000			0.000			0.000			0.000			43.367
	Nursery Infrastructure																					
4	Nursery Infrastructure																			1		20.000
	Sub Total:			0.000			0.000			0.000			0.000			0.000			0.000			20.000
B	Planting activities (SMM) - (3m x3m) - 45.00 Ha																					
5	Advance Operations																			45.00		25.002
6	Raising of Plantation																			45.00		67.531
7	1st Year Maintenance																			45.00		29.155
8	2nd Year Maintenance																			45.00		24.520
9	3rd Year Maintenance																			45.00		14.715
10	4th Year Maintenance																			45.00		16.187
11	5th Year Maintenance	45.00	22125	9.956																45.00		9.956
12	6th Year Maintenance				45.00	4856	2.185													45.00		2.185
13	7th Year Maintenance							45.00	26771	12.047										45.00		12.047
14	8th Year Maintenance										45.00	5876	2.644							45.00		2.644
15	9th Year Maintenance													45.00	32393	14.577				45.00		14.577
16	10th Year Maintenance																45.00	7110	3.200	45.00		3.200
	Sub Total:			9.956			2.185			12.047			2.644			14.577			3.200			221.720
C	Forest Protection																					
17	Digging of CPT (1X1.5X1 Mt) along the DFL boundaries																			3.11		2.258
18	Stabilization of CPT																			3.11		1.974
19	Construction of Mini Percolation Tanks																			10.00		6.050
20	Construction of Check dams																			4.00		30.492
	Sub Total:			0.000			0.000			0.000			0.000			0.000			0.000			40.774
D	Administrative Cost - 10% over DFL Activities			0.996			0.219			1.205			0.264			1.458			0.320			30.59
	Total of DFL			10.952			2.404			13.252			2.909			16.035			3.519			356.447

District Forest Officer,
KumramBheem-Asifabad

UNIT COST FOR MAINTENANCE OF BAG PLANTS (September to till disposal) (9x11) - FSR 2023-24

Sl. No.	FSR Code	Item of work	Unit	Quantity	As per FSR		Amount (Rs.)
					Rate (Rs.)	Per	
		MAINTENANCE OF BAG NURSERY FROM SEPTEMBER TO TILL DISPOSAL					
1	01.05.01	Watering plants for 10 m X 1 m size secondary bed	Bed/month	4	208.96	1	835.84
2	01.05.02	Shifting, grading and rearrangement in beds	Bed/weeding	1	290.16	1	290.16
3	01.05.04	Cost of Protection: One Nursery Watcher is allowed up to 1 lakh RT nursery or 100 secondary beds of polybags / 100 Teak beds of 10 x 1 m size or combination of both. One additional Nursery Watcher is permitted for nurseries having more than 1 lakh upto 3 lakh RT seedlings or more than 100 upto 300 secondray beds or Teak beds of 10 x 1 m size or combination of both. For more than 3 lakh RT or 300 secodary beds of Teak bedsor combination of both another additional Nursery Watcher is allowed. While calculating the number of Nursery Watcher, care shall be taken to include the nursery raising under all Schemes at a particular site. No extra Nursery Watcher is allowed for primary beds of 1x1 m size. However, the above narrative is subject to the provisions cited under general instructions.	Watcher/ month	5	10846.93	100	542.35
		Total					1668.35
		cost of each plant (500 Plants per bed)					3.3367



District Forest Officer
KB Asifabad

UNIT COST FOR MAINTENANCE OF BAG PLANTS (April to August) FSR -2023-24

Sl. No.	FSR Code	Item of work	Unit	Quantity	As per FSR		Amount (Rs.)
					Rate (Rs.)	Per	
	01.04.00	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" X9" bags ; 1100 Nos. of 6"X12" bags; 800 Nos. of 8"X12" bags; 400 Nos. of 10"x16" bags per bed)					
	01.04.01	Watering polybag secondary beds twice a day for 4 months					
1	a	Manually with rose spray or finely perforated nozzle attached to a hose pipe	Bed/month	4	338.27	1	1353.08
2	01.04.02	Weeding once during maintenance year	Bed/weeding	1	68.33	1	68.33
3	01.04.03	Shifting, grading and rearrangement in beds	Bed/shifting	2	290.16	1	580.32
4	01.04.05	Cost of foliar nutritient formulations like multiplex or NPK-19:19:19; fungicides and insecticides from April to August	As per actuals	1	20.00	1	20.00
	01.04.06	Cowdung Slurry application (One can apply chemical foliar spray or apply cowdung slurry - not both)					
5	a	Cost and transportation of fresh cowdung	As per actuals	1	25.00	1	25.00
6	01.04.07	Weeding in the space between the beds, inspection path and sorroundings of Nursery	Bed	1	34.19	1	34.19
7	01.05.04	Cost of Protection: One Nursery Watcher is allowed up to 1 lakh RT nursery or 100 secondary beds of polybags / 100 Teak beds of 10 x 1 m size or combination of both. One additional Nursery Watcher is permitted for nurseries having more than 1 lakh upto 3 lakh RT seedlings or more than 100 upto 300 secondray beds or Teak beds of 10 x 1 m size or combination of both. For more than 3 lakh RT or 300 secodary beds of Teak bedsor combination of both another additional Nursery Watcher is allowed. While calculating the number of Nursery Watcher, care shall be taken to include the nursery raising under all Schemes at a particular site. No extra Nursery Watcher is allowed for primary beds of 1x1 m size. However, the above narrative is subject to the provisions cited under general instructions.	Watcher/ month	4	10846.93	100	433.88
8	01.04.09	Electricity charges			550.00		550.00
		Total					3064.80
9	01.04.08	Contingencies @ 5%					153.24
		2021-22 Total					3218.04
		cost of each plant (500 Plants per bed)					6.4361

District Forest Officer
KB Asifabad

UNIT COST FOR CONVERSION FROM 6"x8" to 9"x11" (FSR -2023-24)

Sl. No.	FSR Code	Item of work	Unit	Quantity	As per FSR		Amount (Rs.)
					Rate (Rs)	Per	
		CONVERSION of Root Trainer plants or 4"x7" or 5"x9" bag-plants into higher size bags - to be done during September - October. At the time of conversion, the height of the plants should be at least above 0.45m in height (excluding the height of polybag).					
		Cost and Transport of ingredients for Potting Mixture: Red Soil, tank-silt / clay soil, 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.					
	01.03.21	Transportation of soil mixture ingredients					
		Distance up to 5 km					
1	h	(h) 6" x 8" to 9" x 11" bags (4 717 - 1.433 = 3.284 cum) (500 Bags per Bed)	No	500	1447.37	1000	723.69
	01.03.22	Transportation of soil mixture ingredients more than 5 km distance and upto 25 km distance					
2	j	(j) 6" x 8" to 9" x 11" bags (4 717 - 1.433 = 3.284 cum)	No	500	38.32	1000	19.16
	01.03.24	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)					
3	h	(h) 6" x 8" to 9" x 11" bags (4 717 - 1.433 = 3.284 cum)	No	500	2554.32	1000	1277.16
	01.03.31	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					
4		Weeding the plants (2 weedings)	Bed	2	68.33	1	136.66
5	01.03.32	Shifting, Grading and rearranging in secondary beds - One Grading in February	Bed	2	290.16	1	580.32
	01.03.33	Watering the plants manually twice a day (from Novemebr - March) with rose spray or finely perforated nozzle attached to a hose pipe.					
6	a	Manually with rose spray or finely perforated nozzle attached to a hose pipe	Bed	5	338.34	1	1691.70
	01.03.37	Cost of foliar nutrient formulations like multiplex or NPK-19:19:19; fungicides and insecticides from July to Oct.					35.00
7	01.05.04	Cost of Protection: One Nursery Watcher is allowed up to 1 lakh RT nursery or 100 secondary beds of polybags / 100 Teak beds of 10 x 1 m size or combination of both. One additional Nursery Watcher is permitted for nurseries having more than 1 lakh upto 3 lakh RT seedlings or more than 100 upto 300 secondray beds or Teak beds of 10 x 1 m size or combination of both. For more than 3 lakh RT or 300 secodary beds of Teak bedsor combination of both another additional Nursery Watcher is allowed. While calculating the number of Nursery Watcher, care shall be taken to include the nursery raising under all Schemes at a particular site. No extra Nursery Watcher is allowed for primary beds of 1x1 m size. However, the above narrative is subject to the provisions cited under general instructions.	Bed	4	10846.93	100	433.88
8		Cost of the ploythene bags					2500.00
9	01.03.39	Electricity charges					600.00
		Total					7997.56
10	01.03.38	Contingencies @ 5%					399.878
		Total for 500 plants					8397.44
		cost of each plant					16.7949

District Forest Officer
KB Asifabad

Unit Cost for Advance Operations for Raising of N.T.S.H. Plantations 3m X 3m. (SMM)-FSR-2023-24

Unit Rate per Ha

FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
02.08.01	Survey with GPS (Only staff to carry out) (Staff to carryout GPS Survey. One manday is allowed for assistance)	1	441.77	Plantation	442
02.08.02	Clearing unsalable unwanted jungle growth				
	(a) Sparse Jungle growth (< 10% ground area covered with Jungle growth)	0.4	2455.33	Ha	982
	(b) Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)	0.4	3690.64	Ha	1476
	(c) 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.	0.2	8670.61	Ha	1734
02.08.03	Uprootal of stumps				
	(a) Sparse Jungle growth (< 10% ground area covered with Jungle growth)	0.4	6586.65	Ha	2635
	(b) Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)	0.4	12748.32	Ha	5099
	(c) 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.	0.2	16573.42	Ha	3315
02.08.04	Collection and Removal of uprooted stumps of all sizes				
	(a) Sparse Jungle growth (< 10% ground area covered with Jungle growth)	0.4	6709.72	Ha	2684
	(b) Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)	0.4	10647.59	Ha	4259
	(c) 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.	0.2	12415.12	Ha	2483
02.08.05	Tilling the soil to a depth of 0.45 cm in the affected area				
a	Sparce jungle growth less than 10% ground area covered with jungle growth	1	20809.08	Ha	20809
	Unit Rate for FSR 2021-22				45918

District Forest Officer
KB Asifabad

Unit Rate per Ha

Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	3	4	5	6
02.09.02	Deep Ploughing the effective (excluding unsuitable patches) plantation area across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough. For untilled areas - Hard Soils	1	6492.13	Ha	6492
02.09.01	Removing congestion of root suckers and other uprooted material hindering the effective ploughing	1	1257.61	1	1258
02.09.04	© Alignment and staking including laying base line for Misc species with espacement 3mX3m (1111 Nos)	1111	105.41	100	1171
02.09.05 (ii)	Cost of preparation of stakes (2.00 m length) and transportation to site.(Subject to condition that the seedling height is 1.5. to 2.00 M)	1111	1415.61	100	15727
02.09.06	© Digging of 45 cm cube size pits	1111	10.65	1	11832
	Transportation of Bag plants / Root trainer plants from nursery site to plantation site including loading and unloading				
02.09.07	upto 5 Km lead(20X30 cm (9"X11")bag plants)	1111	309.57	100	3439
02.09.08	5 Km to 25 Km lead(20X30 cm (9"X11")bag plants)	1111	10.88	100	121
	Internal transport of bag plants/root trainers to planting points on head loads.				
02.09.10	20X30 cm (9"X11")bag plants	1111	194.46	100	2160
02.09.11	Cost of SSP, Chloridine dust or Chloropyriphos	1111	2.00	1	2222
a	Application of 50gm of SSP per pit	1111	46.32	100	515
	Planting Bag Plants				
02.09.12	Planting in 45 cm ³ Pit	1111	516.09	100	5734
02.15.10	Cost of supporting stake of 2.5 m long sturdy and straight and minimum 10 cm girth at base	1111	1950.89	100	21674
02.09.14 (a &b)	Watering to the plants - 2 waterings	1111	624.92	100	6943
02.09.15	Replacement of Casualties 20% during Raising & 25% in 1st year (In case of Eucalyptus 10% during raising and no causality replacement for further maintenance)	50% of rate of original pitting rate during raising year and 100% during maintenance years. Planting, Transportation and internal transportation as prescribed above.			
	Pitting	222	5.33	1	1182
	Transportation Up to 5 Km + Beyond 5 Km)	222	320.45	100	711
	Internal Transportation	222	194.46	100	432
	Planting	222	516.09	100	1146
02.09.16	Cost of DAP @25gm / planting point	1111	2.00	1	2222
02.09.17	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 & closing.	1111	46.32	100	515
02.09.18	<i>Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.</i>	1111	191.53	100	2128
02.09.19	Circular weeding cum Deep Soil working to a radius of 0.5m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (during Nov - Dec)	1111	890.24	100	9891
02.09.20	Inter-ploughing (during November) the effective (excluding unsuitable patches) plantation area across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough	1	4045.91	1	4046
02.09.22	Uprootal of Mahaveera Weed	1	4306.88	1	4307
02.09.25	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher 10846.93 x 9 = 86895 /20	1	4881.12	Ha	4881
02.09.24	Contingencies provision for Raising of plantaitons: i) Fixing of Plantation Boards and Corner Stones ii) Contingencies and Miscellaneous (with in 5% of the estimate cost subject to ceiling of Rs. 5,000/-)				2000
	Unit Rate for FSR 2021-22				112749

District Forest Officer
KB Asifabad

Unit Cost for 1st Year Maintenance of NTS Plantation (3 m X 3 m) SMM per Ha -FSR-2023-24

Unit Rate per Ha					
FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
02.10.01	Replacement of Casualties 25% during Raising & 25% in 1st year (In case of Eucalyptus 10% during raising and no casualty replacement for further maintenance) - 25 % proposed	50% of rate of original pitting rate during raising year and 100% during maintenance years. Planting, Transportation and internal transportation as prescribed above.			
02.09.06	© Digging of 45 cm cube size pits -	278	10.650	1	2961
02.09.07	Transportation up 5km	278	309.57	100	861
02.09.08	Transportation beyond 5 Km (25 - 5) = 20 KM	278	10.88	100	30
02.09.10	Internal Transportation	278	194.46	100	541
02.09.12	Planting in 45 cm ³ Pit	278	516.09	100	1435
02.09.16	Cost of DAP @25gm / planting point	1111	1.00	1	1111
02.09.14 (a &b)	Watering to the plants - 2 waterings	1111	624.92	100	6943
02.09.17	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 & closing. - 50% of rate	1111	46.32	100	515
02.10.02	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.	1111	191.53	100	2128
02.10.03	Circular weeding cum Deep Soil working to a radius of 0.5m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (during Nov - Dec)	1111	890.24	100	9891
02.10.04	Uprootal of Mahaveera	1	4306.69	Ha	4307
02.10.05	Inter-ploughing (during September) the effective plantation area (excluding unsuitable patches) across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough.	1	3391.73	Ha	3392
02.10.06	Pruning of flower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)	1111	146.59	100	1629
02.10.09	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation;	1	6508	Ha	6508
02.10.08	Contingencies provision for Raising of plantaitons: i) Fixing of Plantation Boards and Corner Stones ii) Contingencies and Miscellaneous (with in 5% of the estimate cost subject to ceiling of Rs. 5,000/-)				2000
Unit Rate for 2021-22					44252

District Forest Officer
KB Asifabad

**Unit Cost for 2nd Year Maintenance of NTSH Plantation (3m x 3m)SMM per Ha -
FSR-2023-24**

Unit Rate per Ha					
FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
02.10.01	Replacement of Casualties 25% during Raising & 25% in 1st year (In case of Eucalyptus 10% during raising and no casualty replacement for further maintenance) - 20% proposed	50% of rate of original pitting rate during raising year and 100% during maintenance years. Planting, Transportation and			
02.09.06	Digging of 45 cm cube size pits -	222	10.650	1	2364
02.09.07	Transportation up 5km	222	309.57	100	687
02.09.08	Transportation beyond 5 Km (25 - 5) = 20 KM	222	10.88	100	24
02.09.10	Internal Transportation	222	194.46	100	432
02.09.12	Planting in 45 cm ³ Pit	222	516.09	100	1146
02.09.14 (a & b)	Watering to the plants - 2 waterings	1111	624.92	100	6943
02.11.02	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (July-Aug)	1111	890.24	100	9891.00
02.11.03	Pruning of flower branch initials of Timber and NTFP species by sciculture upto 1/3 rd height (to be done during July - Aug)	1111	146.59	100	1629.00
02.10.04	Uprootal of Mahaveera (60% of the area)	0.60	4306.69	Ha	2584
02.01.03	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.	100	7.25	Rmt	725
02.11.06	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation;	1	6508	Ha	6508
02.11.05	Contingencies provision for Raising of plantaitons: i) Fixing of Plantation Boards and Corner Stones ii) Contingencies and Miscellaneous (with in 5% of the estimate cost subject to ceiling of Rs. 5,000/-)				900
	Unit Rate for 2021-22				33833


 District Forest Officer
 KB Asifabad

Unit Cost for 3rd Year Maintenance of NTSB Plantation (3m x 3m) SMM per Ha -FSR-2023-24

Unit Rate per Ha					
FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
02.11.02	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (July-Aug)	1111	890.24	100	9891
02.11.03	Pruning of flower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)	1111	146.59	100	1629
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	100	430.54	100 Rmt	431
02.11.05	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation;	1	6508	Ha	6508
	Unit Rate for 2021-22				18459


District Forest Officer
KB Asifabad

Unit Cost for 4th Year Maintenance of NTSH Plantation (3m x 3m) SMM per Ha -FSR-2023-24

Unit Rate per Ha					
FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	3	4	5	6
02.11.02	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (July-Aug)	1111	890.24	100	9891
02.11.03	Pruning of flower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)	1111	146.59	100	1629
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	100	430.54	100 Rmt	431
02.11.05	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation;	1	6508.16	Ha	6508
Unit Rate for 2021-22					18459


District Forest Officer
KB Asifabad

Unit Cost for 5th Year Maintenance of NTSH Plantation (3m x 3m)SMM per Ha -FSR-2023-24

Unit Rate per Ha					
FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	3	4	5	6
02.11.02	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (July-Aug)-the work will be carried out between 1 m to 1.1 m in a ring formation- Hence 25% of cost adopted	1111	890.24	100	9891
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	100	430.54	100 Rmt	431
Unit Rate for 2021-22					10322


District Forest Officer
KB Asifabad

Unit Cost for 6th Year Maintenance of NTSH Plantation (3m x 3m) SMM per Ha -FSR-2023-24

Unit Rate per Ha					
FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
02.11.03	Pruning of flower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)	1111	146.59	100	1629
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	100	430.54	100 Rmt	431
	Unit Rate for FSR 2021-22				2060


District Forest Officer
KB Asifabad

Unit Cost for 7th Year Maintenance of NTSH Plantation (3m x 3m) SMM per Ha FSR-2023-24

Unit Rate per Ha					
FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
02.11.02	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (July-Aug)- the work will be carried out between 1 m to 1.1 m in a ring formation- Hence 25% of cost adopted	1111	890.24	100	9891
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	100	430.54	100 Rmt	431
	Unit Rate for FSR 2021-22				10322


District Forest Officer
KB Asifabad

Unit Cost for 8th Year Maintenance of NTSH Plantation (3m x 3m) SMM per Ha -FSR-2023-24

Unit Rate per Ha					
FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
02.11.03	Pruning of flower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)	1111	146.59	100	1629
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	100	430.54	100 Rmt	431
	Unit Rate for FSR 2021-22				2060


District Forest Officer
KB Asifabad

Unit Cost for 9th Year Maintenance of NTSH Plantation (3m x 3m)SMM per Ha -FSR-2023-24

Unit Rate per Ha					
FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
02.11.02	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (July-Aug)- the work will be carried out between 1 m to 1.1 m in a ring formation- Hence 25% of cost adopted	1111	890.24	100	9891
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	100	430.54	100 Rmt	431
	Unit Rate for FSR 2021-22				10322

District Forest Officer
KB Asifabad

Unit Cost for 10th Year Maintenance of NTSH Plantation (3m x 3m) SMM per Ha -FSR-2023-24

Unit Rate per Ha					
FSR Code	Item of work	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	4	5	6	7
02.11.03	Pruning of flower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)	1111	146.59	100	1629
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	100	430.54	100 Rmt	431
	Unit Rate for FSR 2021-22				2060


District Forest Officer
KB Asifabad

Unit cost for Digging of Cattle Proof Trench (CPT) along the RF Boundary (DFL Boundary)

Unit cost for 1.00 KM

Sl.No	Particulars	F.S.R. Item No.	Quantity		Rate	Per	Amount
1	2	3	4		5	6	7
1	Digging of CPT along the Reserve Forest Boundary line of Nambal Reserve Forest with the Machinery including excavation in all kinds of soils and depositing the excavation earth as directed with Minimum lead and lifts including cost of Machinery and labour 1000 Mtrs x((1m+1.5m)/2)x1m = 1250 Cu.m (per KM)		1250	Cum	48.40	Cum	60500
			Total :				60500
			Add SGST (9 %) :				3630
			Add CGST (9 %) :				3630
			Add CESS (1 %) :				605
			Grand Total :				68365

Or 60000



District Forest Officer
KB Asifabad

Unit cost for Stabilization of RF Block boundary (CPT Bund stabilization) FSR 2023-24

			Area in Ha/Km. :		1.00	KM		
Sl. No.	FSR Item No.	Nature of work	Quantity		Rate	Per		Amount
1	2	3	4	5	6	7	8	9
		First year operations in ANR areas						
1		STABILIZATION OF RF BLOCK BOUNDARY CONTINUOUS PERIPHERAL TRENCH MOUND: Planting on peripheral trench mound and adjacent strips are taken up with the objective of increasing the effectiveness of trench as a barrier for entry of grazing animals and spread of fire. Also by planting on the mound, the loose soil gets stabilized and increases the life-span of trench. The rationale of planting the edible wild fruit species is to enhance the food base of the monkeys and other wild animals. The species selected for planting may be Pithecolobium dulce, Terminalia bellirica, Careya arborea, Bridellia retusa, Phyllanthus emblica, Semecarpus anardium, Buchanania lanzan, Tamarindus indica, Ficus benghalensis, Ficus religiosa, Limonia acidissima, Syzygium cuminii etc. All these plantings will be one time operation without further years' maintainance. The process includes following steps:						
	03.02.02	1) Planting of :- (A) 2 rows of Gachakaya (Caesalpinia bonduc) seedlings in 2 staggered rows in 1x1 m spacement (row to row 1 m and within the row 1 m spacing) on the outer slope of the trench mound; (B) 1 row of wild edible fruit species on the ridge line of the trench mound at 2 m apart; (C) bamboo (Dendrocalamus strictus) seedlings / rhizome(2-3 yr old) at 4 m apart in the middle of the inner slope of the mound; and (D) broadcasting of pretreated (overnight soaking in boiled water) Babul (Acacia nilotica) seeds inside trench @ 500gms per km by staff. (E) 15% extra over basic rates for revisiting areas only. The total planting points thus works out to be 2750 seedlings per km on trench mound.						
		Procurement of seedlings (Gachakaya 2000+ Bamboo-250 + fruit species-500) (2750 +25 % casualities per Kms= 3437 Nos or <u>3450 Nos</u>	3450	Nos	5.50	1	Nos	18975
		(A) 2 rows of Gachakaya (Caesalpinia bonduc) seedlings in 2 staggered rows in 1x1 m spacement (row to row 1 m and within the row 1 m spacing) on the outer slope of the trench mound.						
		(a) Alignment & Stacking (in 2 staggered rows)	2000	Nos	94.82	100	Nos	1896
		(b) Cost of preparation of stakes (0.45 m length) and transportation to site	2000	Nos	65.94	100	Nos	1319
		(c) Digging of 30 cm ³ pits to be done during June	2000	Nos	5.64	1	No	11280
		(e) Transportation of seedlings (including loading and unloading) & Internal transport –						
		(iii) From nursery to plantation site - upto 5 Km lead (4"X7") bag plants	2000	Nos	44.88	100	Nos	898
		(iv) From nursery to plantation site - beyond 5 Km upto 25 km lead (4"X7") bag plants (20 Kms X 1.43)	2000	Nos	33.00	100	Nos	660
		(g) Internal transportation of 4"X7" bag plants to planting points on Head loads	2000	Nos	47.38	100	Nos	948
		(h) Planting with 2.00 m apart in two row (1000 Nos. per km) and formation of saucer on lower slope to hold water.	2000	Nos	165.85	100	Nos	3317

Sl. No.	FSR Item No.	Nature of work	Quantity		Rate	Per		Amount
1	2	3	4	5	6	7	8	9
		(B) 1 row of wild edible fruit species on the ridge line of the trench mound at 2 m apart (Bag Planting)						
		(a) Allignment & Stacking	500	Nos	94.82	100	Nos	474
		(b) Cost of preparation of stakes (0.45 m length) and transportation to site	500	Nos	65.94	100	Nos	330
		(c) Digging of 30 cm ³ pits to be done during June	500	Nos	5.64	1	No	2820
		(e) Transportation of seedlings (including loading and unloading) & Internal transport –						
		(i) From nursery to plantation site – upto 5 Km lead - (4"x7") bag plants	500	Nos	44.88	100	Nos	224
		(ii) From nursery to plantation site - beyond 5 Km lead - for every extra km beyond 5 km upto 25 km (20 x 1.30=41.00)	500	Nos	33.00	100	Nos	165
		(f) Internal transportation of 4"x7" bag plants to planting points on Head loads	500	Nos	47.38	100	Nos	237
		(h)Planting with 2 m apart in one row (500Nos. per km)	500	Nos	165.85	100	Nos	829
3		(C) bamboo (Dendrocalamus strictus) seedlings / rhizome(2-3 yr old) at 4 m apart in the middle of the inner slope of the mound (Bag planting)						
		(a) Allignment & Stacking)	250	Nos	94.82	100	Nos	237
		(b) Cost of preparation of stakes (0.45 m length) and transportation to site	250	Nos	65.94	100	Nos	165
		(d) Digging of 45 cm ³ pits (50% of original rate) to be done during June	250	Nos	5.64	1	No	1410
		(e) Transportation of seedlings (including loading and unloading) & Internal transport –						
		(i) From nursery to plantation site – upto 5 Km lead - (6"x8") bag plants	250	Nos	44.88	100	Nos	112
		(ii) From nursery to plantation site - beyond 5 Km lead - for every extra km beyond 5 km upto 25 km (20 x 4.03=80.60)	250	Nos	33.00	100	Nos	83
		(f) Internal transportation of 6"x8" bag plants to planting points on Head loads	250	Nos	47.38	100	Nos	118
		(h)Planting with 4 m apart in one row (250 Nos. per km)	250	Nos	165.85	100	Nos	415
4		(D) broadcasting of pretreated (overnight soaking in boiled water) Babul (Acacia nilotica) seeds inside trench @ 500gms per km by staff						0
		Total						46911

2021-22

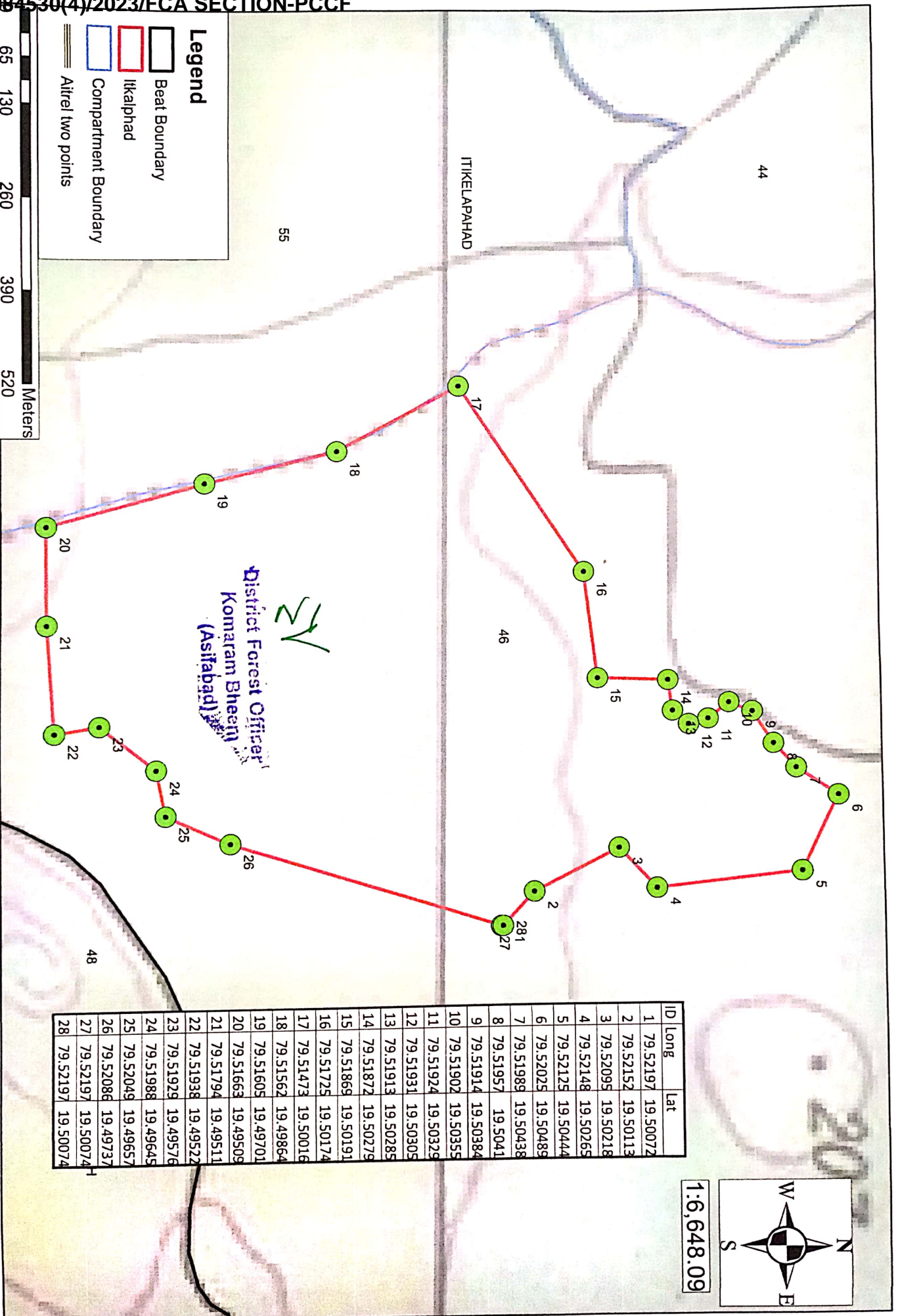
P. KM

47700

District Forest Officer
KB Asafabad

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Map showing forest land for DFL 45 Hac (R&B) in Compt No. 55 of Itkalphadt Beat of Sirpur Range in Kaghaznagar Division



CA land to be taken over in Sy No 322 of Pangdimadara (V), Tiryani (M) of Asifabad Division in lieu of forest land proposed for diversion for various Road Projects in Asifabad District in favor of EE (R&B), Asifabad

Area In Ha - 44.4886 Ha
Perimeter in m - 6727.81 m

19°15'30"N

19°15'0"N

19°14'30"N

19°14'0"N

19°15'30"N

19°15'0"N

19°14'30"N

19°14'0"N

Name	Easting	Northing	Longitude	Latitude
A1	308378.302	2130422.053	79.17677400	19.25837273
A2	308389.513	2130340.422	79.17688878	19.25763642
A3	308382.724	2130311.398	79.17682711	19.25737352
A4	308356.418	2130274.198	79.17658062	19.25703510
AAA	308313.496	2130255.858	79.17617422	19.25686536
A5	308275.430	2130214.887	79.17581627	19.25649167
A6	308253.395	2130181.988	79.17560928	19.25619240
A7	308230.264	2130119.215	79.17539625	19.25562319
A8	308227.105	2130079.220	79.17537021	19.25526163
A9	308250.106	2130074.310	79.17558945	19.25521946
A9A	308284.086	2130093.641	79.17591071	19.25539729
A10	308355.927	2130096.091	79.17727883	19.25516212
A11	308427.644	2130066.098	79.17727883	19.25516212
A12	308457.828	2130012.850	79.17751122	19.25468400
A13	308461.240	2129956.300	79.17760932	19.25417351
A14	308463.427	2129930.269	79.17763271	19.25393859
A15	308473.514	2129904.402	79.17773123	19.25370589
A16	308487.930	2129885.168	79.17787026	19.25353352
A17	308485.712	2129858.813	79.17785179	19.25329525
A18	308498.640	2129808.431	79.17797978	19.25284138
A19	308501.799	2129766.559	79.17794068	19.25210137
A19A	308493.670	2129726.559	79.17794068	19.25210137
A20	308478.399	2129696.805	79.17779841	19.25183117
A21	308506.349	2129638.691	79.17807003	19.25130888
A22	308445.508	2129637.266	79.17749153	19.25129024
A23	308441.660	2129608.420	79.17745782	19.25102932
A23A	308420.739	2129578.337	79.17726184	19.25075560
A24	308390.589	2129578.390	79.17697508	19.25075322
A25	308368.582	2129463.730	79.17677723	19.24971542
A26	308233.314	2129453.214	79.17549179	19.24960761
A27	308092.576	2129513.105	79.17414730	19.25013524
A28	308040.191	2129440.988	79.17365629	19.24947884
A29	308043.853	2129356.859	79.17369953	19.24871927
A30	307972.805	2129346.682	79.17302485	19.24862059
A31	307939.879	2129379.231	79.17270845	19.24891148
A32	307934.688	2129436.973	79.17265331	19.24943256
A33	307871.922	2129452.233	79.17205483	19.24956443
A34	307808.249	2129460.015	79.17144849	19.24962867
A35	307832.889	2129521.153	79.17167671	19.25018326
A35A	307866.425	2129508.001	79.17199697	19.25006765
A36	307901.364	2129499.330	79.17233013	19.24999265
A37	307904.108	2129555.003	79.17235066	19.25049579
A37A	307965.459	2129543.287	79.17293532	19.25039580
A38	308001.818	2129624.361	79.17327301	19.25113158
A39	308025.860	2129595.380	79.17350457	19.25087208
A40	308113.176	2129625.464	79.17433199	19.25115211
A40A	308227.176	2129595.927	79.17541917	19.25089613
A41	308301.053	2129576.333	79.17612375	19.25072615
A42	308338.311	2129638.613	79.17647187	19.25129225
A43	308261.293	2129650.379	79.17573820	19.25139122
A43A	308198.782	2129712.136	79.17513751	19.25194313
A44	308168.846	2129741.034	79.17484990	19.25220132
A44A	308160.072	2129751.936	79.17476537	19.25227897
A45	308099.142	2129764.193	79.17418465	19.25240390
A45A	308075.942	2129750.917	79.17396533	19.25228177
A45B	308088.750	2129725.564	79.17408968	19.25205398
A45C	308082.942	2129674.807	79.17403951	19.25159495
A46	308068.591	2129656.029	79.17390490	19.25142397
A47	308023.695	2129659.872	79.17347752	19.25145442
A48	307981.504	2129651.596	79.17307708	19.25137566
A49	307935.625	2129684.886	79.17263741	19.25167200
A50	307921.515	2129668.531	79.17250485	19.25152293
A51	307885.306	2129677.858	79.17215955	19.25160373
A52	307851.348	2129698.246	79.17183454	19.25178467
A53	307812.825	2129764.922	79.17145148	19.25238327
A54	308307.785	2129797.997	79.17162898	19.25268374
A55	307845.804	2129842.856	79.17176734	19.25309037
A56	307898.704	2129816.044	79.17227314	19.25285322
A57	307906.659	2129804.392	79.17234996	19.25274872
A58	307958.353	2129783.204	79.17284374	19.25256225
A59	308053.086	2129783.341	79.17374470	19.25257248
A60	308069.656	2129772.834	79.17390335	19.25247915
A61	308082.097	2129779.824	79.17402097	19.25254347
A62	308067.921	2129802.339	79.17388990	19.25274549
A63	308035.864	2129815.938	79.17357766	19.25286538
A64	307995.301	2129825.303	79.17319093	19.25294603
A65	307971.017	2129839.406	79.17295856	19.25307111
A66	307948.408	2129864.701	79.17274100	19.25329745
A66A	308006.236	2129959.537	79.17328150	19.25415958
A67	308047.584	2130035.419	79.17366717	19.25484894
A68	308076.581	2130162.066	79.17393029	19.25595667
A69	308118.056	2130208.814	79.17432008	19.25642188
A70	308128.845	2130241.760	79.17441941	19.25672050
A71	308150.105	2130274.700	79.17461792	19.25705625
A72	308155.304	2130317.230	79.17466352	19.25740472
A73	308161.670	2130349.208	79.17472087	19.25769417
A74	308170.065	2130359.662	79.17479967	19.25778940
A75	308196.962	2130359.027	79.17505556	19.25778621
A76	308234.170	2130347.398	79.17541060	19.25768470
A77	308223.215	2130310.506	79.17531009	19.25735042
A78	308193.148	2130308.359	79.17502434	19.25732818
A79	308174.148	2130291.218	79.17484535	19.25717154
A80	308205.143	2130262.599	79.17514300	19.25691597

Name	Easting	Northing	Longitude	Latitude
A81	308240.703	2130260.086	79.17548147	19.25689665
A82	308272.179	2130294.576	79.17577739	19.25721117
A83	308267.703	2130087.748	79.17575548	19.25534251
A84	308268.748	2130351.397	79.17573907	19.25722411
A85	308302.803	2130369.258	79.17606120	19.25788868
A86	308315.010	2128770.072	79.17633657	19.24344464
A87	308331.107	2128815.955	79.17648548	19.24386062
A88	308439.681	2128790.999	79.17752053	19.24364549
A89	308537.190	2128760.694	79.17845090	19.24338098
A90	308403.394	2128499.498	79.17720451	19.24100896
A91	308509.405	2128673.083	79.17819539	19.24258697
A92	308460.323	2128571.211	79.17773877	19.24166213
A93	308391.331	2128486.653	79.17709108	19.24089180
A94	308367.457	2128467.769	79.17686591	19.24071896
A95	308375.501	2128431.849	79.17694599	19.24039526
A96	308340.697	2128369.973	79.17662118	19.23983305
A97	308225.417	2128329.869	79.17552886	19.23945987
A98	308233.803	2128358.680	79.17560574	19.23972091
A99	308189.530	2128395.294	79.17518104	19.24004744
A100	308120.453	2128472.889	79.17537227	19.24075033
A101	308190.798	2128511.334	79.17518151	19.24109573
A102	308172.198	2128575.097	79.17499826	19.24166992
A103	308147.895	2128600.524	79.17476459	19.24189729
A104	308120.219	2128689.546	79.17449249	19.24269879
A105	308237.195	2128689.020	79.17560502	19.24270513
A106	308260.545	2128620.745	79.17583389	19.24209063
A107	308310.079	2128659.331	79.17630112	19.24244387

Legend

● DGPS Surveyed Points

□ Area Proposed for CA Land

Geographic Coordinate System - WGS84 Datum (UTM 44N)

0 200 400 800 Meters