

GOVERNMENT OF TELANGANA  
FOREST DEPARTMENT

From:

Sri C.P. Vinod Kumar, I.F.S.,  
Chief Conservator of Forests,  
Adilabad Circle Adilabad (FAC).

To:

The Prl. Chief Conservator of Forests,  
(Head of Forest Force)  
Telangana State,  
"Aranya Bhavan" Saifabad,  
**HYDERABAD.****Rc.No. 1990/2020-M6, Dt. 17.08.2022.**

Sir,

**Sub :-** TSFD-F(C) Act, 1980- Diversion of 0.521 Ha of Forest Land for Construction of BT Road from Kamana to Serkepalli from Km 0/0 to 8/920 of Wankidi Mandal, Garlapet (Part) RF of Asifabad Forest Division of Kumuram Bheem-Asifabad District in favour of Executive Engineer, R&B Division, KB -Asifabad - **Additional Information sought for by IRO, Hyd - Report submitted -Reg.**

**Ref:-** 1. IRO, MoEF &CC, GoI, Hyd Ref. No.4-TSB243/2022-HY/371, Dt: 01.02.2022.  
2. Prl. CCF, TS Hyd Rc.No. 15852/2020/FCA-2, Dated:03.03.2022.  
3.D.F.O., KB-Asifabad Rc.No.12/2021/S4,dt:16.06.2022 & 12.07.2022  
(received on 21.07.2022)

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In compliance with the instructions issued in the reference 2<sup>nd</sup> cited above, I am submitting herewith the additional information as called for by the IRO GOI, Hyderabad vide reference 1<sup>st</sup> cited in the proposal for Diversion of 0.521 Ha of Forest Land for Construction of BT Road from Kamana to Serkepalli from Km 0/0 to 8/920 of Wankidi Mandal, Garlapet (Part) RF of Asifabad Forest Division of Kumuram Bheem-Asifabad District in favour of Executive Engineer, R&B Division, Kumuram Bheem Asifabad received from the District Forest Officer, KB Asifabad vide reference 3<sup>rd</sup> cited, the details are as follows.

II. The State Government reported that out of 2.156 Ha proposed by the user agency, only an extent of 0.521 Ha is passing through RF area and remaining area is outside the reserve forests. However, map along with DGPS co-ordinates of the revised extent of forest area recommended by the State Government has not been uploaded in the online application. Hence, revised maps (KML and Toposheets) indicating the extent of road alignment passing through the forest area shall be uploaded.

Reply: The District Forest Officer, KB Asifabad has stated that, the user agency has submitted the revised map indicating the extent of road alignment passing through the RF Area.(Copy enclosed)

III. The cross section of the road with clearly indicating components like actual carriage way (BT-portion), drainage, shoulders etc., duly authenticated by the DFO concerned shall be furnished.

Reply: The District R&B Officer, Executive Engineer, Kumuram Bheem Asifabad has submitted the cross section details. (Copy enclosed herewith)

IV. As the proposed forest area for diversion is revised from 2.156 Ha to 0.521 ha, the CA scheme and area may also be revised accordingly.

**Reply:** The District Forest Officer, KB Asifabad has submitted that the CA scheme to an extent of area 81.4313 Ha in sy.no.322 of Pangidimadara village of Tiryani Mandal of Asifabad division for entire (21) R&B Roads project of Asifabad district including this project( i.e., 2.156 ha) is prepared and submitted to the PCCF and the CA Scheme is also approved by the PCCF on 02.11.2021, the Total Financial outlay of the CA scheme for Rs.1256.465 Lakh. Further the District Forest Officer, KB Asifabad has submitted that, after processed the proposal this project area proposed to be diversion comes to 0.521 ha.

This is submitted for favour of kind information and further necessary action.

Encl: (2 sets maps)

Yours faithfully,  
Sd/-Chief Conservator of Forests,  
Adilabad Circle Adilabad.

//::T.C.B.O.:://

*Sargia*  
MANAGER

*4/8*  
17/8/22

**GOVERNMENT OF TELANGANA  
ROADS & BUILDINGS DEPARTMENT**

**From**

Sri. G.Peddaiah, M.Tech.,  
District (R&B) Officer,  
(Executive Engineer)  
Kumuram Bheem Asifabad.

**To**

District Forest Officer,  
Kumuram Bheem Asifabad District.

**Lr.No.DB/EE Asifabad/R&B/EDS/2022-23**

**Date:26.05.2022**

Sir,

**Sub:** Diversion of 0.521 ha (revised from 2.156 Ha) of FLin Asifabad Division for Construction of BT road from Kamana to Sarkepalli from km 0/0 to 8/920 of Garlapet (Part) RF of Wankidi mandal, Asifabad Division, Kumuram Bheem Asifabad District- in favour of Dist R&B Officer, Kumuram Bheem Asifabad District- Submission of Additional Documents/Clarifications-Req-Reg.

**Ref:** 1. IRO, MoEF&CC, Hyd-F.No. 4-TSB243/2022- Hyd/371, Dt 21.02.2022.  
2. Prl. C.C.F., TS Hyderabad, Rc.No. 15852/2020/FCA-2, Dated: 03.03.2022.

\* \* \* \* \*

Anent to the reference cited, I am here to submit the following additional information/clarifications for further consideration of proposals of Construction of BT road from Kamana to Sarkepalli from km 0/0 to 8/920 of Garlapet (Part) RF of Wankidi mandal,

1. The State Government reported that out of 2.156 Ha proposed by User Agency, only an extent of 0.521 ha is passing through RF area and remaining area is outside the Reserve Forests. However, map along with DGPS co-ordinates of the revised extent of forest area recommended by the State Government has not been uploaded in the online application. **Hence revised maps (KML and Topo sheets) indicating the extent of road alignment passing through the forest area shall be uploaded.**  
**Reply:** Revised map enclosed, kml file uploaded in the online application.

2. The cross section of the road width clearly indicating components like actual carriage way (**BT-portion**), drainage, shoulders etc dully authenticated by the DFO concerned shall be furnished.

**Reply:** Cross section sheet enclosed.

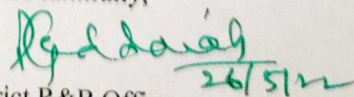
3. As the proposed forest area for diversion is revised from 2.156 ha to 0.521 ha, the C.A., scheme and area may also be revised accordingly.

**Reply:** Related to Forest department.

In view of the above, I request the District Forest Officer, Kumuram Bheem Asifabad to obtain necessary approval for the above work at earliest.

Encl:1.Cross section sheet-5 Nos.  
2.Revised Map-5 Nos

Yours faithfully,



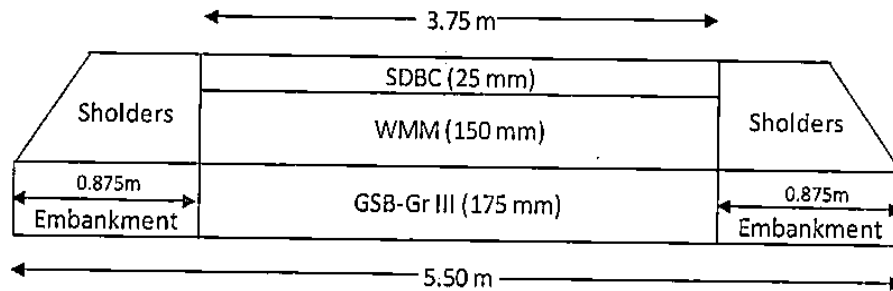
District R&B Officer  
Division, Kumrambheem Asifabad

### Cross Section Details

Design/cross section of the proposed road clearly indicating the width of carriage way (BT portion), shoulders/ Berm / drainage etc may be furnished.

**Reply:** Road designed with CBR 3.55% and Traffic (T3). And below cross section will explain width and thickness of carriage way (BT portion), Shoulder/Berm/Drainage.


#### BT road from Kamana to Sarkepally

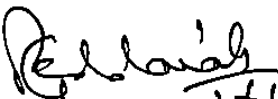


SDBC: Semi-Dense Bituminous Concrete

WMM: Wet Mix Macadam

GSB: Granular Sub-Base

  
Assistant Executive Engineer,  
(R&B) Section, Asifabad.

  
District R&B Officer,  
Kumrambheem Asifabad District

  
District Forest Officer  
Komaram Bheem  
(Asifabad)

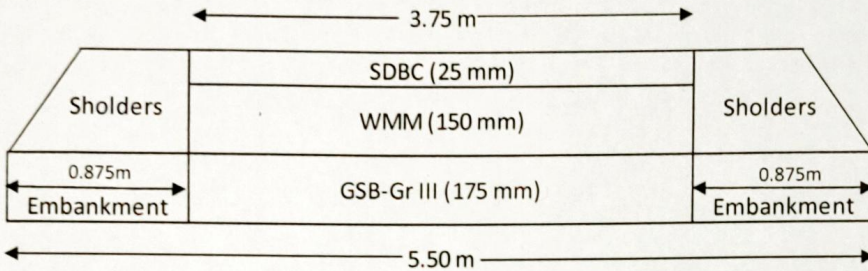


## Cross Section Details

Design/cross section of the proposed road clearly indicating the width of carriage way (BT portion), shoulders/ Berm / drainage etc may be furnished.

**Reply:** Road designed with CBR 3.55% and Traffic (T3). And below cross section will explain width and thickness of carriage way (BT portion), Shoulder/Berm/Drainage.

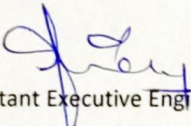
### BT road from Kamana to Sarkepally

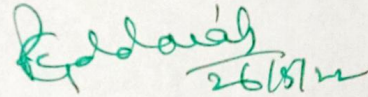


SDBC: Semi-Dense Bituminous Concrete

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Assistant Executive Engineer,  
(R&B) Section, Asifabad.

  
District R&B Officer,  
Kumuram Bheem Asifabad District



Map showing Forest area proposed for Diversion for road works from Kamana to Serkepalli road km 0/0 to 8/920 in Asifabad Division sanctioned under RCPLWE in favour of EE, R&B, Asifabad

Length of line = 947 m  
Width in mts = 5.5 m  
Area in Ha = 0.5209 Ha

Lainqudem

239

Marepalli

ASIFABAD

GARLAPET RF

GAR-263

KAGHAZNAGAR

GAR-264

Sarkepalli

District Forest Officer  
Komaram Bheem  
(Asifabad)

GAR-265

Legend

- Points
- DGPS Surveyed Points
- Area Proposed for Diversion

Name	Easting	Northing	Longitude	Latitude
OS17	332389.487	2152127.058	79.40325536	19.45658629
OS18	332450.165	2152070.382	79.40383825	19.45607938
OS19	332517.404	2152000.040	79.40448483	19.45544958
OS20	332582.570	2151935.594	79.40511115	19.45487284
OS21	332635.303	2151880.782	79.40561820	19.45438210
OS22	332709.905	2151816.380	79.40633437	19.45380656
OS23	332767.159	2151758.227	79.40688476	19.45328601
OS24	332826.471	2151673.138	79.40745713	19.45252230
OS25	332856.246	2151581.987	79.40774872	19.45170136
OS26	332882.189	2151534.925	79.40799995	19.45127839
OS27	332894.706	2151484.258	79.40812362	19.45082172
OS28	332967.313	2151426.833	79.40882014	19.45030903
FD1	332372.300	2152138.550	79.40309066	19.45668866

Geographic Coordinate System - WGS84 Datum ( UTM 44 N )

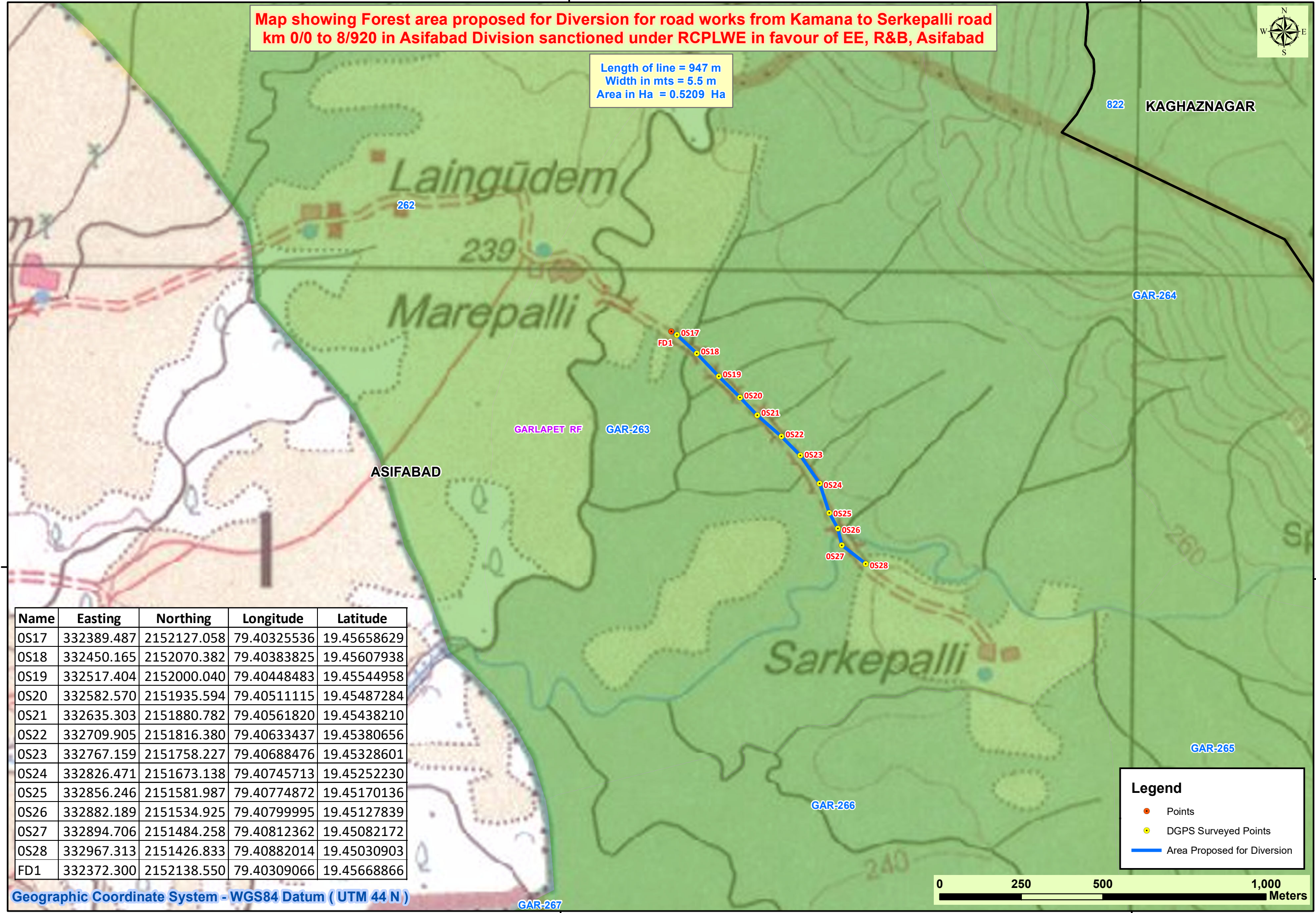
DISTRICT R&B OFFICER  
Executive Engineer  
Kumram Bheem-Asifabad

0 250 500 1,000 Meters



Map showing Forest area proposed for Diversion for road works from Kamana to Serkepalli road  
km 0/0 to 8/920 in Asifabad Division sanctioned under RCPLWE in favour of EE, R&B, Asifabad

Length of line = 947 m  
Width in mts = 5.5 m  
Area in Ha = 0.5209 Ha



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OS20	332582.570	2151935.594	79.40511115	19.45487284
OS21	332635.303	2151880.782	79.40561820	19.45438210
OS22	332709.905	2151816.380	79.40633437	19.45380656
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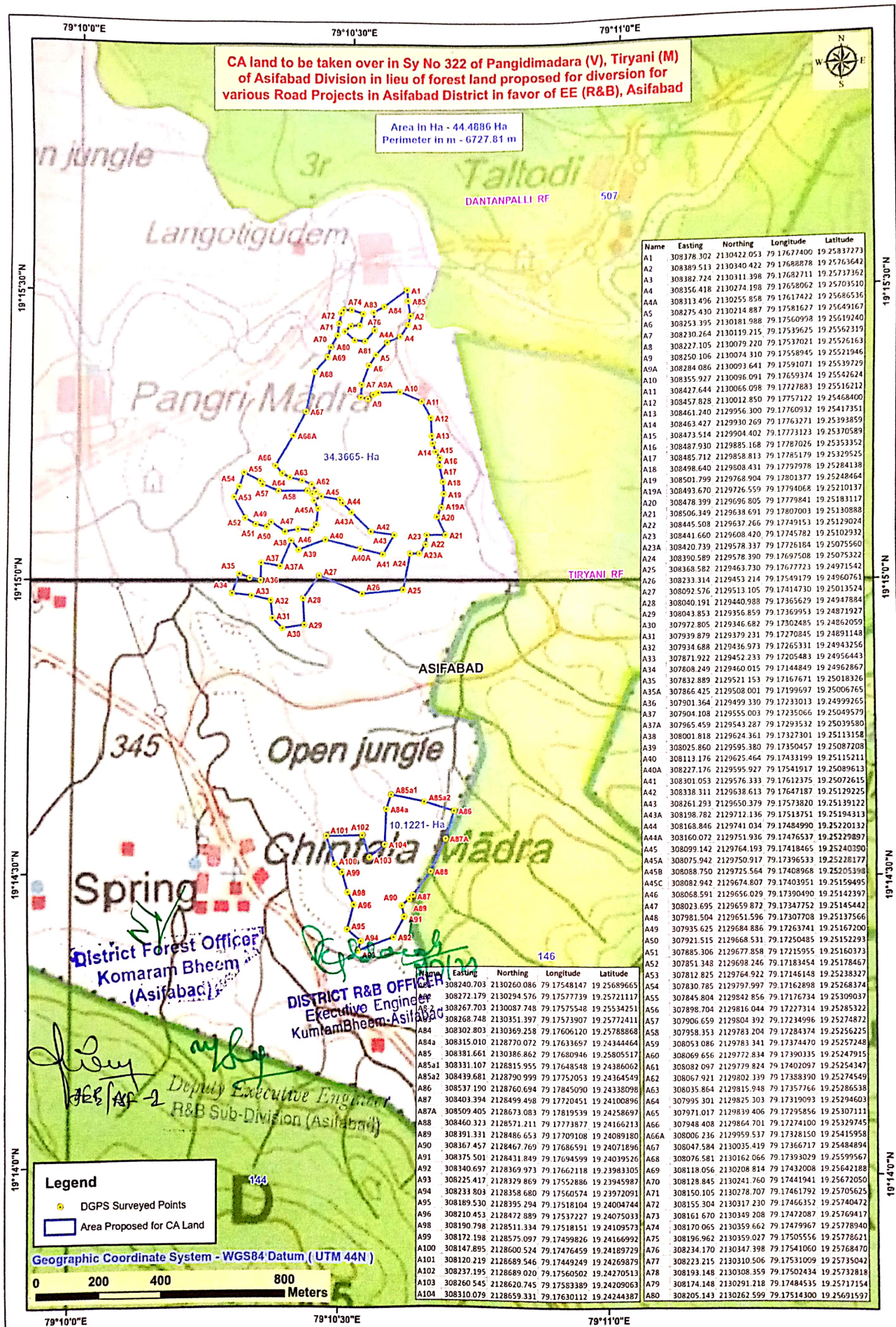
Geographic Coordinate System - WGS84 Datum ( UTM 44 N )

Legend

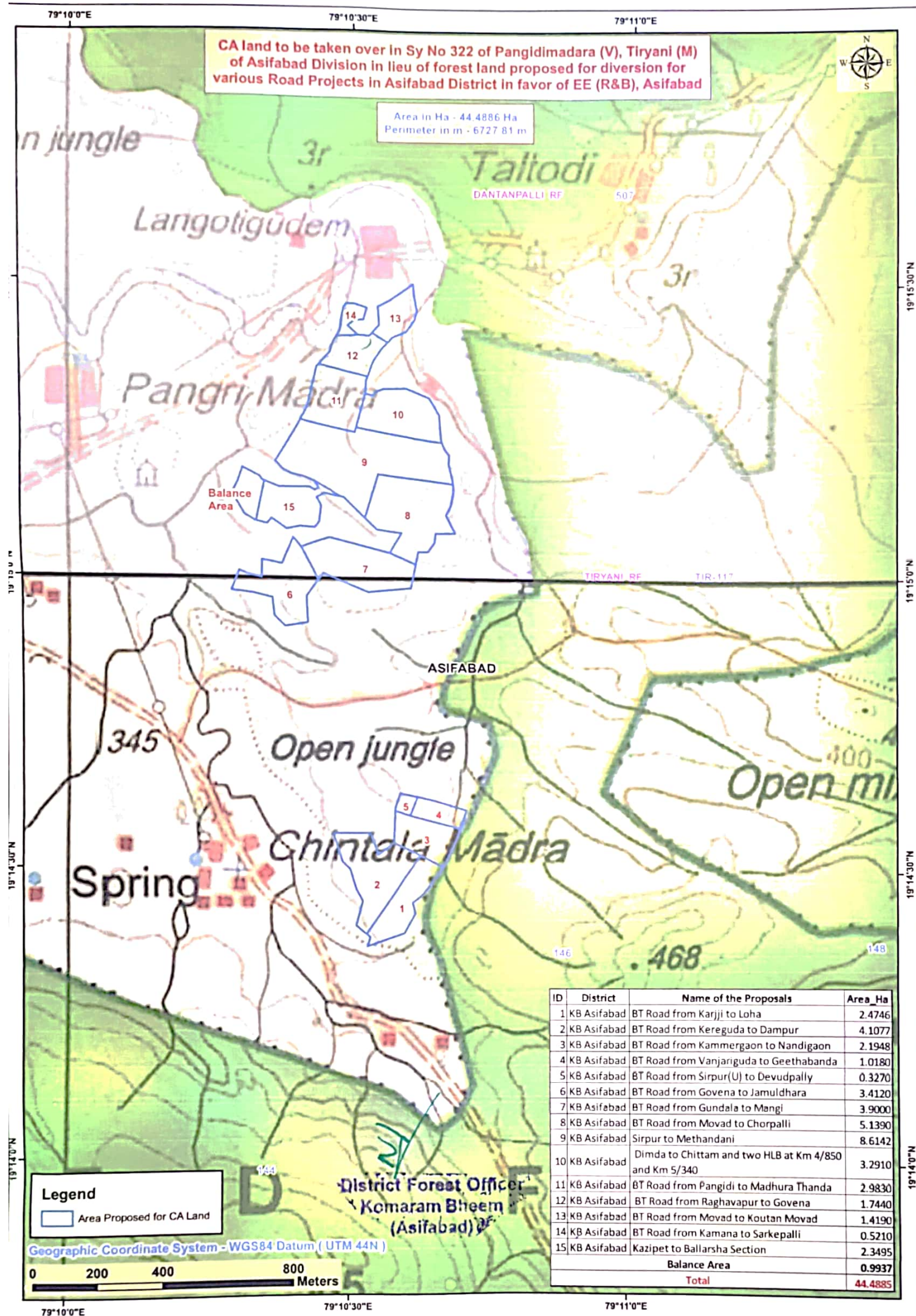
- Points
- DGPS Surveyed Points
- Area Proposed for Diversion





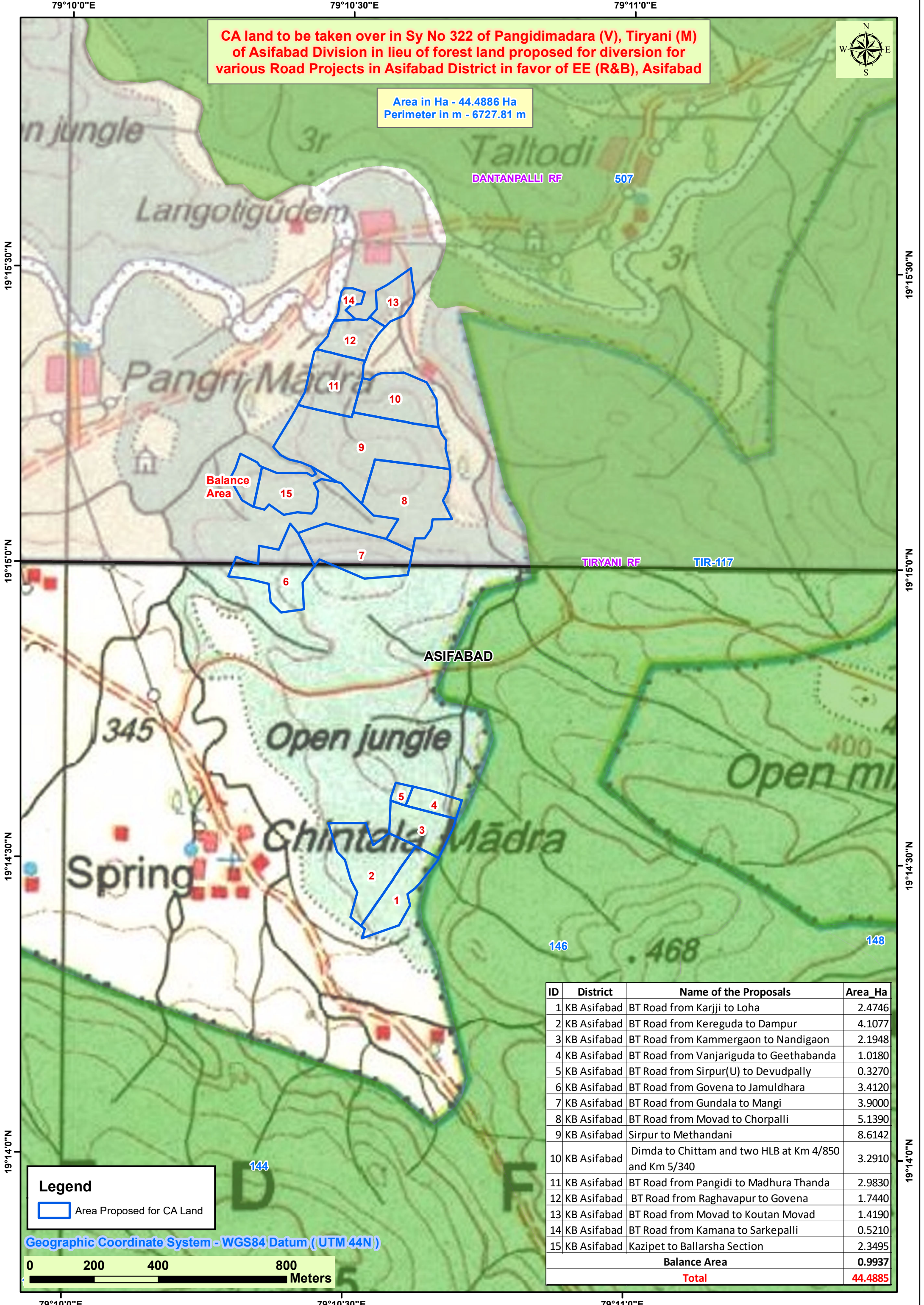






ID	District	Name of the Proposals	Area_Ha
1	KB Asifabad	BT Road from Karji to Loha	2.4746
2	KB Asifabad	BT Road from Kereguda to Dampur	4.1077
3	KB Asifabad	BT Road from Kammergaon to Nandigaon	2.1948
4	KB Asifabad	BT Road from Vanjariguda to Geethabanda	1.0180
5	KB Asifabad	BT Road from Sirpur(U) to Devudpally	0.3270
6	KB Asifabad	BT Road from Govena to Jamuldhara	3.4120
7	KB Asifabad	BT Road from Gundala to Mangi	3.9000
8	KB Asifabad	BT Road from Movad to Chorpalli	5.1390
9	KB Asifabad	Sirpur to Methandani	8.6142
10	KB Asifabad	Dimda to Chittam and two HLB at Km 4/850 and Km 5/340	3.2910
11	KB Asifabad	BT Road from Pangidi to Madhura Thanda	2.9830
12	KB Asifabad	BT Road from Raghavapur to Govena	1.7440
13	KB Asifabad	BT Road from Movad to Koutan Movad	1.4190
14	KB Asifabad	BT Road from Kamana to Sarkepalli	0.5210
15	KB Asifabad	Kazipet to Ballarsha Section	2.3495
Balance Area			0.9937
Total			44.4885






CA land to be taken over in Sy No 322 of Pangidimadara (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

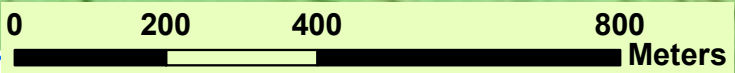
Area in Ha - 44.4886 Ha  
Perimeter in m - 6727.81 m



Legend

 Area Proposed for CA Land

Geographic Coordinate System - WGS84 Datum ( UTM 44N )



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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  
Diversion of Forest land for (14) Road projects in Asifabad & Kaghaznagar Divisions of Kumuram Bheem-Asifabad District under LWE Scheme of R & B Department.

Sl. No	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)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
A	<b>Cultural Operations</b>																				
1	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
2	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												
3	Maintanace 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
5	Fire Watch Tower	LS	1500000	1	1500000	15.000															
	<b>Sub Total:</b>					<b>15.000</b>			<b>2.598</b>			<b>1.275</b>			<b>2.415</b>			<b>1.543</b>			<b>2.922</b>
B	<b>SMC Works</b>																				
6	Construction of Check Dams	No	600000		660000		2.00	726000	14.52	5	266200	13.31									
7	Construction of Percolation Tanks	No	200000		220000		3	242000	7.26	5	66550	3.33									
8	Construction of Mini Percolation Tanks	No	50000		55000		5	60500	3.03	5	66550	3.33									
	<b>Sub Total:</b>					<b>0.000</b>			<b>24.805</b>			<b>32.610</b>			<b>0.000</b>			<b>0.000</b>			<b>0.000</b>
C	<b>Protection</b>																				
9	Construction of boundary pillars @40 m interval	No's	10000		11000	0.000	178	12100	21.478	0	13310	0.000									
10	Erection of Chain Link Fencing	km	2200000		2420000	0.000	7.10	2662000	189.002												
11	Construction of Protection Camp	No	800000		880000	0.000	1	968000	9.680												
	<b>Sub Total:</b>					<b>0.000</b>			<b>220.2</b>			<b>0.000</b>			<b>0.000</b>			<b>0.000</b>			<b>0.000</b>
D	<b>Nursery activities ( including casualities)</b>																				
12	Purchase of Gachakaya Bag Plants of size 6"x8" for Planting on th trencg done by user agency	Plant	10.000	19250	11.000	2.118	0.00	12.10	0.000	0	13.31	0.000									
13	Purchase of Gachakaya Bag Plants of size 6"x8" for Revist of Stabillization	Plant	9.773		10.750		7100	13.01	0.924	0.00	14.31	0.000	0	15.74	0.000						
	<b>Sub Total:</b>					<b>2.118</b>			<b>0.924</b>			<b>0.000</b>			<b>0.000</b>			<b>0.000</b>			<b>0.000</b>
	<b>Nursery Infrastructure</b>																				
	Nursery Infrastructure	Ls			0.000	0	LS	0.000				0.000			0.000			0			
	<b>Sub Total:</b>					<b>0.000</b>			<b>0.000</b>			<b>0.000</b>			<b>0.000</b>			<b>0.000</b>			<b>0.000</b>
E	<b>Planting activities ( LI method) - (3m x3m) -</b>																				
14	Stabilization of Gachakaya Seedlings	Ha	47700	7.00	52470	3.673	7.10	57717	4.098												
15	Revisit	Ha	47700		52470	0.000	0.00	57717	0.000	7.10	63489	4.508									
	<b>Sub Total:</b>					<b>3.673</b>			<b>4.098</b>			<b>4.508</b>			<b>0.000</b>			<b>0.000</b>			<b>0.000</b>
F	<b>Misc - Infrastructure &amp; Admin. Charges</b>																				
16	Monitoring and Awareness - Publicity	LS							2.00000			2.00000			2.000			2.000			2.000
17	Mobility, supervizing and infrastrurure of front line staff for better monitoring of improvement of forests and wildlife	1	4000000	0	4400000	0.000	1	4840000	48.400		5324000	0.000		5856400	0.000		6442040	0.000		7086244	0.000
18	Improvements / Maintenance of Offices	LS				1.000			1.000			1.000			0.500			0.500			0.500
	<b>Sub Total:</b>					<b>1.000</b>			<b>51.400</b>			<b>3.000</b>			<b>2.500</b>			<b>2.500</b>			<b>2.500</b>
	<b>Total</b>					<b>21.790</b>			<b>303.984</b>			<b>41.392</b>			<b>4.915</b>			<b>4.043</b>			<b>5.422</b>
D	<b>Adminstrative cost 10% over core activities</b>					2.179			30.398			4.139			0.491			0.404			0.542
	<b>Grand Total</b>					<b>23.969</b>			<b>334.38</b>			<b>45.531</b>			<b>5.406</b>			<b>4.447</b>			<b>5.964</b>



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 Diversion of Forest land for (14) Road projects in Asifabad & Kaghnaznagar Divisions of Kumuram Bheem-Asifabad District under LWE Scheme of R & B Department.

Sl. No	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
1	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
A	Cultural Operations																								
1	Singling 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
2	Formation of New Fire Lines of 5.00 M width (03.01.04)																						15.00		1.761
3	Maintanace 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
5	Fire Watch Tower																						1		15.000
	Sub Total:			1.867			3.535			2.259			4.278			2.733			5.176			3.307			48.907
B	SMC Works																								
6	Construction of Check Dams																						4		30.492
7	Construction of Percolation Tanks																						8		20.570
8	Construction 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
C	Protection																								
9	Construction of boundary pillars @40 m interval																						178		21.478
10	Erection of Chain Link Fencing																						7		189.002
11	Construction of Protection Camp																						1		9.680
	Sub Total:			0.000			0.000			0.000			0.000			0.000			0.000			0.000			220.160
D	Nursery activities ( including casualities)																								
12	Purchase of Gachakaya Bag Plants of size 6"x8" for Planting on th trencg done by user agency																						19250		2.118
13	Purchase of Gachakaya Bag Plants of size 6"x8" for Revist of Stabillization																						7100		0.924
	Sub Total:			0.000			0.000			0.000			0.000			0.000			0.000			0.000			3.041
	Nursery Infrastructure																								
	Nursery Infrastructure																						0		0.000
	Sub Total:			0.000			0.000			0.000			0.000			0.000			0.000			0.000			0.000
E	Planting activities ( L.I method) - (3m x3m) -																								
14	Stabilization of Gachakaya Seedlings																						14.10		7.771
15	Revisit																						7.10		4.508
	Sub Total:			0.000			0.000			0.000			0.000			0.000			0.000			0.000			12.279
F	Misc - Infrastructure & Admin. Charges																								
16	Monitoring and Awareness - Publicity																								10.000
17	Mobility, supervizing and infrastrurure of front line staff for better monitoring of improvement of forests and wildlife		7794868	0.000		8574355	0.000		9431791	0.000		10374970	0.000		11412467	0.000		12553714	0.000		13809085	0.000			48.400
18	Improvements / 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
D	Adminstrative 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,  
Kumram Bheem-Asifabad

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20.00



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 Asifabad District

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 casualities)																							
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 boundries	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



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

14.52

309.885



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.

**Rc. 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 Bhavan, 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 14<sup>th</sup> 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



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
	<b>Total</b>		<b>805.468</b>

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 Mancherial**

**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 Mancherial**



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	<b>Sirpur to Methandani</b>	8.6142
2	Adilabad	KB-Asifabad	BT Road from <b>Raghavapur to Govena</b>	1.744
3	Adilabad	KB-Asifabad	BT Road from <b>Govena to Jamuldhara</b>	3.412
4	Adilabad	KB-Asifabad	BT Road from <b>Kereguda to Dampur</b>	4.1077
5	Adilabad	KB-Asifabad	BT Road from <b>Gundala to Mangi</b>	3.9
6	Adilabad	KB-Asifabad	BT Road from <b>Kamana to Sarkepalli</b>	0.521
7	Adilabad	KB-Asifabad	BT Road from <b>Vanjariguda to Geethabanda</b>	1.018
8	Adilabad	KB-Asifabad	BT Road from <b>Movad to Chorpalli</b>	5.139
9	Adilabad	KB-Asifabad	BT Road from <b>Movad to Koutan Movad</b>	1.419
10	Adilabad	KB-Asifabad	BT Road from <b>Sirpur (U) to Devudpally</b>	0.327
11	Adilabad	KB-Asifabad	BT Road from <b>Pangidi to Madhura Thanda</b>	2.983
12	Adilabad	KB-Asifabad	<b>HLB on Dimda to Chittam at km 4/850 km 5/340</b>	3.291
13	Adilabad	KB-Asifabad	<b>Kazipet to Ballarsha Section</b>	2.3495
14	Adilabad	KB-Asifabad	BT Road from <b>Kammergaon to Nadigaon</b>	2.1948
15	Adilabad	KB-Asifabad	BT Road from <b>Karji to Loha</b>	2.4746
			<b>Total- A</b>	<b>44.4886</b>

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 47<sup>0</sup> Centigrade. Summer and winter are separated by prolonged rainy season. The area is served by South-West Monsoon. However Cyclonic rains are common during October - December.

**3.7 RAINFALL :**

Rainfall is mostly from the Southwest monsoon, Cyclonic rains during October-December is quite common. Average annual rainfall is 1051 mm.

**3.8 EXISTING VEGETATION:**

The 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 <sup>st</sup> 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
	<b>Total</b>	<b>449.02</b>	<b>356.45</b>	<b>805.47</b>

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

### 4.0 SCHEME COMPONENT:

The area identified for Compensatory Afforestation is 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](http://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**



**Site suitability certificate and inspection report of the District Forest Officer, KumramBheem-Asifabad.**

Certified that, the following Compensatory Afforestation land of **44.4886 ha** identified in Kumuram Bheem-Asifabad District for the proposed for diversion of forest land for various road project in Kumuram Bheem-Asifabad District of the District ( R&B) Officer, Executive Engineer, Kumurambheem Asifabad District. The said area has been inspected by the undersigned on 24.03.2023, the details for which is as follows.

Sl.No	Sy.No	Extent in Ha	Village	Madal	District	Nearest Forest Block & Compt.No	Distance of non-forest land from nearest forest block	Soil type	Remarks
1	2	3	4	5	6	7	8	9	10
1	322/PP	44.4886	Pangidimadara	Tiryani	KB Asifabad	RF Tiryani, Compt No. 146 of Chitalamadara Beat	Adjacent	Mixed with sheetrock	

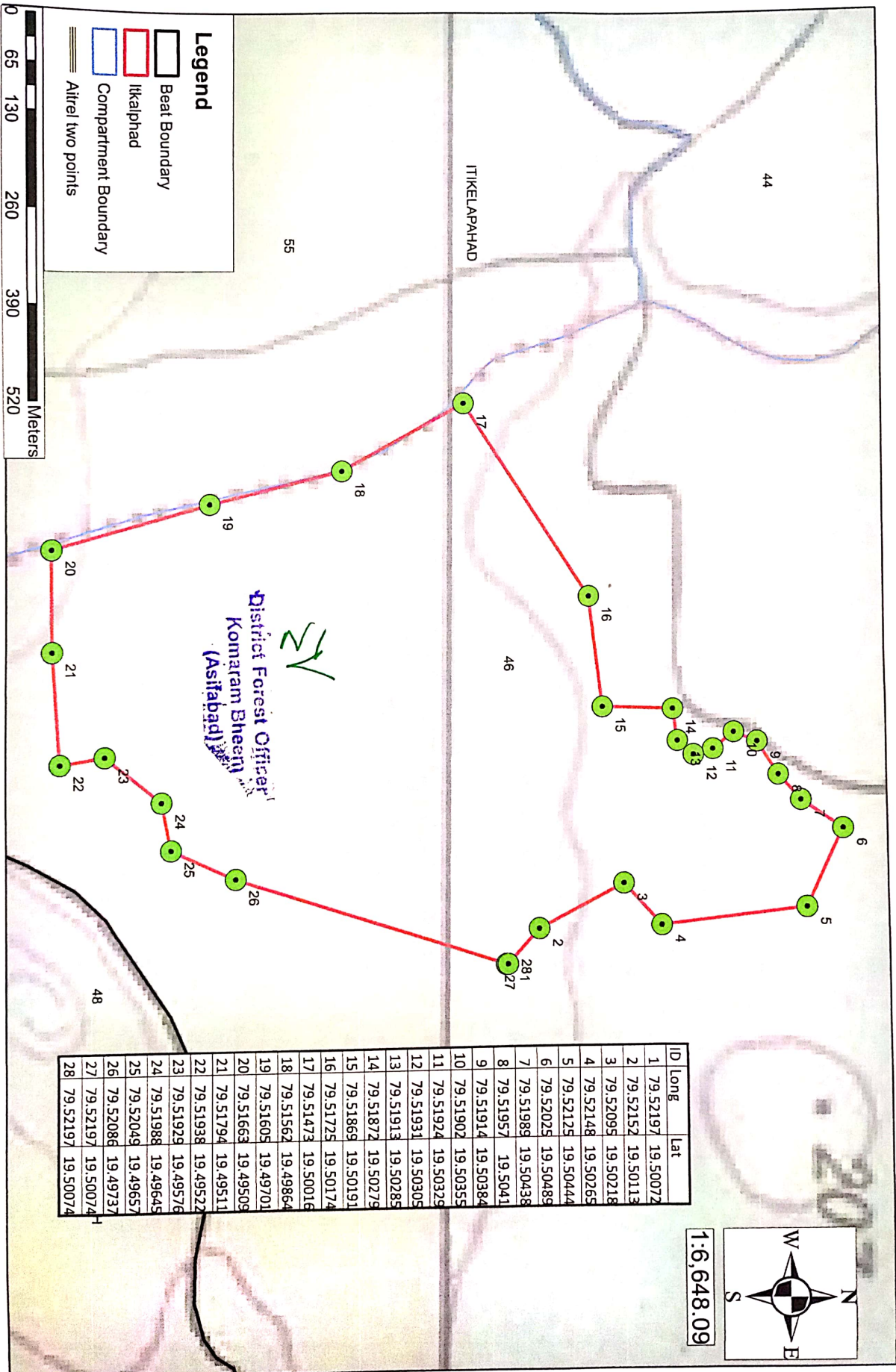
Inspected Non-Forest Government land to extent of **44.4886 Ha** in Sy. No. 322 of Pangidimadara village of Tiryani Mandal of Ginnedhary Range of Asifabad Division of Kumuram-Bheem-Asifabad District identified for raising of Compensatory Afforestation 24.03.2023 along with field staff. During the inspection, the following observations are noticed.

- i) The most of the area is covered with hard soil, boulders and mixed with sheetrock.
- ii) The terrain is undulated and hillock area and the land is adjacent to compartment no. 146 of Chintalamadara Beat.
- iii) The existing vegetation is 0.1 to 0.4 with tree growth consists mainly of Teak (*Tectona grandis*), Moduga (*Butea Monosperma*), Bilugu, Tapsi, Tani (*Terminalia bellarica*) Nemalinarā (*Holoptelia integrifolia*), Nallamaddi (*Terminalia elliptica*), Andugu and Kanuga (*Pongamia pinnata*).
- iv) The Non –Forest land to an extent of 44.4886 Ha is not suitable for taking up plantation.
- v) Non Forest land to an extent of 44.4886 Ha to be taken up under ANR and other forestry operations works.
- vi) Development of Soil and Moisture retention capacity in the area. Major works such as Soil & Moisture conservation works and formation of Water harvesting structures shall be taken up during the 1<sup>st</sup> & 2<sup>nd</sup> years of the project to gain the impact of such structure over the vegetation growth in the proposed area.
- vii) The user agency has agreed to taken up the trench work along the periphery of CA Land

  
 District Forest Officer  
 Kumarambheem Asifabad.



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





**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	
		<b>MAINTENANCE OF BAG NURSERY FROM SEPTEMBER TO TILL DISPOSAL</b>					
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	<b>Cost of Protection:</b> 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
		<b>Total</b>					<b>1668.35</b>
		<b>cost of each plant (500 Plants per bed)</b>					<b>3.3367</b>



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	
	<b>01.04.00</b>	<b>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)</b>					
	<b>01.04.01</b>	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	<b>01.04.02</b>	Weeding once during maintenance year	Bed/weeding	1	68.33	1	68.33
3	<b>01.04.03</b>	Shifting, grading and rearrangement in beds	Bed/shifting	2	290.16	1	580.32
4	<b>01.04.05</b>	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
	<b>01.04.06</b>	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	<b>01.04.07</b>	Weeding in the space between the beds, inspection path and surroundings of Nursery	Bed	1	34.19	1	34.19
7	<b>01.05.04</b>	<b>Cost of Protection:</b> 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	4	10846.93	100	433.88
8	<b>01.04.09</b>	Electricity charges			550.00		550.00
		<b>Total</b>					<b>3064.80</b>
9	<b>01.04.08</b>	Contingencies @ 5%					<b>153.24</b>
		<b>2021-22 Total</b>					<b>3218.04</b>
		<b>cost of each plant (500 Plants per bed)</b>					<b>6.4361</b>

  
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 November - 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 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.	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
	<b>Unit Rate for FSR 2021-22</b>				<b>45918</b>

  
 District Forest Officer  
 KB Asifabad



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

Code	Item of work	Unit Rate per Ha			
		Qty	Rate (Rs.)	Per	Amount (Rs.)
1	2	3	4	5	6
02.09.02	<b>Deep Ploughing</b> 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. <b>For untilled areas - Hard Soils</b>	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
	<b>Transportation of Bag plants / Root trainer plants from nursery site to plantation site including loading and unloading</b>				
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
	<b>Planting Bag Plants</b>				
02.09.12	Planting in 45 cm <sup>3</sup> 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	<b>Application</b> 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	<b>Inter-ploughing</b> (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	<b>Cost of Protection: One Watcher</b> is allowed for 10-30 ha. plantation; <b>One more Watcher</b> 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
	<b>Unit Rate for FSR 2021-22</b>				<b>112749</b>

District Forest Officer  
KB Asifabad



# Unit Cost for 1st Year Maintenance of NTSH 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 <sup>3</sup> 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	<b>Cost of Protection: One Watcher</b> 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
<b>Unit Rate for 2021-22</b>					<b>44252</b>

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**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) - <b>20% proposed</b>	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 <sup>3</sup> 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 scicature 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	<b>Cost of Protection: One Watcher</b> 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
	<b>Unit Rate for 2021-22</b>				<b>33833</b>

  
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**Unit Cost for 3rd Year Maintenance of NTS 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	<b>Cost of Protection: One Watcher</b> is allowed for 10-30 ha. plantation;	1	6508	Ha	6508
	<b>Unit Rate for 2021-22</b>				<b>18459</b>

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**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	<b>Cost of Protection: One Watcher</b> is allowed for 10-30 ha. plantation;	1	6508.16	Ha	6508
	<b>Unit Rate for 2021-22</b>				<b>18459</b>

  
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**Unit Cost for 5th 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	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
	<b>Unit Rate for 2021-22</b>				<b>10322</b>

  
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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 sciculture 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

  
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**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
	<b>Unit Rate for FSR 2021-22</b>				<b>10322</b>

  
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**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 sciculture 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
	<b>Unit Rate for FSR 2021-22</b>				<b>2060</b>

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

**Unit Rate per Ha**

<b>FSR Code</b>	<b>Item of work</b>	<b>Qty</b>	<b>Rate (Rs.)</b>	<b>Per</b>	<b>Amount (Rs.)</b>
<b>1</b>	<b>2</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
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 <b>25% of cost adopted</b>	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
<b>Unit Rate for FSR 2021-22</b>					<b>10322</b>

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**Unit Cost for 10th Year Maintenance of NTS 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
	<b>Unit Rate for FSR 2021-22</b>				<b>2060</b>

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

**Unit cost for 1.00 KM**

SL.N o	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

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

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 <sup>3</sup> 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>(B) 1 row of wild edible fruit species on the ridge line of the trench mound at 2 m apart ( Bag Planting)</b>						
		(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 <sup>3</sup> 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		<b>(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)</b>						
		(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 <sup>3</sup> 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		<b>(D) broadcasting of pretreated (overnight soaking in boiled water) Babul (Acacia nilotica) seeds inside trench @ 500gms per km by staff</b>						0
		<b>Total</b>						<b>46911</b>
		2021-22				P. KM		<b>47700</b>

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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	<b>Cost of Protection:</b> 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

  
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## 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 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 surroundings of Nursery	Bed	1	34.19	1	34.19
7	01.05.04	<b>Cost of Protection:</b> 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	4	10846.93	100	433.88
8	01.04.09	Electricity charges			550.00		550.00
		<b>Total</b>					<b>3064.80</b>
9	01.04.08	Contingencies @ 5%					<b>153.24</b>
		<b>2021-22 Total</b>					<b>3218.04</b>
		<b>cost of each plant (500 Plants per bed)</b>					<b>6.4361</b>

  
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## 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 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

  
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**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
		<b>First year operations in ANR areas</b>						
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 <b>3450 Nos</b>	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 <sup>3</sup> 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
2		<b>(B) 1 row of wild edible fruit species on the ridge line of the trench mound at 2 m apart ( Bag Planting)</b>						
		(a) Alignment & 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 <sup>3</sup> 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		<b>(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)</b>						
		(a) Alignment & 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 <sup>3</sup> 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		<b>(D) broadcasting of pretreated (overnight soaking in boiled water) Babul (Acacia nilotica) seeds inside trench @ 500gms per km by staff</b>						0
		<b>Total</b>						<b>46911</b>
		2023-24				P. KM		<b>47700</b>

District Forest Officer  
KB Asifabad