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**GOVERNMENT OF TELANGANA
FOREST DEPARTMENT**

From
Sri R M Dobriyal, I.F.S.,
Principal Chief Conservator of Forests &
Head of Forest Force (FAC),
Telangana, "Aranya Bhavan",
Saifabad, Hyderabad.

To
**The Special Chief Secretary to the
Government,**
Forest Department,
Telangana, Secretariat,
Hyderabad.

Ref.No.4244/2019/FCA-2, Dated:04-04-2022.

Madam,

Sub: TSFD – F(C) Act, 1980 – diversion of **26.2299 Ha (revised from 31.084 Ha)** of Forest Land for improvements and widening of roads i) **Thaliperu Dam to Rallapuram** from km 0/0 to 2/0 & (ii) **Rallapuram to Battigudem** from km 0/0 to 3/0 (iii) **Thippapuram to Battigudem** km 0/0 to 4/0 (iv) **Errampadu to Battigudem** km 0/0 to 3/0, (v) **Thippapuram to Bathinapally via chennapuram** from km 0/0 to 10/3045 in Cherla (Mandal), Bhadradri-Kothagudem District in favour of R&B Circle, Khammam – **revised proposal submitted – Reg.**

Ref: 1. PCCF's Rc. No. 6753/2014/FCA3, dt.24-08-2020.
2. GoI, MoEF & CC, RO(SEZ), Chennai F.No.4-TSC169/2020-CHN/714, dt.04-9-2020.
3. PCCF's Rc. No. 4244/2019/FCA2, dt.14-9-2020.
4. State Govt. Lr.No.4414/For.I91)/2020, dt.18.09.2021.
5. GoI, MoEF & CC, RO, Hyderabad dt.14.02.2022.
6. 3rd REC meeting held on 21.03.2022.
7. CF, Kothagudem Lr.No. 146/2019/M3, dt.23.03.2022 **(567/CF)**.
8. DFO, Kothagudem Lr.No.125/2019/D1, dt.21.03.2022 **(571/CF)**.

Kind attention of the Government is invited to the references cited.

The subject proposal was discussed in the 3rd Regional Empowered Committee meeting held on 21.03.2022. In the said REC meeting the inspection notes of the subject project done by the sub-committee of REC done on 19.02.2022 was also discussed.

The REC in the said meeting, has requested to submit revised proposals duly incorporating suggestions made during the field visit.

Accordingly, the CF, Kothagudem and DFO, Kothagudem vide ref 7th and 8th cited respectively have submitted revised proposals duly including the suggestions made by the subcommittee of REC in its inspection notes.

Details of the revised proposal are as follows:

I - Information furnished by the DFO in revised Part-II

- The forest area proposed for diversion after incorporating the suggestion subcommittee of REC during the inspection is arrived at 26.2299 Ha.
- The details of the forest area proposed for diversion for each road with width is as follows:

Sl. No	Range	R.F. Block	Comp t. No.	Length in Kms proposed by the User Agency in Kms	Proposed road width in Mtrs	Extent of the Area in ha. Proposed by the User Agency in Ha.	Remarks
1	2	5	6	7	8	9	10
1	Charla	Pedamidisileru	70A	4.830	7.50	4.238	Thaliperu Dam to Rallapuram, Rallapuram to Battigudem
2	Charla	Pedamidisileru	70B	0.821			
3	Charla	Pedamidisileru	72	1.932	7.50	1.449	Uyyalamadugu to Thippapuram UA informed that they are withdrawing the road proposal, during REC visit on 19.02.2022.
4	Charla	Pedamidisileru	71B	3.254	7.50	2.440	Thippapuram to Battigudem

5	Charla	Pedamidisileru	71C	1.663	7.50	1.2474	Yerrampadu to Battigudem
6	Charla	Pedamidisileru	71B & 71C	8	20	16	Thippapuram to Bathinapally (Chennapuram) Total width of 20 mtrs violated is considered for diversion in 8 Km.
				2.3045	10	2.3045	
			Total :	22.805		27.6789	-1.449 =26.2299 Ha.
					Total FL	26.2299	

- The forest area proposed for diversion passing through Pedamidisileru is notified U/s. 16 M.F.Act, 1882 Part-I Gazette Page No.1271, dt. 04-11-1919.
- Density of vegetation, **(a) Forest Type :** Tropical dry deciduous forest and

(b) Average crown density of Vegetation: The density Ranging from 0.4 to 0.6 (Boxes).

- Species-wise and diameter class wise abstract of trees to be felled in the area proposed for diversion is enclosed with the proposal. As per the enumeration list a total of 1195 trees/poles are to be felled in the area in question.
- All most all the proposed forest areas are plain lands with gentle slope and does not falling in steep slopes, hence the problem of erosion doesn't arise.
- There is no Protected Archaeological/Heritage Site/Defense Establishment or any Other Important Monument is located in the forest area proposed to be diverted.
- The area proposed for diversion is not falling in National Park, Wildlife Sanctuary, Biosphere Reserve, Tiger Reserve, Elephant corridor etc.
- There are no rare/endangered unique species of flora and fauna are found in the forest area proposed for diversion.
- The forest land proposed for diversion by User Agency is unavoidable and barest minimum, to an extent of 26.2299 ha.
- Site Inspection notes of Forest Divisional Officer, Bhadrachalam dated 01.06.2019 is enclosed.

II- Information on violation of Forest (Conservation) Act:

Out of (5) stretches, violation was observed in stretch No.5 Thippapuram to Bathinapally Via chennapuram. B.T. Road was laid by R&B Department in the year **2016** for a total length of 8 Kms with 20 Mtrs width. The total area of violation is calculated as 16.00 Ha. A show-cause notice has been issued by the Forest Divisional Officer, Bhadrachalam vide reference No.230/2020-21/B4,dt.25.02.2021.

III- Comments of the DFO, Bhadradi – Kothagudem District in his field inspection report; Dt.27.01.2022.

The User Agency initially proposed for a total forest area diversion of 31.085 Ha with width 12.5 Mtrs and 15 Mtrs. Further, user agency has reduced the width of proposed roads to 7.5 Mtrs and 10 Mtrs (only for stretch 5) and also proposed to withdraw road proposed on stretch 2 (Uyyalamadugu to Thippapuram) accordingly the land required for this road is deleted from the total requirement of diversion.

Further, it was observed that violation has been done by R&B department in the year 2016 on Thippapuram to Bathinapally via Chennapuram (stretch 5) along 8 km with a width of 20 Mtrs out of total proposed length of 10.3045 KM. Accordingly the required area for diversion in this stretch is considered as 18.3045 Ha (16 ha violation area and 2.3045 Ha non violation area).

All the sites are falling in the forest type Southern Tropical Dry Deciduous Forests (5A) as per Champion and Seth classification. The vegetation is of miscellaneous type with predominant species of Tectona Grandis, Chloroxylon swietenia, Morrinda Clrifolia, Madhuka Indica, Diospyros melanoxyton, Adiana cardifolia, Pterocarpus marsupium etc., The proposed forest land for diversion for the proposed project is bearest minimum and unavoidable. The type of soil is Red soil. The average crown density is 0.40 in all the sites. All the sites are plain lands and non-vulnerable to erosion. These villages are being connected strategically to counter LWE activities as these locations are bordering Chattishgarh state, movement of forces in these areas should be unpredictable. Hence, multiple outward roads are being proposed, which is justifiable. These projects will also improve movement of forest staff and will also help in forest protection.

IV- Recommendations of the DFO, Bhadradi Kothagudem in Part-II:

The DFO, Bhadradi Kothagudem in part-II has recommended the proposal for diversion of 26.2299 Ha forest land for improvement of roads in favour of R&B Department and necessary clearance may be given as these villages are being connected strategically to counter LWE activities as these locations are bordering Chattishgarh state, movement of

forces in these areas should be unpredictable. Hence, multiple outward roads are being proposed, which is justifiable. These projects will also improve movement of forest staff and will also help in forest protection.

V. Recommendations of the Conservator of Forests, Kothagudem in Part- III:

The CCF/Conservator of Forests, Kothagudem in Part-III has recommended the proposal for diversion of **26.2299 Ha** of Forest Land for improvements and widening of roads i) **Thaliperu Dam to Rallapuram** from km 0/0 to 2/0 & (ii) **Rallapuram to Battigudem** from km 0/0 to 3/0 (iii) **Thippapuram to Battigudem** km 0/0 to 4/0 (iv) **Errampadu to Battigudem** km 0/0 to 3/0, (v) **Thippapuram to Bathinapally via chennapuram** from km 0/0 to 10/3045 in Cherla (Mandal), Bhadrachalam-Kothagudem District, duly agreeing the information and recommendation of DFO, Bhadrachalam Kothagudem in Part-II.

VI- Compensatory Afforestation on degraded forest land over the double the extent of forest land utilized in violation.

- Work in violation of Act is carried out in the forest area proposed for diversion to an extent of **16.00 Ha**.
- Penal Compensatory Afforestation in double the extent of forest land utilized in violation in degraded forest land is proposed.
- Hence, the Forest Divisional Officer, Bhadrachalam has prepared penal CA over $2 \times 16.00 \text{ ha} = \mathbf{32.00 \text{ ha}}$ in Compt.No.72 in Peddamidisileru RF of Charla Range degraded forest land under SMM i.e., 1111 plants/ha.
- The financial outlay of the CA scheme is **Rs. 221.351 lakhs** with 10 years maintenance, with starting the nursery raising from 2021-22.

- PCA scheme is enclosed.
- Map of the degraded forest land identified for CA is enclosed.

VI- Details of Non-forest land identified for CA and RoFR Act certificate obtained from the District Collector was already submitted to the IRO, Hyderabad by State Govt. vide Lr.No.4414/For.I(1)/2020, dt.18.09.2021.

The proposal as submitted by the CF, Kothagudem alongwith revised Part-II & III / cross section of the roads are enclosed herewith alongwith Part-IV with due recommendations of the undersigned.

The Government is requested to forward the same alongwith Part-V to the GoI, MoEF&CC, IRO, Hyderabad for according necessary approval of the project at the earliest, with imposition of Penalty for carrying out work in violation in the forest area in question without obtaining prior clearance or working permission, as per para 1.21 (ii) of Handbook of Forest (Conservation) Act, 1980.

Yours faithfully,
Sd/-R M Dobriyal,
 Principal Chief Conservator of Forests
 (Head of Forest Force)(FAC)

Copy to the Regional Officer, GoI, MoEF&CC, Integrated Regional Office, Aranya Bhavan, Saifabad, Hyderabad for favour of information and necessary action.

Copy to the Principal Secretary to Government, TR&B Department, Govt. of Telangana for favour of information and necessary action.

Copy to the Superintending Engineer (R&B) Circle, Khammam & District R&B Officer, Kothagudem.

Copy to the Chief Engineer (R&B), D&P, RSW, LWE & RR, Errum Manzil, Hyderabad.

//t.c.b.o.//

D. Subbarao 6/4/2022
 Superintendent

6/4/22

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GOVERNMENT OF TELANGANA
FOREST DEPARTMENT

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From
Sri D. Bheema, IFS.,
Conservator of Forests
Kothagudem Circle, Kothagudem

To
The Principal Chief Conservator
of Forests, (Head of Forest Force)
Telangana, Hyderabad.

Rc.No. 146/2019/M3, Dated: 17.03.2022.

Sir,

Sub:- Forest Department – F(C) Act, 1980- Proposals for diversion of **15.4409 ha** of Forest land in **Bhadrachalam Forest Division** for improvement and widening of Roads i) Uyyalamadugu to Thippapuram from Km 0/0 to 3/0 (with drawn by user agency), ii) Thaliperu Dam to Rallapuram from Km 0/0 to 2/0, iii) Rallapuram to Battigudem from Km 0/0 to 3/0, iv) Thippapuram to Battigudem from Km 0/0 to 4/0, v) Errampadu to Battigudem from Km 0/0 to 3/0 and vi) Thippapuram to Bathinapally via Chennapuram from Km 0/0 to 10/3045 in **Cherla Mandal, Bhadradi Kothagudem District** in favour Superintending Engineer, R&B Circle, Khammam – Revised Part –II , III & Inspection notes of the DFO- **Submitted** - Reg.

- Ref:-** 1. Prl CCF, TS Hyd Rc.No. 4244/2019/FCA-2, Dt. 08.05.2019.
2. Prl CCF, TS Hyd Rc.No. 4244/2019/FCA-2, Dt. 20.12.2019 and 09.03.2021.
3. Field inspection of REC on 19.02.2022.
4. DFO, B.Kothagudem Rc.No.125/2019/D1, Dt.17.03.2022.

With reference to the subject and references cited above, it is submitted that, as per the instructions of the Regional Empowered Committee (REC) members during the field inspection of Bhadrachalam Division of Bhadradi Kothagudem on 19.02.2022, the District Forest Officer, Bhadradi Kothagudem has submitted the **revised Part – II proposals along with Field inspection report** and duly modifying the enumeration of tree growth with regards to the proposals for “diversion of **15.4409 ha of Forest land in Bhadrachalam Forest Division** for improvement and widening of Roads i) Uyyalamadugu to Thippapuram from Km 0/0 to 3/0 (with drawn by user agency), ii) Thaliperu Dam to Rallapuram from Km 0/0 to 2/0, iii) Rallapuram to Battigudem from Km 0/0 to 3/0, iv) Thippapuram to Battigudem from Km 0/0 to 4/0, v) Errampadu to Battigudem from Km 0/0 to 3/0 and vi) Thippapuram to Bathinapally via Chennapuram from Km 0/0 to 10/3045 in Cherla Mandal, Bhadradi Kothagudem District” in favour Superintending Engineer, R&B Circle, Khammam

Further, the District Forest Officer, Bhadradi Kothagudem has reported that, previously the User Agency has proposed for 31.084 Ha of forest land for diversion in Bhadrachalam Division. As per the alignment and demarcation, the length of road is

coming to 22846 Rmt with the width of 12.5 Mtrs for 5 stretches and (1) road proposed for 15 Mtrs i.e., Thippapuram to Bathinapally involving to an extent of 31.2 Ha. But later, the User Agency has reduced the width of road to 7.5 Mtrs and also **informed that stretch -I Uyyalamadugu to Thippapuram will be withdrawn.** Accordingly, the total forest area to be diverted is coming to **15.4409 Ha.**

Further, it is submitted that, I have also inspected the proposed road stretches in Thippapuram section, Charla Range of Bhadrachalam Division along with the District Forest Officer, Bhadradi-Kothagudem on 27.01.2022 and **recommended** the proposals i.e., diversion of **15.4409 ha of Forest land in Bhadrachalam Forest Division** for improvement and widening of Roads i) Uyyalamadugu to Thippapuram from Km 0/0 to 3/0 (*with drawn by user agency*), ii) Thaliperu Dam to Rallapuram from Km 0/0 to 2/0, iii) Rallapuram to Battigudem from Km 0/0 to 3/0, iv) Thippapuram to Battigudem from Km 0/0 to 4/0, v) Errampadu to Battigudem from Km 0/0 to 3/0 and vi) Thippapuram to Bathinapally via Chennapuram from Km 0/0 to 10/3045 in Cherla Mandal, Bhadradi-Kothagudem District" in favour Superintendent Engineer, R&B Circle, Khammam, **subject to the condition of fulfilling the specific recommendation made by the District Forest Officer, Bhadradi-Kothagudem in Part-II and inspection notes.**

Therefore, the revised part-II and inspection notes of the District Forest Officer, Bhadradi-Kothagudem along with Part-III information is submitted herewith in (4) sets for taking further action in the matter.

This is submitted for favor of kind information.

Encls: (4) Sets

Yours faithfully,


Conservator of Forests
Kothagudem Circle, Kothagudem.

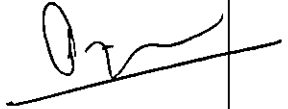
- Copy submitted to the PCCF (FCA), TS, Hyderabad for favour of kind information
- Copy to the District Forest Officer, Bhadradi Kothagudem for information.
- Copy to the Forest Divisional Officer, Bhadrachalam for information.


Conservator of Forests (FAC),
Kothagudem Circle, Kothagudem

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PART - IV

(to be filled by the Nodal officer or Principal Chief Conservator of Forests or Head of Forest department)

17.	Detailed opinion and specific recommendation of the State Forest Department for acceptance or otherwise of the proposal with remarks (While giving opinion, the adverse comments made by concerned Conservator of Forests or Deputy Conservator of Forests should be categorically reviewed and critically commented upon).	Proposal for diversion of 26.2299 Ha of Forest Land for improvements and widening of roads i) Thaliperu Dam to Rallapuram & (ii) Rallapuram to Battigudem (iii) Thippapuram to Battigudem (iv) Errampadu to Battigudem (v) Thippapuram to Bathinapally via chennapuram in Cherla (Mandal), Bhadrachari-Kothagudem District in favour of SE R&B Circle Circle, Khammam is hereby <u>Recommended</u> The conditions proposed by the DFO, Kothagudem in Part-II and CF, Kothagudem in Part-III are agreed to and may be stipulated in the approval.
	Date: 04-04-2022. Place: Hyderabad.	 Signature Principal Chief Conservator of Forests (Head of Forest Force) Telangana, Hyderabad.

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PART - III

(To be filled by the concerned Conservator of Forests)

- 14. Whether site, where the forest land involved is located has been inspected by concerned Conservator of Forests (Yes/No). If yes, the date of inspection & observations made in form of inspection note to be enclosed.**

Yes, inspected the road proposed for diversion alongwith sub-committee of Regional Empowered Committee, MoEF&CC, GoI, Hyderabad on 19.02.2022.

- 15. Whether the concerned Conservator of Forests agree with the information given in Part-II and the recommendations of Deputy Conservator of Forests.**

Yes, I agree with the information given in the proposals and recommendations made by the DFO, Bhadrachalam Kothagudem in Part-II of the proposal.

- 16. Specific recommendation of concerned Conservator of Forests for acceptance or otherwise of the proposal with detailed reasons.**

Recommended the proposal for diversion of 26.2299Ha of Forest land in Bhadrachalam Forest Division of Bhadrachalam Kothagudem District for improvement and widening of Roads i) Thaliperu Dam to Rallapuram and Rallapuram to Battigudem from Km 0/0 to 3/0, iii) Thippapuram to Battigudem from Km 0/0 to 4/0, iv) Errampadu to Battigudem from Km 0/0 to 3/0 and v) Thippapuram to Bathinapally via Chennapuram from Km 0/0 to 10/3045 in Cherla Mandal, Bhadrachalam Kothagudem District

Date : 23.03 .2022.
Place: Kothagudem.

Signature 
Name: Sri.D.Bheemla, I.P.S.,
Office Seal: Conservator of Forests
Kothagudem Circle, Kothagudem.

PART - II

(To be filled by the concerned Deputy. Conservator of Forests)

State Serial No. of proposal _

7. Location of the Project / Scheme:- Bhadrachalam Division, Charla Range.

- i. **State / Union Territory** : Telangana
 ii. **District** : Bhadradi Kothagudem
 iii. **Forest Division/Range** : Bhadrachalam Division / Charla Range
 iv. **Area of Forest land proposed for diversion (in Ha.):** 31.084 Ha.

Sl. No.	Range	Str etch No.	Section	Beat	R.F. Block	Compt. No.	Length in Kms	From		To	
								Lat	Long	Lat	Long
1	Charla	1	Thippa puram	Geesarely	Pedami disileru	70A	4.830	18.12163631	80.87390554	18.12107292	80.89090957
2	Charla		Thippa puram	Geesarely	Pedami disileru	70B	0.821	18.09894184	80.92346787	18.11050406	80.94224972
3	Charla	2	Thippa puram	Uyyala madugu	Pedami disileru	72	1.932	18.10160889	80.92035377	18.11351698	80.90750531
4	Charla	3	Thippa puram	Thippapuram East	Pedami disileru	71B	3.254	18.10458794	80.87538689	18.09625290	80.91328679
5	Charla	4	Thippa puram	Bathinapally East	Pedami disileru	71C	1.663	18.1021789	80.929896	18.110504	80.942249
6	Charla	5	Thippa puram	Thippapuram South	Pedami disileru	71B & 71C	10.3045	18.10217916	80.95989646	18.11050402	80.94224974
Total:							22.8045				

Sl. No.	Range	Section	Beat	R.F. Block	Compt. No.	Length in Kms proposed by the User Agency in Kms	Proposed road width in Mtrs	Extent of the Area in ha. proposed by the User Agency in Ha.	Remarks
1	2	3	4	5	6	7	8	9	10
1	Charla	Thippa puram	Geesareilly	Pedami disileru	70A	4.830	7.50	4.238	Thaliperu Dam to Rallapuram,
2	Charla	Thippa puram	Geesareilly	Pedami disileru	70B	0.821			Rallapuram to Battigudem
3	Charla	Thippa puram	Uyyala madugu	Pedami disileru	72	1.932	7.50	1.449	Uyyalamadugu to Thippapuram The user Agency informed that they are withdrawing the road proposal, during REC visit on 19.02.2022.
4	Charla	Thippa puram	Thippapuram East	Pedami disileru	71B	3.254	7.50	2.440	Thippapuram to Battigudem
5	Charla	Thippa puram	Bathinapally East	Pedami disileru	71C	1.663	7.50	1.2474	Yerrampadu to Battigudem
6	Charla	Thippa puram	Thippapuram South	Pedami disileru	71B & 71C	8	20	16	Thippapuram to Bathinapally (via Chennapuram) Total width of 20 mtrs violated is considered for diversion in 8 Km.
						2.3045	10	2.3045	
					Total:	22.805		27.6789	-1.449 =26.2299 Ha.
							Total Diversion Forest land	26.2299	

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v. Legal status of Forest land identified for prospecting: Reserve Forest

vi. Density of vegetation:

a. Forest type : Tropical dry deciduous forest

b. Average crown density of vegetation: The density Ranging from 0.4 to 0.6(Boxes)

vii. Species-wise (scientific names) and diameter class-wise enumeration of trees:

Stretch No.1- Thaliperu Dam to Rallapuram

SL No	Local Name of Tree	Botanical name of tree	No.of trees total	Girth Class wise number of trees (CM)					No.of poles	Timber of Cum	Total Value in Rs.	Remarks
				Upto 30 cms	31 to 60 Cms	61 to 90 Cms	91 to 120 Cms	Above 120 Cms				
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Aare	Bauhinia purpurea	1		0	1	0	0		0.056	459	
2	Billudu	Chloroxylon swietenia	2		1	0	1	0		0.195	2828	
3	Chennangi	Lagerstroemia parviflora	4		3	1	0	0		0.045	898	
4	Chirumanu	Termilania Paniculata	19		1	12	5	1		3.556	37459	
5	Gumpena	Lannea coromandelica	8		0	3	3	2		1.731	20366	
6	Ippa	Madhuka Indica	13		1	3	6	3		2.611	30789	
7	Karangi	Bradenia lucida	1		0	0	1	0		0.106	1019	
8	Kodisa	Cleistanthus collinus	9		4	3	1	1		0.408	5315	
9	Maredu	Aegle marmelos	1		1	0	0	0		0.000	237	
10	Murali	Buchananialanzan	1		1	0	0	0		0.000	146	
11	Nalla Maddi	Terminalia tomentosa	23		4	6	7	6		4.725	303595	
12	Odiga	Elangium sanifolium	1		0	1	0	0		0.058	557	
13	Pala	Wrightia tinctoria	4		4	0	0	0		0.000	810	
14	Regu	Zizyphus mauritiana	2		1	0	1	0		0.059	804	
15	Sandra	Acacia chundra	8		5	3	0	0		0.216	2928	
16	Somi	Soymida febrifuga	6		1	4	1	0		0.542	6210	
17	Teak	Tectona Grandis	76	2	18	44	9	3		10.746	878591	
18	Thella Thumma	Terminalia arjuna	3		0	2	1	0		0.693	6293	
19	Thogara	Morinda tinctoria	2		1	1	0	0		0.072	723	
20	Thuniki	Dioseyros melanoxyton	9		0	2	2	5		3.568	73966	
21	Vepa	Azadirachta Indica	4		2	2	0	0		0.156	6392	
22	Visha Musti	Agnosma dicotama	2		1	0	1	0		0.270	2830	
23	Yegisa	Pterocarpus marsupium	1		0	1	0	0		0.033	1284	
		0	200	2	49	89	39	21	0	29.846	1384499	

Stretch No.1 - Rallapuram to Battigudem

SL No	Local Name of Tree	Botanical name of tree	No.of trees total	Girth Class wise number of trees (CM)					No.of poles	Timber of Cum	Total Value in Rs.	Remarks
				Upto 30 cms	31 to 60 Cms	61 to 90 Cms	91 to 120 Cms	Above 120 Cms				
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Aare	Bauhinia purpurea	4		4	0	0	0		0.000	660	
2	Anduga	Boswellia serrata	1		0	0	1	0		0.336	3241	
3	Battaganapa	Mitragyna parvifolia	3		0	2	1	0		0.645	5876	
4	Billudu	Chloroxylon swietenia	13		10	3	0	0		0.23	3999	
5	Chennangi	Lagerstroemia parviflora	12		11	1	0	0		0.051	3020	
6	Chirumanu	Terminalia paniculata	42		11	22	8	1		5.776	62410	
7	Gumpena	Lannea coromandelica	13		2	2	7	2		4.221	47687	
8	Ippa	Madhuka Indica	41		14	11	6	10		12.029	166491	
9	Karaka	Terminalia chebula	2		1	1	0	0		0.048	537	
10	Karangi	Bradenia lucida	2		1	1	0	0		0.000	378	
11	Kassi	Ipomoea angulata	1		1	0	0	0		0	237	
12	Kodisa	Cleistanthus collinus	25		10	8	3	4		2.230	40081	
13	Konda Thangedu	Milletia auriculata	7		2	3	1	1		1.627	18720	
14	Murali	Buchananialanzan	6		4	1	1	0		0.613	6348	
15	Nalla Maddi	Terminalia tomentosa	43		9	7	17	10		10.557	733762	
16	Odiga	Elangium sanifolium	2		2	0	0	0	0	0	378	
17	Pachari	Dalbergia paniculata	1		1	0	0	0	0	0.000	141	
18	Pala	Wrightia tinctoria	1		1	0	0	0		0.000	141	
19	Panchogi	Briddella Montana	1		0	0	0	0		0	141	
20	Pedda pala	--	1		1	0	0	0		0	141	
21	Poliga	--	1		1	0	0	0		0	237	
22	Pulicheru	Miscellaneous Species	1		1	0	0	0		0	141	
23	Pusuga	Schleichera oleosa	2		0	2	0	0		0.160	1307	
24	Sandra	Acacia chundra	23		21	2	0	0		0.115	5551	
25	Somi	Soymida febrifuga	20		5	7	4	4		3.793	75129	
26	Teak	Tectona Grandis	24		14	7	2	1		3.296	312261	
27	Thella Thumma	Terminalia arjuna	3		0	1	1	1		1.056	12783	
28	Thogara	Morinda tinctoria	3		2	1	0	0		0.023	615	
29	Thuniki	Diosyros melanoxylon	60		16	18	13	13		13.494	245824	
30	Vepa	Azadirachta Indica	19		11	8	0	0		0.087	5618	
31	Yegisa	Pterocarpus marsupium	4		1	2	0	1		0.966	75476	
		Total:	381	0	157	110	65	48	0	61.353	1829331	

Stretch No.2- Uyyalamadugu to Thippapuram

SL No	Local Name of Tree	Botanical name of tree	No.of trees total	Girth Class wise number of trees (CM)					No.of poles	Timber of Cum	Total Value in Rs.	Remarks
				Upto 30 cms	31 to 60 Cms	61 to 90 Cms	91 to 120 Cms	Above 120 Cms				
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Billudu	Chloroxylon swietenia	1			1				0.317	4897	
2	Chennangi	Lagerstroemia parviflora	1			1				0.171	1649	
3	Chilla	Strychnos patatorum	1		1					0.000	237	
4	Chirumanu	Termilania Paniculata	7			5	2			1.865	22840	
5	Gumpena	Lannea coromandelica	4			3	1			1.013	9102	
6	Ippa	Madhuka Indica	4		2		1	1		0.781	17420	
7	Kalagodu	--	1			1				0.092	756	
8	Kassi	Ipomoea angulata	2		2					0.000	378	
9	Konda Thangedu	Milletia auriculata	5		1		4			1.593	24740	
10	Korre	xora brachiata	1		1					0.000	141	
11	Murali	Buchananialanzan	1			1				0.284	2320	
12	Nalla Maddi	Terminalia tomentosa	2		1	1				0.872	46054	
13	Somi	Spyrmda febrifuga	1			1				0.821	19792	
14	Teak	Tectona Grandis	7		6	1				0.205	18371	
15	Tuniki	Dioseyros melanoxylon	13		1	4	5	3		5.014	94023	
			51	0	15	19	13	4	0	13.028	262720	

Stretch No.3- Thippapuram to Battigudem

SL No	Local Name of Tree	Botanical name of tree	No.of trees total	Girth Class wise number of trees (CM)					No.of poles	Timber of Cum	Total Value in Rs.	Remarks
				Upto 30 cms	31 to 60 Cms	61 to 90 Cms	91 to 120 Cms	Above 120 Cms				
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Battaganapa	Mitragyna parvifolia	1				1			0.395	5708	
2	Billudu	Chloroxylon swietenia	1			1				0.253	2435	
3	Chennangi	Lagerstroemia parviflora	3		3					0.000	773	
4	Chilla	Strychnos patatorum	1				1			0.390	3759	
5	Chirumanu	Termilania Paniculata	12		2	7	3			3.412	43308	

6	Gumpena	Lannea coromandelica	9		1	4	2	2		3.481	41873	
7	Ippa	Madhuka Indica	6		6	0	3	0		1.574	15694	
8	Karaka	Terminalia chebula	2		1	1				0.180	378	
9	Kodisa	Cleistanthus collinus	1		1					0.000	291	
10	Murali	Buchananialanzan	1			1				0.000	237	
11	Nallamaddi	Terminalia tomentosa	14		9	0	2	3		5.760	527667	
12	Pusuga	Schleichera oleosa	1				1			0.188	1807	
13	Somi	Soymida febrifuga	4		1	2	1			0.948	12146	
14	Tada		1		1					0.000	141	
15	Teak	Tectona Grandis	8		4	2	2			1.159	122857	
16	Tuniki	Dioseyros melanoxylon	11		1	4	3	3		5.188	98956	
17	Vepa	Azadirachta Indica	1		0	1				0.195	1594	
			77	0	30	23	19	8	0	23.123	879624	0

Stretch No.4- Yerrampadu to Battigudem

SL No	Local Name of Tree	Botanical name of tree	No.of trees total	Girth Class wise number of trees (CM)					No.of poles	Timber of Cum	Total Value in Rs.	Remarks
				Upto 30 cms	31 to 60 Cms	61 to 90 Cms	91 to 120 Cms	Above 120 Cms				
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Anduga	Boswellia serrata	2		1			1		1.266	18534	
2	Bandaru	Adiana cardifolia	1				1			0.432	25008	
3	Billudu	Chloroxylon swietenia	6		5	1				0.1792	3082	
4	Chennangi	Lagerstroemia parviflora	11		8	2	1			0.5486	8322	
5	Chilaka duddi	Sachopetalum tomentosa	1		1					0.000	237	
6	Chirumanu	Termilania Paniculata	14		2	7	4	1		5.27	78451	
7	Gotte	Polythia serasoides	1		1					0	141	
8	Gumpena	Lannea coromandelica	5			3	2			1.328	12075	
9	Ippa	Madhuka Indica	35		8	14	7	6		9.630	113226	
10	Kalagodi	--	3		1		2			0.842	8352	
11	Karaka	Terminalia chebula	3		0	3				0.696	5686	
12	Karangi	Bradenia lucida	1		1					0	237	
13	Kodisa	Cleistanthus collinus	8		4	4				0.646	7125	
14	Konda Thangedu	Milletia auriculata	37		7	20	7	3		10.246	148807	
15	Murali	Buchananialanzan	8		3	4	1			1.291	12119	
16	Nallamaddi	Terminalia tomentosa	36		10	10	5	11		14.954	1243763	

17	Oddi	Deistanthus Callinus	1			1				0.178	1459	
18	Pusuga	Schleichera oleosa	1					1		0.703	10165	
19	Somi	Soymida febrifuga	6		1	1	4			1.673	25911	
20	Teak	Tectona Grandis	20		9	9		2		3.05	330047	
21	Thani	Terminalia bellerica	4		1	1	2			1.263	18834	
22	Thogara	Morinda tinctoria	2		1	1				0.053	670	
23	Tuniki	Dioseyros melanoxyton	32		7	8	11	6		12.9349	243987	
24	Usiri	Phyllanthus emblica	2		1	1				0.324	2882	
25	Yegisa	Pterocarpus marsupium	7		1	3	1	2		3.149	254389	
			247	0	73	93	48	33	0	70.656	2573509	

Stretch No.5- Thippapuram to Bathinapally (via Chennapuram)

SL No	Local Name of Tree	Botanical name of tree	No.of trees total	Girth Class wise number of trees (CM)					No.of poles	Timber of Cum	Total Value in Rs.	Remarks
				Upto 30 cms	31 to 60 Cms	61 to 90 Cms	91 to 120 Cms	Above 120 Cms				
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Bandari	Adiana cardifolia	1					1		0.504	48575	
2	Battaganapa	Mitragnya parvifolia	1		1					0.000	433	
3	Billudu	Chloroxylon swietenia	18		14	3	1			0.830	13803	
4	Butha vegi	--	1		1					0	141	
5	chennangi	Lagerstroemia parviflora	8		5	3				0.283	3706	
6	Chilaka dudduga	Sachopetalum tomentosa	6		4		2			0.920	9521	
7	Chilla	Strychnos patatorum	1			1				0.079	647	
8	Chinduga	Albizia odoratissima	1			1				0.114	932	
9	chintha velugu	--	1			1				0.105	862	
10	Chirumanu	Termilania Paniculata	21		3	10	7	1		3.996	52311	
11	Gumpena	Lannea coromandelica	8		2	3	3			1.4772	13995	
12	Ippa	Madhuka Indica	35		1	6	5	23		25.274	349424	
13	kalagodi	-	2			2				0.188	1540	
14	Karaka	Terminalia chebula	1		1					0.000	237	
15	Karangi	Bradenia lucida	1			1				0.067	544	
16	Kassi	Ipomoea angulata	4		2	2				0.261	1564	
17	Konda thangedu	Milletia auriculata	13		4	3	5	1		2.595	45647	

18	Murali	Buchananialanzan	13		8	3	2			1.356	14253	
19	Nalla Maddi	Terminalia tomentosa	24		1	2	9	12		13.055	1060492	
20	Pulicheru	Miscellaneous Species	1		1					0	141	
21	Pusuga	Schleichera oleosa	4				1	3		3.123	42758	
22	Somi	Soymida febrifuga	11		5	4		2		1.937	39301	
23	Teak	Tectona Grandis	12		8	1		3		6.546	888709	
24	Thogara	Morinda tinctoria	3		2	1				0.102	1311	
25	Tuniki	Dioseyros melanoxylon	41		9	10	14	8		11.452	217699	
26	Yegisa	Pterocarpus marsupium	7				4	3		6.091	508651	
			239	0	72	57	53	57	0	80.355	3317197	

ABSTRACT of Tree Enumeration:

Stretch	Name of the Roads	No.of trees total	Girth Class wise number of trees (CM)					No.of poles	Timber of Cum	Total Value in Rs.	Remarks
			Upto 30 cms	31 to 60 Cms	61 to 90 Cms	91 to 120 Cms	Above 120 Cms				
1	3	4	5	6	7	8	9	10	11	12	13
1	Thaliperu Dam to Rallapuram	200	2	49	89	39	21	0	29.846	1384499	
1	Rallapuram to Battigudem	381	0	157	110	65	48	0	61.353	1829331	
2	Uyyalamadugu to Thippapuram	51	0	15	19	13	4	0	13.028	262720	
3	Thippapuram to Battigudem	77	0	30	23	19	8	0	23.123	879624	
4	Yerrampadu to Battigudem	247	0	73	93	48	33	0	70.656	2573509	
5	Thippapuram to Bathinapally (via Chennapuram)	239	0	72	57	53	57	0	80.355	3317197	
	Total:	1195	2	396	391	237	171	0	278.361	10246880	

(viii) Brief note on vulnerability of the forest area to erosion.

All most all the proposed forest areas are plain lands with gentle slope and does not falling in steep slopes. Hence, the problem of erosion does not arise.

(ix) Approximate distance of proposed site for diversion from boundary of the forest land.

The proposed R&B roads are passing through the midst of the Pedamidisileru Reserve forest area.



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(x) Whether forms part of national park, wildlife sanctuary, biosphere reserve, tiger reserved, elephant corridor, wildlife migration corridor etc., (If so, the details of the area and comments of the Chief Wildlife Warden to be annexed);

-----NIL----

(xi) Whether any rare or endangered or unique species of flora and fauna found in the area – if so details thereof.

-----NIL----

(xii) . Whether any protected archaeological or heritage site or defense establishment or any other important monument is located in the area – (If so, details thereof with no-objection certificate (NoC) from competent authority to be annexed.)

-----NIL----

8. Whether the requirement of forest land as proposed by the User Agency in col.2 of part-I is unavoidable and barest minimum for the project. If no recommended area item wise with details of alternatives examined.:

(Yes) It is the barest minimum keeping in view the security aspect of LWE.

9. Whether any work in violation of the Act has been carried out (Yes / No) If yes details of the same including period of work done, action taken on erring officials. Whether work in violation is still in progress.

Out of (5) stretches in stretch No.5 Thippapuram to Bathinapally Via chennapuram violation was observed. B.T. Road was laid by R&B Department in the year 2016 for a total length of 8 Kms with 20 Mtrs width. The total area of violation is calculated as 16.00 Ha. A showcase notice has been issued by the Forest Divisional Officer, Bhadrachalam vide reference No.230/2020-21/B4,dt.25.02.2021.

10. Details of compensatory afforestation scheme:

The C.A. area identified in Aswaraopeta mandal Survey No.227 of Asupaka village to an extent of 79 Acrs. Survey No.153/1 of Thirumalakunta village 49 Acrs. And in Dammapeta mandal survey No.350/1 of Ankampalem village 27 Acrs., Total: 1.55 Acrs or 62.75 Ha. of non-forest land in Paloncha Division vide District Collector Ref.No. E1/1805/2016, dt.04.06.2019.

11. Site inspection report of the Deputy Conservator of Forests especially highlighting facts asked in col.7 (xi, xii) 8 and 9 above :

I have inspected all the sites in Charla Range on 27.01.2022 Along with forest officials and user agency. The proposed roads are passing through different Compt.Nos. 70A, 71B&C, 72 of Pedamidisileru R.F. Block. The details are as furnished below.

Sl. No.	Range	Section	Beat	R.F. Block	Compt. No.	Length in Kms proposed by the User Agency in Kms	Proposed road width in Mtrs	Extent of the Area in ha. proposed by the User Agency in Ha.	Remarks
1	2	3	4	5	6	7	8	9	10
1	Charla	Thippapuram	Geesareilly	Pedami disileru	70A	4.830	7.50	4.238	Thaliperu Dam to Rallapuram,
2	Charla	Thippapuram	Geesareilly	Pedami disileru	70B	0.821			Rallapuram to Battigudem
3	Charla	Thippapuram	Uyyalamadugu	Pedami disileru	72	1.932	7.50	1.449	Uyyalamadugu to Thippapuram The user Agency informed that they are <u>withdrawing</u> the road proposal, during REC visit on 19.02.2022.
4	Charla	Thippapuram	Thippapuram East	Pedami disileru	71B	3.254	7.50	2.440	Thippapuram to Battigudem
5	Charla	Thippapuram	Bathinapally East	Pedami disileru	71C	1.663	7.50	1.2474	Yerrampadu to Battigudem
6	Charla	Thippapuram	Thippapuram South	Pedami disileru	71B & 71C	8	20	16	Thippapuram to Bathinapally (via Chennapuram) Total width of 20 mtrs violated is considered for diversion in 8 Km.
						2.3045	10	2.3045	
					Total:	22.805		27.6789	-1.449 =26.2299 Ha.
							Total Diversion Forest land	26.2299	

The User Agency initially proposed for a total forest area diversion of 31. Ha. with width 12.5 Mtrs and 15 Mtrs. Further, user agency has reduced the width of proposed roads to 7.5 Mtrs and 10 Mtrs (only for stretch 5) and also proposed to withdraw road proposed on stretch 2 (Uyyalamadugu to Thippapuram) accordingly the land required for this road is deleted from the total requirement of diversion.

Further, it was observed that violation has been done by R&B department in the year 2016 on Thippapuram to Bathinapally via Chennapuram (stretch 5) along 8 km with a width of 20 Mtrs out of total proposed length of 10.3045 KM. Accordingly the required area for diversion in this stretch is considered as 18.3045 Ha (16 ha violation area and 2.3045 Ha non violation area).

All the sites are falling in the forest type Southern Tropical Dry Deciduous Forests (5A) as per Champion and Seth classification. The vegetation is of miscellaneous type with predominant species of Tectona Grandis, Chloroxylon swietenia, Morrinda Clrifolia, Madhuka Indica, Diospyros melanoxylon, Adiana cardifolia, Pterocarpus marsupium etc.,

The proposed forest land for diversion for the proposed project is bearest minimum and unavoidable. The type of soil is Red soil. The average crop density is 0.40 in all the sites. All the sites are plain lands and non-vulnerable to erosion. These villages are being connected strategically to counter LWE activities as these locations are bordering Chattishgarh state, movement of forces in these areas should be unpredictable. Hence, multiple outward roads are being proposed, which is justifiable. These projects will also improve movement of forest staff and will also help in forest protection.

12. Division / District Profile

i)	Geographical area of the District	:	1,60,29,000 Ha.
		Division	85364.7226 Ha.
ii)	Forest area of the District	:	73,19,960 Ha.
		Division	41568.262 Ha.

iii) Total forest area diverted since 1980 with number of cases.

Sl. No.	Name of the project	Forest area diverted	Government order No.	Remarks.
1	Diversion of 2.717 Ha. of Forest land for laying pipe line and construction of structures in segment 25/17 (R.Kothagudem) for providing safe drinking water to Bhadrachalam constituency, Khammam District. (Telangana Drinking Water supply project)	2.717 Ha.	G.O.T., G.O.Rt No.108, dt.24.06.2017	Got Stage-I approval
2.	Diversion of 2.305 Ha. of Forest land for laying pipe line and construction of structures in segment 25/18 (Dummugudem) for providing safe drinking water to Bhadrachalam constituency, Khammam District. (Telangana Drinking Water supply project)	2.305 Ha.	G.O.T., G.O.Rt No.109, dt.24.06.2017	Got Stage-I approval
3	Diversion of 1.70 Ha. of Forest land in Subbampeta R.F. of Charla Range of Bhadrachalam Division for widening of two lane road from Bhadrachalam to Chandrupatla	1.70 Ha.	G.O.I.M.o.E.F. F.No.4-APB/883/2012-BAN/1552, dt.13.07.2012	Got Stage-I approval
4	Diversion of 25.436 Ha. of Forest land for formation of road from Seethanagaram to Kurnapally road from 0/0 to 20/0 in Dummugudem Range	25.436 Ha.	G.O.I. MoEF.,F.No.4-TSC-119/2018-CHN/0620, dt.27.04.2018	Got Stage-I approval
5	Diversion of 4.98 Ha. of Forest land in Charla R.F. of Bhadrachalam Division for formation of road from Charla to Pusuguppa in Charla Range of Bhadrachalam Division	4.98 Ha.	G.O.T., G.O.Rt.No.67, dt.28.05.2016.	Got Stage-I approval
6	Diversion of 8.107 Ha. of Forest land for formation of road from R.Kothagudem to Kurnapally road from 0/0 to 11/600 in Dummugudem Range	8.107 Ha.	G.O.I. MoEF.F.No.4-TSC-120/2018-CHN/0621, dt.27.04.2018	Got Stage-I approval
	Total Forest Area diverted	45.245 Ha.		

iv) Total compensatory afforestation stipulated in the district/division since 1980 on:

a) *Forest land including penal compensatory afforestation.* : 200 Ha.

b) *Non-forest land.* : 363.634

(v) Progress of compensatory afforestation as on (date) 24.05.2019 on

a) Forest land: : 80 Ha.

b) Non-forest land.: ---NIL--

13. Specific recommendations of the Deputy Conservator of Forests for acceptance of the Proposal with reasons:

Recommended for the diversion of 26.2299 Ha forest land for improvement of roads in favour of R&B Department and necessary clearance may be given as these villages are being connected strategically to counter LWE activities as these locations are bordering Chattishgarh state, movement of forces in these areas should be unpredictable. Hence, multiple outward roads are being proposed, which is justifiable. These projects will also improve movement of forest staff and will also help in forest protection.

Date: 21.03.2022

Place: Bhadri Kothagudem

Signature.....
Name: Laxman Ranjeeth Nayak, IFS,
Official Seal.....
DISTRICT FOREST OFFICER
Bhadrahn Kothagudem Dist,
Kothagudem

Species-wise (scientific names) and diameter class-wise enumeration of Tree List for diversion of 31.084 Ha. from formation of roads from i) Uyyalamadugu to Thippapuram, ii) Thaliperu Dam to Rallapuram, iii) Rallapuram to Battigudem, iv) Thippapuram to Battigudem, v) Yerrampadu to Battigudem, vi) Thippapuram to Bathinapally (via Chennapuram) diverted in favour of R&B Department.

Stretch No.1- Uyyalamadugu to Thippapuram

SL No	Local Name of Tree	Botanical name of tree	No.of trees total	Girth Class wise number of trees (CM)					No.of poles	Timber of Cum	Total Value in Rs.	Remarks
				Upto 30 cms	31 to 60 Cms	61 to 90 Cms	91 to 120 Cms	Above 120 Cms				
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Billudu	Chloroxylon swietenia	1			1				0.317	4897	
2	Chennangi	Lagerstroemia parviflora	1			1				0.171	1649	
3	Chilla	Strychnos patatorum	1		1					0.000	237	
4	Chirumanu	Terminalia Paniculata	7			5	2			1.865	22840	
5	Gumpena	Lannea coromandelica	4			3	1			1.013	9102	
6	Ippa	Madhuka Indica	4		2		1	1		0.781	17420	
7	Kalagodu	--	1			1				0.092	756	
8	Kassi	Ipomoea angulata	2		2					0.000	378	
9	Konda Thangedu	Milletia auriculata	5		1		4			1.593	24740	
10	Korre	Ixora brachiata	1		1					0.000	141	
11	Murali	Buchanania lanzan	1			1				0.284	2320	
12	Nalla Maddi	Terminalia tomentosa	2		1	1				0.872	46054	
13	Somi	Soyimida febrifuga	1			1				0.821	19792	
14	Teak	Tectona Grandis	7		6	1				0.205	18371	
15	Tuniki	Diosyros melanoxyton	13		1	4	5	3		5.014	94023	
			51	0	15	19	13	4	0	13.028	262720	

Stretch No.2 - Thaliperu Dam to Rallapuram

SL No	Local Name of Tree	Botanical name of tree	No. of trees total	Girth Class wise number of trees (CM)					No. of poles	Timber of Cum	Total Value in Rs.	Remarks
				Upto 30 cms	31 to 60 Cms	61 to 90 Cms	91 to 120 Cms	Above 120 Cms				
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Aare	Bauhinia purpurea	1		0	1	0	0		0.056	459	
2	Billudu	Chloroxylon swietenia	2		1	0	1	0		0.195	2828	
3	Chennangi	Lagerstroemia parviflora	4		3	1	0	0		0.045	898	
4	Chirumanu	Termilania Paniculata	19		1	12	5	1		3.556	37459	
5	Gumpena	Lannea coromandelica	8		0	3	3	2		1.731	20366	
6	Ippa	Madhuka Indica	13		1	3	6	3		2.611	30789	
7	Karangi	Bradenia lucida	1		0	0	1	0		0.106	1019	
8	Kodisa	Cleistanthus collinus	9		4	3	1	1		0.408	5315	
9	Maredu	Aegle marmelos	1		1	0	0	0		0.000	237	
10	Murali	Buchananialanzan	1		1	0	0	0		0.000	146	
11	Nalla Maddi	Terminalia tomentosa	23		4	6	7	6		4.725	303595	
12	Odiga	Elangium sanifolium	1		0	1	0	0		0.058	557	
13	Pala	Wrightia tinctoria	4		4	0	0	0		0.000	810	
14	Regu	Zizyphus mauritiana	2		1	0	1	0		0.059	804	
15	Sandra	Acacia chundra	8		5	3	0	0		0.216	2928	
16	Somi	Soymida febrifuga	6		1	4	1	0		0.542	6210	
17	Teak	Tectona Grandis	76	2	18	44	9	3		10.746	878591	
18	Thella Thumma	Terminalia arjuna	3		0	2	1	0		0.693	6293	
19	Thogara	Morinda tinctoria	2		1	1	0	0		0.072	723	
20	Thuniki	Dioseyros melanoxyton	9		0	2	2	5		3.568	73966	
21	Vepa	Azadirachta Indica	4		2	2	0	0		0.156	6392	
22	Visha Musti	Agosma dicotama	2		1	0	1	0		0.270	2830	
23	Yegisa	Pterocarpus marsupium	1		0	1	0	0		0.033	1284	
		0	200	2	49	89	39	21	0	29.846	1384499	

Stretch No.3 - Rallapuram to Battigudem

SL No	Local Name of Tree	Botanical name of tree	No.of trees total	Girth Class wise number of trees (CM)					No.of poles	Timber of Cum	Total Value in Rs.	Remarks
				Upto 30 cms	31 to 60 Cms	61 to 90 Cms	91 to 120 Cms	Above 120 Cms				
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Aare	Bauhinia purpurea	4		4	0	0	0		0.000	660	
2	Anduga	Boswellia serrata	1		0	0	1	0		0.336	3241	
3	Battaganapa	Mitragyna parvifolia	3		0	2	1	0		0.645	5876	
4	Billudu	Chloroxylon swietenia	13		10	3	0	0		0.23	3999	
5	Chennangi	Lagerstroemia parviflora	12		11	1	0	0		0.051	3020	
6	Chirumanu	Termilania Paniculata	42		11	22	8	1		5.776	62410	
7	Gumpena	Lannea coromandelica	13		2	2	7	2		4.221	47687	
8	Ippa	Madhuka Indica	41		14	11	6	10		12.029	166491	
9	Karaka	Terminalia chebula	2		1	1	0	0		0.048	537	
10	Karangi	Bradenia lucida	2		1	1	0	0		0.000	378	
11	Kassi	Ipomoea angulata	1		1	0	0	0		0	237	
12	Kodisa	Cleistanthus collinus	25		10	8	3	4		2.230	40081	
13	Konda Thangedu	Milletia auriculata	7		2	3	1	1		1.627	18720	
14	Murali	Buchananialanzan	6		4	1	1	0		0.613	6348	
15	Nalla Maddi	Terminalia tomentosa	43		9	7	17	10		10.557	733762	
16	Odiga	Elangium sanifolium	2		2	0	0	0	0	0	378	
17	Pachari	Dalbergia paniculata	1		1	0	0	0	0	0.000	141	
18	Pala	Wrightia tinctoria	1		1	0	0	0		0.000	141	
19	Panchogi	Bridella Montana	1		0	0	0	0		0	141	
20	Pedda pala	--	1		1	0	0	0		0	141	
21	Poliga	--	1		1	0	0	0		0	237	
22	Pulicheru	Miscellaneous Species	1		1	0	0	0		0	141	
23	Pusuga	Schleichera oleosa	2		0	2	0	0		0.160	1307	
24	Sandra	Acacia chundra	23		21	2	0	0		0.115	5551	
25	Somi	Soymida febrifuga	20		5	7	4	4		3.793	75129	
26	Teak	Tectona Grandis	24		14	7	2	1		3.296	312261	
27	Thella Thumma	Terminalia arjuna	3		0	1	1	1		1.056	12783	
28	Thogara	Morinda tinctoria	3		2	1	0	0		0.023	615	
29	Thuniki	Dioseyros melanoxylon	60		16	18	13	13		13.494	245824	
30	Vepa	Azadirachta Indica	19		11	8	0	0		0.087	5618	
31	Yegisa	Pterocarpus marsupium	4		1	2	0	1		0.966	75476	
		Total:	381	0	157	110	65	48	0	61.353	1829331	

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Part2 Pedami to Thippa Road

Stretch No.4- Thippapuram to Battigudem

SL No	Local Name of Tree	Botanical name of tree	No.of trees total	Girth Class wise number of trees (CM)					No.of poles	Timber of Cum	Total Value in Rs.	Remarks
				Upto 30 cms	31 to 60 Cms	61 to 90 Cms	91 to 120 Cms	Above 120 Cms				
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Battaganapa	Mitragyna parvifolia	1				1			0.395	5708	
2	Billudu	Chloroxylon swietenia	1			1				0.253	2435	
3	Chennangi	Lagerstroemia parviflora	3		3					0.000	773	
4	Chilla	Strychnos patatorum	1				1			0.390	3759	
5	Chirumanu	Termilania Paniculata	12		2	7	3			3.412	43308	
6	Gumpena	Lannea coromandelica	9		1	4	2	2		3.481	41873	
7	Ippa	Madhuka Indica	6		6	0	3	0		1.574	15694	
8	Karaka	Terminalia chebula	2		1	1				0.180	378	
9	Kodisa	Cleistanthus collinus	1		1					0.000	291	
10	Murali	Buchananialanzan	1			1				0.000	237	
11	Nallamaddi	Terminalia tomentosa	14		9	0	2	3		5.760	527667	
12	Pusuga	Schleichera oleosa	1				1			0.188	1807	
13	Somi	Soymida febrifuga	4		1	2	1			0.948	12146	
14	Tada		1		1					0.000	141	
15	Teak	Tectona Grandis	8		4	2	2			1.159	122857	
16	Tuniki	Dioseyros melanoxylon	11		1	4	3	3		5.188	98956	
17	Vepa	Azadirachta Indica	1		0	1				0.195	1594	
		0	77	0	30	23	19	8	0	23.123	879624	0

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Part2 Pedami to Thippa Road

Stretch No.5- Yerrampadu to Battigudem

SL No	Local Name of Tree	Botanical name of tree	No.of trees total	Girth Class wise number of trees (CM)					No.of poles	Timber of Cum	Total Value in Rs.	Remarks
				Upto 30 cms	31 to 60 Cms	61 to 90 Cms	91 to 120 Cms	Above 120 Cms				
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Anduga	Boswellia serrata	2		1			1		1.266	18534	
2	Bandaru	Adiana cardifolia	1				1			0.432	25008	
3	Billudu	Chloroxylon swietenia	6		5	1				0.1792	3082	
4	Chennangi	Lagerstroemia parviflora	11		8	2	1			0.5486	8322	
5	Chilaka duddi	Sachopetalum tomentosa	1		1					0.000	237	
6	Chirumanu	Termilania Paniculata	14		2	7	4	1		5.27	78451	
7	Gotte	Polythia serasoides	1		1					0	141	
8	Gumpena	Lannea coromandelica	5			3	2			1.328	12075	
9	Ippa	Madhuka Indica	35		8	14	7	6		9.630	113226	
10	Kalagodi	--	3		1		2			0.842	8352	
11	Karaka	Terminalia chebula	3		0	3				0.696	5686	
12	Karangi	Bradenia lucida	1		1					0	237	
13	Kodisa	Cleistanthus collinus	8		4	4				0.646	7125	
14	Konda Thangedu	Milletia auriculata	37		7	20	7	3		10.246	148807	
15	Murali	Buchananialanzan	8		3	4	1			1.291	12119	
16	Nallamaddi	Terminalia tomentosa	36		10	10	5	11		14.954	1243763	
17	Oddi	Deistanthus Callinus	1			1				0.178	1459	
18	Pusuga	Schleichera oleosa	1					1		0.703	10165	
19	Somi	Soymida febrifuga	6		1	1	4			1.673	25911	
20	Teak	Tectona Grandis	20		9	9		2		3.05	330047	
21	Thani	Terminalia bellerica	4		1	1	2			1.263	18834	
22	Thogara	Morinda tinctoria	2		1	1				0.053	670	
23	Tuniki	Dioseyros melanoxyton	32		7	8	11	6		12.9349	243987	
24	Usiri	Phyllanthus emblica	2		1	1				0.324	2882	
25	Yegisa	Pterocarpus marsupium	7		1	3	1	2		3.149	254389	
			247	0	73	93	48	33	0	70.656	2573509	

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Part2 Pedami to Thippa Road

Stretch No.6- Thippapuram to Bathinapally (via Chennapuram)

SL No	Local Name of Tree	Botanical name of tree	No.of trees total	Girth Class wise number of trees (CM)					No.of poles	Timber of Cum	Total Value in Rs.	Remarks
				Upto 30 cms	31 to 60 Cms	61 to 90 Cms	91 to 120 Cms	Above 120 Cms				
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Bandari	Adiana cardifolia	1					1		0.504	48575	
2	Battaganapa	Mitragyna parvifolia	1		1					0.000	433	
3	Billudu	Chloroxylon swietenia	18		14	3	1			0.830	13803	
4	Butha vegi	--	1		1					0	141	
5	chennangi	Lagerstroemia parviflora	8		5	3				0.283	3706	
6	Chilaka dudduga	Sachopetalum tomentosa	6		4		2			0.920	9521	
7	Chilla	Strychnos patatorum	1			1				0.079	647	
8	Chinduga	Albizia odoratissima	1			1				0.114	932	
9	chinth velugu	--	1			1				0.105	862	
10	Chirumanu	Termilania Paniculata	21		3	10	7	1		3.996	52311	
11	Gumpena	Lannea coromandelica	8		2	3	3			1.4772	13995	
12	Ippa	Madhuka Indica	35		1	6	5	23		25.274	349424	
13	kalagodi	-	2			2				0.188	1540	
14	Karaka	Terminalia chebula	1		1					0.000	237	
15	Karangi	Bradenia lucida	1			1				0.067	544	
16	Kassi	Ipomoea angulata	4		2	2				0.261	1564	
17	Konda thangedu	Milletia auriculata	13		4	3	5	1		2.595	45647	
18	Murali	Buchananialanzan	13		8	3	2			1.356	14253	
19	Nalla Maddi	Terminalia tomentosa	24		1	2	9	12		13.055	1060492	
20	Pulicheru	Miscellaneous Species	1		1					0	141	
21	Pusuga	Schleichera oleosa	4				1	3		3.123	42758	
22	Somi	Soymida febrifuga	11		5	4		2		1.937	39301	
23	Teak	Tectona Grandis	12		8	1		3		6.546	888709	
24	Thogara	Morinda tinctoria	3		2	1				0.102	1311	
25	Tuniki	Dioseyros melanoxylon	41		9	10	14	8		11.452	217699	
26	Yegisa	Pterocarpus marsupium	7				4	3		6.091	508651	
			239	0	72	57	53	57	0	80.355	3317197	

ABSTRACT of Tree Enumeration:

SL No	Botanical name of tree	No.of trees total	Girth Class wise number of trees (CM)					No.of poles	Timber of Cum	Total Value in Rs.	Remarks
			Upto 30 cms	31 to 60 Cms	61 to 90 Cms	91 to 120 Cms	Above 120 Cms				
1	3	4	5	6	7	8	9	10	11	12	13
1	Uyyalamadugu to Thippapuram	51	0	15	19	13	4	0	13.028	262720	
2	Thaliperu Dam to Rallapuram	200	2	49	89	39	21	0	29.846	1384499	
3	Rallapuram to Battigudem	381	0	157	110	65	48	0	61.353	1829331	
4	Thippapuram to Battigudem	77	0	30	23	19	8	0	23.123	879624	
5	Yerrampadu to Battigudem	247	0	73	93	48	33	0	70.656	2573509	
6	Thippapuram to Bathinapally (via Chennapuram)	239	0	72	57	53	57	0	80.355	3317197	
	Total:	1195	2	396	391	237	171	0	278.361	10246880	

(Laxman Ranjeet Nayak, I.F.S.,)
 District Forest Officer,
 Bhadradri Kothagudem District.

**Site inspection report of diversion of 31.084 Ha. for formation of road from
Pedamidsileru to Bathinapally diverted in favour of R&B Department.**

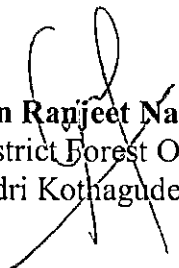
I have inspected all the sites in Charla Range on 27.01.2022 along with forest officials and user agency. The proposed roads are passing through different Compt.Nos. 70A, 71B&C, 72 of Pedamidisileru R.F. Block. The details are as furnished below.

Sl. No.	Range	Section	Beat	R.F. Block	Compt. No.	Length in Kms proposed by the User Agency in Kms	Proposed road width in Mtrs	Extent of the Area in ha. proposed by the User Agency in Ha.	Remarks
1	2	3	4	5	6	7	8	9	10
1	Charla	Thippapuram	Geesareilly	Pedami disileru	70A	4.830	7.50	4.238	Thaliperu Dam to Rallapuram,
2	Charla	Thippapuram	Geesareilly	Pedami disileru	70B	0.821			Rallapuram to Battigudem
3	Charla	Thippapuram	Uyyalamadugu	Pedami disileru	72	1.932	7.50	1.449	Uyyalamadugu to Thippapuram The user Agency informed that they are withdrawing the road proposal, during REC visit on 19.02.2022.
4	Charla	Thippapuram	Thippapuram East	Pedami disileru	71B	3.254	7.50	2.440	Thippapuram to Battigudem
5	Charla	Thippapuram	Bathinapally East	Pedami disileru	71C	1.663	7.50	1.2474	Yerrampadu to Battigudem
6	Charla	Thippapuram	Thippapuram South	Pedami disileru	71B & 71C	8	20	16	Thippapuram to Bathinapally (via Chennapuram) Total width of 20 mtrs violated is considered for diversion in 8 Km.
						2.3045	10	2.3045	
					Total:	22.805		27.6789	-1.449 =26.2299 Ha.
						Total Diversion Forest land		26.2299	

The User Agency initially proposed for a total forest area diversion of 31. Ha. with width 12.5 Mtrs and 15 Mtrs. Further, user agency has reduced the width of proposed roads to 7.5 Mtrs and 10 Mtrs (only for stretch 5) and also proposed to withdraw road proposed on stretch 2 (Uyyalamadugu to Thippapuram) accordingly the land required for this road is deleted from the total requirement of diversion.

Further, it was observed that violation has been done by R&B department in the year 2016 on Thippapuram to Bathinapally via Chennapuram (stretch 5) along 8 km with a width of 20 Mtrs out of total proposed length of 10.3045 KM. Accordingly the required area for diversion in this stretch is considered as 18.3045 Ha (16 ha violation area and 2.3045 Ha non violation area).

All the sites are falling in the forest type Southern Tropical Dry Deciduous Forests (5A) as per Champion and Seth classification. The vegetation is of miscellaneous type with predominant species of Tectona Grandis, Chloroxylon swietenia, Morrinda Clrifolia, Madhuka Indica, Diospyros melanoxylon, Adiana cardifolia, Pterocarpus marsupium etc., The proposed forest land for diversion for the proposed project is bearest minimum and unavoidable. The type of soil is Red soil. The average crop density is 0.40 in all the sites. All the sites are plain lands and non-vulnerable to erosion. These villages are being connected strategically to counter LWE activities as these locations are bordering Chattishgarh state, movement of forces in these areas should be unpredictable. Hence, multiple outward roads are being proposed, which is justifiable. These projects will also improve movement of forest staff and will also help in forest protection.


(Laxman Ranjeet Nayak, I.F.S.)
District Forest Officer,
Bhadradi Kothagudem District.

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Penal Compensatory afforestation scheme for illegal formation of road at
Chennapuram village of Charla Range, Bhadrachalam division of Bhadrachalam
Kothgudem district,

A. Degraded forest lands (DFL) for PCA:

1. Introduction:

In lieu of diversion of forest land over an extent of 16 Ha violation of Forest land in Charla Range of Bhadrachalam Division for construction of B.T. road from Thippapuram to Chennapuram. In this regard as per the instructions issued PCA scheme is prepared cost of plantation including 10 years maint. shall be levied from the User Agency towards Penal compensatory afforestation.

As per the instructions 32 Ha of Degraded patch is identified for PCA at Uyyalamdugu Beat, Compt.No.72 of Thippapuram section in Charla Range to meet the requirement of planting 1111 plants/ Ha.

THE SCHEME - TREATMENT MODELS AND OPERATIONS PROPOSED:

Plantations: It is proposed to take up compensatory afforestation of **NON TEAK SECONDARY HARDWOOD SPECIES (NTSH)** through Semi-mechanical method, with CPT along the periphery of the DFL CA area.

The above Reforestation work shall be carried out either by involvement of VSS members wherever possible or through Departmental execution.

The operation to be carried out are Survey and demarcation, clearance of existing unwanted growth, uprootal, burning, ploughing, inter-ploughing, scoping of 60 cm cube pits and planting at 3 x 3 m espacement with 10 years of maintenance etc. Watering of plants is provided for raising year.

Administrative Costs (Over Heads): As the work involves lot of record maintenance, book keeping and mobility of the field officers it is required to provide 10% of treatment cost (nursery raising and plantation raising) towards over heads and monitoring of implementation of the Scheme.

PROJECT COST: The total financial out lay of the project is Rs.221.351 lakhs.

Cost of Tall Plants and Maintenance upto Planting is proposed in 2022-23 & 2023-24, Advance operations 2023-24 and raising of plantation starts from 2023-24. The annual requirement of funds have been worked out on the base cost of 2021-22 FSR with 10% annual escalation for the remaining project period up to 2033-34.

S. No	Scheme Proposals	Cost in Lakhs
1	Cost of Tall Plants	15.276
2	Raising of plantations with 10 years of maintenance	187.896
	Total:	201.228
3	Administrative Cost(10%)	20.123
	Total	221.351

It is proposed to implement the above proposals through VSS on Joint Forest Management concept wherever possible or by Departmental execution method. In addition to the existing staff of Forest Department with required logistic support, necessary manpower required for effective implementation of the project will be hired through outsourcing from the administrative cost.

PENAL COMPENSATORY AFFORESTATION SCHEME FOR 32 Ha. OF CHARLA RANGE Under SMM FROM THIPPAPURAM TO CHENNAPURAM FOR VIOLATION OF FC ACT IN CHARLA RANGE OF BHADRACHALAM DIVISION.

Sl No	Component	Unit Cost	2021-22			2022-23			2023-24			2024-25			2025-26		
			Phy.	Rate	Fin.	Phy.	Rate	Fin.	Phy.	Rate	Fin.	Phy.	Rate	Fin.	Phy.	Rate	Fin.
			3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Raising of plantations in Degraded Patch 32 Ha.																
	Advance operations for raising NTSH plantation -32 Ha.	0.43397	0	0	0	32	0.4774	15.2759	0	0	0	0	0	0	0	0	0
2	Cost of Tall Plants	0.0003	0	0	0	44440	A/a	13.332	0	0	0	0	0	0	0	0	0
3	Raising of plantation under SMM 32 Ha Including cost of plants	1.1549815	0	0	0	0	0	0	32	1.501476	48.047	0	0	0	0	0	0
4	1st year Maint. of NTSH Plantation	0.3950457							0	0	0	32	0.553064	17.698			
5	2nd year Maint. of NTSH Plantation	0.2671166													32	0.374	11.967
6	3rd year Maint. of NTSH Plantation	0.1158551															
7	4th year Maint. of NTSH Plantation	0.1158551															
8	5th year Maint. of NTSH Plantation	0.1158551															
9	6th year Maint. of NTSH Plantation	0.1158551															
10	7th year Maint. of NTSH Plantation	0.1158551															
11	8th year Maint. of NTSH Plantation	0.1158551															
12	9th year Maint. of NTSH Plantation	0.1158551															
13	10th year Maint. of NTSH Plantation	0.1158551															
						1	4.123	4.123	1	8	8.0000	1	4	4.0000	1	4	4.0000

2026-27			2027-28			2028-29			2029-30			2030-31			2031-32			2032-33			2033-34			Total	
Phy.	Rate	Fin.	Phy.	Rate	Fin.	Phy.	Rate	Fin.	Phy.	Rate	Fin.	Phy.	Rate	Fin.	Phy.	Rate	Fin.	Phy.	Rate	Fin.	Phy.	Rate	Fin.	Phy.	Fin.
18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	36	37	38	39	40
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	15.276
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44440	13.332
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	48.047
																								32	17.698
																								32	11.967
																								32	5.561
32	0.174	5.56104																						32	5.932
			32	0.185	5.932																			32	6.303
						32	0.197	6.30252																32	6.673
									32	0.209	6.6733													32	7.044
												32	0.220	7.043989										32	7.415
															32	0.232	7.41473							32	7.785
																		32	0.243	7.78546				32	48.196
																					32	1.506	48.19571	32	202.2
																								1	20.123

Forest Divisional Officer,
Bhadracliam Division

Unit Cost Estimate for Advance Operation for raising of Plantation under SMM

Sl. No.	FSR Code	Item of work	Qty	Rate in Rs.			Per	Amount	
				As per FSR	Agency allowance 25%	Total			
1	2	3	4	5	6	7	8	9	
	02.03.00	ADVANCE OPERATION (PRE-PLANTING OPERATION) - All advance-operation works of plantations to be raised shall be completed before March. Perambulation of site, preparing site inspection report including type of vegetation and density, approval of site suitability and the category of jungle growth clearance, taking							
	02.08.01	Survey with hand-held GPS (staff to carry out) and demarcation - one manday is allowed for assistance. The surveyed sketch with exact effective area statement will be uploaded in MIS platform by end of December.	1	Ha.	393.21	0.00	393	Ha	393
	02.08.02	Clearing unsalable unwanted jungle growth (leaving all the tree species of good form particularly the hardwood tree species like Teak, Nallamaddi, Yegisa, Narana, Somi, Jirrai, Billudu, Chenangi etc. and NTFP)							
		(b) Very Light Jungle Growth (>10% and upto 20% ground area covered with Jungle growth)	1.00		3284.95	4106.19	4106	Ha	4106
	02.03.03	Uprootal of Stumps (excluding unsuitable patches) to a minimum depth of 45 cm with heavy machinery fitted with 0.90 cum and above capacity bucket, filling the pits caused by uprootal, and levelling. For retrieved encroached area, the approval of Circle Head is required and the approval should indicate clearly the density of stumps or vegetation to be removed through uprootal. The uprootal work can be carried out preferably through tender process.							
		(b) Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)	1.00		11037.51	0.00	0	Ha	11038
	02.08.04	Collection and Removal of Uprooted Stumps of all sizes, other debris etc., to outside the plantation site.							
		(b) Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)	1.00		9657.68	0.00	0	Ha	9658
	02.08.05	Tilling (PERMISSIBLE FOR CA AREA ONLY) the soil to a depth of 45 cm in the effective area (excluding unsuitable patches) with heavy duty machinery fitted with 0.90 cum and above capacity bucket and levelling - ONLY PERMISSIBLE FOR CA AREA and written approval of Circle Head is							
		(b) Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)			13962.8		13963		13963
	02.19.02	Digging of Peripheral Trenches (1 M Depth ; 1m top width, 1.5 M Bottom width) by machine for 1. km 1000 Rmt, (320 X 1.25 = 400)	100		42.40		0		4240
							Sub Total:		43397

Total : 2021-22	43397
Escalation 10%	4340
Total: 2022-23.	47737
Escalation 10%	4774
Total: 2023-24.	52511
Escalation 10%	5251
Total: 2024-25.	57762
Escalation 10%	5776
Total: 2025-26.	63538
Escalation 10%	6354
Total: 2026-27.	69892
Escalation 10%	6989
Total: 2027-28.	76881
Escalation 10%	7688
Total: 2028-28.	84569
Escalation 10%	8457
Total: 2029-30.	93026
Escalation 10%	9303
Total: 2030-31.	102329
Escalation 10%	10233
Total: 2031-32.	112562

Forest Divisional Officer,
Bhadrachalam

[Signature]
01/04/2022

Unit Cost Estimate for Raising of Plantation under SMM

Sl. No.	FSR Code	Item of work	Qty	Rate in Rs.			Per	Amount
				Asper FSR	Agency allowance @ 25%	Total		
1	2	3	4	5	6	7	8	9
	02.09.00	PLANTING OPERATIONS DURING RAISING YEAR						
1	02.09.01	Removing congestion of root suckers and other uprooted material hindering the effective ploughing	1 Ha	1119.37	279.84	1399.21	1 Ha	1399
2	02.09.03	Deep Ploughing the effective (excluding unsuitable patches) plantation area across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough. FOR UN TILLED AREA ONLY						
		(a) Ordinary soils like gravel and morum	0.50 Ha	3744.62	0.00	3744.62	1 Ha	1872
		(b) Hard soils like gravel and morum	0.50 Ha	5620.89	0.00	5620.89	1 Ha	2810
3	02.09.04	Alignment & Stacking including demarcation of base line						
		(c) 3X3 m espacement = 1111 planting points	1111 No.	93.82	23.46	117.28	100 No.	1303
4	02.09.05	i) Cost of preparation of stakes (0.45 m length) and transportation to site	1111 No.	59.81	0.00	59.81	100 No.	664
		ii) Cost of preparation of stakes (2.0 m length) and transportation to site (subject to condition that the seedling height is 1.5m to 2.0m height) which includes cost of stake, coalter application at the bottom of the stake (30 cm), transportation, fixing and tying.	1111 No.	1260.00	0.00	1260.00	100 No.	13999
5	02.09.06	Digging of Pits in Ploughed Areas in June - July by adopting 50% of original rate of digging of pits of ordinary soil						
		b) 45 cm3 pits	1111 No.	11.19	2.80	13.99	1 No.	15540
6	02.09.07	(a) Transportation of Planting Stock (including loading and unloading) up to a distance of 5 km						
		(c) 23 X 28 cm (9"X11") bag plants	1111 No.	268.03	0.00	268.03	100 No.	2978
7	02.09.08	(d) 23 X 28 cm (9"X11") bag plants For the distance of 15 Kms. i.e. 9.42 x 15=Rs. 94.20 / 100 Nos. per Km.	1111 No.	94.20	0.00	94.20	100 No.	1047
8	02.09.10	Internal transportation to planting points on head loads						
		(d) 23 X 28 cm (9"X11") bag plants	1111 No.	173.09	43.27	216.35	100 No.	2404
9	02.09.11	Fortification of seedling with insecticide and treating pits with SSP						
		(a) Application of 50 gm of SSP per pit (1 day before planting) for root growth and early establishment of plant after planting. ii) Similarly, the bag plants to be planted will be dipped inside Chloropyrphos solution (5ml Chloropyrphos in 1 lit water) either at nursery site before transport or at plantation site before planting	1111 No.	41.23	10.31	51.54	100 No.	573
		(b) Cost of SSP, Chloridine dust or Chloropyrphos (50 gm. X 11110 = 55500 Grms. /1000 = 560 Kgs. / 45 Kgs. = 12.44 or 13 bags x Rs. 500/- = Rs. 6500/-	1111 No.	13	0.00	500.00	1 No.	6500
10	02.09.12	Planting in various size pits						
		b) Planting in 45 cm3 Pit	1111 No.	459.36	114.84	574.20	100 No.	6379
	02.09.14	Watering (one time) immediately after planting if the planting takes place on a non-rainy days and during dry spell						
		a) One critical watering after planting if planting takes place on non-rainy days with the prior written permission of DFO / FDO.	1111 No.	278.11	69.53	347.64	100 No.	3862
11	02.09.16	Cost of DAP @ 25 gm / planting point. (25 gm. X 11110 = 277750 Grms. /1000 = 277.75 Kgs. / 45 Kgs. = 6.172 or 7 bags x Rs. 1300/- = Rs. 9100/-	1111 No.	A/a	0.00	0.00	1 No.	9100
12	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 and closing. Ensure that the soil is really wet at the time of DAP application.	1111 No.	41.23	10.31	51.54	100 No.	573

Sl. No.	FSR Code No.	Item of work	Qty		Rate in Rs.			Per		Amount
					Asper FSR	Agency allowance @ 25%	Total			
13	02.09.15	Replacement of Casualties: 20% during Raising Year. (In case of Eucalyptus: 10% during raising and no casualty replacement for further maintenance). The casualty replacement should be done in 3 stages at an interval of 15 days immediately after planting during raising year.								
	02.09.07	Transportation of Planting Stock (up to 5 km) (d) 23 X 28 cm (9"X11") bag plants.	278	No.	268.03	0.00	268.03	100	No.	745
14	02.09.08	b) Transportation of Planting Stock (including loading and unloading) more than 5 km distance and upto 25 km distance								
		(d) 23 X 28 cm (9"X11") bag plants For the distance of 15 Kms. i.e. $9.42 \times 15 = \text{Rs. } 94.20 / 100$ Nos. per Km.	278	No.	94.20	0.00	94.20	100	No.	262
15	02.09.10	Internal transportation to planting points on head loads								
		(c) 20 X 30 cm (9"X11") bag plants	278	No.	173.08	43.27	216.35	100	No.	601
16	02.09.06	Digging of Pits	278	No.	5.60	1.40	6.99	1	No.	1944
17	02.09.12	b) Planting in 45 cm3 Pit	278	No.	437.48	109.37	546.85	100	No.	1520
18	02.09.16	Cost of DAP @ 25 gm / planting point. (25 gm. X 2222 = 55550 Grms. / 1000 = 55.55 Kgs. / 45 Kgs. = 1.5 or 2 bags x Rs. 1300/- = Rs. 2600/-)	278	No.	2.00	0.00	1300.00	1	No.	2600
	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 and closing. Ensure that the soil is really wet at the time of DAP application.	278	No.	41.02	0.00	41.02	100	No.	114
19	02.09.18	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.	1111	No.	131.20	32.80	164.00	100	No.	1822
20	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	No.	689.06	172.27	861.33	100	No.	9569
21	02.09.20	Inter-ploughing (during November) the effective (excluding unsuitable patches) plantation area across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough								
		(a) Ordinary soil	0.50	Ha	2553.54	0.00	2553.54	1	Ha	1277
		(b) Hard gravelly soil	0.50	Ha	3502.95	0.00	3502.95	1	Ha	1751
22	02.09.21	Pruning of lower branch initials of Timber and NTFP species by sickature upto 1/3 rd height (to be done during October)	1111	No.	130.43	32.61	163.04	100	No.	1811
23	02.09.22	Uprootal of Mahaveera (<i>Hypsis suaveolens</i>) weed with prior written approval of Circle Head and taking photograph before and after uprootal. The weed removal shall be completed before September-end at any cost before inter-ploughing.	1	Ha	3833.45	958.36	4791.81	1	Ha	4792
24	02.09.23	Enumeration of row-wise survival and average growth twice in raising year - Number of plants planted and Number surviving (to be undertaken during May & Dec.) and entered in Plantation Journal. Minimum stocking of 90% and average minimum height of 1.5 m at the end of raising year.								
25	02.09.24	Contingencies provision for Raising of plantations:								
		i) Fixing of Plantation Boards and Corner Stones	1	No.	A/a					1500
		ii) Contingencies and Miscellaneous (with in 5% of the estimate cost subject to ceiling of Rs. 5,000/-)	99813		5%					4991

To be done by the staff
(plantation-in-charge) with the
help of Plantation Watcher

Sl. No.	FSR Code No.	Item of work	Qty		Rate in Rs.			Per	Amount
					As per FSR	Agency allowance @ 25%	Total		
26	02.09.25	Cost of Protection: (a) For fenced area: One Casual labour is allowed for the plantation more than 10.00 ha but less than 30.00 ha. in extent and two Casual labourers are allowed for more than 30.00 ha.	2	No.	10 Months		9194.85		9195
							Grand Total		115498

Total : 2021-22 115498
 Escalation 10% 11550
 Total: 2022-23. 127048
 Escalation 10% 12705
 Total: 2023-24. 139753
 Escalation 10% 13975
 Total: 2024-25. 153728
 Escalation 10% 15373
 Total: 2025-26. 169101
 Escalation 10% 16910
 Total: 2026-27. 186011
 Escalation 10% 18601
 Total: 2027-28. 204612
 Escalation 10% 20461
 Total: 2028-28. 225073
 Escalation 10% 22507
 Total: 2029-30. 247580
 Escalation 10% 24758
 Total: 2030-31. 272338
 Escalation 10% 27234
 -Total: 2031-32. 299572

Bahar
 Forest Divisional Officer,
 Bhadrachalam

74
 01/04/2022

Unit Cost Estimate for 1st Year maint of Plantation under SMM										
Sl. No.	FSR Code	Item of work	Qty	Rate in Rs.	Agency allowance 25%	Total	Per	Amount		
1	02.03.01	Replacement of Casualties: 25% in 1st year (In case of Casualties: no casualty replacement). The list of all casualty points shall be prepared by concerned FRO by end of June. The list of all such casualty points shall be completed by end of July.								
2	02.09.06	Digging of pits - Manual : All efforts shall be made to complete pitting works before March-end. Under exceptional circumstances (if the target of plantation is given in the month of March-April), the pitting can be done during June and July. But any pitting done during June-July, plants can only be planted after the pits are verified by field inspectors of FROs and DFOs of proper dimensions to avoid simultaneous pitting and planting which may result in higher percentage of casualties.								
3	02.09.07	(a) Transportation of Planting Stock (including loading and unloading) up to a distance of 5 km	277	No.	11.190	2.798	13.99	10	No.	3875
4	02.09.08	(b) Transportation of Planting Stock (including loading and unloading) more than 5 km distance and upto 25 km distance	277	No.	268.03	0.00	268.03	100	No.	742
5	02.09.10	(a) 23 X 28 cm (9"X11") bag plants	277	No.	9.42	0.00	188.40	100	No.	522
5	02.09.10	(b) 23 X 28 cm (9"X11") bag plants	277	No.	173.08	43.27	216.35	100	No.	599
5	02.09.12	Planting in various size pits	277	No.	459.36	114.84	574.20	100	No.	1591
6	02.10.02	Weeding and sucker formation to a radius of 0.5 mts around the plant during June.	1111	No.	131.20	32.80	164.00	100	No.	1822
6	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 denuding the plant (during Nov - Dec)	1111	No.	689.06	172.27	861.33	100	No.	9569
8	02.10.04	(b) For hard gravelly soil Uproot of Mahaveera (Hyplus suaveolens) weed with prior written approval of Circle Head and taking photograph before and after uproot. The weed removal shall be completed 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. This operation shall be carried out after Mahaveera uproot is completed. Inter-ploughing should not be used as a means of Mahaveera uproot.	1	Ha	3833.45	0.00	3833.45	1	No.	3833
9	02.10.05	Pruning of lower branch initials of Timber and NTFP species by scabure upto 1/3 rd height during October.	1	Ha	2553.54	0.00	2553.54	1	No.	2554
10	02.10.06	Engraving of row-wise survival and average growth twice a year - Number of plants planted and Number surviving (to be undertaken during May & Dec) and entered in Plantation Journal. Minimum stocking of 90% and average minimum height of 2.5 m at the end of raising year	1111	No.	130.48	32.62	163.10	100	No.	1812
11	02.10.08	Contingencies provision for maintenance of plantations:								
		(i) Maintenance of Plantation Boards and Corner Stones			As per Actuals	As per Actuals				500
		(ii) Contingencies and Miscellaneous (with in 3% of the estimate cost subject to ceiling of Rs. 3,000/-)	27419							500
1st YEAR MAINTENANCE										
07	03.00		4		5	6	7	8	9	

Sl. No.	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				Asper FSR	Agency allowance 25%	Total		
13	02.10.09	(b) For unfenced area: One Casual labour is allowed for plantation more than 10.00 ha but less than 20.00 ha and one more Casual labour is permitted for multiples of 20.00 ha.	2	Months		9654.59		11586
						Grand Total		39505

Total : 2021-22 39505
 Escalation 10% 3950
 Total: 2022-23. 43455
 Escalation 10% 4345
 Total: 2023-24. 47800
 Escalation 10% 4780
 Total: 2024-25. 52580
 Escalation 10% 5258
 Total: 2025-26. 57838
 Escalation 10% 5784
 Total: 2026-27. 63622
 Escalation 10% 6362
 Total: 2027-28. 69984
 Escalation 10% 6998
 Total: 2028-29. 76982
 Escalation 10% 7698
 Total: 2029-30. 84680
 Escalation 10% 8468
 Total: 2030-31. 93148
 Escalation 10% 9315
 Total: 2031-32. 102463

Bahmy
 Forest Divisional Officer,
 Bhadrachalam

01/04/2022

Unit Cost Estimate for 2nd Year maint. of Plantation under SMM

Sl. No.	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				Asper FSR	Agency allowance 25%	Total		
1	2	3	4	5	6	7	8	9
	02.11.00	2nd YEAR MAINTENANCE						
1	02.11.01	Broadcasting of Stylosanthes hamata seeds in the inter-planting rows of the plantations raised under semi-mechanical plantations by ploughing with a tractor-mounted cultivator after receipt of good rains in the month of June-July in place of existing provision of inter-ploughing in the month of September given for the 1st and 2nd year MAINTENANCE years of semi-mechanical plantations						
		(b) Inter ploughing using tractors with cultivator in 1st year maintenance and old plantations	1	Ha	2195.83	548.96	2744.79	Ha 2745
2	02.11.02	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)(b) For hard gravelly soil	1111	No.	689.06	172.27	861.33	100 No. 9569
3	02.11.03	Pruning of lower branch initials of Timber and NTFP species by sciculture upto 1/3 rd height during October.	1111	No.	130.48	32.62	163.10	100 No. 1812
	02.11.04	Enumeration of row-wise survival and average growth twice a year - Number of plants planted and Number surviving (to be undertaken during May & Dec.) and entered in Plantation Journal. Minimum stocking of 90% and average minimum height of 2.5 m at the end of raising year		To be done by the staff (plantation-in-charge) with the help of Plantation Watcher				
4	02.11.05	Contingencies provision for maintenance of plantations:						
		i) Maintenance of Plantation Boards and Corner Stones						500
		ii) Contingencies and Miscellaneous (with in 3% of the estimate cost subject to ceiling of Rs. 3,000/-)	14126					500
6	02.11.06	(b) For unfenced area; One Casual labour is allowed for plantation more than 10.00 ha but less than 20.00 ha and one more Casual labour is permitted for multiples of 20.00 ha.	2	Months		9654.59		11586
						Grand Total		26712

Total : 2021-22	26712
Escalation 10%	2671
Total: 2022-23.	29383
Escalation 10%	2938
Total: 2023-24.	32321
Escalation 10%	3232
Total: 2024-25.	35553
Escalation 10%	3555
Total: 2025-26.	39108
Escalation 10%	3911
Total: 2026-27.	43019
Escalation 10%	4302
Total: 2027-28.	47321
Escalation 10%	4732
Total: 2028-28.	52053
Escalation 10%	5205
Total: 2029-30.	57258
Escalation 10%	5726
Total: 2030-31.	62984
Escalation 10%	6298
Total: 2031-32.	69282

Forest Divisional Officer,
Bhadra Chaleam
01/04/2022

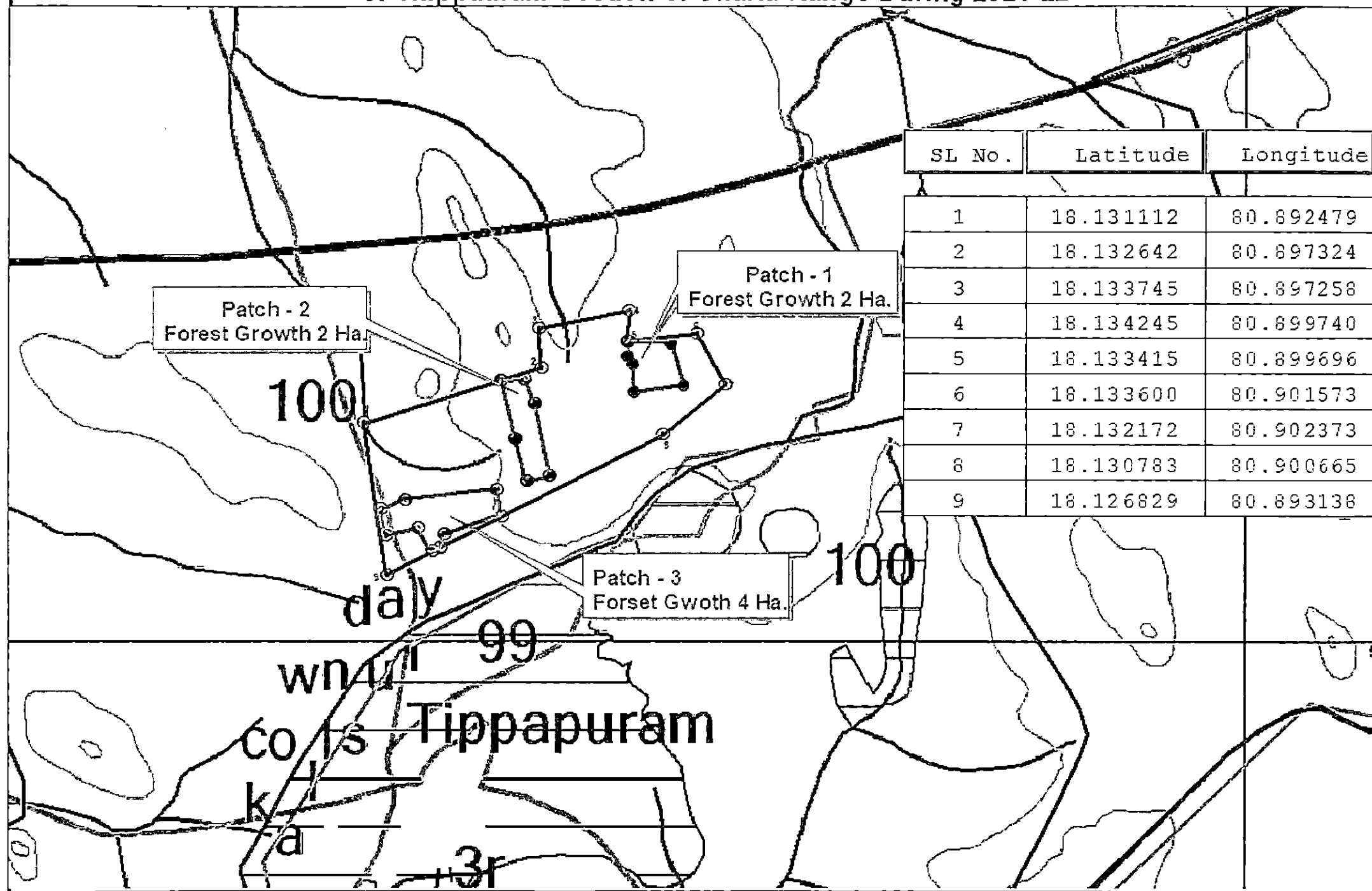
Unit Cost Estimate for 3rd to 10th Year maint. of Plantation under SMM

Sl. No.	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				Asper FSR	Agency allowance 25%	Total		
1	2	3	4	5	6	7	8	9
	02.11.00	3rd YEAR MAINTENANCE						
1	02.11.06	(b) For unfenced area: One Casual labour is allowed for plantation more than 10.00 ha but less than 20.00 ha and one more Casual labour is permitted for multiples of 20.00 ha.	2	Months		9654.59		11586
						Grand Total		11586

Total : 2021-22	11586
Escalation 10%	1159
Total: 2022-23.	12745
Escalation 10%	1274
Total: 2023-24.	14019
Escalation 10%	1402
Total: 2024-25.	15421
Escalation 10%	1542
Total: 2025-26.	16963
Escalation 10%	1696
Total: 2026-27.	18659
Escalation 10%	1866
Total: 2027-28.	20525
Escalation 10%	2052
Total: 2028-28.	22577
Escalation 10%	2258
Total: 2029-30.	24835
Escalation 10%	2483
Total: 2030-31.	27318
Escalation 10%	2732
Total: 2031-32.	30050
Escalation 10%	3005
Total: 2032-33.	33055

Bedam
Forest Divisional Officer,
Shadrachalam
01/04/2022

Location Map of Degraded Area 32 Ha. Pedamidisileru RF, Compt.No.72 in Uyyalamadugu Beat of Thippauram Section of Charla Range During 2021-22



Google Map of Degraded area 32 ha. Pedamidsilleru RF, Compt.No.72 In Uyyalamadugu Beat of Charla Range During 2021-2022

Write a description for your map

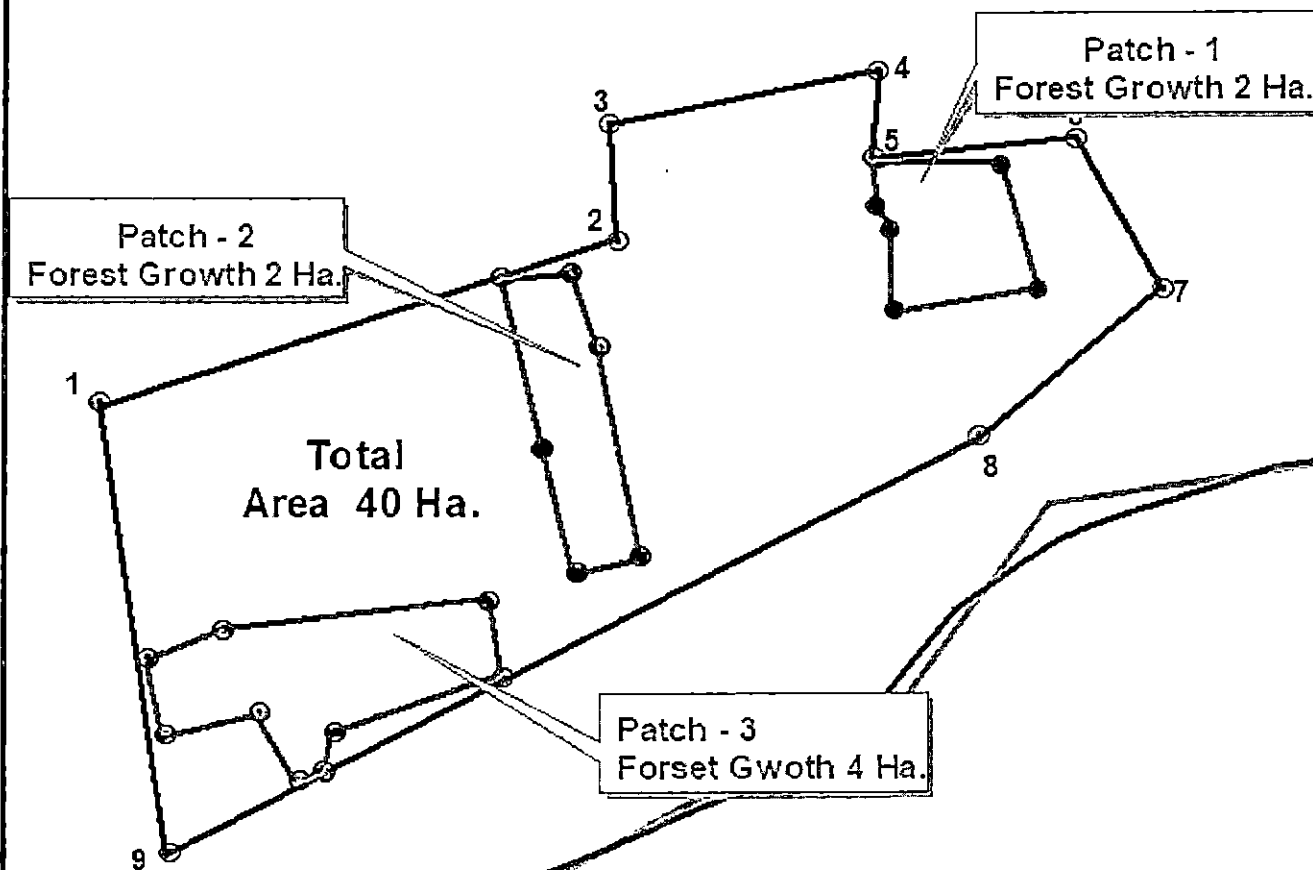
Google Earth

Image 3/2/2022 11:00:00 AM

Legend



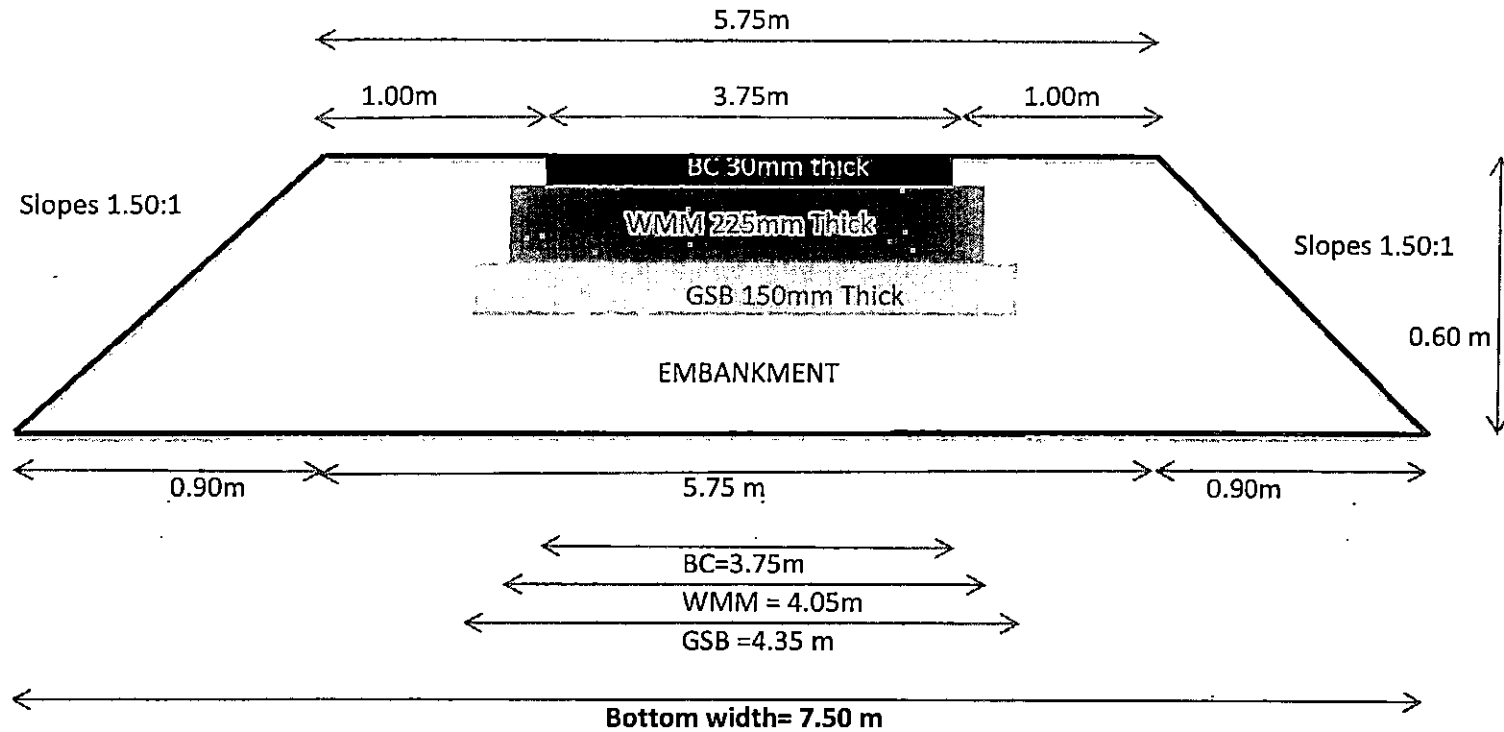
Surveyed Map of Degraded Area 32 Ha. Pedamidisileru RF, Compt.No.72 in Uyyalamadugu Beat of Thippauram Section of Charla Range During 2021-22



SL No.	Latitude	Longitude
1	18.131112	80.892479
2	18.132642	80.897324
3	18.133745	80.897258
4	18.134245	80.899740
5	18.133415	80.899696
6	18.133600	80.901573
7	18.132172	80.902373
8	18.130783	80.900665
9	18.126829	80.893138

- Beat Boundary
- Beat Boundary
- Total Area 40 Ha.
Effected area 32 Ha.

"Improvements of 1)Uyyalamadugu to Thippapuram road from km 0/0-3/0 2)Thaliperudam to Rallapuram Road from km 0/0-2/0
3)Rallapuram to Battigudem road from km 0/0-3/0 4)Thippapuram to Battigudem Road from km 0/0-4/0 5)Errampadu to
Battigudem Road from km 0/0-3/0 in Cherla Mandal of Bhadrachalam District"



PROPOSED TYPICAL CROSS SECTION FOR SINGLE LANE BT ROAD

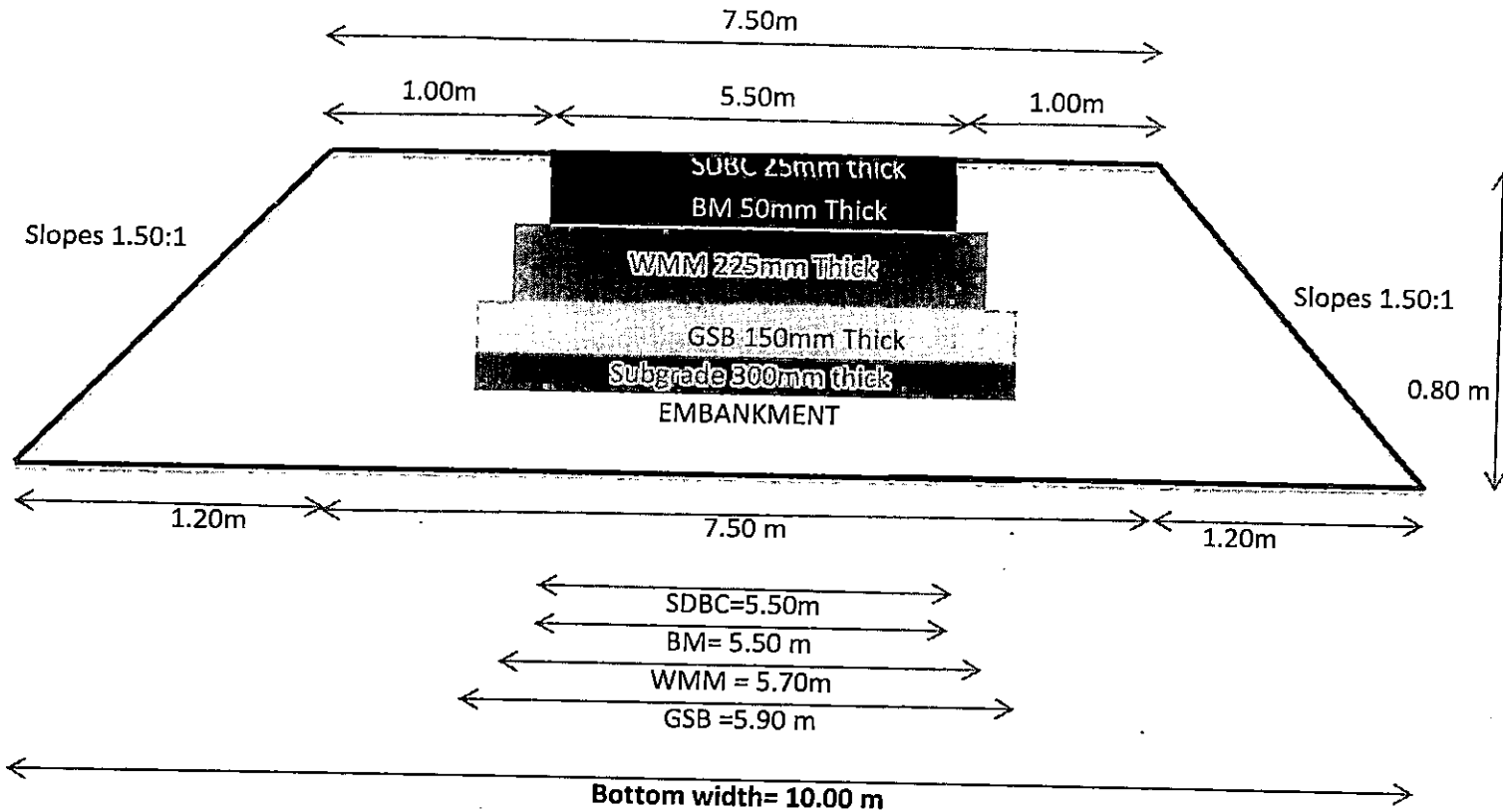
[Signature]

Assistant Executive Engineer
(R&B) Section, Bhadrachalam

[Signature]

Deputy Executive Engineer
(R&B) Sub Division, Bhadrachalam

Name of Wor:- Construction of BT Road from Bathinapally to Chennapuram road from km 0/0-10/3045 in Cherla Mandal of Bhadradri Kothagudem District

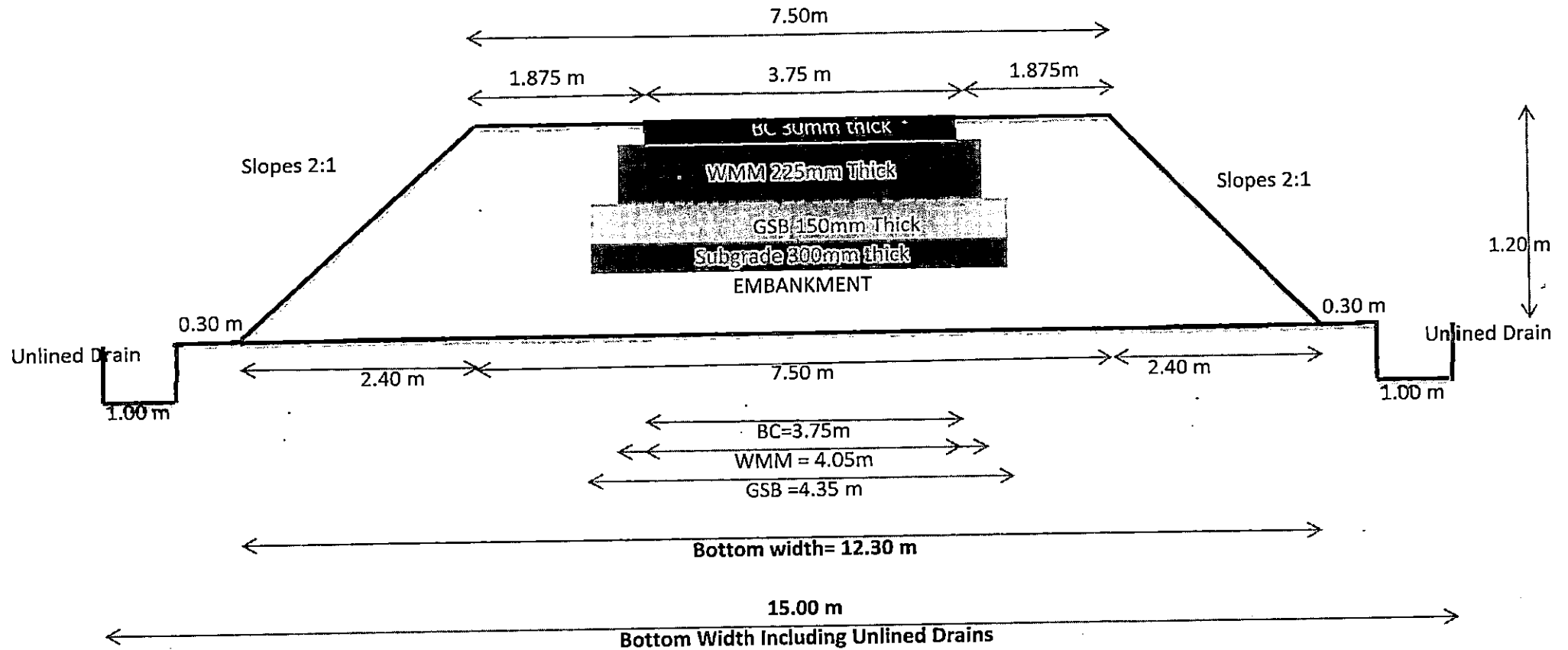


[Signature]
Assistant Executive Engineer
(R&B) Section, Bhadrachalam

[Signature]
Deputy Executive Engineer
(R&B) Sub Division, Bhadrachalam

PROPOSED TYPICAL CROSS SECTION FOR INTERMEDIATE LANE BT ROAD

Name of Work:- Construction of Single lane BT Road from Thippapuram to Chennapuram road from km 0/0-8/0 in Cherla Mandal of Bhadradi Kothagudem District



PROPOSED TYPICAL CROSS SECTION FOR SINGLE LANE BT ROAD VIOLATED

Assistant Executive Engineer
(R&B) Section, Bhadrachalam

Deputy Executive Engineer
(R&B) Sub Division, Bhadrachalam