



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)
National Highways Authority of India
(Ministry of Road Transport & Highways, Government of India)
क्षेत्रीय कार्यालय, मदुरै / Regional Office, Madurai

दूसरा व तीसरा तल, विजय कृष्ण प्लाज़ा, संख्या-1, लेक एरिया, मेलूर मेन रोड, माट्टुतावनी, मदुरै-625 107
2nd & 3rd Floor, Vijay Krishna Plaza, No.1, Lake Area, Melur Main Road, Mattuthavani, Madurai-625 107
दूरभाष/ Tele : +91-452-258 8999 वेब/Website : www.nhai.gov.in ई-मेल/ E-mail : romadurai@nhai.org



NHAI/15018/3.6/02/2024/RO Madurai/E: 224136/1259

28th August, 2024

INVITATION OF PUBLIC COMMENTS

विषय: भाराराप्रा - क्षे.का. मदुरै- पकाई, त्रिची - Trichy - Madurai section of NH 45B (New NH 38) - GCC/Trichy - Design, Detailed Engineering, Manufacture and supply of 16.2 kms of 110 Kv 1X630 sq.m Aluminium XLPE UG Cable and accessories, laying of cable, erection of joints and termination, testing and commissioning from Loc.16 (near Army to the Mannarpuram 110 KV SS end under total turnkey basis - Check list and route layout drawings for laying 110KV 1C x 630 sq.m XLPE Al. UG Cable from Km 0/000 to Km2/550 - Invitation of Public Comments - Reg.

प्रसंग:

1. PD, Trichy Lr. No. NHAI/PD/TRY/TNEB/NH 38/T-M/2024/1550 dated 06.08.2024.
2. PD, Trichy Lr. No-NHAI/PD/TRY/NH 38/T-M/TNEB/2024/1237 dated 26.06.2024.
3. PD, Trichy Lr.No-NHAI/PD/TRY/NH 38/T-M/TNEB/2024/1068 dated 10.06.2024.
4. PD, Trichy Lr.No-NHAI/PD/TRY/NH 38/T-M/TNEB/2024/51 dated 09.01.2024.
5. PD, Trichy Lr.No-NHAI/PD/TRY/NH 38/T-M/TNEB/2023/2475 dated 21.12.2023.
6. PD, Trichy Lr.No-NHAI/PD/TRY/NH 38/T-M/TNEB/2023/1489 dated 22.07.2023.
7. PD, Trichy Lr.No-NHAI/PD/TRY/NH 38/T-M/TNEB/2023/984 dated 23.05.2023.
8. PD, Trichy Lr.No-NHAI/PD/TRY/NH 38/T-M/TNEB/2023/695 dated 10.04.2023.

The Proposal is regarding permission for erection of 110 Kv 1X630 sq.m Aluminium XLPE UG Cable and accessories, laying of cable, erection of joints and termination, testing and commissioning from Loc.16 (near Army to the Mannarpuram 110 KV SS end under total turnkey basis in Trichy - Madurai section of NH 45B (New NH 38) in the State of Tamil Nadu.

2) The Superintending Engineer (GCC), Trichy has been submitted to the PD, Trichy and in turn to the RO, Madurai through Lr.No-NHAI/PD/TRY/NH 38/T-M/TNEB/2023/695 dated 10.04.2023 and this office seek certain Clarification and finally PD, Trichy has submitted through his Lr.No-NHAI/PD/TRY/NH 38/T-M/TNEB/2024/1550 dated 06.08.2024 in accordance with Ministry's latest guidelines dated 22.11.2016.

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3) The alignment proposed by Superintending Engineer (GCC), Trichy for erection of 110 Kv 1X630 sq.m Aluminium XLPE UG Cable and accessories, laying of cable, erection of joints and termination, testing and commissioning from Loc.16 (near Army to the Mannarpuram 110 KV SS end under total turnkey basis in Trichy - Madurai section of NH 45B (New NH 38) is as detailed under:

S L No	Stretch in Km	Length in Meters	Available ROW (in Meter)		Distance of erection from C/L (in Meter)		Remarks
			LHS	RHS	LHS	RHS	
1	Along New NH-38 ,Old NH 45 Km 325/908 to Km 362/158(RHS)	250.00	30	30	—	28	The In Principle Approval Has already issued by this Office E File No E-213889, Padalur Section
2	Along New NH -38, Old NH-45 B Km 0/000 to 2/255 Excluding 5 JB's	2.255(U G Cable) +0.295(O H Line) =2.550- 5x12.80 (5 Nos JB) = 2486.00	30	30	—	28	Laying of UG Cable along the extreme edge of ROW at a distance of 2.0 m from ROW edge.
3	JB's 5 Nos 5x12.8x2.50 =160.00	5x12.8 =64.00 Mts	30	30	—	28	Laying of Joint Bays- 5 Nos along the Cable along extreme edge of ROW at a distance of 2.0 m from ROW edge.
4	3 Nos of HDD at Km326/112, 20Mts Km 0/426, 26Mts & Km 0/557, 31 Mts	26.00+31.00 =51.00Mts					The Approval has already issued for Trichy-Padalur Section E File No E-213889 @ Km 326/112, 20 Mts
5	Construction of CTT Tower Foundation @ Km 2/255 - 1 No	8.00x8.00x5.00	30	30	—	28	Laying of Foundation for CTT Tower Erection
6	Construction of HCR Tower Foundation @ Km 2/400 - 1 No	9.60x9.60x2.65	30	30	—	28	Laying of Foundation for HCR Tower Erection



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7	Total Length = Add SI No 1 ,2 and 3	2800.00					
8	Already Approval issued , SI No 1	250.00					
9	Now Approval for Length , Substract i.e SI No 7 - 8	2550.00					2255 (U G Cable) & 295m (O H Line) =2550.00 mt

4) Superintending Engineer (GCC), Trichy has furnished an Undertaking that the applicant will shift the underground UG cable line within 90 days, if required by NHA at any time for expansion of the NH at their own risk and cost. Further, mentioned that Superintending Engineer (GCC), Trichy will shift/relocate the utility, if required by NHA at any time for expansion of the NH at their own risk and cost.

5) Accordingly, as per Policy Guidelines issued by Ministry vide letter No. RW/NH-33044/29/2015/S&R(R) dated 22.11.2016, the application is being uploaded on public domain for 30 days for seeking claims and objections (on grounds of public inconvenience, safety and general public interest).

In view of the above, comments of the public on the above proposal is invited to the below mentioned address:

Regional Officer,
National Highways Authority of India,
No.2nd & 3rd Floor, Vijay Krishna Plaza,
No.1, Lake Area, Melur Main Road, Mattuthavani,
Madurai - 625 007.

भवदीय


एम चंद्रशेखर | M Chandrasekhar

उप महाप्रबंधक (तक) | Dy. General Manager (Tech)
क्षे.का. मदुरै | RO-Madurai

संलग्न: As above

प्रतिलिपि:

1. The NIC, New Delhi - for uploading in the Ministry's website.
2. The PD, Trichy- for information.

List of Correspondences

Receipt No. / Issue No.	Subject	Type	Marked As	Attached On	Issued On	Pages	Remarks
1033518/2024/PIU-TRICHY	NHAI – PIU, TRICHY - Trichy – Madurai section of NH 45B (New NH 38) – GCC/Trichy – Design, Detailed Engineering, Manufacture and supply of 16.2 kms of 110 Kv 1X630 sq.m Aluminium XLPE UG Cable and accessories, laying of cable, erection of joints and termination, testing and commissioning from Loc.16 (near Army to the Mannarpuram 110 KV SS end under total turnkey basis – Check list and route layout drawings for laying 110KV 1C x 630 sq.m XLPE Al. UG Cable from km. 0/000 to km.2/550 – In principle approval requested – Certain observations made by RO Madurai - Compliance of observations by the applicant report Sought for –Reg.	Receipt		07/08/2024 06:32 PM		86- 126	.
901555/2024/PIU-TRICHY	NHAI – PIU, TRICHY - Trichy – Madurai section of NH 45B (New NH 38) – GCC/Trichy – Design, Detailed Engineering, Manufacture and supply of 16.2 kms of 110 Kv 1X630 sq.m Aluminium XLPE UG Cable and accessories, laying of cable, erection of joints and termination, testing and commissioning from Loc.16 (near Army to the Mannarpuram 110 KV SS end under total turnkey basis – Check list and route layout drawings for laying 110KV 1C x 630 sq.m XLPE Al. UG Cable from km. 0/000 to km.2/550– Revised Proposal – In Principle approval requested – Reg.	Receipt		24/02/2024 06:14 PM		50-85	.
792264/2023/PIU-TRICHY	Trichy – Madurai section of NH 45B (New NH 38) – GCC/Trichy – Design, Detailed Engineering, Manufacture and supply of 16.2 kms of 110 Kv 1X630 sq.m Aluminium XLPE UG Cable and accessories, laying of cable, erection of joints and termination, testing and commissioning from Loc.16 (near Army to the Mannarpuram 110 KV SS end under total turnkey basis – Check list and route layout drawings for laying 110KV 1C x 630 sq.m XLPE Al. UG Cable from km. 0/000 to km.2/243 (2243m) on RHS - Recommended in principle approval requested – Reg.	Receipt		07/10/2023 05:02 PM		1-49	-



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)
National Highways Authority of India
(Ministry of Road Transport & Highways, Government of India)

परियोजना कार्यान्वयन इकाई - तिरुचि / Project Implementation Unit - Trichy
नं.6, (पुराना नं.44), पहली मंजिल, III - मेन रोड, पानेनगर, तिरुचिरापल्ली - 620 001
No. 6, (Old No. 44), 1st Floor, III-Main Road, Ponnagar, Tiruchirapalli - 620 001
दूर / Tele : +91-431 2482959 वेब / Web : www.nhai.org ई-मेल / E-mail : tri@nhai.org, trichynhai@gmail.com



NHAI/PD/TRY/NH 38/T-M/TNEB/2023/1953

September 26, 2023

To

Regional Officer,
National Highways Authority of India,
Plot No.2nd & 3rd Floor,
Vijay Krishna Plaza, No. 1, Lake Area,
Melur Main Road, Mattuthavani, Madurai - 625 007.

Sub: NHAI - PIU, TRICHY - Trichy - Madurai section of NH 45B (New NH 38) - GCC/Trichy - Design, Detailed Engineering, Manufacture and supply of 16.2 kms of 110 Kv 1X630 sq.m Aluminium XLPE UG Cable and accessories, laying of cable, erection of joints and termination, testing and commissioning from Loc.16 (near Army to the Mannarpuram 110 KV SS end under total turnkey basis - Check list and route layout drawings for laying 110KV 1C x 630 sq.m XLPE Al. UG Cable from km. 0/000 to km.2/243 (2243m) on RHS - Recommended in principle approval requested - Reg.

- Ref:**
1. Superintending Engineer (GCC), Trichy letter no. 004425/SE/GCC/TRY/AEE/GL/DB/AE/C/F.Mannarpuram UG Cable dt.12.05.2023 (Received on 16.05.2023)
 2. Team Leader, M/s. Upham, letter no. UPHAM&SAC/TM/NH-38/2023/975 dt.13.06.2023
 3. This office letter No: NHAI/PD/TRY/NH 38/T-M/TNEB/2023/1337 dt.04.07.2023
 4. Superintending Engineer (GCC), Trichy letter no. 003773/SE/GCC/TRY/AEE/GL/DB/AE/C/F.Mannarpuram UG Cable dt.20.07.2023
 5. Team Leader, M/s. Upham, Trichy letter no. UPHAM&SAC/TM/NH-38/2023/1054 dt.01.08.2023
 6. RO Madurai observations vide e-file no. 213889 note # 3 dt.04.08.2023
 7. PIU Trichy letter no. 1703 dt. 19.08.2023
 8. Superintending Engineer (GCC), Trichy letter no. 8577/SE/GCC/TRY/AEE/GL/DB/AE/C/F.Mannarpuram UG Cable dt.29.08.2023

Sir,

The Superintending Engineer (FAC), Trichy vide letter dt.29.08.2023 seeking permission to lay underground cable along the road from km. 0/000 to km.2/243 (2243m) on RHS in Trichy - Madurai section of NH 38.

2. Team Leader, M/s. Upham, Trichy has inspected the site along with Executive Engineer (TLC) TANTRANSOCO, Trichy has submitted report vide

M. Jay

\\Pd\\d\\PIU Tri Doc\\2023 Documents\\Utility shifting\\TNEB\\T-M\\SE, Trichy\\TNEB from km.0.000 to km.2.243.docx



letter dt.01.08.2023 and recommended the proposal with the following conditions vide reference 2nd cited.

i. The total length of UG electrical cable is 2661m from the Mannarpuram 110 kv substation to proposed DP structure location. In that, 250m comes under TTPL section, 168m comes in the Mannarpuram substation premises and balance 2242m is involving in the Trichy - Madurai section of NH38.

ii. The length of UG cable along the Trichy - Madurai section is 2137m by trench method and across the section is 106m at Mannarpuram roundabout.

iii. The laying electrical line cable crossing at Mannarpuram round about is proposed with the encasing provision of 200mm dia of HDPE pipe.

iv. The road merging to the service road encasing with 160mm dia with 400m thick concrete before filling of earth with proper consolidation should be followed as per the submitted drawing.

3. In view of the recommendation of Team Leader, the following observations are made by PIU - Trichy.

- i. The 110 KV electrical line underground cable shall be laid at the edge of the Right of Way without disturbance to the existing service lines, cables, etc.,
- ii. There should not be any hindrance to the traffic movement during laying of UG cable.
- iii. In case of improper restoration after laying, BG shall be forfeited.
- iv. The works shall be carried out strictly as per the drawing submitted by applicant
- v. Performance BG towards restoration charges for Rs. 2,24,300/- as per Ministry circular shall be furnished by the applicant and the confirmation of BG shall also be obtained from the respective branch as per NHAI guidelines before entering into the agreement.
- vi. The applicant shall pay Rs. 693646/- towards license fee for 5 years.
- vii. No structures shall be constructed within the ROW.

4. a) The Restoration charges and License Fee for laying OFC line along and crossing of NH 45, is detailed below is arrived that, as per Ministry letter no. RW/NH-33044/27/2005/S&R @ dt.6/7.08.2013, MORT&H circular no.H-39011/ 16/2012-P&P dt.02.04.2014 Ministry letter no.RW/NH-33044/29/2015/S&R @ dt.22.11.2016 and CGM (T) & RO Chennai Lr. No. NHAI/11019/16/2011/RO Chennai/1187 dt.20.03.2017. Based on the CGM (T) & RO Chennai instruction dt.11.11.2017 and based on the highest prevailing guideline rate of the village as under:



License fees for Public utility (Erection of tower line) (Rs. / Sq.m / Month)									
Utilized NH Land Area X Prevailing Circle Rate of Land Per Unit Area X 1.5% per annum.									
S.no	Village	Chainage		Side	Length	Width of Single circuit HT line (in meter)	Utilized NH land area (sq.m)	Prevailing circle rate of land per unit area (Sq.m) (Rs.)	License fee per month (private utility (Rs.))
		From	to						
1	K. Abisheka puram	0.000	0.750	RHS	750	0.12	90	16150	21802.5
2	Ward L	0.750	2.243	LHS	1493	0.12	179.16	37675	101247.795
	Total				2243				123050.295

License fee per year	1 st year	123050.295
	2nd yr	130433.3127
	3rd yr	138259.3115
	4th yr	146554.8701
	5th yr	155348.1624
Total License fee for 5 years		693645.9517
	Round Off	693646

b) The amount of performance BG has been calculated in line with the MoRT&H policy guidelines dt.22.11.2016 as detailed below:

Total area of land to be utilized	-	2243 Rm
Rate of performance BG	-	Rs.100/- per sq.m
Amount (2243*100)	-	Rs.2,24,300/-

In this context it is submitted that, the RO Madurai already observed that the applicant proposed crossing near the roundabout portion which may be changed to some other crossing locations to reduce the length of crossing and damages to NHAI. Therefore the applicant was requested to explore the alternative method of highway.

The applicant has proposed to lay with 110 Kv HT electrical cable across the roundabout portion in a skew HDD method and not willing to reduce the length of crossing to avoid the roundabout portion. The applicant has proposed cross the major road junction across the roundabout near Mannarpuram only. With a view to avoid long distance crossing in the round about portion. The applicant may cross the Illupur road at km.0/400 and then cross the Trichy junction road, then along the



road they can lay the 110 Kv HT electrical cable and proceed further as per drawing. But the applicant is not agreeable.

In this context it is brought out that, the Agreement has signed by the Superintending Engineer on the last page and the other pages signed by the Assistant Engineer, Executive Engineer. The indemnity bond also signed by Assistant Engineer, Executive Engineer, and the last page signed by the Superintending Engineer and the strip plan also signed only Assistant Engineer, Executive Engineer.

In view of the above, the proposal submitted by Superintending Engineer (FAC), Trichy vide letter dt.29.08.2023 seeking permission to lay 110Kv underground cable along the road from km. 0/000 to km.2/243 (2243m) in Trichy - Madurai section of NH 38, appropriate decision may kindly be taken and communicated for taking further action.

Yours faithfully,

Encl: Proposals - 3 sets (2 Original +1 copy)

(M. Ganesh Kumar)

DGM (T) & Project Director

Copy to:

1. The Superintending Engineer (FAC), Trichy for information.
2. The Team Leader, M/s. Upham, Trichy for information.

Trichy

NHAI - PIU - TRICHY	
25 SEP 2023	
Dy No:	3404
M(T)	
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SE-3	
Accounts	
YHE	
CO	

TAMIL NADU TRANSMISSION CORPORATION LTD

FROM
Er.R.Kalpana,B.E.,(Hons)
Superintending Engineer,
General Construction Circle,
110 Kv Grid SS Campus,
Trichy - 620 001.

TO
The Project Director,
National Highways Authority of India,
No.44, 3rd Main road,
Jaya Nagar Extension,
Ponnagar, Thiruchirappalli,
Tamilnadu - 620 001.

Lr.No.8577/SE/GCC/TRY/AEE/GL/DB/AE/C/F.Mannarpuram UG Cable/dt. 29.08.23.

Sir,

Sub : **GCC/TRICHY** – Design, Detailed Engineering, Manufacture and Supply of 16.2 Kms of 110 KV, 1X630 Sq.mm Aluminium XLPE UG Cable and accessories, Laying of Cable, Erection of joints and termination, testing and commissioning from Loc.16 (near army to the Mannarpuram 110 KV SS end under total turnkey basis- Revised Check list and Route layout for laying 110 KV 1C X 630 Sq mm XLPE Al. UG Cable – certain observation made by RO Madurai- Remarks attended – Reg.

- Ref:1. Lr.No.1373/SE/GCC/TRY/AEE/GL/DB/AE/C/F.Mannarpuram UG Cable, Dt.24.02.23
2. NHAI/PD/TRY/NH 38/T-M/TNEB/2023/1337/dt.04.07.23
3. Lr.No.4425/SE/GCC/TRY/AEE/GL/DB/AE/C/F.Mannarpuram UG Cable, Dt.12.05.23
4. NHAI/PD/TRY/NH 38/P-T/TNEB/2023/1629/dt.09.08.23
5. Lr.EE/TLC/TRY/HD/F.Mannarpuram UG Cable/ D.No.470/23 dt.19.08.2023.

The Proposal for laying of 110 KV 1C X 630 Sq mm XLPE Al. UG Cable for making LILO from Loc.16 of Thiruverambur –K.Sathanur feeder to Mannarpuram 110 KV SS along the NH – 38 by open cut trench and trenchless (HDD) method returned Vide (ref.4) for attending certain observations are submitted for your kind perusal please.

1. Signed license copy enclosed.
2. As per MORT & H guidelines the revised check list enclosed.
3. Duly signed indemnity bond enclosed.
4. As per the NHAIs recommendation of 28.00M from C/L (or) 2.00 M edge of NHAI boundary line adopted. The revised drawings are enclosed.
5. Revised strip plan enclosed.
6. While exploring for the alternative method^{at} field, it is found that there is no feasibility to change the crossing.

Hence, it is requested that the above crossing arrangements may please be approved and communicated early please so as to put the SS into beneficial utilization of the public.

Yours faithfully,

Encl :1.Drawing - 1 Nos
2.Check List -1 Set.
3.Undertaking-1Set

Copy to the Executive Engineer / TLC / Trichy.

Copy to the Assistant Executive Engineer / TLC-I / Trichy

**SUPERINTENDING ENGINEER,
GCC / TRICHY.**

(Through E-mail).

D:\TA\Share Documents\AEE\UG Cable\Mannarpuram UG Cable. - certain observation - RO Madurai- Copy.doc

**PROPOSAL FOR LAYING OF 110KV, 1CX630SQ.MM XLPE
AL.UG CABLE FOR MAKING LILO FROM LOC.16 (NEAR
ARMY CAMP) OF THIRUVERAMBUR – K.SATHANUR
FEEDER TO MANNARPURAM 110KV SS**

NHAI PROPOSAL

**KM 0/0 to KM 2/243 (RHS) ALONG THE NH-38 BY
OPEN CUT TRENCH AND TRENCHLESS (HDD) METHOD**

**SUPERINTENDING ENGINEER,
GENERAL CONSTRUCTION CIRCLE,
TANTRANSCO,
PERIYAMILAGUPARAI,
TRICHY – 620001**



தமிழ்நாடு தமில்நாடு TAMIL NADU

26 AUG 2023

21AC 461110

P. Gopinath

P. கோபிநாத்

முத்திரைதாள் விற்பனையாளர்
உரிமம் எண்: 08/KRR/2015
பேட்டவாய்த்தலை, திருச்சி-Dt.

UNDERTAKING

SUBJECT: Permission for laying of 110 KV UG cable at NH-38 KM 0/0 to KM 2/243 Along RHS by open cut trench and trenchless (HDD) method.

We M/s TANTRANSCO, GCC, Periyamilaguparai, Trichy – 620001.

Here by agreed that

1. We undertake that we will pay the fee/rent as mentioned in the Ministry's circular No.RW/NH-33044.29/2015-S&R (R) dated 22.11.2016 as and when asked by the NHA.
2. We will pay a track rent as per the NHA circular and conditions will be paid in advance before executing the License Agreement.

[Signature]
SUPERINTENDING ENGINEER
GENERAL CONSTRUCTION CIRCLE
TANTRANSCO
TIRUCHIRAPPALLI-620 001.

[Signature]
EXECUTIVE ENGINEER
Transmission Line Construction
TANTRANSCO
TIRUCHY - 620 020.

[Signature]
ASSISTANT EXECUTIVE ENGINEER
TLC-I/Trichy-20

3. We will pay a Security Deposit for an amount of Rs.100/RM for laying along the road in the form of BG validity up to 1 years from the date of license Agreement in case of widening of the road (or) any other purpose.
4. We will shift at our own cost if requested by the Department in case of widening of the road (or) any other purpose.
5. We do undertake that we will relocate utilities at our own cost notwithstanding the permission granted within such time as will be stipulated by NHAI for future six – lane or any other department.
6. We do here by under taken that necessary alternation including complete removal/shifting of the EB CABLE shall be carried out at own cost if so required by the ministry for the development of National Highway or in the interest of safety in this section.
7. We do hereby agree that wherever ROW is not available (restricted to the toe the embankment cable laying will be done in private land).
8. We also hereby undertake that we shall not lay any other EB CABLE companies cable along with ours during the execution of our work.
9. We also undertake that the Traffic Movement will be managed by us during the laying of the EB cable.
10. We also undertake that we shall pay any claims raised by the contractor concessionaire with respect the damages due to work.
11. Further we undertake that
 - a. Not to damage to other utility, if damaged then to pay losses either to NHAI or to the concerned agency.
 - b. Renewal of bank Guarantee then and there as required.
 - c. Conforming all standard condition of NHAI guidelines.
 - d. Shifting of EB CABLE as and when required by NHAI.
 - e. Shifting due to 6 laying/widening of NH.
 - f. Indemnity against all damages and claims clause (XV).


SUPERINTENDING ENGINEER
GENERAL CONSTRUCTION CIRCLE
TANTRANSCO
TIRUCHIRAPPALLI-620 001.


EXECUTIVE ENGINEER
Transmission Line Construction
TANTRANSCO
TIRUCHY - 620 020.


ASSISTANT EXECUTIVE ENGINEER
TLC-I/Trichy-20



தமிழ்நாடு தமில்நாடு TAMILNADU

DE 257156

26 AUG 2023

Enclosure to Ministry of Road Transport & Highways letter No.33044/29/2015/S&R (R) dated 22.11.2016

P. NADARAJAN, B.Sc.,
Stamp Vender
15/8/84/93
District Court
Trichy, T. Nadu.

**AGREEMENT REGARDING GRANTING OF
RIGHT OF WAY PERMISSIONS
FOR LAYING UTILITY SERVICES ON NATIONAL HIGHWAYS**

Agreement to lay cable / OFC cable / Electrical cable / pipe line/ ducts etc., along the Vellore to Tutucorin road from NH-38 Km 0/0 to Km 2/243 for a length of 2243mtr on RHS by open trench and trenchless (HDD) method.

This Agreement made this _____ day of _____ (month) _____ (Year) between _____ acting in his executive capacity through (hereinafter referred to as the "Authority" which expression shall unless excluded by or repugnant to the context, include his successors in office and assigns) on the one part, and M/s.TANTRANSCO, a company registered under the Companies Act, 1956 and having its Registered Office at TANTRANSCO, Superintending Engineer, GCC, Periyamilaguparai, Trichy-620001(hereinafter called the "Licensee") which expression shall unless excluded by repugnant to the context, include his successors/administrator assignees on the second part.

EXECUTIVE ENGINEER
Transmission Line Construction
TANTRANSCO
TIRUCHY - 620 020.

ASSISTANT EXECUTIVE ENGINEER
TLC-I/Trichy-20

Whereas the Authority is responsible, inter alia for development and maintenance of lands in Km 0/0 to 2/243 of NH-38ROW.

Whereas the Licensee proposes to lay Telecom cable / OFC cable / electrical cable / pipe line / ducts etc. referred to as utility services in subsequent paras.

Whereas the Licensee has applied to the Authority for permission to lay utility services along the Vellore- Tutucorin road from NH-38 Km 0/0 to Km 2/243 for a length of 2243m on RHS by open trench and trenchless (HDD) method road/route.

And whereas the Authority has agreed to grant such permission for way leave on the NH ROW as per terms and conditions here in after mentioned.

Now this agreement witnesses that in consideration of the conditions hereinafter contained and on the part of the Licensee to be observed and performed, the Authority hereby grants to the Licensee permission to lay utility services as per the approved drawing attached hereto subject to the following conditions, namely.

1. ROW permissions are only enabling in nature. The purpose of extending the way leave facility on the National Highway ROW is not for enhancing the scope of activity of a utility service provider, either by content or by intent. Further, enforceability of the permission so granted shall be restricted only to the extent of provisions/scope of activities defined in the license agreement & for the purpose for which it is granted.
2. No Licensee shall claim exclusive right on the ROW and any subsequent user will be permitted to use the ROW, either above or below, or by the side of the utilities laid by the first user, subject to technical requirements being fulfilled. Decision of the Authority in relation to fulfillment of technical requirements shall be final and binding on all concerned parties. In case any disruption/damage is caused to any existing user by the subsequent user, the Authority shall not be held accountable or liable in any manner.
3. The Licensee shall be responsible for undertaking all activities including, but not limited to site identification, survey, design, engineering, arranging finance, project management, obtaining regulatory approvals & necessary clearances, supply of equipment, material, construction, erection, testing and commissioning, maintenance and operation and all other activities essential or required for efficient functioning of their own utility/ industrial infrastructure facilities.


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4. The Licensee shall pay license fees @ Rs/sq m/month to the Authority. The License fee shall become payable from the date of handing over of ROW land to the. Licensee, for. Laying of utilities/cables/conduits/pipelines for infrastructure/ service provider. As regards Tariff and Terms and conditions for providing common utility ducts along National Highways, there shall be a separate agreement regime.
5. Fee shall have to be paid in advance for the period for which permission is granted for entering into a license agreement. In case of renewal, rate prevailing at the time of renewal shall be charged. Delay in deposition of fee shall attract interest @ 15% per annum compounded annually.
6. Present policy of the MoRT&H is to provide a 2.00 m wide utility corridor on either side of the extreme edge of ROW. In cases where utility ducts with sufficient space are already available along NH, the utility services shall be laid in such ducts subject to technical requirements being fulfilled.
7. The utility services shall be laid at the edge of the ROW. In case of restricted width of ROW, which may be adequate only to accommodate the carriageway; central verge, shoulders, slopes of embankment, drains, other road side furniture etc; the utility services shall be laid beyond the toe line of the embankments and clear of the drain.
8. The Licensee shall make his own arrangement for crossing of cross drainage structure, rivers, etc. below the bed. In case, this is not feasible, the utility services may be carried outside the railings/parapets and the bridge superstructure. The fixing and supporting arrangement with all details shall be required to be approved in advance from the concerned Highway Administration. Additional cost on account of fixing and supporting arrangement as assessed by the Authority shall be payable by the Licensee.
9. In exceptional cases, where ROW is restricted the utility services can be allowed beneath the carriageway of service road, if available, subject to the condition that the utility services be laid in concrete ducts, which will be designed to carry traffic on top. The width of the duct shall not be less than one lane. In such cases, it also needs to ensure that maintenance of the utility services shall not interfere with the safe and smooth flow of traffic. The cost of operation and maintenance will have to be borne by the Licensee.


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10. It is to be ensured that at no time there is interference with the drainage of the road land and maintenance of the National Highways. Towards this, the top of the utility services shall be at least 0.6 meter below the ground level. However, any structure above ground shall be aesthetically provided for / landscaped with required safety measures as directed by the concerned Authority;
11. The utility services shall be permitted to cross the National Highway either through structure or conduits specially built for that purpose. The casing / conduit pipe should, as minimum, extend from drain to drain in cuts and toe of slope to toe of slope in the fills and shall be designed in accordance with the provision of IRC and executed following the Specifications of the Ministry.
12. Existing drainage structures shall not be allowed to carry the lines across.
13. The top of the casing/conduit pipe containing the utility services to cross the road shall be at least 1.2m below the top of the sub grade or the existing ground level whichever is lower, subject to being at least 0.3m below the drain inverts. A typical sketch showing the clearances is given in Attachment-I.
14. The utility services shall cross the National Highway preferable on a line normal to it or as nearly so as practicable.
15. The casing/conduit pipe for crossing the road may be installed under the road embankment either by boring or digging a trench. Installation by boring method shall be preferred,
16. In case of trenching, the sides of the trench should be done as nearly vertical as possible. The trench width should be at least 30 cm. but not more than 60 cms wider than the outer diameter of the pipe. Filling of the trench shall conform to the specifications contained herein-below or as supplied by the Highway Authority.
 - a. Bedding shall be to a depth not less than 30 cm. It shall consist of granular material, free of lumps, clods and cobbles, and graded to yield a firm surface without sudden change in the bearing value. Unsuitable soil and rock edges should be excavated and replaced by selected material.
 - b. The backfill shall be completed in two stages
 - (i) Side-fill to the level of the top of the pipe
 - (ii) Overfill to the bottom of the road crust.


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- c. The side fill shall consist of granular material laid in 15 cm. Layers each consolidated by mechanical tamping and controlled addition of moisture to 95% of the Proctor's Density. Overfill shall be compacted to the same density as the material that had been removed. Consolidation by saturation or ponding will not be permitted.
- d. The road crust shall be built to the same strength as the existing crust on either side of the trench or to thickness and specifications stipulated by the Highway Authority.
17. The. Licensee shall ensure making good the excavated trench for laying utility services by proper filling and compaction, so as to restore the land in to the same condition as it was before digging the trench, clearing debris/loose earth produced due to execution of trenching at least 50m away from the edge of the right of way; all required restoration work subsequent to laying of the cable shall be required to be undertaken by the Licensee at its cost either by itself or through its authorized representative in consultation with the Authority as per predetermined time schedule and quality standards.
18. Prior to commencement of any work on the ground, a performance Bank Guarantee @ Rs. per route meter / Rs per sq m with a validity of one year initially (extendable if required till satisfactory completion of work) shall have to be furnished by the Licensee to the Authority/its designated agency as -a security against improper restoration of ground in terms of filling/unsatisfactory compaction damages caused to other underground installations/utility services & interference, interruption, disruption or failure caused thereof to any services etc. In case of the Licensee failing to discharge the obligation of making good of the excavated trench/other restoration work, the Authority shall have a right to make good the damages caused by excavation, at the cost of the Licensee and recover the amount by forfeiture of the Bank Guarantee.
19. In ease, the Performance Bank Guarantee is invoked as mentioned above, the Licensee shall be required to replenish and reinstate the required Performance Bank. Guarantee within one month of such invoking. In ease the work contemplated herein is not completed to the satisfaction of the Authority, which has granted the permission, within a period of 11 months from the date of -issue of the Bank Guarantee, the Licensee shall either furnish a fresh guarantee or extend the guarantee for a further period of one year. Notwithstanding this, the Licensee shall be liable to pay full compensation to the aggrieved Authority/ its designated agency for any damage sustained by them by reason of the exercise of the ROW facility;


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20. The Licensee shall shift the utility services within 90 days (or as specified by the respective Authority) from the date of issue of the notice by the concerned Authority to shift/relocate the utility services, in case it is so required for the purpose of improvement/widening of the road/route/highway or construction of flyover/bridge and restore the road/land to its original condition at his own cost and risk.
21. The Licensee shall be responsible to ascertain from the respective agency in co-ordination with Authority, regarding the location of other utilities /underground installations/ facilities etc. The Licensee shall ensure the safety and security of already existing underground installations / utilities / facilities etc. before commencement of the excavation/using the existing cable ducts. The Licensee shall procure insurance from a reputed insurance company against damages to already existing underground installations/utilities/facilities etc.
22. The Licensee shall be solely responsible / liable for full compensation/indemnification of concerned agency / aggrieved Authority for any direct, indirect or consequential damage caused to them/claims or replacements sought for, at the cost and risk of the Licensee. The concerned agency in co-ordination with Authority shall also have a right make good such damages/ recover the claims by forfeiture of Bank Guarantee.
23. If the Licensee fails to comply with any condition to the satisfaction of the Authority, the same shall be executed by the Authority at the cost and risk of the Licensee.
24. Grant of License is subject to the Licensee satisfying (a) minimum disruption of traffic and (b) no damage to the highways. As far as possible, the Licensee should avoid cutting of the road for crossing highway, and other roads and try to carry out the work by trenchless technology. In case any damage is caused to the road pavement in this process, the Licensee will be required to restore the road to the original condition at its cost. If due to unavoidable reasons the road needs to be cut for crossing or laying utility services, the Licensee has to execute the restoration work in a time bound manner at its cost either by itself or through its authorized representative in consultation with the Authority as per predetermined time schedule and quality standards. In case of the Licensee failing to discharge the obligation of making good of the excavated trench/other restoration work, the Authority shall have a right to make good the damages caused by excavation, at the cost of the Licensee and recover the amount by forfeiture of the Bank. Guarantee.


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25. The Licensee shall inform /give a notice to the concerned agency designated by the Authority at least 15 day in advance with route details prior to digging trenches, for fresh or maintenance/repair works. A separate performance Bank Guarantee for maintenance/repair works shall have to be furnished by the Licensee.
26. Each day, the extent of digging the trenches should be strictly regulated so that utility services are laid and trenches filled up before the close of the work that day. Filling should be completed to the satisfaction of the concerned agency designated by the Authority.
27. The licensee shall indemnify the concerned agency in co-ordination with. Authority, against all damages and claims, if any due to the digging of trenches for laying cables/ducts.
28. The permission for laying utility services is granted maximum for 5 years at a time, which can thereafter be considered for renewal. On payment of additional fee at the time of renewal, the permission shall automatically be renewed, unless defaults exist. in case of renewal, rate prevailing at the time of renewal shall be charged. Delay in deposition of fee shall attract interest @ 15% per annum compounded annually.
29. The permission shall be valid only for the period it is issued and fee deposited. However, the Authority also has a right to terminate the permission or to extend the period of Agreement.
30. That the Licensee shall not undertake any work of shifting, repairs or alterations to the utility services without prior written permission of the concerned agency in coordination with the Authority.
31. The permission granted shall not in any way be deemed to convey to the Licensee any ownership right or any interest in route/road/highway land /property, other than what is herein expressly granted. No use of NH ROW will be permitted for any purpose other than that specified in the Agreement.
32. During the subsistence of this Agreement, the utility services located in highway land / property shall be deemed to have been constructed and continued only by the consent and permission of the Authority so that the right of the Licensee to the use thereof shall not become absolute and indefeasible by lapse of time.


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33. The Licensee shall bear the Stamp Duty charged on this Agreement.
34. Three copies. Of 'as laid drawings' of utilities (hard and soft copies) with geo-tagged photographs and geo-tagged video recordings of laying of cables in the trench (with respect to the NH) and after complete restoration shall be submitted to the Authority for verification and record within a month of completion of Works.
35. The Licensee shall allow free access to the Site at all times to the authorized representatives of Authority to inspect the Project Facilities and to investigate any matter within their Authority, and upon reasonable notice, shall provide reasonable assistance necessary to carry out their respective duties and functions.
36. The utility services shall not be made operational by the Licensee unless a completion certificate to the effect that the utility services has been laid in accordance with the approved specifications and drawings and the trenches have been filled up to the satisfaction of the concerned agency in co-ordination with the Authority has been obtained. Notwithstanding anything contained herein, this Agreement may be cancelled at any time by Authority for breach of any condition of the same and the Licensee shall neither be entitled to any compensation for any loss caused to it by such cancellation nor shall it be absolved from any liability already incurred.
37. The Licensee shall ensure adherence to relevant Indian standards and follow best industry practices, methods and standards for the purpose of ensuring the safe, efficient and economic design, construction, commissioning, operation, repair and maintenance of any part of the utility lines/industrial infrastructure facilities and which practices, methods and standards shall be adjusted as necessary, to take account of:
- operation, repair and maintenance guidelines given by the manufacturers,
 - the requirements of Law,
 - the physical conditions at the Site, and
 - The safety of operating personnel and human beings.
38. The Licensee shall have to provide safety measures like barricading, danger lighting and other necessary caution boards while executing the work.


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39. While laying utility services, at least one lane of road shall be kept open to traffic at all times. In case of single lane roads, a diversion shall be constructed. If any traffic diversion works are found necessary during the working period such diversion shall be provided at the cost of Licensee.
40. After the termination/expiry of the agreement, the Licensee shall remove the utility services within 90 days and the site shall be brought back to the original condition failing which the Licensee will lose the right to remove the utility services. However before taking up the work of removal of utility services the Licensee shall furnish a Bank Guarantee to the Authority for a period of one year for an amount assessed by the Authority as a security for making good the excavated trench by proper filling and compaction, clearing debris, loose earth produced due to excavation of trenching at least 50m away from the edge of the ROW.
41. Any disputes in interpretation of the terms and conditions of this Agreement or their implementation shall be referred to the redress mechanism prevailing in the Ministry and the decision of the redress mechanism shall be final and binding on all.
42. For PPP Projects, in case of any financial loss incurred by the respective project concessionaires due to such laying/shifting of utility services by the Licensee, compensation for the same shall be required to be borne by the Licensee in mutual agreement with the respective project concessionaires. MoRT&H/ NHAI/implementing authorities for the project shall not be liable to the concessionaire in any way in this regard.
43. The Licensee should pay the rent / fee as and when demanded by NHAI.
44. This agreement has been made in duplicate, each on a Stamp Paper, Each party to this Agreement has retained one stamped copy each.


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IN WITNESS WHEREOF THE PARTIES HERE TO HAVE CAUSED THIS AGREEMENT TO BE EXECUTED THROUGH THEIR RESPECTIVE AUTHORISED REPRESENTATIVES THE DAY AND THE YEAR FIRST ABOVE WRITTEN.

SIGNED SEALED AND DELIVERED FOR AND ON BEHALF OF AUTHORITY.

BY SHRI _____

(Signature, name & address with stamp)

SIGNED ON BEHALF OF M/s. TANTRANSCO, Superintending Engineer,

GCC , Periyamilaguprai, Trichy-620001 (LICENSEE)

BY SHRI _____

(Signature, name & address with stamp)

SUPERINTENDING ENGINEER
GENERAL CONSTRUCTION CIRCLE
TANTRANSCO
TIRUCHIRAPPALLI-620 001.

HOLDEE OF GENERAL POWER OF ATTORNEY DATED _____

EXECUTED IN ACCORDANCE WITH THE RESOLUTION NO. _____

DATED _____ PASSED BY THE BOARD OF DIRECTORS IN THE

MEETING HEAD ON

IN THE PRESENCE OF (WITNESSES):

1.

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2.

ASSISTANT EXECUTIVE ENGINEER
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தமிழ்நாடு தமிழ்நாடு TAMIL NADU

26 AUG 2023

21AC 461109

P. கோபிநாத்
P. கோபிநாத்

முத்திரைதாள் விற்பனையாளர்
உரிமம் எண்: 08/KRR/2015
பேட்டவாய்த்தலை, திருச்சி-Dt.

INDEMNITY BOND

Name of the work: Design, Detailed Engineering, Manufacture and Supply of 16.2 Kms of 110 KV, 1x630 sq.mm Aluminium XLPE UG cable and accessories, Laying of cable, Erection of joints and terminations, testing and commissioning from Loc.16 (near army training camp) of LILO of Thiruverambur - K.Sathanur feeder to the Mannarpuram 110 KV SS end under total turnkey basis.

Indemnity against all damages and claims as per SL no 1 to 15 of checklist

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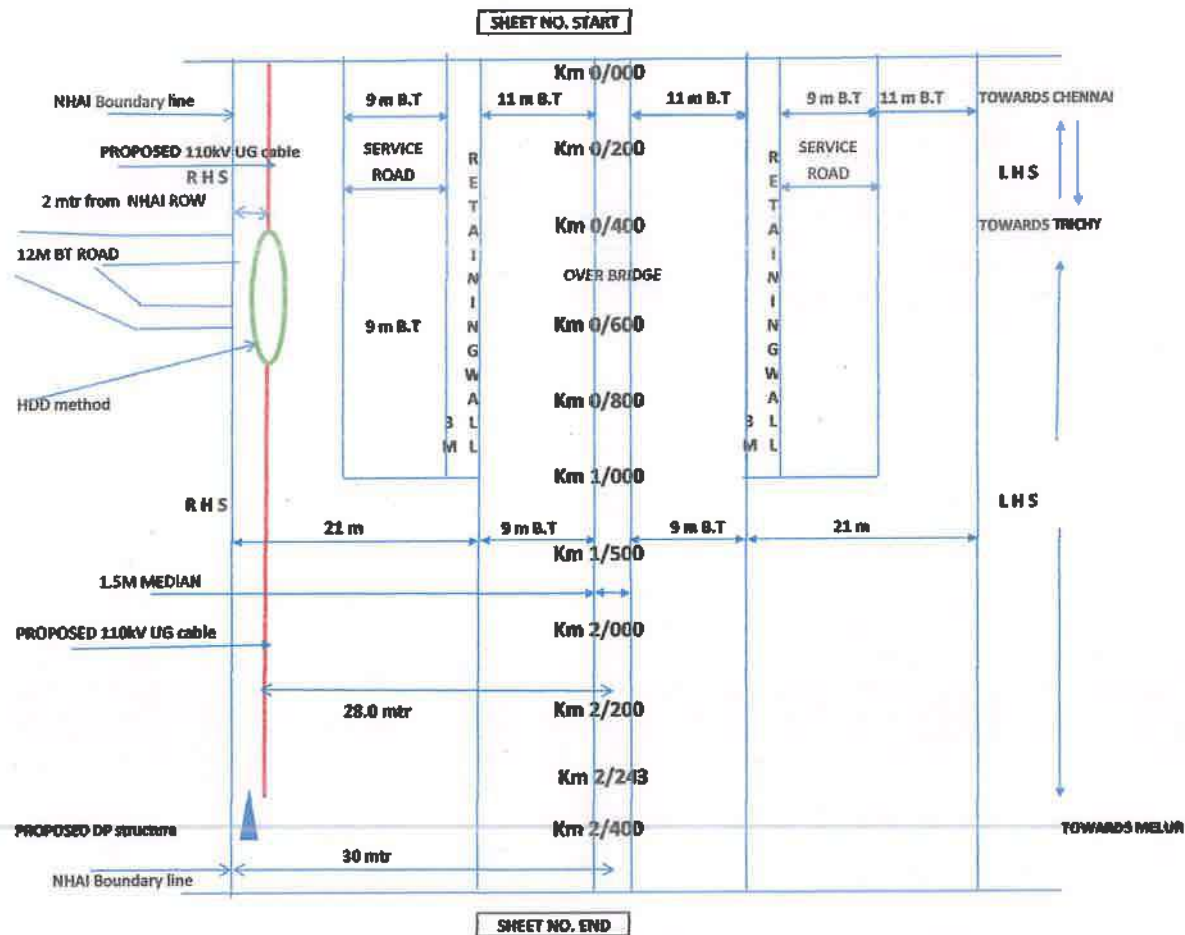
We M/s The Superintending Engineer, Tamilnadu Transmission Corporation, General Construction Circle, Periyamilaguparai, Trichy - 620 001. Tamilnadu state Transmission Corporation is making 110kV UG cable (1CX630sqmm) Laying along with NH-38, Vellore - Tutucorin Highway (Section KM 0/0 to KM 2/243 length - 2243mtr). Tamilnadu Transmission Corporation (TANTRANSCO) Maintenance thereof and against all claims, proceeding, damages, costs charges and expenses whatsoever in respect thereof in relation there to failing such payments of claims in the above works we abide in accepting for recovery of such claims affected from any of our assets.


SUPERINTENDING ENGINEER
GENERAL CONSTRUCTION CIRCLE
TANTRANSCO
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LAYING OF 110 KV UG CABLE (TANTRANSCO) LINE AT NH 38 FROM 0/000 KM TO 2/243 KM ALONG RHS BY OPEN CUT TRENCH AND TRENCHLESS (HDD) METHOD



TOTAL LENGTH = 2243M OPEN TRENCH AND TRENCHLESS (HDD) METHOD

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CHECK LIST FOR GETTING APPROVAL FOR LAYING OF 110 KV EHV CABLE ON NH LAND			
Permission for Laying of 110kV EHV Cable along the NH-38 Road KM 0/0 to KM 2/243 Along RHS by Open Cut Trench and Trenchless (HDD) Method & Installation of DP structure Near Army camp			
S.No	Item	Information/Status	Remark
1.0	General Information		
1.1	Name and Address of the Applicant	TANTRANSCO, Superintending Engineer, GCC, Periyamilaguparai, Trichy-620001.	
1.2	National Highway Number	NH-38	
1.3	State	Tamil Nadu	
1.4	Location	NH-38,Vellore -Tutucorin Road	
1.5	Chainage in Km	KM 0/0 to KM 2/243	
1.6	Length in Meter	2243	
1.7	Width of available ROW		
	(a)Left side from centre line towards increasing chainage/km direction	30 mtr	
	(b)Right side from centre line towards increasing chainage/km direction	30 mtr	from th C/L we lay 28mtr or 2mtr Edge of NHAI boundary line
1.8	Proposal to lay the cable		
	(a)Left side from centre line towards increasing chainage/km direction	No	
	(b)Right side from centre line towards increasing chainage/km direction	Yes	
1.9	Proposal to acquire land		
	(a)left side from centre line	LA Completed	
	(b)Right side from centre line	LA Completed	
1.10	Whether proposal is in the same side where land is not to be acquired	Yes	
	if not then where to lay the cable	Along the road	
1.11	Details of already laid service, if any, along the proposed route	TNEB / OFC	
1.12	Number of Lane (2/4/6/8 lanes)existing	4Lane with service road	
1.13	Proposed number of lanes (2 lane with paaved)	-	
1.14	Service road existing or not	Yes	
	if yes then which side		
	(a)Left side from centre line	-	
	(b)Right side from centre line	RHS	
1.15	Proposed service road		
	(a)Left side from centre line	-	
	(b)Right side from centre line	-	
1.16	Whether proposal to lay cable is after the sevice road or between the service road and main carriageway	110 KV EB UG cable Laying & Installation of DP structure (near Location no-16 army camp)	from th C/L we lay 28mtr or 2mtr Edge of NHAI boundary line
1.17	The permission of laying 110kV EHV UG cable & 110kV DP structure (near Location no-16 army camp) shall be considered for approval / rejection	May be Approved	
	(i)Where the ROW is more than 45m then duct cable shall be laid at the edge of right of way within the utility corridor of 2m width, duly keeping in view the future widening	NA	

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	(ii)where land is yet to be acquired for 4 laning and the position of new carriageway has been decided then the cable shall be laid at the edge of right of way within the utility corridor of 2m width, on that side of existing carriageway where extra land is not	NA	
	(iii)Where the widening plan for 4-laning is not yet decided and available ROW is around 30m or less a judicious decision would need to be taken for permitting the laying of cable/duct. This could be within 1.5m to 2m of utility corridor at the edge of existing ROW, duly keeping in view the possible widening plans.	NA	
	(iv)Where ROW is restricted and adequate only to accommodate the carriageway, central verge, shoulders and drains (eg. highways in cutting through hilly/rolling terrain), the cable shall be laid clear of the drain	No	
1.18	No of applicants on the same stretch	One	
1.19	Whether the case of multiple licenses	No	
1.20	If so furnish a joint implementation programme to lay their respective ducts within stipulated time frame	Yes	
1.21	If crossing of the road involved if yes it shall only be through trenchless technology.	Yes	
2	Document/Drawings enclosed with the proposal	Yes	
2.1	Cross section showing the size of pit and location of cable for HDD	Yes	
2.2	Cross section showing the size of pit and location of cable for HDD method	Yes	
2.3	Strip plan/Route plan showing the 110 Kv EHV cable, DP structure, chainage, width of ROW, distance of proposed cable from the edge of ROW, important mile stone, intersections, cross drainage work etc.	Yes, Shown in the diagram	
2.4	Methodology for laying of 110kv EHV cable	Enclosed	
2.4.1	Open trenching method	Yes	
2.4.2	Horizontal Directional Drilling (HDD) method	No	
2.4.3	Laying 110KV cable through CD work	Yes	
3	Draft License agreement signed by two witnesses	Yes	
4	Performance Bank Guarantee	Would be obtained after approval of the proposal	
4.1	Performance BG as per Ministry's circular No RW/NH-33044/29/2015-S&R (R) dated 22-11-2016 to be obtained @100 Rs/-per meter length	Applicable at later	
4.2	Confirmation of BG has been obtained as per NHAI guidelines	BG shall be submitted as per NHAI guidelines	
5	affidavit/Undertaking from the application for	YES	
5.1	Not to damage to other utility, if damaged then to pay the losses either to NHAI or to the concerned agency	YES	
5.2	Renewal of Bank Guarantee	YES	
5.3	Confirming all standard condition of NHAI guideline	YES	
5.4	Shifting of 110kv EHV cable as and when required by NHAI	YES	

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5.5	Shifting due to 6 laning/widening of NH	NO	
5.6	Indemnity against all damages and claims clause (xxiv)	YES	
6	Power of Aattorney in favour of signatory	YES	
7	Copy of DOT licence	NA	
8	Certificate from the Project Director/SE	YES	
8.1	Certificate for confirming of all standard condition issued vide ministry circular No.RW/NH-33044/29/2015-S&R dated 22.11.2016	YES	
8.2	Certificate for 6-laning (a)Where feasibility is available "I do certify that there will be no hindrance to proposed structure at the said location". (b)In case feasibility report is not available "I do certify that sufficient ROW is available at site for accommodating proposed six-laning.	YES	
9	The agreement fee of Re.1 shall be charged	YES	
10	If NH section proposed to be taken up by NHAI on BOT basis-a clause in para17 to be inserted in the agreement. "The permitted Highway on which license has been granted the right of way to the concession sgreement for up-gradation of section from 9.3/12 km, operate and transfer Basis and therefore,the license shall honour the same	NA	
11	Who will supervise the work of laying of 110kv EHV Cable	TANTRANSCO	
12	Who will ensure that the defects in road portion after laying of 110kv EHV cable are corrected and if not corrected then what action will be taken	TANTRANSCO, Superintending Engineer, GCC, Periyamilaguparai, Trichy-620001.	
13	Who will pay the claims for damages done/disruption in working of concessionaire if asked by the concessionaire	TANTRANSCO, Superintending Engineer, GCC, Periyamilaguparai, Trichy-620001.	
14	A certificate from PD that he will enter the proposed permission in the register of records of the permissions in the prescribed proforma (copy enclosed)issued vide ministry circular No.RW/NH/33044/29/2015-S&R (R)dated 22.11.2016	NA	
15	If any previous approval is accorded for laying of cable then photocopy of register of records of permissions accorded as maintained by PD (as per Ministry Circular NO. RW/NH/33044/17/2000/S&R dated 23.7.2003 & 06.08.2013)as referred in para 13 above is enclosed or not.	NO	

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[Signature]
DGM (T) & PROJECT DIRECTOR
NATIONAL HIGHWAYS AUTHORITY OF INDIA
PIU-TRICHY - 620 001.

CHECK LIST		
Annexure to accompany proposal such as Laying of utility service like Pipelines, Underground cable along and across national highways/state highways		
(A) LAYING OF UTILITY ALONG NATIONAL HIGHWAYS/STATE HIGHWAYS		
S.NO	ITEMS	REMARKS
1	Whether the utility line is as close to the extreme edges of the way as possible? Not reason thereof (distance should be clearly note) at salient points and at close interval	yes
2	whether the utility line is 15m away from reasons thereof (distance should be clearly noted)at salient points and at close intervals	Shown in sketch
3	Does the proposal run over existing culverts and bridges at any place,if yes give reason why it can't be avoided	NO
4	Does the proposal cover the area where the road formation is in double cutting	NO
5	Will the proposal interfere with the maintenance of NH at any time by its execution if permitted	NO
6	Whether the C/S of utility line runs along NH is given in the drawing	yes
	(a) Whether the top of U/G of cable line at least 0.6 m below G.L will it obstruct the drainage roads this a proposal to lay on electric cable carrying HT line	1.2 mtr
	(b)If so, necessary certificate by the proposed that it will not have any dangerous effect on any th the bridge coponents and road safety for traffic	NA
7	Is this a proposal to lay on electric cable carrying HT LINE	Yes
	(a) if so, necessary certificate by the proposed that it will not have any dangerous on effect on any at the bridge components and roadways for traffic	No


EXECUTIVE ENGINEER
 Transmission/Line Construction
TANTRANSCO
TIRUCHY - 620 020.


ASSISTANT EXECUTIVE ENGINEER
TLC-I/Trichy-20


DGM (T) & PROJECT DIRECTOR
NATIONAL HIGHWAYS AUTHORITY OF INDIA
PIU-TRICHY - 620 001.

(B) LAYING OF U/G OF CABLE ACROSS NH/SH		
S.NO	ITEMS	REMARKS
1	Chainage at which it crossed the NH/SH	NO
2	Does the proposal cross the NH/SH on a line normal to it	NO
3	If the proposal for irrigation purpose? If so the concurrence if revenue department has been enclosed	NO
4	Whether there is any structure existing within 15m from crossing? If so, the details of structure	NO
5	Will the proposal interfere with the maintenance of NH at any time	NO
(C) METHOD OF HDPE PIPE		
S.NO	ITEMS	REMARKS
1	Does it pass through special conduit or other structures built for this purpose	NO
2	Does it use any of the existing drainage	NO
3	Whether the conduit pipes have been encased?	NO
4	The details of HDPE pipes such as its dia, material etc	200mm
5	Whether the ends of casing or conduit pipes are sealed from outside so that it may not act as drainage path	YES
6	Does the casing / conduit pipe extend from drain to drain, it this is cut or from the toe or slope to toe of slope in case if this is full	NO
7	Whether the top of casings, conduits pipe is 1.2M below the road level subject to the conditions that it lies at least 0.5 m below the drain inverts	YES

[Signature]
EXECUTIVE ENGINEER
 Transmission Line Construction
 TANTRANSCO
 TIRUCHY - 620 020.

[Signature]
ASSISTANT EXECUTIVE ENGINEER
 T L C - I / Trichy-20

[Signature]
DGM (T) & PROJECT DIRECTOR
NATIONAL HIGHWAYS AUTHORITY OF INDIA
PIU-TRICHY - 620 001.

5/12

(D) METHOD OF LAYING		
S.NO	ITEMS	REMARKS
1	Will the cable be installed under road embankment by boring or trench method?(in case of C.C road or dense bituminous concrete road boring methods should be adopted)	Along the road by open cut method and across the road by HDD method
2	If trench method is adopted	
	a)Are the sides of the trench nearly vertical?	Yes
	b)What is the width of trench? Is it not less than 30cms and not more than 60cms than the outer dia.of the casing pipes	1.2mtr (drawing enclosed)
	c)Does it consists of granular material or other good materials so give a firm surface	YES
	d)Are above details shown in the sketch	YES
	e)Whether the back fill shall be completed in 3 stages	YES
	f)Whether the side fill consist of good material and whether will it be completed to 95 of its Pre density	YES
	g)Whether the road will be restored to its original stage?	YES
	h)Whether all the precautions will be taken during execution	YES
	i)Whether the party to meet the cost of restoring the road of its original position	YES
	CERTIFICATE	
	1. This proposal when implemented will not affect the design stability and traffic safety of NH	
	2.This proposaal implemented now, will not affect any likely future improvements to geometrics	
	3. There is no proposal for improvments in this stretch likely to be sanctioned near future	
	4.The proposal is in accordance with the government of India's specification	


EXECUTIVE ENGINEER
 Transmission Line Construction
 TANTRANSCO
 TIRUCHY - 620 020.


ASSISTANT EXECUTIVE ENGINEER
 TLC-I/Trichy-20


DGM (T) & PROJECT DIRECTOR
NATIONAL HIGHWAYS AUTHORITY OF INDIA
PIU-TRICHY - 620 001.

6/12

Proposal for Laying of 110kV EHV UG cable along the NH-38 (TRICHY to MELUR ROAD) KM 0/0 to KM 2/243 BY Open Cut Trench and Trenchless (HDD) Method GENERAL TO ACCOMPANY ALL PROPOSALS		
CHECK LIST		
S.NO	ITEMS	REMARKS
1	Whether the site plan is drawn to a scale of 1:2500 or 1:1000	NTS
2	Whether the details for 100m either side of the utility laying have been furnished	NA
3	Does the plan is shown in full	
	a.NH Boundry line with distance from center line of the road marked at salient points where the land width is changing and also at 100m interval	Yes
	b.The berm , line distance from center line at 100m intervals and also salient points of change widths of NH land	Yes
	c.Center line of pavement and present edger	Yes
	d.Median if any marked to scale	NA
	e.The locations of the utility line of proposal with change showing exact location and distance from NH center line	NA
	f. the existing culverts/drainage works with diversion	Yes
A	Purpose of the proposal in details	for power transmission
B	Exact location of the proposal	NH-38 (Vellore -Tutucorin Road) KM 0/0 to KM 2/243 BY Open Cut Trench and Trenchless ,HDD Method and Installation DP structures
C	Whether the applicant is private agency or Govt agency	M/s TNEB (TANTRANSCO)
D	Any time schedule fixed for completion of the proposal made	As quickly as possible
E	Reason why the proposal could not be accommodated outside	Not feasible
F	Whether any other location other then this difficult of costly	Not possible
G	Whether the proposal, if implemented now will affect any likely future improvement ,in this stretch of likely to be sanctioned in the near future wheather they will be affected by this	No
H	Whether the proposal,if implemented , will affect the design stability and traffic safety of national highways	No
I	Whether the proposal,if implemented now will affect any likely future improvement,such as improvements in geometric	No
J	If there any proposaal for improvement,in this stretch of likely to be sanctioned in the near future where they will be affected by this	No

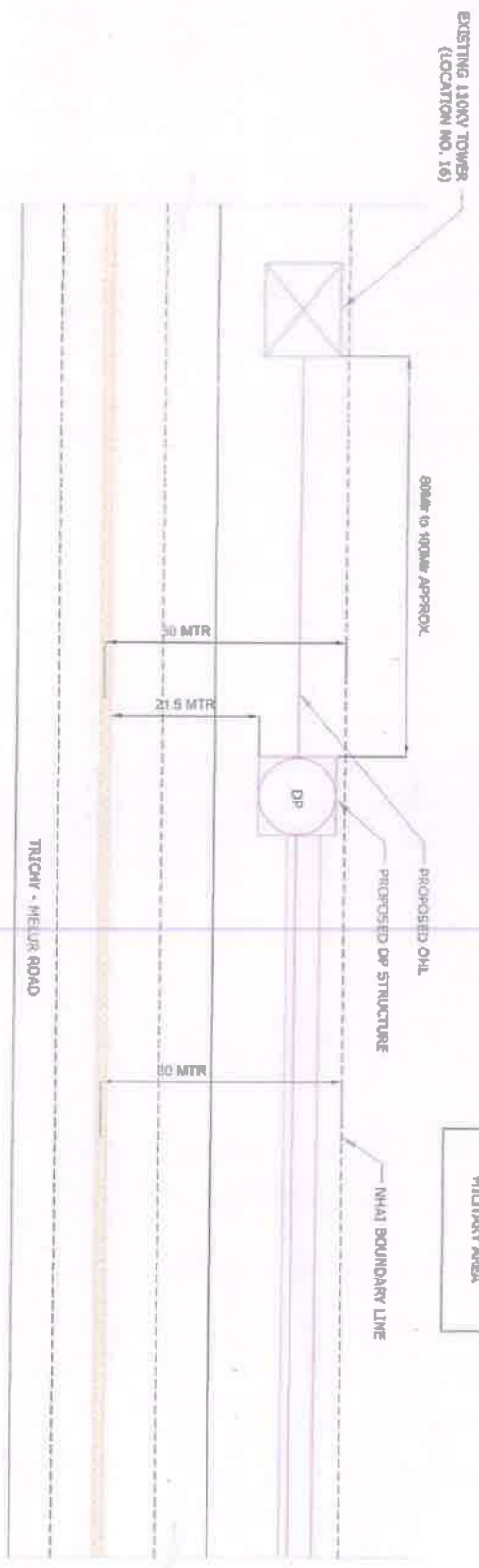
Condition

- 1) The pipe lines should not be placed longitudinally for considerable length along NH
- 2) The crossing of cables shall be square in it normal to NH
- 3) Existing drainage structures shall not be used to carry the cable unless specifically permitted by the Govt.of India.
- 4) Cable should be provided with the casing pipe of larger dia and with 0.3M bedding below the casing pipe laid across the road

[Signature]
EXECUTIVE ENGINEER
 Transmission Line Construction
TANTRANSCO
TIRUCHY - 620 020.

[Signature]
ASSISTANT EXECUTIVE ENGINEER
TLC-I/Trichy-20

[Signature]
DGM (T) & PROJECT DIRECTOR
NATIONAL HIGHWAYS AUTHORITY OF INDIA
PIU-TRICHY - 620 001.



PROPOSED DP STRUCTURE AT NEAR TOWER LOCATION NO:16 (PLAN)

[Signature]
SUPERINTENDING ENGINEER
GENERAL CONSTRUCTION CIRCLE
TANTRANSO
TIRUCHIRAPPALLI-620 001.

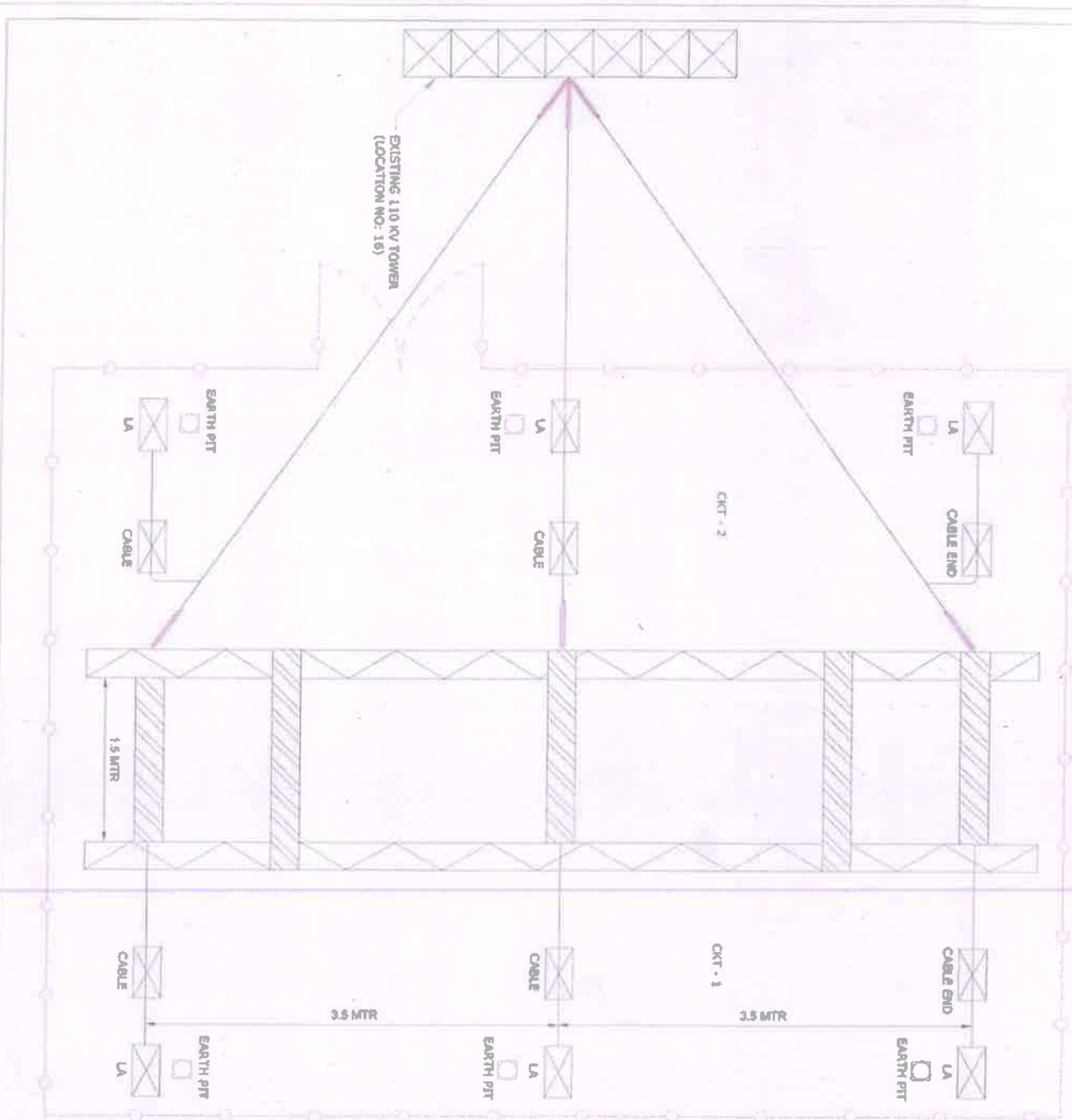
[Signature]
EXECUTIVE ENGINEER
Transmission Line Construction
TANTRANSO
TRICHY - 620 001.

[Signature]
EXECUTIVE ENGINEER
TRANSMISSION LINE
TANTRANSO
TRICHY - 620 001.

[Signature]
ASSISTANT ENGINEER
TRANSMISSION LINE
TANTRANSO
TRICHY - 620 001.

[Signature]
DGM (T) & PROJECT DIRECTOR
NATIONAL HIGHWAYS AUTHORITY OF INDIA
PIU-TRICHY - 620 001.
FINOLEX J-POWER SYSTEMS LTD.

Client - TAMIL NADU TRANSMISSION CORPORATION LIMITED,			
TITLE: PROPOSED DP STRUCTURE NEAR TOWER LOCATION NO - 16			
PROJECT: ROUTE LAYOUT FOR LAYING OF 110 KV ICKABD SQUARE			
NYPE AL. EG CABLE FOR MAKING LHO FROM LOC.16 (NEAR			
ARMY TRAINING CAMP) OF THIRUVARMBUR- K.SATHANUR			
FEEDER TO MANNARPURAM 110KV SS			
DRAWING NO. F.PS-TANTRANSO-LOC.16 - MANNARPURAM - 002			
Drawn by	MURUGARAJ	Date	13/07/2023
Checked by	BASSTO	Rev	02
SCALE:-	N.T.S.	JOB NO.	E-10



DETAIL - A

PLAN

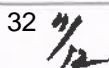
**DGM (T) & PROJECT DIRECTOR,
NATIONAL HIGHWAYS AUTHORITY OF INDIA
PIU-TRICHY - 620 001.**

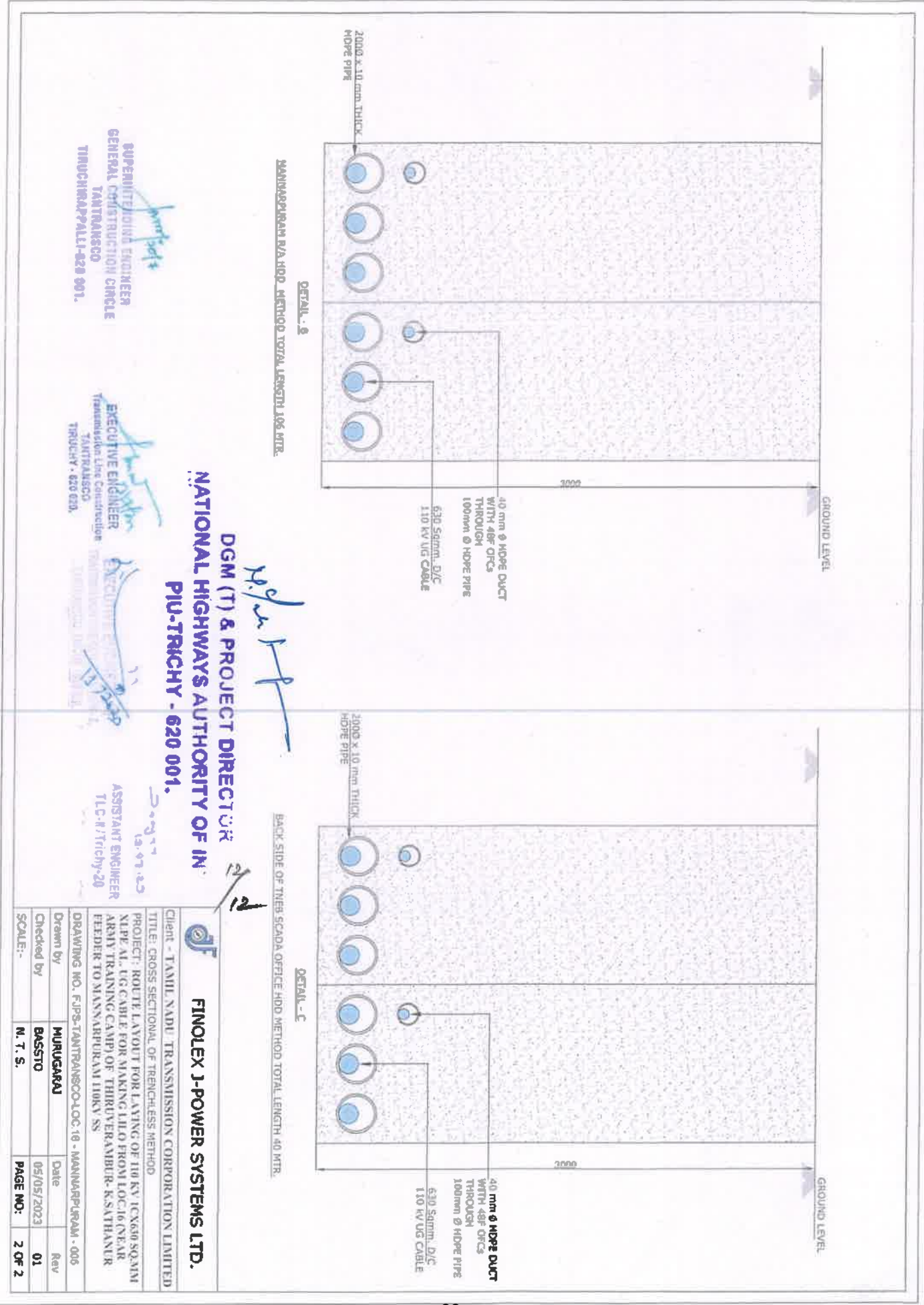
**EXECUTIVE ENGINEER
TRANSMISSION LINE CONSTRUCTION
TAMILNADU
TRICHY - 620 001.**

**ASSISTANT ENGINEER
TRANSMISSION LINE CONSTRUCTION
TAMILNADU
TRICHY - 620 001.**

FINOLEX 3-POWER SYSTEMS LTD.

Client - TAMIL NADU TRANSMISSION CORPORATION LIMITED			
TITLE: PROPOSED DP STRUCTURE NEAR TOWER LOCATION NO - 16			
PROJECT: ROUTE LAYOUT FOR LAYING OF 110 KV 16X630 SQMM XLPE AL TG CABLE FOR MAKING L16D FROM LOC.16 (NEAR ARMY TRAINING CAMP) OF THIRUVARUR TO K.SATHANUR FEEDER TO MANNARPURAM 110KV SS			
DRAWING NO. FPG-TANTRANS-LOC.16 - MANNARPURAM - 003			
Drawn by	MURUGARAJ	Date	05/05/2023
Checked by	BASSTO	Rev	01
SCALE:-	N. T. S.	JOB NO.	E-10





[Signature]
SUPERINTENDING ENGINEER
GENERAL CONSTRUCTION CIRCLE
TANTANESCO
TIRUCHIRAPPALLI-628 001.

[Signature]
EXECUTIVE ENGINEER
Transmission Line Construction
TANTANESCO
TRICHY - 620 020.

[Signature]
ASSISTANT ENGINEER
TLC-R/Trichy-20

[Signature]
DGM (T) & PROJECT DIRECTOR
NATIONAL HIGHWAYS AUTHORITY OF INDIA
PIU-TRICHY - 620 001.



FINOLEX J-POWER SYSTEMS LTD.

Client - TAMIL NADU TRANSMISSION CORPORATION LIMITED			
TITLE: CROSS SECTIONAL OF TRENCHLESS METHOD			
PROJECT: ROUTE LAYOUT FOR LAYING OF 110 KV ICSG60 SQMM XLPE M. UG CABLE FOR MAKING LHO FROM LOC-16 (NEAR ARMY TRAINING CAMP) OF THIRUVERAMBUR-K.SATHANUR FEEDER TO MANNAIPURAM 110KV SS			
DRAWING NO. FJPS-TANTANESCO-LOC-16 - MANNAIPURAM - 005			
Drawn by	MURUGARAJ	Date	Rev
Checked by	BASSTO	05/05/2023	01
SCALE:-	N. T. S.	PAGE NO:	2 OF 2



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METHOD STATEMENT FOR EHV UG CABLE LAYING

PROJECT	Design, Detailed Engineering, Manufacture and Supply of 16.2 Kms of 110 KV, 1x630 sq.mm Aluminium XLPE UG cable laying works.
COMPANY	Tamilnadu Transmission corporation
CONTRACTOR	Finolex J-Power Systems Ltd

The following activities shall be ensured by the Electrical Engineer / Foreman and QC Engineer at site:

1.0 Purpose

The purpose of this instruction is to provide the guidelines for Installation of 110kV, 1CX630sqmm UG cable works and associated activities to satisfy all the relevant specifications and requirements.

2.0 References

Scope of work

Client's Specification and standards

Manufacturer Instruction

Approved Cable route drawing & Scheme drawing

3.0 Safety Precautions.

3.1 Hazard Identification

- Unguarded opening
- Excavation Collapse
- Buried Services
- Tripping Hazard

3.2 Action by the Execution team.

- Barriers & Sign Boards are to be erected.
- Identify location of underground services before excavation.
- Use Proper Personnel Protective Equipment during working.



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METHOD STATEMENT FOR EHV UG CABLE LAYING

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COMPANY	Tamilnadu Transmission corporation
CONTRACTOR	Finolex J-Power Systems Ltd

4.1 - Equipment & Accessories.

Sl. No	Item Description	Quantities
01.	Cable Drum stands with Hydraulic jack and spindle.	1 Set
02.	Cable Pulling winch machine 5 - 10 Ton Capacity	1 Set
03.	Straight Rollers, V Rollers, Angle Rollers	Required as per site
04.	Communication set with Charger	Required as per site
05.	Excavator	Required as per site
06.	Roller Compactor	Required as per site
07.	Portable DG	Required as per site
08.	Megger - 5kV	1 No
09.	Electrician Tool Box	2 Set

4.3 - Installation of EHV Cables

- Approved for Construction drawings / Cable schedule are available and referred on job.
- Trench excavation, sand pre padding / Post Padding and backfilling are carried out as per the construction drawing and Civil Work Instruction.
- Ensure the access road & Barricading in accordance with the standard drawing and safety specification.
- EHV / HV Cable drums to be offloaded at site with the help of suitable Load TON's of crane.
- The requisite Cable drum / Cables are to be inspected for damage before use.
- Insulation resistance and continuity checks to be done before laying the cable and it has to be record on the form.



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METHOD STATEMENT FOR EHV UG CABLE LAYING

PROJECT	Design, Detailed Engineering, Manufacture and Supply of 16.2 Kms of 110 KV, 1x630 sq.mm Aluminium XLPE UG cable laying works.
COMPANY	Tamilnadu Transmission corporation
CONTRACTOR	Finolex J-Power Systems Ltd

- Level of cable drum jack is to be checked with a spirit level by placing it on the spindle of the jack. This is to be done before placing the cable drum on to jack.
- The cable drum is placed on the drum jack with the help of suitable load ton's of Crane.
- Cable rollers are placed in the trench at a minimum distance of 3 meter to prevent damage to the cable while pulling and to minimise frictional load.
- The cable is to be pulled by the winch machine with uniform slow speed with the sufficient man power for necessary support of proper laying.



- Cable drum is to be rotated only in the direction indicated on the drum.
- Unwinding and pulling of cable from the drum is carried out smoothly and at uniform slow speed.
- Care is taken to prevent excessive bending or twisting of the cable. If a bend is unavoidable the bending radius is within the limits specified in TANTRANSCO requirement.
- Adequate length of cable LOOP are to be provide at either ends in the "S" Form or suitable to site condition.



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METHOD STATEMENT FOR EHV UG CABLE LAYING

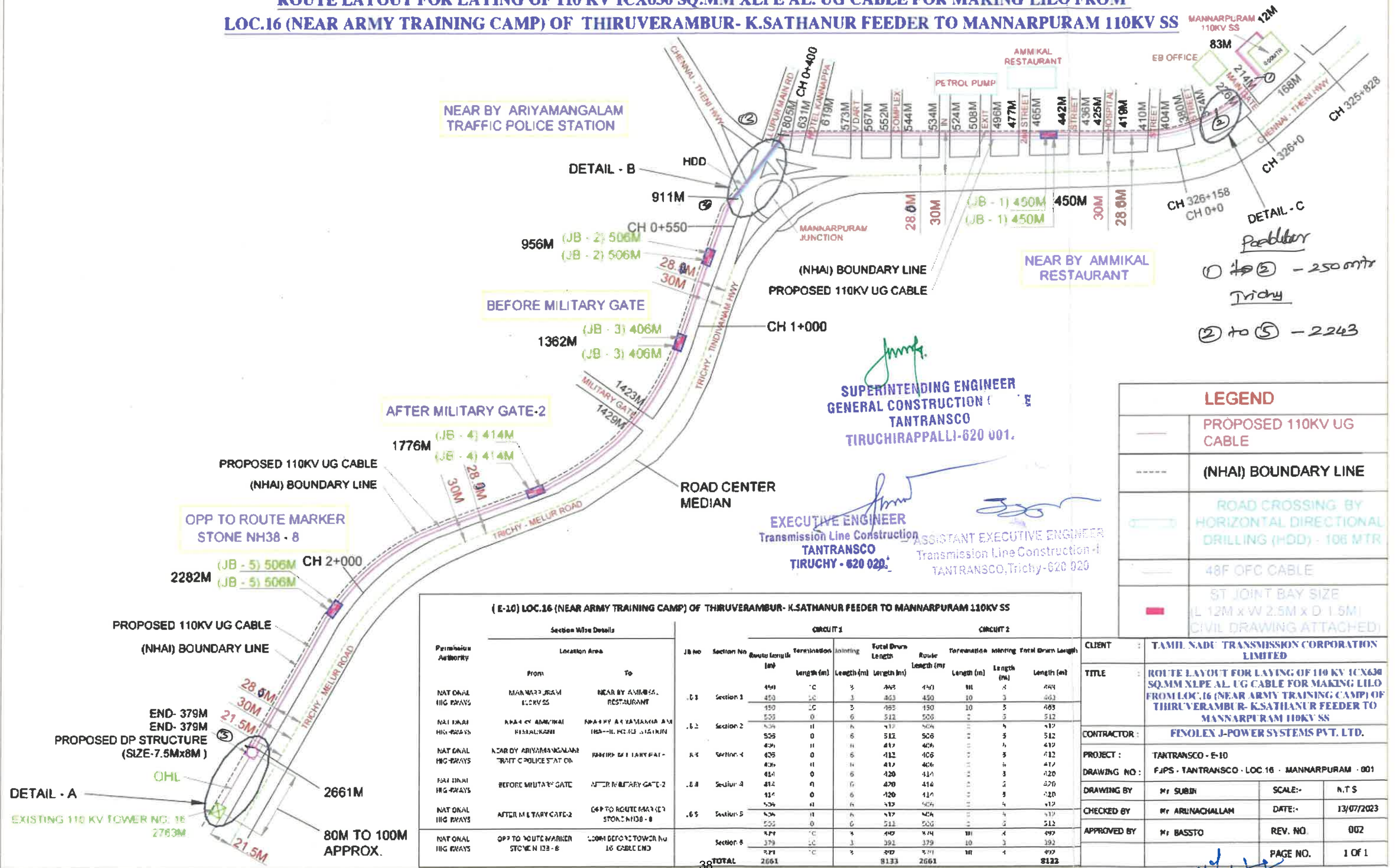
PROJECT	Design, Detailed Engineering, Manufacture and Supply of 16.2 Kms of 110 KV, 1x630 sq.mm Aluminium XLPE UG cable laying works.
COMPANY	Tamilnadu Transmission corporation
CONTRACTOR	Finolex J-Power Systems Ltd

- Once the cable laying completed between the destinations it should be cut as per the cutting schedule and cable length to be recorded on the form with Cable drum details.
- Cable marking with lead marker is to be done at entry points of ducts and sleeves and inspected by TANTRANSCO.
- Minimum space between the cables is as specified on the standard drawing and specification for buried cables.
- All cable entries are effectively sealed against ingress of water and dust.
- Insulation and continuity check of the cable is carried out in the presence of TANTRANSCO. Before post padding and back filling of the trench.
- Once all the activities viz., trenching, pre-padding, cable laying, cable tiles/caution tape installation, post padding, back filling and route marker installation are completed, the results are recorded on the form Cable Trench Record and approval is taken from TANTRANSCO.
- Identification tags are put at both ends as specified on the standard drawings and all data is recorded on the form approved by TANTRANSCO.
- Each set of single-core cables comprising a three-phase circuit shall be run close together in trefoil formation and secured by non magnetic clamps at intervals of one meter.

5.0 - Documentation.

Records shall include the following,

- All quality records. (Check List)
- All inspection forms (RFI).
- All marked up drawings.
- As built Drawing.
- Updated Cable schedule.



दूर/Tele: +91-431 2482959 वेब/ Web: www.nhai.org ई-मेल/ E-mail: tri@nhai.org, trichynhai@gmail.com



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Regional Office 2nd & 3rd Floor, May Krishna Rao, Madurai, Madurai, MOES, Deputy General Manager RO Madurai, RO Madurai

**National Highways Authority of India**

Project Implementation Unit, Trichy - 620 001.

also to submit revised duly signed license deed accordingly by Authorized Signatory of TANTRANSCO.

2. The applicant has furnished check list which is having in correct edge distance from C/L which is not as per the MoRT&H guidelines and to submit revised check list as per MoRT&H guidelines.

3. In the given proposal, indemnity bond is not attached and also to submit indemnity bond accordingly.

4. In the submitted strip plan, available with of the ROW with is not mentioned and to submit revised strip plan accordingly.

5. Crossing has been proposed by the applicant near the roundabout portion which may be changed to some other crossing location to reduce the length of crossing and damage to the NH. Therefore applicant to explore alternative method for crossing of highway.

Hence this proposal may also be furnished with modified drawings duly incorporating details in the license deed, checklist and furnished to this office for taking necessary action.

Encl: Proposal – 3 Nos.

Yours faithfully,



(M. Ganesh Kumar)

DGM (T) & Project Director

Copy to:

- Team Leader, M/s. Upham Trichy for information.

Note No. #3

The subject proposal submitted by the PD, PIU, Trichy has been examined and the following observation are found:

1. In the submitted license deed, Authorized Signatory of Applicant has not signed on behalf of the applicant at the assigned place. Hence, Applicant may be asked to submit revised duly signed License deed accordingly.
2. The applicant has a furnished check list which is having incorrect edge distance from C/L. Hence, applicant may be asked to submit revised check list as per MoRTH guidelines.
3. In the given proposal, indemnity bond is not attached. Hence, applicant may asked to submit.
4. In the given proposal, guideline value for utilized area is not attached. Hence, PD may submit and certified.
5. In the submitted strip plan, available width of the RoW with is not mentioned. Hence, Applicant may be asked to submit revised strip plan accordingly.
6. Crossing has been proposed by the applicant near the roundabout portion which may be changed to some other crossing location to reduce the length of crossing and damage to the NH. Applicant may be asked to explore alternative method for crossing of highway.

In the view of above, it is requested to submit compliances of above observation for further necessary action by this office.

04/08/2023 7:26 PM

महेंद्र मीना|MAHENDRA MEENA
(चप -प्रबंधक|DY. MGR)



UPHAM INTERNATIONAL CORPORATION Jv With SA INFRASTRUCTURE CONSULTANTS PVT. LTD.
In Association With QUEST ENGINEERS & CONSULTANTS PVT. LTD.



NH-45B, Trichy - Madurai, No:5, Sakthi Nagar, 9th Cross, Karumandapam, Trichy - 620 001. Ph : 0431 3560737 E-mail : uphamsacnh45b@gmail.com

UPHAM&SAC/TM/NH-38/2023/1054

Date : 01.08.2023

To

The Deputy General Manager (Tech) & Project Director,
 National Highways Authority of India,
 Office of the Project Director, PIU-Trichy,
 New No.6 (Old No.44), First Floor,
 III - Main Road, Ponnagar, Tiruchirappalli - 620 001

Project: Consultancy services for Supervision Consultants of Operation & Maintenance of Four Laning of Trichy Bypass -Tovarankurichi - Madurai section of NH-38 from Km.0/000 to Km.124/840 in the State of Tamil Nadu.

Sub: NHAI -PIU -Trichy-GCC/Trichy-Design, Detailed Engineering, Manufacture and supply of 16.2 kms of 110 kv 1 X 630 sq. m Aluminium XLPE UG Cable and accessories, laying of cable, erection of joints and termination, testing and under total turnkey basis- Check list and route layout drawings for laying 110 kv 1 C X630 sq. m XLPE Al.UG Cable from km.0/000 to km.2/243(2243m) of NH-38 - Submission of site inspection Report -Reg

Ref:

1. NHAI/PD/TRY/NH 38/T-M/TNEB/2023/1489 dt.22.07.2023.
2. Superintending Engineer (GCC), Trichy Letter No.006773/SE/GCC/TRY/AEE/GL/DB/AE/C/F. Mannarpuram UG Cable dt.20.07.2023
3. NHAI/PD/TRY/NH 38/T-M/TNEB/2023/984 DT.23.05.2023.
4. Superintending Engineer (GCC), Trichy Letter No.004425/SE/GCC/TRY/AEE/GL/DB/AE/C/F. Mannarpuram UG Cable dt.24.02.2023
5. NHAI/PD/TRY/NH38/T-M/TNEB/2023/695 DT. 10.04.2023.
6. Superintending Engineer (FAC), Trichy Letter No. 1373/SE/GCC/TRY/AEE/GL/DB/AE/C/F. Mannarpuram UG Cable dt.24.02.2023

Dear Sir,

With reference to the letter above subject and letter ref.2 cited above, the superintending Engineer (GCC), Trichy has resubmitted the proposal and seeking permission to lay underground 110 kv electrical cable line from km. 0+000 to km.2+243 (RHS) along the project highway and across at mannarpuram roundabout in Trichy-Madurai section of NH-38.

In this context, the Supervision consultant has made joint site inspection with the Executive Engineer, (TLC) TANTRANSCO, Trichy on 28.07.2023 along with the revised proposal submitted vide ref.no.2 cited above as per the Ministry Policy Guidelines No.RW/NH-33044/29/2015/S&R(R) Dated 22.11.2016 and the following observations are as follows.



UIC Head Office : 1101B, 11th Floor, Tower A-II, Ansal Corporate Park, Plot No:7A/1, Sector-142, Noida - 201 301. UP, India, Tele : +91-120 6148098

QECPL Head Office: 51-C, Dayanand Marg, Allahabad, UP, India, Tel.:0532 2421941 E-mail : quest_international@rediffmail.com

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1. The total length of UG Electrical cable is 2661m from the mannarpuram 110 kv substation to proposed DP structure location. In that 250m comes under TTPL section, 168M comes in the mannarpuram substation premises and balance 2243m is involving in the Trichy-Madurai section of NH-38.
2. The length of UG Cable along the Trichy-Madurai section is 2137m by trench method and across the section is 106m at mannarpuram roundabout.
3. The requested 110kv Underground Electrical cable laying across the road at mannarpuram roundabout at a crossing length of 106m by HDD method.
4. The laying of electrical line cable crossing at mannarpuram roundabout is proposed with the encasing provision of 200mm dia of HDPE pipe.
5. The resubmitted drawing has verified with the earlier observations as well as site is found in order.
6. The connectivity from DP structure to existing tower line by OHL and the details has included in the drawing as well as in the check list in the resubmitted proposal found in order.
7. The minor street/road merging to the service road encasing with 160mm dia with 400mm thick concrete before filling of earth with proper consolidation should be followed as per the submitted drawing,
8. The construction of joint bay structure may allow (or) not allow within the ROW, as decided by the authority.

In this regard, the above proposal is hereby recommended with the following conditions,

1. The entire UG Electrical cable laying works should be as per the approved layout drawings at the extreme edge of ROW.
2. The laying of UG Electrical cable along the road should be at the depth of minimum 1.65m.
3. Crossing of UG Electrical cable should be done HDD method only and after completion of HDD work, the proper protection work shall be done at the digging portions on either side of ROW edges.
4. No digging of MCW/SR road should be allowed.
5. No damage to the existing highway, road furniture's and other existing utilities. If any damages occurred to the Highway properties, the applicant shall restore at their own risk and cost.
6. Free flow of traffic should be maintained while carrying out the work.
7. Proper safety precautionary measures should be made available at site till the completion of work.
8. The approved drawings, methodology and undertakings for the above work should be strictly followed by the applicant.
9. In case of any defects found, the bank guarantee will be forfeited & appropriate action shall be taken.
10. During the execution of work, utmost care should be taken and not to cause any damages to the road properties such as existing utilities (EB Lines, Water Line, OFC etc.,) drains, service roads, shoulders, sign boards etc.,
11. Shifting of such cable line shall be done by the Concern department with their own risk and cost as and when required by the NHAI for any improvement works.



12. Excavation work shall be carried out as per the instructions of concerned NHAI/consultant Representatives.
13. The excavated earth should be properly filled to same condition as it was before digging.
14. While Carrying work the Existing Avenue Plantation should be protected. If any damages occurred applicant should be restored 1:10 ratios of Plantation at their own cost.
15. During rainy season, extra care shall be taken to the excavated portions.
16. Necessary sign boards have to be provided in the working zone areas.
17. All the construction work should be carried out as per MORTH specification and IRC/IS guidelines.

Hence, the proposal of the laying of UG Electrical cable line along/across the Project highway in Trichy - Madurai section of NH-38 may be considered for approval, the original proposal of the same is also enclosed herewith for further action.

This is for your kind information and further action.

Thanks & Regards,



(K. Raj Kumar)

Team Leader Cum Senior Highway Engineer
Upham with SAC, Trichy.

Encl: original proposal



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
 (सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)
National Highways Authority of India
 (Ministry of Road Transport & Highways, Government of India)
 परियोजना कार्यान्वयन इकाई - तिरुच्चई / Project Implementation Unit - Trichy
 नं.6, (पुराना नं.44), पहली मंजिल, III - मेन रोड, पानेनगर, तिरुचिरापल्लि - 620 001
 No. 6, (Old No. 44), 1st Floor, III-Main Road, Ponnagar, Tiruchirapalli - 620 001
 दूर / Tele: +91-431 2482959 वेब / Web: www.nhai.org ईमेल / E-mail: tri@nhai.org, trichynhai@gmail.com



NHAI/PD/TRY/NH 38/T-M/TNEB/2023/1489

July 22, 2023

To

Team Leader,

M/s.UPHAM International Corporation,

No.5 - Sakthi Nagar, 9th cross,

Karumandapam, Trichy - 620001

M/s. Upham	NH 45B
Inward No.	4447
Date:	25/7/23
Received:	

Sub: NHAI - PIU, TRICHY - Trichy - Madurai section of NH 45B (New NH 38) - GCC/Trichy - Design, Detailed Engineering, Manufacture and supply of 16.2 kms of 110 Kv 1X630 sq.m Aluminium XLPE UG Cable and accessories, laying of cable, erection of joints and termination, testing and commissioning from Loc.16 (near Army to the Mannarpuram 110 KV SS end under total turnkey basis - Check list and route layout drawings for laying 110KV 1C x 630 sq.m XLPE Al. UG Cable from km. 0/000 to km.2/243 (2243m) - Certain observations made by Team Leader - Compliance requested - Reg

- Ref: 1. Superintending Engineer (GCC), Trichy letter no. 004425/SE/GCC/TRY/AEE/GL/DB/AE/C/F.Mannarpuram UG Cable dt.12.05.2023 (Received on 16.05.2023)
 2. Team Leader, M/s. Upham, letter no. UPHAM&SAC/TM/NH-38/2023/975 dt.13.06.2023
 3. This office letter No: NHAI/PD/TRY/NH 38/T-M/TNEB/2023/1337 July 04, 2023
 4. Superintending Engineer (GCC), Trichy letter no. 003773/SE/GCC/TRY/AEE/GL/DB/AE/C/F.Mannarpuram UG Cable dt.20.07.2023

Sir,

Please find enclosed the revised proposal received from Superintending Engineer (FAC), Transmission Trichy seeking permission to lay underground Electric cable for aforesaid subject stretch in Trichy - Madurai section of NH 38, for joint inspection of site and submission of report keeping in view of the availability of land and feasibilities subsisting encumbrances if any at site, early to this office.

Yours faithfully,

Encl: Proposal - 1 No.

(M. Ganesh kumar)
 DGM (T) & Project Director

Copy to:

- Superintending Engineer (GCC), Trichy for information.

\\Pd\PIU Tri Doc\2023 Documents\Utility shifting\TNEB\T-M\SE, 45B\TNEB from km.0.000 to km.2.243.docx



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)
National Highways Authority of India
(Ministry of Road Transport & Highways, Government of India)
परियोजना कार्यान्वयन इकाई - तिरुच्ची / Project Implementation Unit - Trichy
नं. 6, (पुराना नं. 44), पहली मंजिल, III - मेन रोड, पानेनगर, तिरुचिरापल्लि - 620 001
No. 6, (Old No. 44), 1st Floor, III-Main Road, Ponnagar, Tiruchirapalli - 620 001
दूर / Tele: +91-431 2482959 वेब / Web: www.nhai.org ई-मेल / E-mail: tri@nhai.org, trichynhai@gmail.com



NHAI/PD/TRY/NH 38/T-M/TNEB/2023/1337

July 04, 2023

To

The Superintending Engineer (FAC),
General Construction Circle,
110 KV Grid SS Campus,
Trichy - 620001

Sub: NHAI - PIU, TRICHY - Trichy - Madurai section of NH 45B (New NH 38) - GCC/Trichy - Design, Detailed Engineering, Manufacture and supply of 16.2 kms of 110 Kv 1X630 sq.m Aluminium XLPE UG Cable and accessories, laying of cable, erection of joints and termination, testing and commissioning from Loc.16 (near Army to the Mannarpuram 110 KV SS end under total turnkey basis - Check list and route layout drawings for laying 110KV 1C x 630 sq.m XLPE Al. UG Cable from km. 0/000 to km.2/243 (2243m) - Certain observations made by Team Leader - Compliance requested - Reg

Ref: 1. Superintending Engineer (GCC), Trichy letter no. 004425/SE/GCC/TRY/AEE/GL/DB/AE/C/F. Mannarpuram UG Cable dt.12.05.2023 (Received on 16.05.2023)
2. Team Leader, M/s. Upham, letter no. UPHAM&SAC/TM/NH-38/2023/975 dt.13.06.2023

Sir,

This has reference to the application dt.12.05.2023, requesting permission for laying of 110KV 1C x 630 sq.m XLPE Al. UG Cable from km. 0/000 to km.2/243 (2243m). The site was inspected by the Team Leader along with Executive Engineer (NI), Transmission line, TANTRANSCO, Trichy on 07.06.2023 and made following observations as per letter dt.13.06.2023.

It is observed that:

1. The crossing of high tension underground electrical cable line at Mannarpuram roundabout Junction in skew manner cannot be allowed, since the mixed traffic movements is prevailing at this location. Further, improvements/developments at Mannarpuram roundabout junction by the NHAI in future to connecting with structure elements for Chennai-Trichy-Madurai section to Trichy Railway junction road and also modification of roundabout may also be taken in future. Moreover, as per NH-Norms the



crossing of 110KV high tension underground electrical cable line is not advisable at major junction/intersection. Hence the applicant should study the feasibility at this location and relocated the crossing point at the end of island portion on the Trichy junction road side. The route plan and proposal has to be modified.

2. The connectivity of OHL from Existing Tower line located to the proposed DP Structure from km.2/243 to 2/600 as shown in the drawing and the same is not include in the check list and agreement of the proposal. The applicant either the details of OHL connectivity should include in the checklist and proposal (or) the drawing has to be modified.

3. All crossing should be done only by HDD method as per NHAI norms and the drawing has to be modified.

The applicant is therefore requested to rectify the aforesaid observations and submit compliance report with modified drawings for taking necessary action.

Yours faithfully,

(M. Ganesh Kumar)

DGM (T) & Project Director

Encl: Proposal – 3 Nos.

Copy to:

- Team Leader, M/s. Upham Trichy for information.



UPHAM INTERNATIONAL CORPORATION JV With SA INFRASTRUCTURE CONSULTANTS PVT. LTD.
In Association With QUEST ENGINEERS & CONSULTANTS PVT. LTD.



NH-45B, Trichy - Madurai, No:5, Sakthi Nagar, 9th Cross, Karumandapam, Trichy - 620 001. Ph : 0431 3560737 E-mail : uphamsacnh45b@gmail.com

UPHAM&SAC/TM/NH-38/2023/975

Date : 13.06.2023

To
 The Deputy General Manager (Tech) & Project Director,
 National Highways Authority of India,
 Office of the Project Director, PIU-Trichy,
 New No.6 (Old No.44), First Floor,
 III - Main Road, Ponnagar, Tiruchirappalli - 620 001

NHAI, PIU, TRICHY	
DATE 19	JUN 2023
DIARY No	2345
FO	MF

Project: Consultancy services for Supervision Consultants of Operation & Maintenance of Four Laning of Trichy Bypass -Tovarankurichi - Madurai section of NH-38 from Km.0/000 to Km.124/840 in the State of Tamil Nadu.

Sub: NHAI -PIU -Trichy-GCC/Trichy-Design, Detailed Engineering, Manufacture and supply of 16.2 kms of 110 kv 1 X 630 sq. m Aluminum XLPE UG Cable and accessories, laying of cable, erection of joints and termination, testing and under total turnkey basis- Check list and route layout drawings for laying 110 kv 1 C X630 sq. m XLPE Al.UG Cable from km.0/000 to km.2/243(2243m) of NH-38 - Submission of site inspection Report -Reg..

Ref:

1. NHAI/PD/TRY/NH 38/T-M/TNEB/2023/984 DT.23.05.2023.
2. Superintending Engineer (GCC), Trichy Letter No.004425/SE/GCC/TRY/AEE/GL/DB/AE/C/F .Mannarpuram UG Cable dt.24.02.2023
3. NHAI/PD/TRY/NH38/T-M/TNEB/2023/695 DT. 10.04.2023.
4. Superintending Engineer(FAC), Trichy Letter No. 1373/SE/GCC/TRY/AEE/GL/DB/AE/C/F. Mannarpuram UG Cable

Dear Sir,

With reference to the letter above subject and letter ref.2 cited above, the superintending Engineer (GCC), Trichy has resubmitted the proposal and seeking permission to lay underground 110 kv electrical cable line from km. 0+000 to km.2+243 (RHS) along the project highway and across at mannarpuram roundabout in Trichy-Madurai section of NH-38.

In this context, the Supervision consultant has made joint site inspection with the Executive Engineer (NI), Transmission line, TRATRANSCO, Trichy on 07.06.2023 along with the revised proposal as per the Ministry Policy Guidelines No.RW/NH-33044/29/2015/S&R(R) Dated 22.11.2016 and the following observations are as follows.

1. The crossing of high tension underground electrical cable line at mannarpuram roundabout Junction in skew manner is cannot be allowed, since the mixed traffic movements is prevailing at this location. Further, any improvements/developments at mannarpuram



roundabout junction by the NHAI in future to connecting with structure elements for Chennai-Trichy-Madurai section to Trichy Railway junction road and also modification of roundabout also may be taken in future towards action against the VIP reference. Moreover, as per NH-Norms the crossing of high tension underground electrical cable line is not advisable at major junction/intersection. Hence the applicant should study the feasibility at this location and relocated the crossing point near at the end of island portion towards Trichy Railway junction road side, accordingly the route plan has to be modified.

2. The connectivity of OHL from Existing Tower line located to the proposed DP Structure as shown is the submitted drawing and the same is not include in the check list of the proposal. The applicant either the details of OHL connectivity should include in the checklist (or) the drawing has to modify accordingly in the proposal of UG cable line up to DP structure.
3. All crossing should be done only by HDD method accordingly, the drawing has to be modified.

In view of above, the applicant is hereby requested to modify the submitted proposal duly incorporating the observations and resubmit for further course of action

This is for your kind information and further action.

Thanks & Regards



(K. Raj Kumar)

**Team Leader cum Senior Highway Engineer
Upham with SAC, Trichy.**

Encl: Original Proposal

NHAI, P.	CHY
DATE	16 MAY 2023
DIARY No	1867
VER	my

TAMIL NADU TRANSMISSION CORPORATION LTD

FROM
Er.R.Kalpana,B.E.,(Hons)
Superintending Engineer,
General Construction Circle,
110 Kv Grid SS Campus,
Trichy – 620 001.

TO
The Project Director,
National Highways Authority of India,
No.44, 3rd Main road,
Jaya Nagar Extension,
Ponnagar, Thiruchirappalli,
Tamilnadu – 620 001.

Lr.No.004425/SE/GCC/TRY/AEE/GL/DB/AE/C/F.Mannarpuram UG Cable/

Dt.12.05.23.

Sir,

Sub : **GCC/TRICHY** – Design, Detailed Engineering, Manufacture and Supply of 16.2 Kms of 110 KV, 1X630 Sq.mm Aluminium XLPE UG Cable and accessories, Laying of Cable, Erection of joints and termination, testing and commissioning from Loc.16 (near army to the Mannarpuram 110 KV SS end under total turnkey basis- Revised Check list and Route layout for laying 110 KV 1C X 630 Sq mm XLPE Al. UG Cable – Approval requesting – Reg.

Ref:1. Lr.No.1373/SE/GCC/TRY/AEE/GL/DB/AE/C/F.Mannarpuram UG Cable, Dt.24.02.23
2. NHAI/PD/TRY/NH 38/T-M/TNEB/2023/778/dt.25.04.23
3.Lr.EE/TLC/TRY/HD/F.Mannarpuram UG Cable/ D.No.275/23 dt.09.05.2023.

The Proposal for laying of 110 KV 1C X 630 Sq mm XLPE Al. UG Cable for making LILO from Loc.16 of Thiruverambur –K.Sathanur feeder to Mannarpuram 110 KV SS along the NH – 38 by open cut trench and trenchless (HDD) method returned Vide (ref.2) cited is furnished after attending following remarks.

1. As stated vide reference, revised route survey has been conducted and drawings are prepared and enclosed herewith.
2. Cable termination DP Structure indicated in the route plan along with exact U.G. Cable distance.
3. The cable crossing at Mannarpuram junction modified by trenchless method (HDD) and length shown in the drawing.
4. The exact location of the joint pit shown in the drawing and details also enclosed.

The detailed sketch showing the crossing arrangements and route layout drawings particulars is herewith enclosed

Hence, it is requested that the above crossing arrangements may please be approved and communicated early please.

Yours faithfully,

Encl : Route Layout – 2 Copy.

Online Application - 4 Nos

**SUPERINTENDING ENGINEER,
GCC / TRICHY.**

(Through E-mail).

Copy to the Executive Engineer / TLC / Trichy.

Copy to the Executive Engineer (NI)/ TLC-II / Trichy.



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)
National Highways Authority of India
(Ministry of Road Transport & Highways, Government of India)
परियोजना कार्यान्वयन इकाई - तिरुच्ची / Project Implementation Unit - Trichy
नं.6, (पुराना नं.44), पहली मंजिल, III - मेन रोड, पानेनगर, तिरुचिरापल्लि - 620 001
No. 6, (Old No. 44), 1st Floor, III-Main Road, Ponnagar, Tiruchirapalli - 620 001
दूर/Tele: +91-431 2482959 वेब/Web: www.nhai.org ई-मेल/E-mail: trl@nhai.org, trichynhai@gmail.com



NHAI/PD/TRY/NH 38/TM/TNEB/2024/954

February 14, 2024

To

Regional Officer,
National Highways Authority of India,
Plot No.2nd&3rd Floor,
Vijay Krishna Plaza, No. 1, Lake Area,
Melur Main Road, Mattuthavani,
Madurai - 625 007.

Sub: NHAI - PIU, TRICHY - Trichy - Madurai section of NH 45B (New NH 38) - GCC/Trichy - Design, Detailed Engineering, Manufacture and supply of 16.2 kms of 110 Kv 1X630 sq.m Aluminium XLPE UG Cable and accessories, laying of cable, erection of joints and termination, testing and commissioning from Loc.16 (near Army to the Mannarpuram 110 KV SS end under total turnkey basis - Check list and route layout drawings for laying 110KV 1C x 630 sq.m XLPE AL. UG Cable from km. 0/000 to km.2/550- Revised Proposal - In Principle approval requested - Reg.

- Ref: 1. Superintending Engineer (GCC), Trichy letter no. 004425/SE/GCC/TRY /AEE/GL/DB/AE/C/F.Mannarpuram UG Cable dt.12.05.2023 (Received on 16.05.2023)
2. Team Leader, M/s. Upham, letter no. UPHAM&SAC/TM/NH-38/2023/975 dt.13.06.2023
3. This office letter No:NHAI/PD/TRY/NH 38/T-M/TNEB/2023/1337 dt.04.07.2023
4. Superintending Engineer (GCC), Trichy letter no 003773/SE/GCC/TRY /AEE/GL/DB/AE/C/F.MannarpuramUG Cable dt.20.07.2023
5. Team Leader, M/s. Upham, Trichy letter no. UPHAM&SAC/TM/NH-38/2023/1054 dt.01.08.2023
6. RO Madurai observations vide e-file no. 213889 note # 3 dt.04.08.2023
7. PIU Trichy letter no. 1703 dt. 19.08.2023
8. Superintending Engineer (GCC), Trichy letter no. 8577/SE/GCC/TRY/AEE/GL/DB/AE/C/F.Mannarpuram UG Cable dt.29.08.2023
9. This office letter NHAI/PD/TRY/NH 38/T-M/TNEB/2023/1953 dt 26.09.2023
10. RO Madurai observations vide e-file no. 224136 note # 4 dt.24.10.2023
11. This office letter NHAI/PD/TRY/NH 38/T-M/TNEB/2023/2288 dt 17.11.2023
12. This office letter NHAI/PD/TRY/NH 38/T-M/TNEB/2023/2475 dt 21.12.2023

14/02/24

\\Pd\\d\\PIU Tri Doc\\2024 Documents\\Utility shifting\\TNEB\\T M\\SE, Trichy-TNEB from km.0.000 to km.2.243.docx



13. Superintending Engineer (GCC) Trichy Lr No 000053/SE/GCC/TRY/AEE/GL/DB/AE/C/F.Mannarpuram UG Cable/ dt 04.01.2024 (Received on 08.01.2024)
14. This office letter NHA/ PD/TRY/NH 38/T-M/TNEB/2024/51 dt 09.01.2024
15. Team Leader, M/s. Upham, Trichy letter no. UPHAM&SAC/TM/NH- 38/2024/1454 dt. 07.02.2024

Sir,

With reference to observations of RO Madurai vide Note 04 (E-224136) dated 24.10.2023, this office vide letter dated 21.12.2023 has returned the proposal of Superintending Engineer (GCC), Trichy to resubmit the proposal with modified drawing duly indicating the laying of Under Ground electrical cable at the shortest width at the crossing location.

2. In this regard, Superintending Engineer (GCC), Trichy vide letter dated 04.01.2024 has resubmitted the proposal seeking permission to lay UG cable along the road from Km 0/000 to Km 2/550 (RHS) in Trichy - Madurai section of NH 38 for a total length of 2521m by which includes laying length of 2181m open trench method & 45m by HDD method at crossing & 295m Overhead line (OHL) between Km 0/000 to Km 2/550 in Trichy Madurai section of NH 38.

3. Team Leader, M/s UPHAM, has inspected the site along with AE, (TLC) TANTRANSOCO, Trichy and submitted report vide letter 07.02.2024 and recommended the proposal with the following conditions vide ref 15th cited.

i. Total laying length of Electrical UG cable is 2771m in both Padalur-Trichy section (250m) and Trichy - Madurai (2521m) of NH 38.

ii. The laying electrical line cable crossing at Mannarpuram round about is proposed with the encasing provision of 200mm dia of HDPE pipe each of 6 Nos.

iii. The road merging to the service road encasing with 160mm dia with 400mm thick concrete before filling of earth with proper consolidation should be followed as per the submitted drawing.

4. In view of recommendation of Team Leader, M/s UPHAM International, the following observations are made,

- i. The 110 KV electrical line underground cable shall be laid at the far edge of the Right of Way without disturbance to the existing service lines, structures, cables, etc., The laying of UG electrical cable shall be done

Handwritten signature



- as per drawing and specifications wherever HDD method has to be adopted.
- ii. The total length of UG electrical cable along the Trichy Madurai section 2226m, out of which is 2181m by open trench & 45m by HDD method
 - iii. There should not be any hindrance to the traffic movement during laying of UG electrical cable.
 - iv. In case of improper restoration after laying, BG shall be forfeited.
 - v. The works shall be carried out strictly as per the drawing submitted by applicant. Performance BG towards restoration charges for Rs.13,60,000/- as per Ministry Circular shall be furnished by the applicant and the applicant shall Pay Rs. Rs. 1,16,33,664 /- towards license fee for 5 Years.
 - vi. a) The Restoration charges and License Fee for laying OFC line along and crossing of NH 38, is detailed below is arrived that, as per Ministry letter no. RW/NH-33044/27/2005/S&R @ dt.6/7.08.2013, MORT&H circular no.H-39011/ 16/2012-P&P dt.02.04.2014 Ministry letter no.RW/NH-33044/29/2015/S&R @ dt.22.11.2016 and CGM (T) & RO Chennai Lr. No. NHAI/11019/16/2011/RO Chennai/1187 dt.20.03.2017. Based on the CGM (T) & RO Chennai instruction dt.11.11.2017 the highest prevailing guideline rate of the village adopted as under

License fees for Public utility									
Utilized NH Land Area X Prevailing Circle Rate of Land Per Unit Area X 1.5% per annum.									
S.no	Village	Chainage		Side	Length	Width of Single circuit HT line (in meter)	Utilized NH land area (sq.m)	Prevailing circle rate of land per unit area (Sq.m) (Rs.)	License fee per month (private utility (Rs.)
		From	to						
UG Cable									
1	Ward L	0.000	2.255	RHS	2226	1.2	2671.2	32295	12,93,996
Over Head Line									
3	Ward L	2.255	2.550	RHS	295	5	1475	32295	7,14,527
	Total				2521				Rs.20.08.523

License Fee per annum = Rs. 20,08,523/-



License Fee for 1 st year	Rs. 20,08,523
License Fee for 2 nd year	Rs. 21,29,035
License Fee for 3 rd year	Rs. 22,56,777
License Fee for 4 th year	Rs. 23,92,184
License Fee for 5 th year	Rs. 25,35,715
Total License Fee for 5 Years	Rs. 1,13,22,234/-

b) The amount of performance BG has been calculated in line with the MoRT&H policy guidelines dt.22.11.2016 as detailed below:

Total area of land to be utilized - 2226Rm (UG) +295Rm (OHT)
 Rate of performance BG for UG cable -Rs.500/- per Rm
 Amount (2226*500) - Rs.11,13,000/-(1)
 1 No of Crossing - Rs. 1,00,000/- (2)

Rate of Performance BG for OHT:

Area to be Utilized - 295*5 (5m is width of Cross arm) = 1475 Sq m
 amount of BG(1475*100) - Rs. 1,47,500/- (3)
 Total amount of BG (UG+OHL) (1+2+3) - Rs. 13,60,500/-

In view of the above, the proposal submitted by Superintending Engineer (GCC), Trichy vide letter dt. 04.01.2024 seeking permission to lay 110KV underground cable along the road from km. 0/00 to km.2/550 (2521m) including OHT for a length of 295m in Trichy - Madurai section of NH 38, may be considered for according in - principle approval.

Yours faithfully,

Encl: Proposals - 3 sets (2 Original +1 copy)

A.N. Praveen Kumar
 14/12/24

(A.N. Praveen Kumar)
 DGM (T) & Project Director

Copy to:

- The Superintending Engineer (GCC), Trichy for information.
- The Team Leader, M/s. Upham, Trichy for information.