



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 प्लाजा, संख्या-1, लेक एरिया, मेलूर मेन रोड, माटुठावनी, 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/15018/4.3/04/2024/RO Madurai/E-256332/1134

7th August, 2024

INVITATION OF PUBLIC COMMENTS

विषय: भाराराप्रा - क्षे.का. मदुरै- पकाई, कराइकुडी - Providing 0.64 MLD water supply to TNUHDB project laying of underground water pipeline along NH-536 of Thirumayam- Karaikudi section from Km 10/ 650 to Km 15/500 (LHS) (Total=4.85 Km) by Open Trench method and across the road at Km 10/650 and Km 14/450 by Trenchless method - Invitation of Public Comments -Reg.

प्रसंग : PD, Karaikudi Lr. no. 11035/27/2024-PIU KKDI/E-256332/1151 dated 29.07.2024.

The Proposal is regarding permission for laying of underground water pipeline along NH-536 of Thirumayam- Karaikudi section from Km 10/ 650 to Km 15/500 (LHS) (Total=4.85 Km) and across the road at Km 10/650 and Km 14/450 in the State of Tamil Nadu by Executive Engineer, TWAD Board, Project Division, Karaikudi which has been submitted to this office by the PD, PIU, Karaikudi vide Lr. no. 11035/27/2024-PIU KKDI/E-256332/1151 dated 29.07.2024 in accordance with Ministry's latest guidelines dated 22.11.2016.

2. The alignment proposed by Executive Engineer, TWAD Board, Project Division, Karaikudi for laying of underground water pipeline along NH-536 of Thirumayam- Karaikudi section from Km 10/650 to Km 15/500 (LHS) (Total=4.85 Km) by Open Trench method and across the road at Km 10/650 and Km 14/450 by Trenchless method is as detailed under:

Stretch in Km	Length (m)	Dia of the Pipeline	Available ROW (in m)		Distance of pipeline from C/L (in m)		Remarks
			LHS	RHS	LHS	RHS	
Along NH-536: Km 10/650 to Km 15/500 (LHS)	4850	150 mm Dia DI Carrier Pipe	36	24	35.5	-	Laying of pipe line along the extreme edge of ROW at a distance of 0.5 m from the ROW edge.
Across NH-536:	60	300mm Dia	36	24	-	-	Laying of pipe line across the road by HDD

Handwritten signature

Page 1 of 2

NHAI/15018/4.3/04/2024/RO Madurai/E-256332/ 1134

7th August, 2024

1. Km 10/650		casing				Method at a minimum
2. Km 14/450		with 150				depth of 1.2 m from
		mm Dia				top of the subgrade.
		DI Carrier				
		Pipe				

3) The Right of Way is 60 m in the aforesaid stretch. Executive Engineer, TWAD Board, Project Division, Karaikudi has proposed for laying of underground water pipeline along NH-536 of Thirumayam- Karaikudi section from Km 10/ 650 to Km 15/500 (LHS) (Total=4.85 Km) by Open Trench method and across the road at Km 10/650 and Km 14/450 by Trenchless method in the State of Tamil Nadu which is in conformity with Ministry's guidelines dated 22.11.2016.

4) Executive Engineer, TWAD Board, Project Division, Karaikudi has furnished an Undertaking to the effect that the applicant will move the laid water pipeline in future if required by NHAI at any time for expansion of the NH at their own cost without claiming any compensation from NHAI. Further, mentioned that Executive Engineer, TWAD Board, Project Division, Karaikudi will also undertake not to damage any other utility, if damaged, will pay the losses either to NHAI or to the concerned agency.

5) As per the guidelines issued by the Ministry vide letter No. RW/NH-33044/29/2015/ S&R(R) dated 22.11.2016, the proposal submitted by the applicant will be made available for public comments and the comments is invited within 30 days from the day of uploading.

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

मेहेंद्र मीना
07/08/24

(महेन्द्र मीना) Mahendra Meena)

प्रबंधक (तक) 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, Karaikudi - for information.

List of Correspondences							
Receipt No. / Issue No.	Subject	Type	Marked As	Attached On	Issued On	Pages	Remarks
1024665/2024/PIU - Karaikudi	NHAI – PIU, Karaikudi – Providing 0.64 MLD water supply to TNUHDB project laying of underground water pipeline along NH-536 of Thirumayam- Karaikudi section from Km 10+ 650 to Km 15+500 (LHS) total=4.85 Km by open trench method and cross the road at Km 10+650 and Km 14+450 and by trenchless method– Proposal submitted – Approval – Requested – Reg	Receipt		29/07/2024 05:47 PM		1-51	-



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)

National Highways Authority of India

(Ministry of Road Transport & Highways, Government of India)

उप महाप्रबंधक (तकनीकी) सह परियोजना निदेशक के कार्यालय

परियोजना कार्यान्वयन इकाई - करैकुडी

Office of the Deputy General Manager (Tech) & Project Director
Project Implementation Unit - Karaikudi

नं.1, दूसरी मंजिल, सुब्रमण्यपुरम तीसरी स्ट्रीट, करैकुडी - 630 002

No. 1, 2nd Floor, Subramaniapuram 3rd Street, Karaikudi - 630 002

दूर / Tele : +91- 4565 230707 ई-मेल / E-mail : karaikudipiu@gmail.com, karaikudi@nhai.org



11035/27/2024- PIU KKDI/E-256332/1151

29th July 2024

To

The Regional Officer,
National Highways Authority of India,
Regional Office, Madurai.

Sir,

Sub: NHAI - PIU, Karaikudi - Providing 0.64 MLD water supply to TNUHDB project laying of underground water pipeline along NH-536 of Thirumayam- Karaikudi section from Km 10+ 650 to Km 15+500 (LHS) total=4.85 Km by open trench method and cross the road at Km 10+650 and Km 14+450 and by trenchless method- **Proposal submitted - Approval - Requested - Reg.**

- Ref:
1. The Executive Engineer, TWAD Board, Project Division, Karaikudi, Lr. No. F. Deposit work/NHAI/JDO/2024 Dated 22.06.2024.
 2. The Authorized Signatory, M/s.L.N.Malviya Infra Projects Pvt. Ltd, Bhopal, Lr.No.: LNMIPPL/PO/PD/NHAI/T-K/2024-25/570, dt: 22.07.2024 (received on 26.07.2024).

It is submitted that the Executive Engineer, TWAD Board, Project Division, Karaikudi vide reference 1st cited has submitted the proposal for seeking permission for laying of 150mm dia DI water supply pipeline along the Road from Km.10/650 to Km.15/500 (LHS) by Open Trench method and Across the Road at Km.10/650 & 14/450 by Trenchless method by encasing through 300mm dia MS Pipe of Thirumayam - Karaikudi section of NH-536 Road for a length of 4850 meters.

2. The same has been forwarded to the Supervision Consultant to offer their comments & recommendations. The Authorized Signatory, M/s.L.N.Malviya Infra Projects Pvt. Ltd, Bhopal vide reference 2nd cited has verified and confirmed that the submitted proposal is found to be in order and recommended for according approval.

3. On scrutiny of the proposal, the following details are submitted:

- a) The Executive Engineer, TWAD Board, Project Division, Karaikudi has proposed the laying of 150mm dia DI water supply pipeline along the Road from Km.10/650 to Km.15/500 (LHS) by Open Trench method and Across the Road at Km.10/650 & 14/450 by Trenchless method by encasing through 300mm dia MS Pipe of Thirumayam - Karaikudi section of NH-536 Road for a length of 4850 meters.
- b) The width of the Existing ROW is 60 m.
- c) The strip plan showing the details of the proposed laying of the water supply pipeline and the necessary checklist are furnished along with the proposal.
- d) The Executive Engineer, TWAD Board, Project Division, Karaikudi has given an undertaking that they will relocate pipelines/utilities at their cost notwithstanding

Corporate Office : G-5 & 6, Sector-10, Dwarka, New Delhi - 110 075. Tel : 011-2507 4100 / 2507 4200 Website : www.nhai.gov.in

Regional Office : 2nd & 3rd Floor, Vijay Krishna Plaza No.1 Lake Area, Melur Main Road, Mattuthavani, Madurai - 625 107. Ph: +91 452-2588999 E-mail: romadurai@nhai.org

File No. PROJ-26016(59)/8/2024-PIU Karaikudi (Computer No. 256332)


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National Highways Authority of India

the permission granted within such time as stipulated by NHAI for future 4 laning or any other development.

- e) The Executive Engineer, TWAD Board, Project Division, Karaikudi has given an undertaking on non-judicial stamp paper, that they will pay the fee/rent as mentioned in the MoRT&H Guidelines / Circular No.RW/NH-33044/29/ 2015/S&R (R) dated 22.11.2016 as and when asked by NHAI.
 - f) The track rent and restoration charges to be collected from the agency are calculated as per the MoRT&H Guidelines / Circular No.RW/NH-33044/29/ 2015/S&R (R) dated 22.11.2016.
 - g) The cost of restoration charges for the laying of the water supply pipeline is worked out as **Rs.6,85,000/- (Rupees Six Lakh Eighty-Five Thousand only)** for which the applicant is required to furnish the BG having validity up to one (1) year as per the Annexure-I.
 - h) The track rent to be collected for laying of the water supply pipeline along the road is worked out for five years as **Rs.56,371/- (Rupees Fifty Six Thousand Three Hundred and seventy One Only)** for which the applicant is required to be remitted in Bharatkosh Portal valid for upto Five (5) years period as per the Annexure-II.
 - i) The statement showing the list of utility services already approved by the Competent Authority is enclosed as Annexure-III.
 - j) Certificate by the undersigned is enclosed as Annexure-IV.
 - k) The site will be restored to the original condition by the utility department itself.
4. In view of the above, it is requested that the necessary permission may please be granted to the Executive Engineer, TWAD Board, Project Division, Karaikudi for laying of 150mm dia DI water supply pipeline along the Road from Km.10/650 to Km.15/500 (LHS) by Open Trench method and Across the Road at Km.10/650 & 14/450 by Trenchless method by encasing through 300mm dia MS Pipe of Thirumayam - Karaikudi section of NH-536 Road for a length of 4850 meters in the state of Tamil Nadu at an early date.

Encl: 1 No. of Original Proposal with references.

Yours faithfully,

 (B. Arun Prasad)
 DGM(T) & Project Director
 NHAI, PIU, Karaikudi

Copy to: The Executive Engineer, TWAD Board, Project Division, Karaikudi.

National Highways Authority of India

ANNEXURE-I

Performance security against the restoration work for laying of 150mm dia DI water supply pipeline along the Road from Km.10/650 to Km.15/500 (LHS) by Open Trench method and Across the Road at Km.10/650 & 14/450 by Trenchless method by encasing through 300mm dia MS Pipe of Thirumayam - Karaikudi section of NH-536 Road for a length of 4850 meters.

Sl. No.	Description	Length in mtrs.	
A.	Laying of water supply pipeline along the road by Open Trench Method		
	Km.10/650 - 15/500	=	4850
	Total Length	=	4850
	Cost of Restoration Charges @ Rs.100.00 per running meter (4850 x 100)	=	485000
B.	Laying of water supply pipeline across the road by HDD Method		
	Cross the road @ Km.10/650 & 14/450 (2 Locations)	=	2
	Cost of Restoration Charges @ Rs.1,00,000/- per Crossing (2 x 100000)	=	200000
Grant Total			685000
Say Rs.6.85 Lakhs			


B. ARUN PRASAD
 DGM(T) & Project Director
 National Highways Authority of India
 PIU - KARAİKUDI

National Highways Authority of India

LICENSE FEES FOR PRIVATE UTILITY (OFC) (Rs/Sqm/Month)

Utilized NH Land area X Prevailing Circle Rate of Land per Unit area X 1.5% per annum

ANNEXURE-II

SL. NO	NAME OF VILLAGE	CHAINAGE IN KM		SIDE	LENGTH (L) (in mt)	DIA OF THE PIPE (D) (m)	UTILIZED NH LAND AREA (D x L) (sq.m)	PREVAILING CRICLE RATE OF LAND PER UNIT AREA (sq.m) (Rs)	LICENSE FEE (PRIVATE UTILITY) (Rs)
		FROM	TO						
i	Along the road								
1	Thiruvelangudi	10.650	15.396	LHS	4746	0.15	711.90	605.00	6460.49
2	Kalanivasal	15.396	15.500	LHS	104	0.15	15.60	4845.00	1133.73
TOTAL					4850.00		727.50		7594.22
License Fee for 5 years (except OFC road crossing locations)									37971.11

Minimum License Fee 10000


Add: 6% per annum for 2 year 600.0 10600

Add: 6% per annum for 3 year 636.0 11236

Add: 6% per annum for 4 year 674.2 11910

Add: 6% per annum for 5 year 714.6 12625

Minimum License Fee for Public Utility for 5 years 56371 /-


B. ARUN PRASAD
 DGM(T) & Project Director
 National Highways Authority of India
 PIU - KARAIKUDI

National Highways Authority of India

[Enclosure to Ministry Circular No.RW/NH-33044/17/2000-S&R dated 29.09.2000 and dated 23.07.2009]

Format for Maintaining Records of Right-of-Way permission granted for laying OFC Line

(to be maintained separately for every NH and State)

1. Name of State
2. Name of Agency
3. NH Number

TAMIL NADU
: NATIONAL HIGHWAYS AUTHORITY OF INDIA, PIU, KARAIKUDI
: TRICHY - KARAIKUDI SECTION OF NH 210 (NEW NH 336, 36 & 536)

Sr. No.	Location (chainage in km)	Left or Right side of NH (towards increasing chainage / km direction)	Section and reach	Kind of Service	Name of License and contact address	Date of signing agreement	Date of validity of agreement	Date of last inspection of site	Any deviation from MoRTH Standard norms	Remarks
1	Km.10/000 to Km.24/200; Km.28/200 to Km.44/400 (RHS) & from Km.54/800 to Km.63/000 (LHS) and across at Km.24/200; Km.28/200; Km.44/400 & Km.63/000	BHS	Trichy - Karaikudi section of NH 210	OFC	Reliance Jio Infocomm Ltd., Chennai	20.08.2013	20.08.2018	-	-	-
2	Km.28/400 to Km.29/000; Km.29/700 to Km.31/600 & Km.33/400 to Km.34/100 (LHS)	LHS	Trichy - Karaikudi section of NH 210	OFC	Bharathi Airtel Ltd., Chennai	20.08.2013	20.08.2018	-	-	-
3	Km.65/000 to Km.76/400 (LHS) and across at Km.65/000 & Km.76/400	LHS	Trichy - Karaikudi section of NH 210	OFC	DE (Telecom), BSNL, OFC, Madurai	01.07.2014	30.06.2019	-	-	-
4	Km.16/500	Across	Trichy - Karaikudi section of NH 210	OFC	DE (Telecom), BSNL, OFC, Tirunelveli	14.10.2014	13.10.2019	-	-	-
5	Km.28/785	Across	Pudukkottai - Trichy section of NH 336	UG LPG Pipeline	IOCL, Pipelines, Trichy	10.08.2015	09.08.2020	-	-	-
6	Km.71/899 to Km.91/054 (RHS) & Km.76/286 to Km.76/686 (LHS)	LHS	Trichy - Karaikudi section of NH 210	Water Pipeline	Executive Engineer, TWAD Board, Project Division, Karaikudi	23.03.2022	22.03.2027	-	-	-
7	Km.86/800 to Km.91/054 (RHS)	RHS	Trichy - Karaikudi section of NH 210	Water Pipeline	Executive Engineer, TWAD Board, Project Division, Karaikudi	23.03.2022	22.03.2027	-	-	-
8	Across at Km.7/510; Km.8/137; Km.10/290; Km.18/490 & Km.20/400	Across	Trichy - Karaikudi section of NH 210	OFC	General Manager(P-2), TANFINET, Chennai	26.06.2023	25.06.2028	-	-	-
9	Km.87/000 to Km.90/600 (RHS)	RHS	Trichy - Karaikudi section of NH 210	OFC	Bharti Airtel Ltd., Chennai	-	-	-	-	Submission of License Deed & Undertakings, remittance of License Fee and Bank Guarantee to RO on 11.01.2024.
10	Km.20/070 - 20/270 (LHS)	LHS & Across	Pudukkottai - Trichy Section of NH-336	OFC	Jio Digital Fibre Private Ltd	-	-	-	-	Submission of Proposal to RO on 30.05.2024
11	Km.14/400 to Km.18/500 (LHS) and across @ Km.20/350 in Trichy - Karaikudi section of NH 536	LHS & Across	Thirumayam - Karaikudi section of NH-536	OFC	DE (Telecom), BSNL, OFC, Madurai	-	-	-	-	Submission of Proposal to RO on 02.07.2024

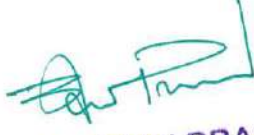
B. ARUN PRASAD
DGM(T) & Project Director
National Highways Authority of India

National Highways Authority of India**ANNEXURE-IV****CERTIFICATE OF THE PROJECT DIRECTOR**

NAME OF THE WORK: -Proposal for laying of 150mm dia DI water supply pipeline along the Road from Km.10/650 to Km.15/500 (LHS) by Open Trench method and Across the Road at Km.10/650 & 14/450 by Trenchless method by encasing through 300mm dia MS Pipe of Thirumayam - Karaikudi section of NH-536 Road for a length of 4850 meters.

It is certified that,

1. The proposal is found in order as per the Ministry Circular.
2. The proposal if implemented will not affect design stability & traffic safety.
3. The proposal if approved will be entered in the register for records of permission.
4. The proposal for crossing if implemented will be affected due to the widening of the road in the future. Further, the Executive Engineer, TWAD Board, Project Division, Karaikudi has given an undertaking that they will relocate water pipelines at their own cost notwithstanding the permission granted within such time as stipulated by NHAI for future development.


B. ARUN PRASAD
DGM(T) & Project Director
National Highways Authority of India
PIU - KARAİKUDI

TAMILNADU WATER SUPPLY AND DRAINAGE BOARD**From**

Er.S.Nirmala, B.E.,
Executive Engineer,
TWAD Board, Project Division,
Karaikudi.

To

The Deputy General Manager (T) Cum Project Director,
National Highways Authority of India
Project Implementation Unit,
Karaikudi.

PIU - KARAIKUDI	
DATE : 22.06.24	
DIARY No : 813	
FD	
MDR (TECH)	
DY.MGR (TECH)	
ACCT.	
AD	
SECTION	

Lr. No. F. Deposit Work/ NHAI / JDO / 2024 Dated: 22.06.2024

Sir,

Sub: TWAD Board - Providing 0.64 MLD Water Supply to TNUHDB Project Laying of Under Ground Water Pipe line Along NH – 536 Thirumayam - Karaikudi (NHAI) from KM 10+650 to 15+500 (LHS) Total = 4.85 Km by Trench method and Across the road at 10+650 & 14+450 by Trenchless method– Proposal Submitted –Approval requested - reg.

X-X-X

I Submit herewith the proposal for laying of 150mm dia DI Water pipeline Along NH – 536 Thirumayam - Karaikudi (NHAI) from KM 10+650 to 15+500 (LHS) Total = 4.85 Km by Trench method and Across the road at 10+650 & 14+450 by Trenchless method.

In this Connection it is proposed to lay the pipeline along and across the road. Necessary Performa, Detailed Drawing and check list also enclosed.

I request that necessary permission may please be issued, so as to enable to lay the pipe along and across the NH – 536 Thirumayam – Karaikudi Road (NHAI) and the restoration charges may please be intimated for making the payment.

Encl: Original Proposal- 2 Nos + Copy of Proposal – 2 Nos.

S. Nirmala
Executive Engineer,
TWAD Board, Project Division,
Karaikudi

22/6/24

SE-1
Approved
no

4



L.N. MALVIYA INFRA PROJECTS PVT. LTD.

Registered Office : Plot No. 29, F/F Sector-11, Dwarka, New Delhi - 110078

Corporate Office : T-10, IIIrd Floor, City Centre, Press Complex,

Plot No. 1, M.P. Nagar, Zone-I, Bhopal (M.P.) 462011,

Tel./Fax : 0755 - 4295421

E-MAIL : LNMALVIYA@LNINFRA.COM CIN No. : U45201DL2010PTC373715

Mob.: 9826452711, 7773000871, 9977004686, 9617777944 | E-mail : lnmalviya@lninfra.com | Web.: www.lninfra.com

No. LNMIPPL/PO/PD/NHAI/T-K/2024-25/570 **PIU - KARAIKUDI** dt: 22.07.2024

To:

The Project Director,
National Highways Authority of India,
Project Implementation Unit,
No.1,2nd Floor, Subramaniapuram ,3rd Street,
Karaikudi – 630 002 (TN).

DATE : 26/07/2024	
DIARY No : 976	
PD	<input checked="" type="checkbox"/>
MGR (TECH)	<input checked="" type="checkbox"/>
DMGR (TECH)	<input checked="" type="checkbox"/>
ACCT.	<input checked="" type="checkbox"/>
LAO	<input checked="" type="checkbox"/>
SECTION	<input checked="" type="checkbox"/>

J.B-2
3

Sub: Consultancy services for Operation and maintenance of Trichy Bypass on NH-83 (Old 67) from KM 110.016 to KM 135.930; on Trichy – Pudukottai on NH-336 (Old-210) from KM 10.000 to KM 43.600; Pudukottai – Thirumayam on NH-36 (Old-210) from KM 43.600 to KM 66.000 Thirumayam – Karaikudi - Ramanathapuram on NH-536 (Old-210) from KM 66.000 to KM 174.000 in the state of Tamil Nadu –Approval laying of water pipe line along NH-536 of Thirumayam-Karaikudi section from Km 10+ 650 to Km 15+500 (LHS) total=4.85 Km by trench method and cross the road at Km 10+650 and Km 14+450 and by trenchless method.

Ref: 1) 11034/27/2024 - PIU KKDI/870, dated 27.06.2024

2) LNMIPPL/PO/PD/NHAI/T-K/2024-25/554, dated: 11.07.2024

Dear Sir,

With reference to the above cited letter that Authority Engineer has been inspected on 05.07.2024 to laying of water pipe line along NH-536 of Thirumayam- Karaikudi section from Km 10+ 650 to Km 15+500 (LHS) total=4.85 Km by trench method and cross the road at Km 10+650 and Km 14+450 and by trenchless method.

Permission is granting to carry out the activities as it does not affect the road nor the movement of traffic in any way.

Therefore, we are recommend for the approval laying of water pipeline

This is for your information and further action please.

Thanking you and assuring you of our best services.

Yours Sincerely

For M/S L.N.Malviya Infra projects Pvt.Ltd.

In Association with Infratech Solutions & Consultant

(A.K. Saveria)
Authorized Signatory

Corporate Office : ■ Bhopal ■ Indore ■ Mumbai ■ Pune

TWAD BOARD WATER PIPE LINE ROUTE DIAGRAM

SECTION

Laying of water pipe line Along NH – 536 Thirumayam - Karaikudi (NHAI) from KM 10+650 to 15+500 (LHS) Total = 4.85 Km by Trench method and Across the road at 10+650 & 14+450 by Trenchless method

**APPLICANT:
EXECUTIVE ENGINEER
TWAD BOARD,
PROJECT DIVISION,
KARAIKUDI.**

**THE PROJECT DIRECTOR
NATIONAL HIGHWAY AUTHORITY OF INDIA
KARAIKUDI**


PROPOSAL FOR LAYING OF WATER PIPE LINE ALONG NH 536 THIRUMAYAM – KARAİKUDI ROAD (NHAI) FROM KM 10/650 TO 15/500 TOTAL = 4.85 KM BY TRENCH METHOD AND ACROSS THE ROAD AT KM 10/650 AND 14/450 BY TRENCHLESS METHOD

GENERAL TO ACCOMPANY ALL PROPOSALS

GENERAL :

- | | | | |
|-------|---|---|---|
| I. | Whether the site plan is drawn to A scale of 1:2500 or 1:1000 and Enclosed? | : | NTS |
| a. | Whether the details for 100M on either side of the utility laying have been furnished? | : | Yes, furnished |
| b. | Does the site plan shown in full? | : | Yes |
| c. | The NH Boundary line with distance from C/L of the road marked at salient points where the NH land width changing and also at 100M intervals. | : | Yes |
| d. | The berm line with distance from C/L at 100m intervals and also at Salient points of change of width of NH land. | : | Yes |
| e. | C/L of payment and pavement edge line marked distinctly. | : | Yes |
| f. | Medians, If any marked to scale | : | -- |
| g. | The location of the utility line of proposal with chainages showing exact locations and distances from NH C/Ls | : | Yes |
| h. | The existing C/D works with dimensions | : | Shown in the plan. |
| 2) a. | Purpose of the proposal in details | : | Providing 0.64 MLD Water Supply to TNUHDB Project of 900 Housing Units in Kalanivasal Village, Sivagangai District from the Industrial Demand Provision available in the ongoing Sivagangai CWSS. |
| b. | Exact location of proposal | : | THIRUMAYAM TO KARAİKUDI ROAD (TOTAL = 4.85 KM)
1. Along the road at NH 536 @ BY Trench Method
Km – 10/650 to Km – 15/500 (LHS) = 4.85 Km (150mm dia DI Pipe). |


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 PIU - KARAİKUDI

2. Road crossing at NH 536 By Trenchless method. (**TOTAL – 2 Nos**)

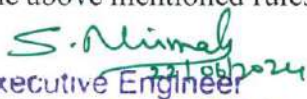
- a) Km – 10/650 (carrying Pipe – 150mm dia DI Pipe & Casing Pipe – 300mm dia MS Pipe).
- b) Km – 14/ 450 (carrying Pipe – 150 mm dia GI Pipe & Casing Pipe – 300 mm dia MS Pipe).

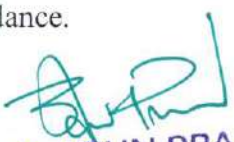
- c. Whether the applicant is private agency / public sector/local body government Department. : Govt. Dept (TWAD Board)
- d. Any time schedule fixed for the completion of the proposal made? : Yes, within 6 Months
- e. Whether any other location other than this not possible: if so the reason therefore. : Yes. There is no route is available other than the proposed
- g. Whether any other location than this should be difficult or costly? : Difficult, there is no other route available for laying of pipe.
- h. Whether this proposal when implemented will affect the design stability and traffic safety or highway? : No.
- I. Whether this proposal in implemented new, will affect likely future improvements such as improvements stagenometrics. : No.
- J. Is there any proposal for improvements in this stretch on likely to be sanctioned in near future and whether they will be effected by this proposal. : No.

Conditions:

- 1) The pipelines should not be laid longitudinally for considerable length along National highways.
- 2) The crossing of pipelines shall be square i.e, should be normal to the National highway.
- 3) Existing drainage structures shall not be used to carry the pipelines across, unless specially permitted by Govt of India.
- 4) Pipelines should be provided with a casing pipe of larger diameter with a 0.30m bedding below the casing pipe, if laid across the road.

The above mentioned rules have been noted for guidance.


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**ANNEXURE FORM TO ACCOMPANY PROPOSAL
SCHEME LAYING UTILITY SERVICES LIKE PIPELINES ALONG AND
ACROSS NATIONAL HIGHWAYS.**

I. LAYING OF UTILITY LINE ALONG NH.

1. Whether the utility line is as close to the extreme edge of the right way as possible if not the detailed reasons for occupation. : Yes
2. Whether the utility line is 15m away from C/L of the nearest carriage way. If no, the reasons therefore (distances should be clearly noted) at salient points and at close intervals : Yes (Laying is proposed as per the availability of ROW)
3. Does the proposal cover the area where the road formation is in double cutting? : No
4. Does the proposal run over existing culverts and bridge given reasons it cannot be avoided : No
5. Will this proposal interfere with the maintenance of NH at any time by its execution if permitted? : No
6. Whether C/S of utility line as runs along NH is given in the drawings? : Yes
 - a. Whether the top of pipe line at least 0.6M below ground level : Yes (1.2m)
 - b. Will it obstruct the drainage of road land : No
7. Is the proposal to lay on electric cable carrying HT line? : No
 - a. If so the necessary certificate by the proposal that it will not have any temerarious effect on any of the bridge components and railway safety for traffic. : Does not arise


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B. **Laying of utility line across National Highways.**

1. Chainage at which it crossed the NH : **1. Road crossing at NH 536 @**
 a) Km – 10/650
 b) Km – 14/450
 c)
2. Does the proposal cross the NH on a line normal to it? Not the reasons therefore and why it cannot be taken normal to road. : Yes, on a line normal to it
3. The proposal for irrigation purpose? if so the concurrence of the Revenue Dept, has been enclosed? : Not Applicable
4. Whether there is any structure existing within 15M from the crossing? If so the details of such structure. : No.
5. The reasons why the crossing cannot be shifted to more than 15m from the existing, structure. : Does not arise

C. METHOD OF CASING PIPES:

- a. Does it pass through special conduits built for this purpose? : Not applicable.
- b. Does it use any of the existing drainage structure? : No
- c. Whether the conduit pipe line has been encased : Not applicable.
- d. Whether the ends of carrying or conduit pipe are sealed from outside so that it may not act as drainage path. : Not applicable.
- e. Does the casing/conduit pipe extent from drainage to drain if this is cut from the toe of slope in case if this is full. : Not applicable.
- f. Whether the top of casing/conduit pipe is 1.2m below the road level. Subject to increase 0.3 M the drains invert. : Yes


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D. METHODS OF LAYING

1. Will the pipe be installed under road embankment by boring or trench method? (In case Roads of dense bituminous concrete roads only boring method should be adopted). : Open Trench Method along the road and Trenchless Method across the road
2. If trench method adopted : Yes
- A. Are the sides of the trench nearly vertical? : Yes
- B. What is width of trench it is not more than 30cm and note more than 60cm? Then the outer dia of the casing Pipe. : Yes
- C. Whether the bedding is on 30cm thick below the pipe. : Yes
- D. Does it consist of granular materials or other good materials to given a firm surface : Good materials to give a firm surface
- F. The above details shown in the sketch : Yes
- G. Whether the back till shall be complete In 2 stage? : Yes
- G. Whether the said fill shall consist of Good materials and whether will be completed to 95% of its proctor's density? : Yes
- H. Whether the road will be restored to its original stage. : Yes
- I. Whether all precautions will be taken during laying. : Yes
- J. Whether the party agrees to meet the Cost of restoring the road to its original position? : Yes, necessary restoration charges will be paid by TWAD Board on demand from NHAI


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CERTIFICATE:

1. This proposal when implemented will not affect the design stability and traffic safety of Highway.
2. This proposal if implemented now will not affect any likely further improvement such as improvement to geometric.
3. There is no proposal for improvements in this stretch likely to be sanctioned near future except six laning.
4. The proposal is in accordance with the Government of India's specifications.


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தமிழ்நாடு தமில்நாடு TAMILNADU 100/-
 9727 EXECUTIVE ENGINEER TWAD BOARD
 22.6.2024 PROJECT DIVISION, KARAIKUDI
 R. சரஸ்வதி
 SRO சென்னை
 9424/ஆ1/87.2
 9-12-87
 தேவகோட்டை

LICENCE DEED FOR LAYING OF WATER SUPPLY PIPES ON NATIONAL HIGHWAY LAND

Agreement to lay water pipeline of 150mm Dia DI Along NH 536 Thirumayam – Karaikudi road (NHAI) from KM 10/650 to KM 15/500 Total = 4.85 km by Trench method and across the road at KM 10/650 and KM 14/450 by Trenchless method.

This Agreement made this _____ day of _____ (month) of _____ year between _____ acting in his executive capacity through the President of India/National Highways Authority of India (hereinafter referred to as the “Authority” which expression shall unless excluded by or repugnant to the context, include his successors in office and assigns) of the one part and Executive Engineer, TWAD Board, Project Division, Karaikudi. (hereinafter called the ‘Licensee’) which expression shall, unless excluded by or repugnant to the context, include his heirs its successors/administrator assignees on the second part.

S. Nimesh
 Executive Engineer
 TWAD Board, Project Division
 Karaikudi

Whereas the Authority is responsible, inter alia, for development and maintenance of lands in Along the road NH 536 Thirumayam – Karaikudi road (NHAI) from KM 10/650 to 15/500 Total = 4.85 km by Trench method and across the road at KM 10/650 and 14/450 by Trenchless method of RoW.


Whereas the Licensee proposes to lay water pipe line / ducts etc., referred to as utility services in subsequent paras.

Whereas the licensee has applied to the Authority for permission to lay water supply pipes Along the road NH 536 Thirumayam – Karaikudi road (NHAI) from KM 10/650 to 15/500 Total = 4.85 km by Trench method and across the road at KM 10/650 and 14/450 by Trenchless method.

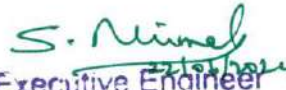
And whereas the Authority has agreed to grant such permission for way leave on the NH RoW as per terms and conditions hereinafter mentioned.

Now this Agreement witness that in consideration of the conditions hereinafter, contained and on the part of the Licensee/Licensees to be observed and performed, the Government/NHAI hereby grants to the licensee/licensees permission to lay water supply pipes as per the approved drawing attached hereto subject to the following condition namely:-

1. RoW permission 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 requirement 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 cause 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 equipments, 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.


Executive Engineer
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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 case 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 utilities 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 service can be allowed beneath the carriageway of service road, if available, subject to the condition that the utility service 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 service shall not interface with the safe and smooth flow of traffic. The cost of operation and maintenance will have to be borne by the Licensee.
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 provide for / landscaped with required safety measures as directed by the concerned Authority;


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 T.WAD Board, Project Division
 Karaikudi

11. The utility service 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 structure 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 - 1.
14. The utility service 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 here-in- 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.
 - 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 bonding 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;


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 Karaikudi

18. 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.
19. 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 designed agency as a security against improper restoration of ground in terms of filling/unsatisfactory compaction damages caused to other underground installation / utility services & interference, interruption , disruption or failure caused there of to any service 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 damage caused by excavation, at the cost of the Licensee and recover the amount by forfeiture of the Bank Guarantee.
20. In case, the Performance Bank Guarantee 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 case 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. Not with standing 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;
21. The Licensee shall shift the utility service within 90days (or as specification by the respective Authority) from the date of issues of the notice by the concerned Authority to shift/relocate the utility services, in case it is so require 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.
22. The Licensee shall be responsible to ascertain from the respective agency in co-ordination with Authority, regarding the Location of other utilities/underground installation/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.
23. 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


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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.

24. 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.
25. Grant of Licensee 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 highways, 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.
26. The Licensee shall inform/give a notice to the concerned agency designated by the Authority at least 15 days 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.
27. Each day, the extent of digging the trenches should be strictly regulated so that utility service is 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.
28. 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.
29. 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.
30. 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.


 Executive Engineer
 T.WAD Board, Project Division
 Karaikudi

31. That the Licensee shall not undertake any work of shifting, repairs or alterations to the utility service without prior written permission of the concerned agency in co-ordination with the Authority.
32. 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.
33. During the subsistence of this Agreement, the utility service 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.
34. The Licensee shall bear the Stamp Duty Charged on this Agreement.
35. Three copies of 'as laid drawings' of utilities (hard and soft copies) with geo-tagged photographs and geo-tagged video recordings of laying of water pipe line 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.
36. The Licensee shall allow free access to the Set 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.
37. 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. Not with standing anything contained herein, this Agreement may be cancelled at any time by Authority for breach of any condition for any loss caused to it by such cancellation not shall it be absolved from any liability already incurred.
38. 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:
 - a. Operation, repair and maintenance guidelines given by the manufacturers,
 - b. The requirements of Law.
 - c. The physical conditions at the site, and
 - d. The safety of operating personnel and human beings.


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 TWAD Board, Project Division
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39. The Licensee shall have to provide safety measure like barricading, danger lighting and other necessary caution boards while executing the work.
40. While laying utility service, 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 Licensee.
41. 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.
42. Any disputes in interpretation of the terms and condition 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.
43. For PPP Projects, in case of any financial loss incurred by the respective project concessionaires due to such laying/shifting of utility service by the Licensee, compensation for the same shall be required to be borne by the Licensee in mutual agreement with the respective project concessionaries. MoRT & H/ NHAI/ implementing authorities for the project shall not be liable the concessionaire in any way in this regard.


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TWAD Board, Project Division
Karaikudi

This agreement has been made in duplicate, each on a stamp paper; each party to this Agreement has retained one stamped copy each.

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

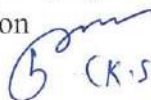

 22/06/2024
Executive Engineer
TWAD Board, Project Division
Karaikudi

Signed by Shri (Name in full) the licensee
 The Constituted attorney of the licensee

Signed by Shri (Name in Full)
 Project Director,
 National Highways Authority of India
 For and on behalf of the President of India

In the presence of

1. Name in full (Signature) with designation
 designation

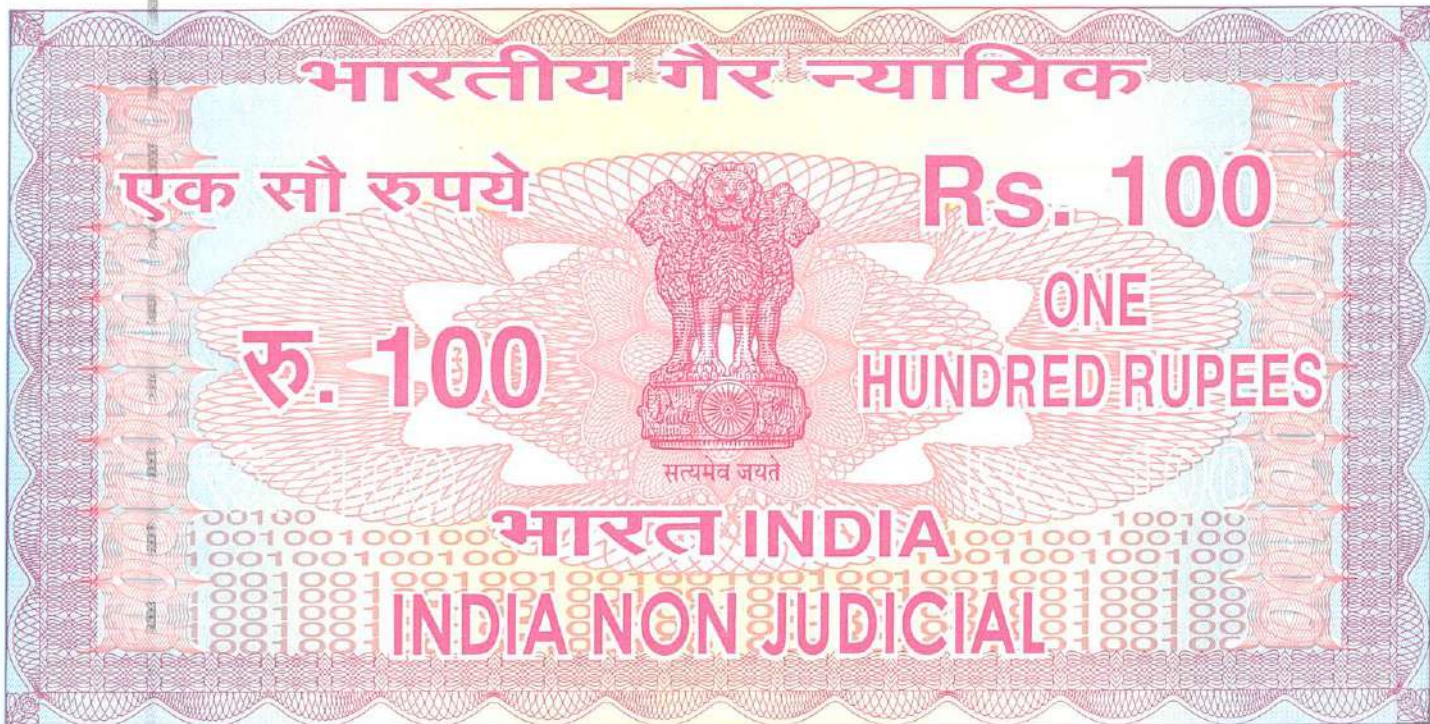

 (K. SARAVANAN)
Assistant Executive Engineer
TWAD Board, Project Sub Division
Karaikudi

2. Name in full (Signature) with designation
 designation


 (B. BALACHANDAR)
Assistant Engineer
TWAD Board, Project Sub Division
Karaikudi

1. Name in full (Signature) with

2. Name in full (Signature) with



தமிழ்நாடு தமில்நாடு TAMILNADU

9723 EXECUTIVE ENGINEER TWARD BOARD
22.6.2024 PROJECT DIVISION, KARAIKUDI

DZ 930778

R. சரஸ்வதி
SRO கவுண்டர்
9424/ஆ 1/87.2
9-12-87
தேவகோட்டை

Sub: Proposal for Laying of water pipe line Along NH 536 Thirumayam – Karaikudi road (NHAI) from KM 10/650 to KM 15/500 Total = 4.85 km by Trench method and across the road at KM 10/650 and KM 14/450 by Trenchless method

Undertaking

- 1) We Undertake not to Damage any other utility, if damaged, we will pay the losses either to NHAI or to the concerned agency
- 2) We undertake to renew the Bank Guarantee if required.
- 3) We Undertake to confirm all standard conditions of NHAI's guidelines.
- 4) We Undertake to Shift of water supply pipe line as and when required by NHAI at our own cost.
- 5) We Undertake to Shift the water supply pipe line due to 4 lanning / widening of NH at a later date.
- 6) We Undertake and Indemnify against all damages and claims as per clause (xxiv)

S. Nirmal

Executive Engineer
TWARD Board, Project Division
Karaikudi

- 7) We undertake to manage the Traffic movement during laying of New water supply pipe line.
- 8) We undertake to accept any claims raised by the Concessionaire if any and the same will be paid by us.
- 9) We undertake to obtain Prior approval of the NHAI before undertaking any work of installation to the showing water supply pipe line located in the National highway right-of-ways.
- 10) We undertake to bear the Expenditure, if any, incurred by NHAI for repairing any damage caused to the National Highway by laying of New water supply pipe line.
- 11) We undertake to move the utility line for any work of improvement or repairs to the road If the NHAI considers if necessary in future, it will be carried out as desired by the NHAI at my cost within a reasonable time (not exceeding 60 days) of the intimation given.
- 12) We undertake to pay the fee /rent as mentioned in the Ministry's Guidelines
Lr. No. RW/NH-33044/29/2015-S&R (R) dated 22.11.2016 as and when asked by NHAI.

Certificate

- (i) I certify that Laying of Water Supply pipe line will not have any deleterious effects on any of the bridge components and roadway safety for traffic.
- (ii) For 4/6 – Lanning “ we do undertake that I will relocate service road/approach road/utilities at my own cost not with standing the permission granted within such time as will be stipulated by NHAI” for future 4/6 – lanning or any other development.


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Karaikudi



கமீழ்நாடு தமிழ்நாடு TAMILNADU
 9722 EXECUTIVE ENGINEER TWAD BOARD
 22.6.2024 PROJECT DIVISION, KARAIKUDI

DZ 930777

R. சர்வவதி
 SRO சென்னை
 9424/ஆ1/87.2
 9-12-87
 தேவகோட்டை

INDEMNITY BOND

Name of the work: Permission for Laying of water pipe line Along NH 536 Thirumayam – Karaikudi road (NHAI) from KM 10/650 to KM 15/500 Total = 4.85 km by Trench method and across the road at KM 10/650 and KM 14/450 by Trenchless method

Indemnity against all damages and claims of SI No 5 & 6 of Checklist.

We the Executive Engineer TWAD Board, Project Division, Karaikudi or in do hereby Indemnity Project Director. NHAI, PIU, binding ourselves to pay all the losses and claims in respect of for Laying of water pipe line Along NH 536 Thirumayam – Karaikudi road (NHAI) from KM 10/650 to KM 15/500 Total = 4.85 km by Trench method and across the road at KM 10/650 and KM 14/450 by Trenchless method

or maintenance, thereof and against all claims, proceeding, damages, Costs, charges and expenses or maintenance thereof and against all claims, proceedings damages, costs, charges and expenses whatsoever in respect thereof, in relation there to, failing such payment of claims in the above work, we abide in accepting for recovery of such claims affected from any of our assets.

The Executive Engineer, TWAD Board, Project Division, Karaikudi

S. Nimal
 Executive Engineer
 TWAD Board, Project Division
 Karaikudi

Annexure-I**Conditions to be enclosed/incorporated in the approval letter for permission for laying of Water Supply pipe line**

1. The Water Supply pipe line shall be located as close to the extreme edge of the right-of-way as possible but not less than 15 meter from the centre-lines of the nearest carriageway.
2. The Water Supply pipe line shall not be permitted to run along the National Highways when the road formation is situated in double cutting. Nor shall these be laid over the existing culverts and bridges without the prior approval of NHAI/Government of India.
3. The Water Supply pipe line shall be so placed that at no time there is interference with the maintenance of the National Highways.
4. These should be so laid that their top is at least 0.6 meter below the ground level so as not to obstruct drainage of the road land.
5. The authority/ owner of the under ground utility shall ensure that laying Water Supply pipe line should not have any deleterious effects on any of the bridge components and roadway safety for traffic.
6. The lines shall cross the National Highways preferably on a line normal to it or as nearly so as practicable.
7. Crossings shall not be too near the existing structures on the National Highway, the minimum distance being 15 meter.
8. The Water Supply pipe line is permitted to cross the National Highway, either encased in pipes or through structure of conduits specially built for that purpose at the expense of the agency owning the line. Existing drainage structures shall not be allowed to carry the lines across.
9. The casing pipe (or conduit pipe in the case of electric cable) carrying the Water Supply pipe line shall be of steel, cast iron, or reinforced cement concrete and have adequate strength and be large enough to permit ready withdrawal of the carrier pipe/cable. Ends of the casing/conduit pipe shall be sealed from the outside, so that it does not act as a drainage path.
10. The casing/conduit pipe should, as minimum extend from drain to drain in cuts and toe of slope toe of slope in the fills.
11. The top pf the casing/conduit pipe should be at least 1.2 meter below the surface of the road subject to being at least 0.3 m below the drain inverts.
12. The casing/conduit pipe may be installed under the road embankment either by boring or digging a trench. Installation by boring method shall only be permitted where the existing road pavement is of cement concrete or dense bituminous concrete type.
13. The casing/conduit pipe shall be installed with an even bearing throughout its length and in such a manner as to prevent the formation of a waterway along it.
14. Open trenching method. (May be allowed in utility corridor only where pavement is neither cement concrete nor dense bituminous concrete type)


Executive Engineer
TWAD Board, Project Division
Karaikudi

- (a) 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 cm wider than the outer diameter of the pipe.
 - (b) Filling of the trench shall conform to the specifications contained herein below.
 - (c) Bedding shall be to a depth of 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 edged should be excavated and replaced by selected material.
 - (d) The backfill shall be completed in two stages (i) side – fill to the level of the top of the pipe and (ii) overfill to the bottom of the road crust.
 - (e) The sidefill shall consist of granular material laid in 15 cm layers each consolidated by mechanical tampering 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.
 - (f) 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 Highways Authority. Care shall be taken to avoid the formation of a dip at the trench.
 - (g) The excavation shall be protected by flagman, signs and barricades, and red lights during night hours.
15. If needed, a diversion shall be constructed at the expense of agency owning the Water Supply pipe line.
 16. Prior approval of the NHAI shall be obtained before undertaking any work of installation, shifting or repairs, or alterations to the Water Supply pipe line located in the National highway right-of-ways.
 17. Expenditure, if any, incurred by the Highway Authority for repairing any damage caused to the National Highway by the laying, maintenance or shifting of the Water Supply pipe line will be borne by the agency owning the Water Supply pipe line.
 18. If the NHAI considers it necessary in future to move the Water Supply pipe line for any work of improvement of repairs to the road, it will be carried out as desired by the Highway Authority at the cost of the agency owning the Water Supply pipe line within a reasonable time (not exceeding 60 days) of the intimation given.
 19. The licensee shall ensure making good the excavated trench for laying Water Supply pipe line by proper filling and compaction, so as to restore the land in to the same conditions 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.
 20. The licensee shall furnish a Bank Guarantee to the NHAI @ Rs50/- per running meter (parallel to NH) and Rs1,00,000/- per crossing of NH, for a period of one year initially (extendable if required till satisfactory completion of work) as a security for ensuring/making good the excavated trench for laying the


Executive Engineer
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- cables/ducts by proper filling and compaction, clearing debris/loose earth produced due to execution of trenching at least 50m away from the edge of the right of way. No payment shall be payable by the NHAI to the licensee for clearing debris/loose earth.
21. In case the work contemplated herewith is not completed to the satisfaction of the NHAI, 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. In case of the licensee failing to discharge the obligation of making good the excavated trench, the NHAI shall have a right to make good the damages caused by excavation, at the cost of the licensee and recover the amount by invoking the bank guarantee furnished by the licensee.
 22. The licensee shall shift the Water Supply pipe line within 60 days (or as specified by the respective agency/owner) from the date of issue of the notice by the NHAI, Govt. of India to shift/relocate the Water Supply pipe line, in case it is so required for the purpose of improvement/widening of the road/route/highway or construction of flyover/bridges and restore the road/land to its original condition at his own cost and risk.
 23. Regarding the location of other cables, underground installation/utilities etc, the licensee shall be responsible to ascertain from the respective agency in coordination with NHAI. The licensee shall ensure the safety and security of already existing cables/underground installation/utilities facilities etc. before commencement of the excavation.
 24. The licensee shall be solely responsible/ liable for full compensation/indemnification of concerned agency/aggrieved owner for any direct, indirect or consequential damage caused to them/claims or replacement sought for, at the cost and risk of the licensee. The concerned agency in co-ordination with NHAI shall also have a right to make good such damages/recover the claims by way of invoking of Bank Guarantee furnished by the licensee.
 25. If the licensee fails to comply with the condition 22 and 23 above to the satisfaction of the NHAI, the same shall be got executed by the NHAI at the risk and cost of the licensee.
 26. The licensee shall procure insurance from reputed insurance company against damages to already existing cables/underground installation/utilities/facilities etc during trenching.
 27. The licensee has to cross the NH by horizontal drilling method (trenchless technology only). In case any damage is caused to the road pavement in this process, the licensee will be required to restore the same to the original condition at his own cost.
 28. No trenching will be done on pucca road, boring method will be used in pucca road and Water Supply pipe line will be laid at the extreme edge of the road in the non-BT surface only.
 29. The licensee shall inform/give a notice to the NHAI, Govt. of India or its authorized agency at least 15 days in advance with route details prior to digging trenches for fresh or maintenance/repair work. A separate work plan and a separate performance Bank Guarantee @ Rs50/- per meter length for maintenance/ repair work shall have to be furnished by the licensee.
 30. Each day, the extent of digging the trenches should be strictly regulated so that cables are laid and trenches filled up before the close of the work that day. Filling


Executive Engineer
TWAD Board, Project Division
Karaikudi

- should be completed to the satisfaction of the concerned agency designated by the NHAI.
31. The licensee shall indemnify the concerned agency in co-ordination with NHAI, against all damages and claims, if any, due to the digging of trenches for laying Water Supply pipe line.
 32. The NHAI has a right to terminate the permission or to extend the period of agreement. In case the licensee wants shifting, repairs or alteration to Water Supply pipe line, he will have to furnish a separate bank guarantee.
 33. The licensee shall not without prior permission in writing from the NHAI Govt. of India or its authorized agency undertake any work of shifting, repairs or alterations to the said Water Supply pipe line.
 34. 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.
 35. During the subsistence of this agreement, the laying of Water Supply Pipe Line /ducts located in highway land/property shall be deemed to have been constructed and continued only by the consent and permission of the NHAI so that the right of the licensee to the use thereof shall not become absolute and infeasible by laps of time.
 36. The licensee shall bear the stamp duty charged for the agreement.
 37. The Water Supply pipe line shall not be brought in to use by the licensee unless a completion certificate to the effect that the laying of Water Supply Pipe Line has been laid in accordance with the approved specifications and drawings and the trenches have been filled up to the satisfactions of the concerned agency in co-ordination with the owner has been obtained.
 38. Notwithstanding anything NHAI contained herein this agreement may be cancelled at any time by the or 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.
 39. The licensee shall have to provide barricading, danger lighting and other necessary caution boards while executing the work and during maintenance.
 40. If any traffic diversion works are found necessary during the working period such diversion shall be provided at the cost of licensee.
 41. After the termination/expiry of the agreement, the licensee shall remove the Water Supply pipe line within 60 days and the site shall be brought back to the original condition failing which the licensee will lose the right to remove the cables/ducts. However, before taking up the work of removal of Water Supply pipe line the licensee shall furnish a bank guarantee to the owner for a period of one year for an amount assessed by the owner 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 right of way.
 42. If NHAI is required to do some emergent work the licensee will provide an observer within 24 hours. NHAI will not be responsible for any damage of any kind by what so ever means natural or otherwise.
 43. The enforceability of the Right-of Way permission granted here in shall be restricted to the extent of provisions/scope of service contained/defined in the license agreement and for the purpose for which it is granted. Either by content or by intent, the purpose extending this Right-of Way facility is not to enhance the scope.


 Executive Engineer
 TWAD Board, Project Division
 Karaikudi

44. Strict compliance of the following by the Project Director:

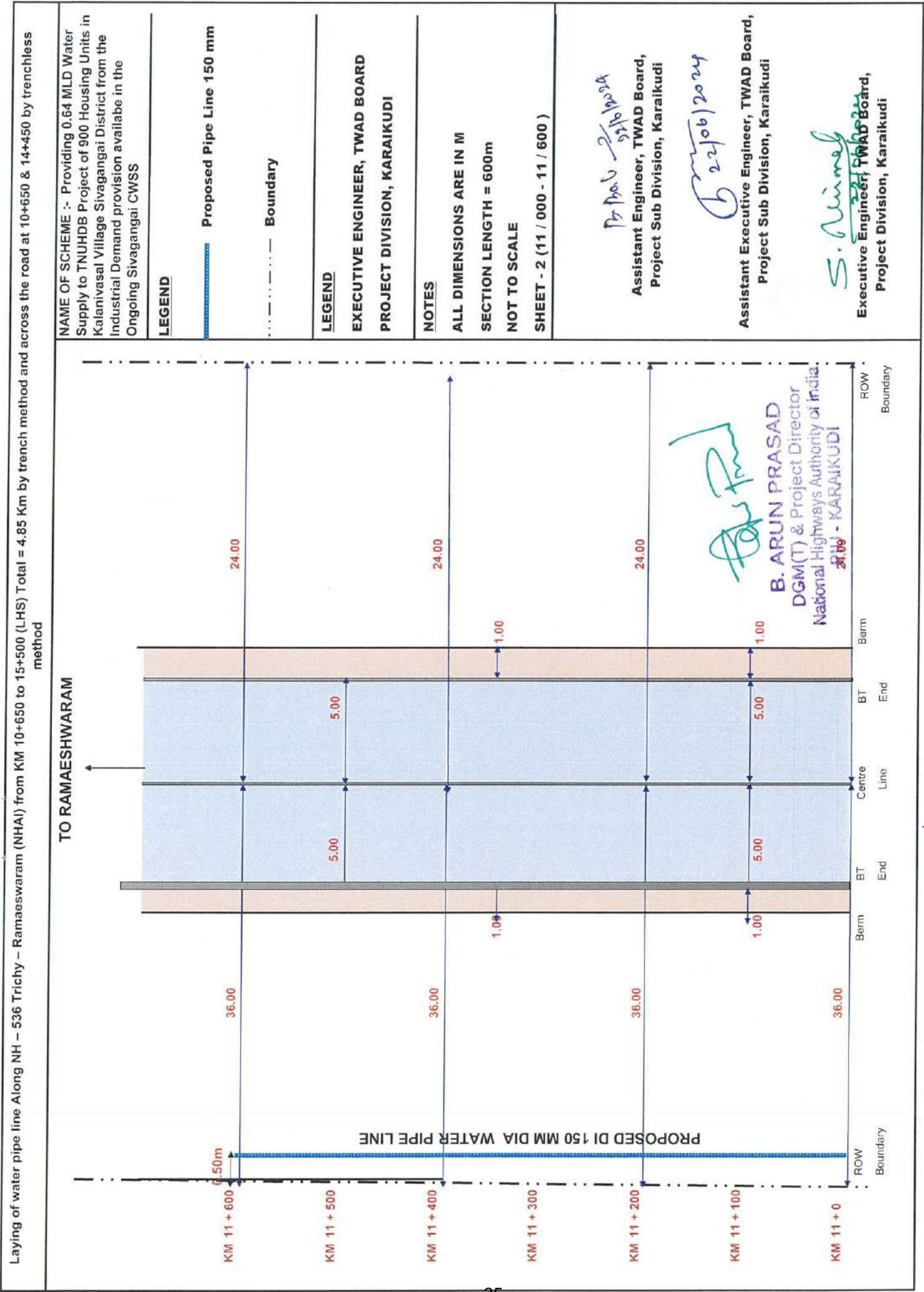
- a) If the licensee fails to inform the commencement of laying of Water Supply pipe line 15 days before the actual start of the work at site the agreement should be null and void.
- b) It is to be intimated to the HQ that, actual work has already been started at the site as per the provision of the agreement and the conditions stipulated in the Ministry Circular No. Ministry Circular No. NH-41 (58)/68 dated 31.1.1969, Ministry Circular No. NH-III/P/66/76 dated 18/19.11.1976, Ministry Circular No. RW/NH-III/P/66/76 dated 11.5.1982, Ministry Circular No. RW/NH-11037/1/86-DOI (ii) dated 28.7.1993, Ministry Circular No. RW/NH-11037/1/86/DOI dated 19.1.1995, Ministry Circular No. RW/NH-34066/2/95/ S&R dated 25.10.1999 and Ministry Circular No. RW/NH-34066/7/2003 S&R (B) dated 17.9.2003.
- c) An interim execution progress report /status report shall be submitted to NHAI HQ after one month of the start of the work at site, regarding the satisfactory progress of the laying of Water Supply pipe, as per the specification/stipulation and the alignment as approved.
- d) The final completion certificate shall be issued/submitted by PD to the HQ to the effect that, the work has been completed to the entire satisfaction of the Project Director and there were no violation of any condition / stipulation contained in the agreement, Ministry Circular No. NH-III/P/66/76 dated 18/19.11.1976, Ministry Circular No. RW/NH-III/P/66/76 dated 11.5.1982, Ministry Circular No. RW/NH-11037/1/86-DOI (ii) dated 28.7.1993, Ministry Circular No. RW/NH-11037/1/86/DOI dated 19.1.1995, Ministry Circular No. RW/NH-34066/2/95/ S&R dated 25.10.1999 and Ministry Circular No. RW/NH-34066/7/2003 S&R (B) dated 17.9.2003. and the approved plan.
- e) To obtain a performance bank guaranty @ Rs. 50/- per running meter of NH and Rs.1,00,000/- per crossing of NH from the licensee to safe guard the interest of NHAI.
- f) A register of records of the permissions accorded has to be maintained by the PD in the prescribed proforma (copy enclosed).
- g) Project Director is authorized to sign an agreement (IN ACCORDANCE WITH THE MODEL AGREEMENT) with the applicant, on behalf of NHAI.


 Executive Engineer
 WAD Board, Project Division
 Karaikudi



Executive Engineer, TWAD Board,
Project Division, Karaikudi

B. ARUN PRASAD →
SMT & Project Director
National Highways Authority of India
PIU - KARAIKUDI ROW :
Boundary





NAME OF SCHEME :- Providing 0.64 MLD Water Supply to TNUHDB Project of 900 Housing Units in Kalanivasal Village Sivagangai District from the Industrial Demand provision available in the Ongoing Sivagangai CWSS

LEGEND

Proposed Pipe Line 150mm

..... **Boundary**

LEGEND

**EXECUTIVE ENGINEER, TWAD BOARD
PROJECT DIVISION, KARAUKUDI**

NOTES

ALL DIMENSIONS ARE IN M

SECTION LENGTH = 600m

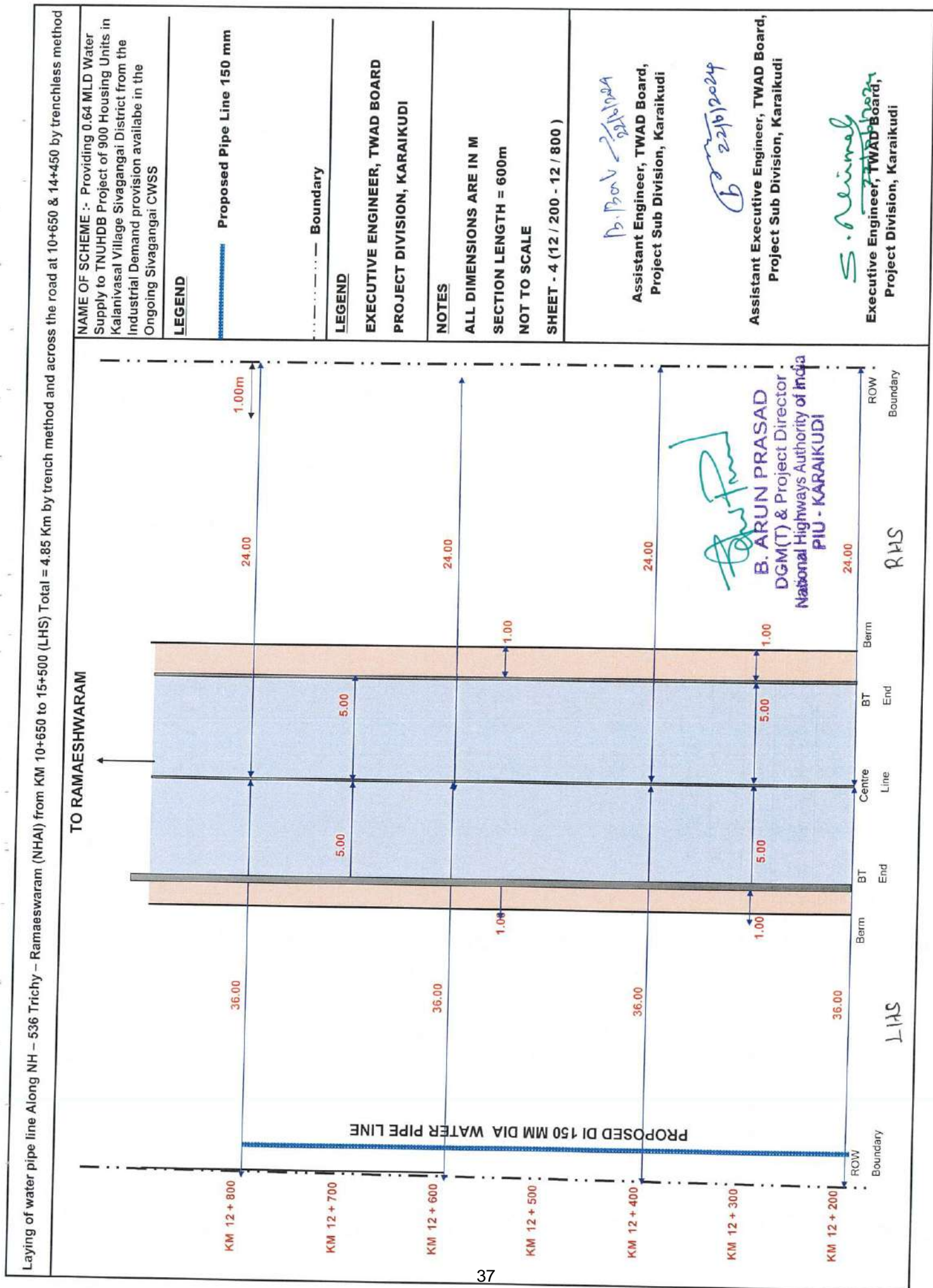
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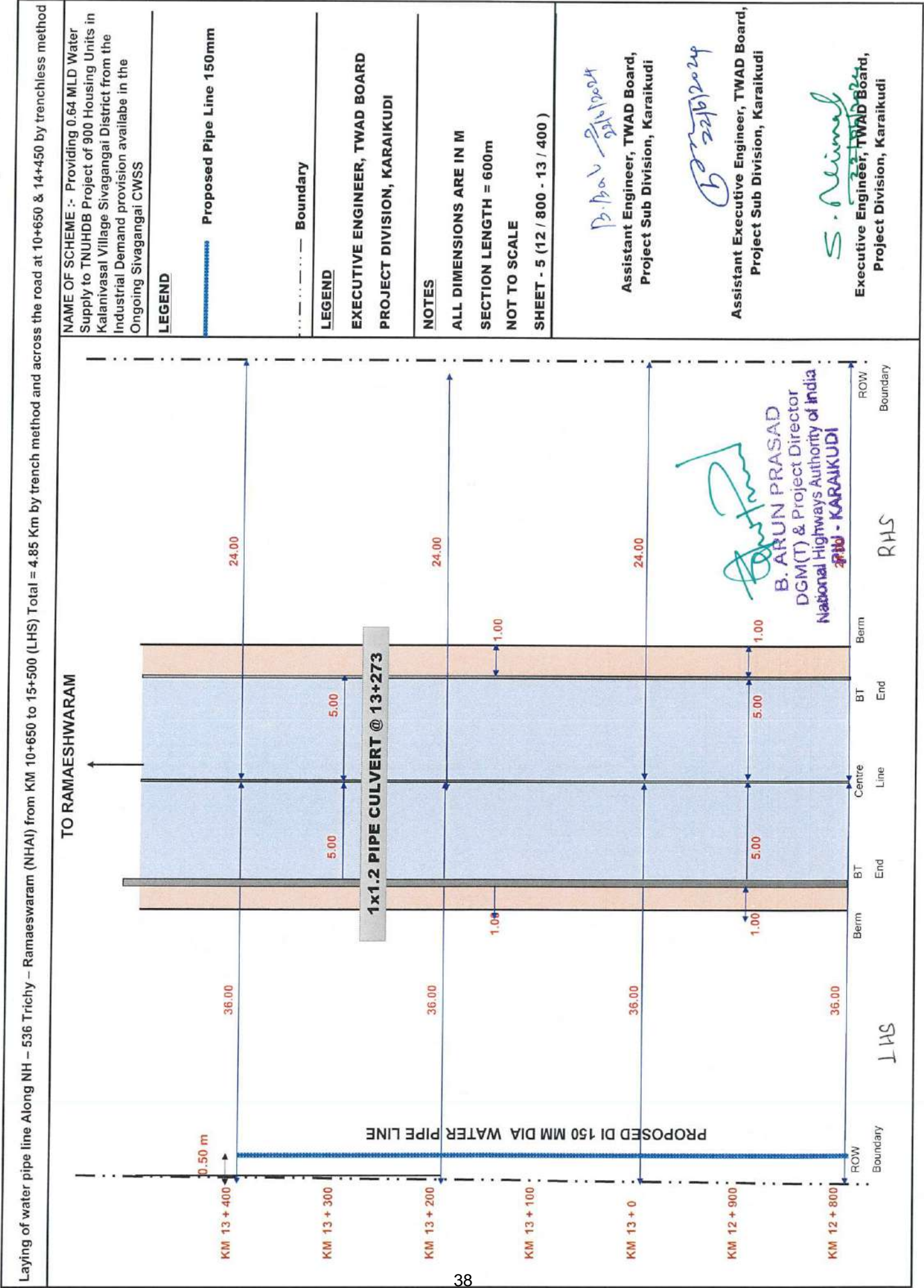
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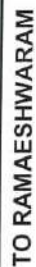
**Assistant Engineer, TWAD Board,
Project Sub Division, Karaikudi**

**Assistant Executive Engineer, TWAD Board,
Project Sub Division, Karaikudi**

S. Nivedha
Executive Engineer, PWAD Board,
Project Division, Karaikudi







LEGEND

Proposed Pipe Line 150 mm

Boundary

LEGEND

**EXECUTIVE ENGINEER, TWAD BOARD
PROJECT DIVISION, KARAIKUDI**

NOTES

ALL DIMENSIONS ARE IN M

SECTION LENGTH = 600m

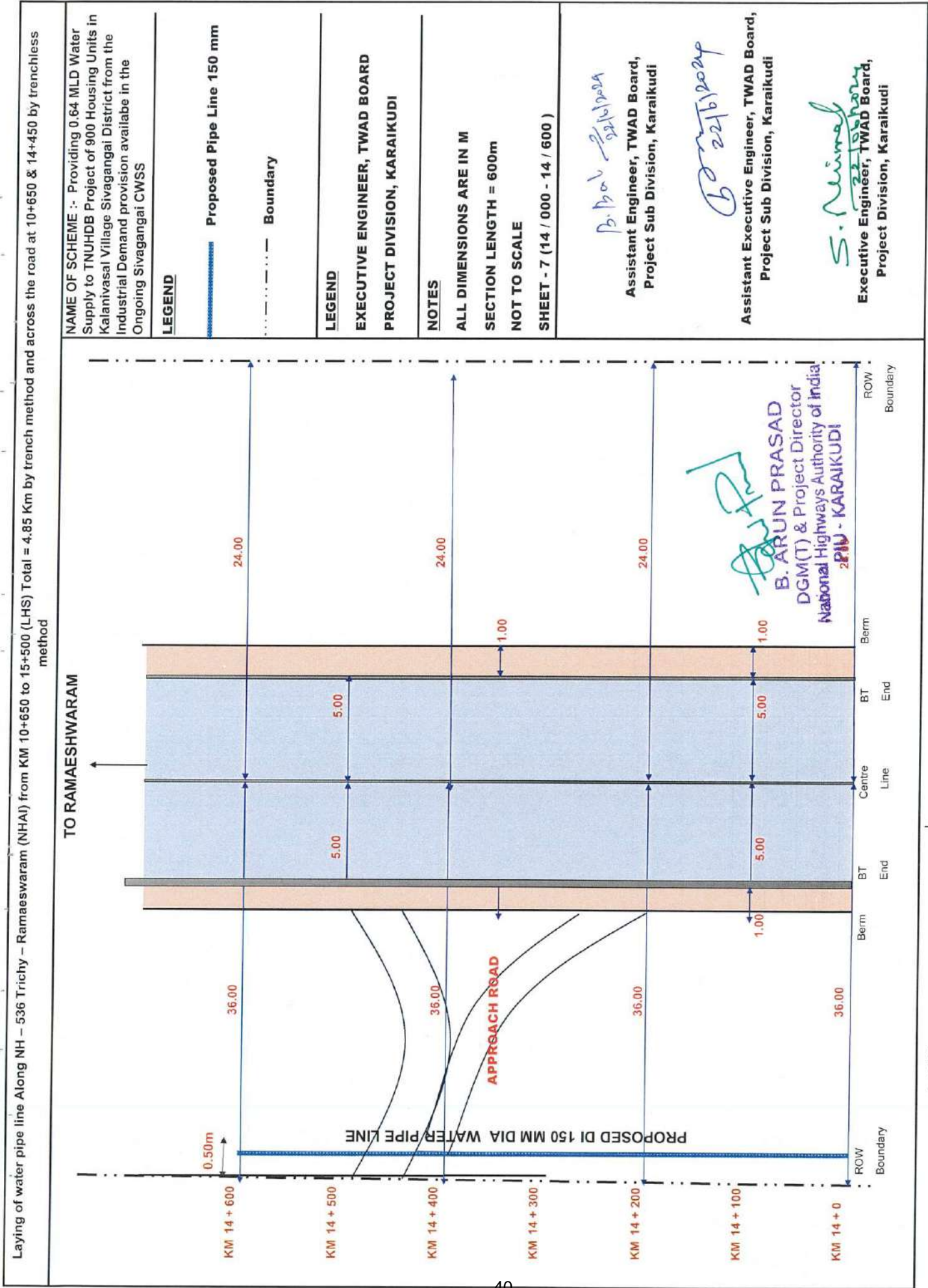
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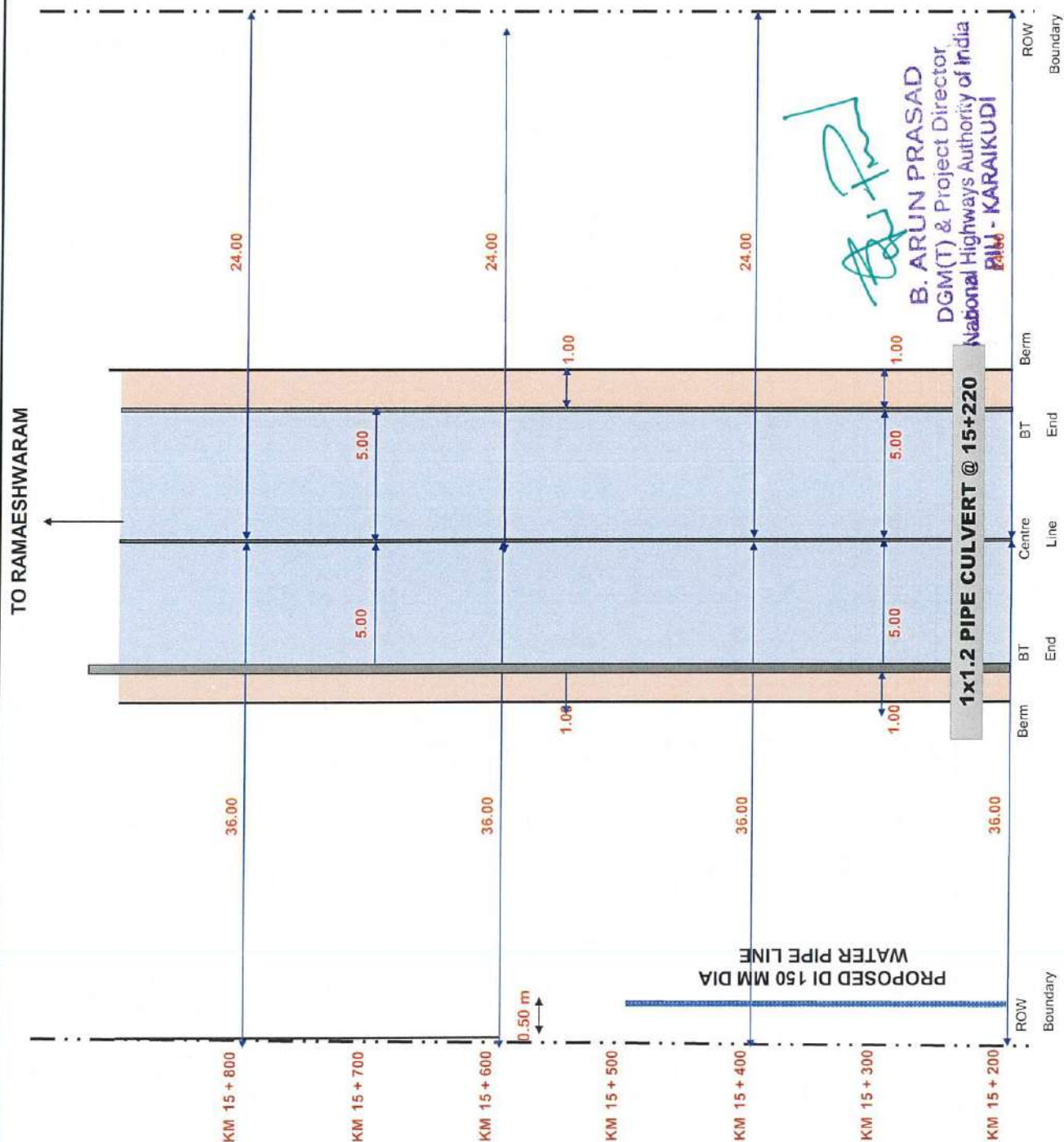
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**Assistant Engineer, TWAD Board,
Project Sub Division, Karaikudi**

**Assistant Executive Engineer, TWAD Board,
Project Sub Division, Karaikudi**

**Executive Engineer, TWAD Board,
Project Division, Karaikudi**



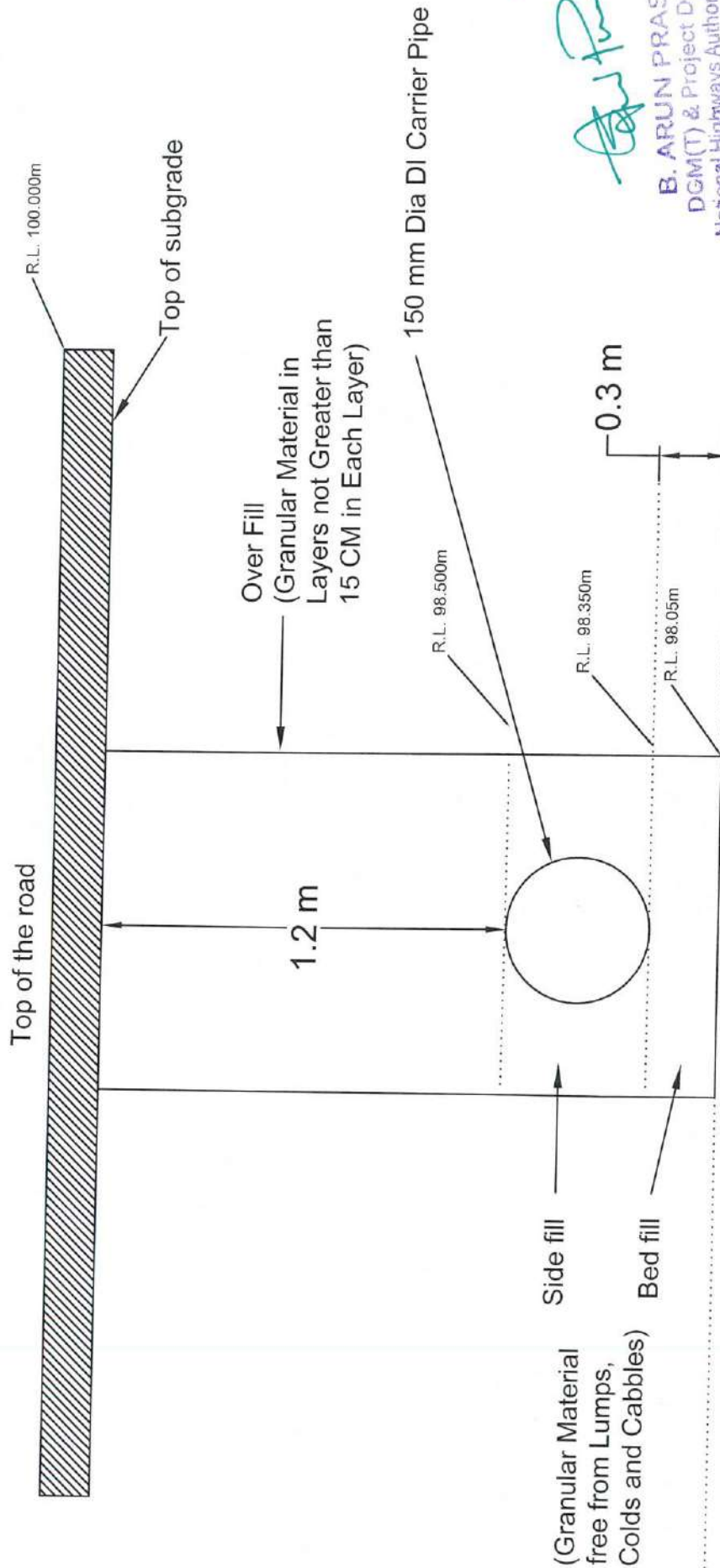


RHS

TO TRICHY

LHS

NH 536- THIRUMAYAM - KARAIKUDI ROAD



B. Arun Prasad
B. ARUN PRASAD
 DGM(T) & Project Director
 National Highways Authority of India
 PIU - KARAIKUDI

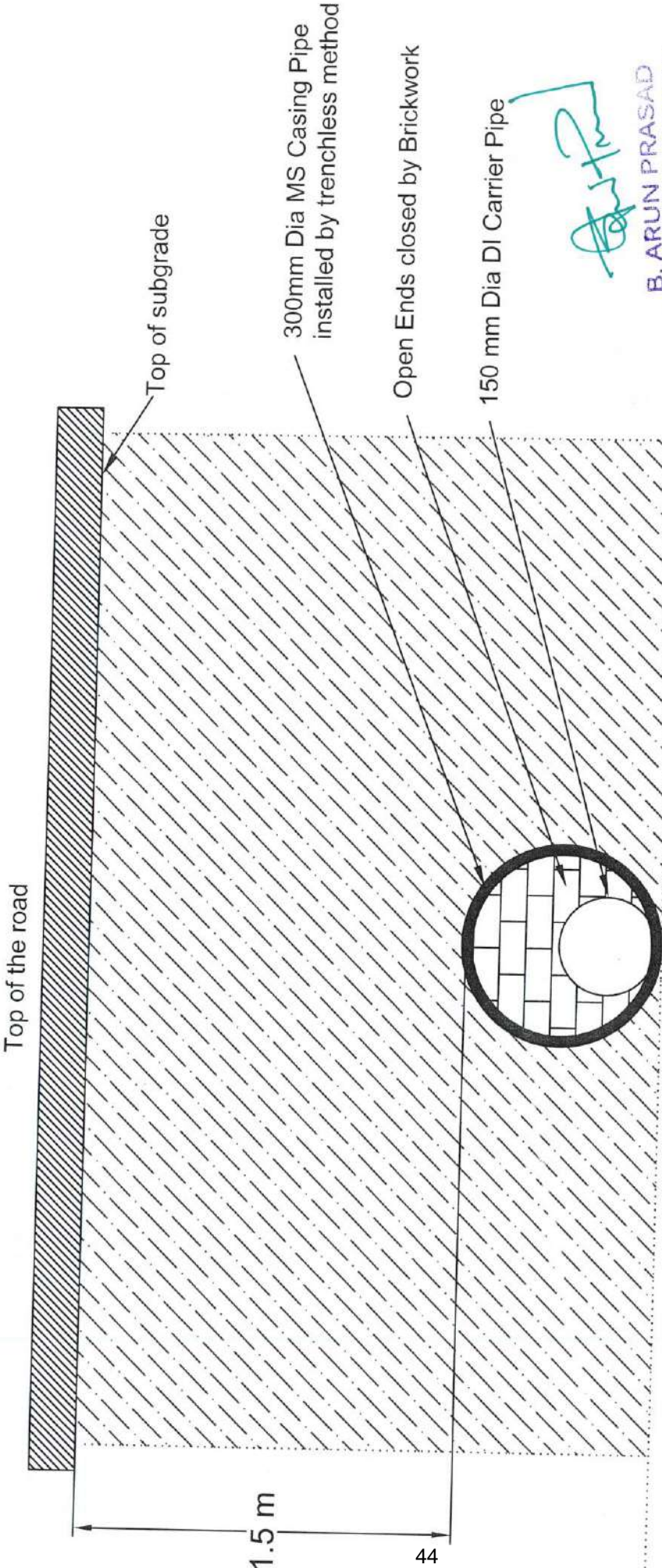
Installation of Carrier Pipe along the road

S. Nirmala
S. Nirmala
 Executive Engineer,
 TWAD Board, Project Division,
 Karaikudi

B. Nirmala
B. Nirmala
 Assistant Executive Engineer,
 TWAD Board, Project Sub Division,
 Karaikudi

B. Nirmala
B. Nirmala
 Assistant Engineer,
 TWAD Board, Project Sub Division,
 Karaikudi

NH 536- THIRUMAYAM - KARAIKUDI ROAD



Installation of Casing Pipe for Across the road

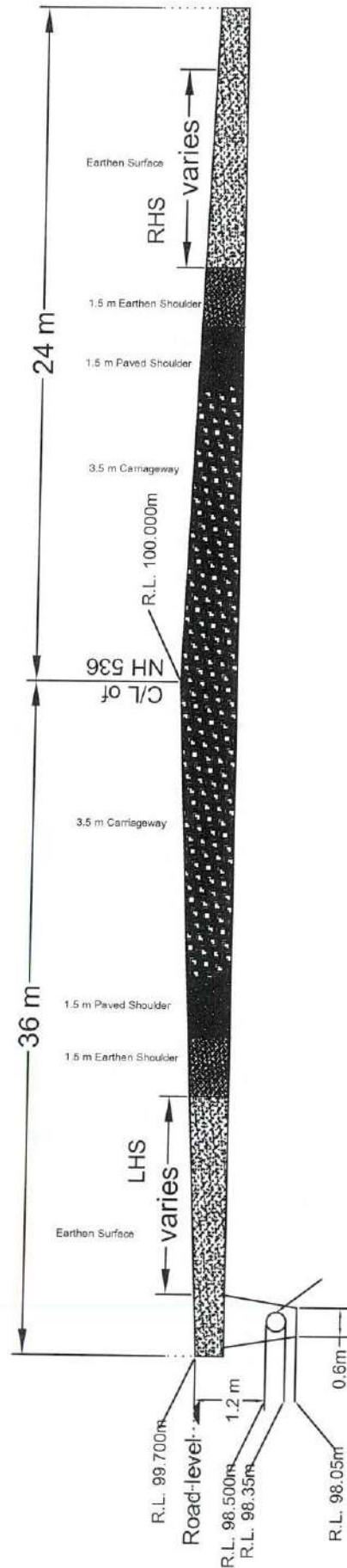
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B. ARUN PRASAD
DGM(T) & Project Director
National Highways Authority of India
PIU - KARAIKUDI

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S. Neel
Executive Engineer,
22/06/2024
TWAD Board, Project Division,
Karaikudi

[Signature]
22/6/2024
Assistant Executive Engineer,
TWAD Board, Project Sub Division,
Karaikudi

[Signature]
22/6/2024
Assistant Engineer,
TWAD Board, Project Sub Division,
Karaikudi

CROSS SECTION DETAILS OF NH 536 THIRUMAYAM - KARAISKUDI ROAD



INSTALLATION OF CARRIER PIPE ALONG THE ROAD FROM KM 10 / 650 TO KM 15/500

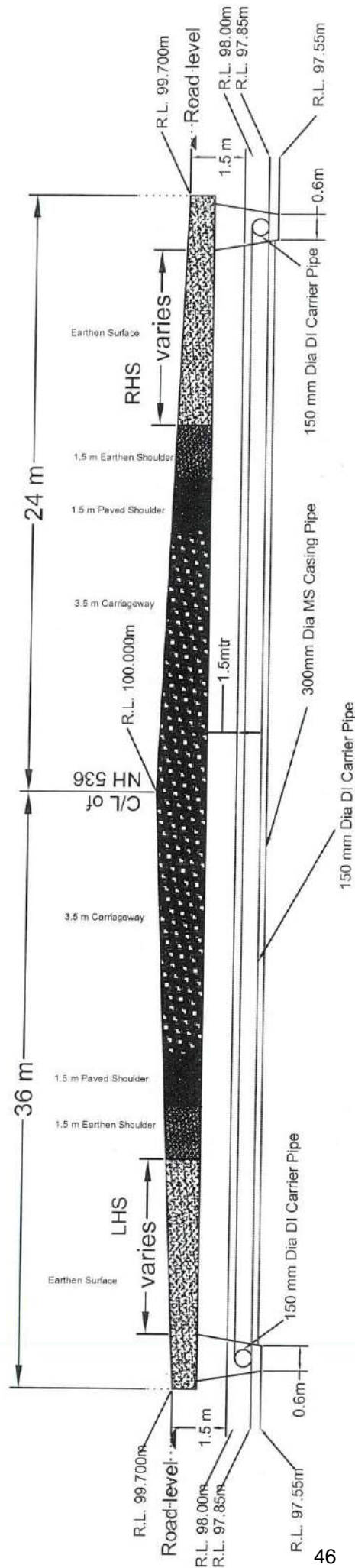
B. ARUN PRASAD
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Assistant Executive Engineer,
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Karaikudi

B. Prab
Assistant Engineer,
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Karaikudi

CROSS SECTION DETAILS OF NH 536 THIRUMAYAM - KARAIKUDI ROAD



46

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B. ARUN PRASAD
DGM(T) & Project Director
National Highways Authority of India
PIU - KARAIKUDI

[Signature]
S. Nivedha
Executive Engineer,
TWAD Board, Project Division,
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B. Arun Prasad
Assistant Executive Engineer,
TWAD Board, Project Sub Division,
Karaikudi

[Signature]
P. Pradeep
Assistant Engineer,
TWAD Board, Project Sub Division,
Karaikudi

Application Details [20240702/1/7/28427/9093]

Highway	NH210 [NH210], NH210 [NH210]
Name of Highway Authority	NHAI Dwarka New delhi
Highway Administration Address	RO-Madurai RO-Madurai
Whether the Fuel Station is part of Rest-area complex	No
Name of Applicant/Oil Company	TWAD BOARD Address: The Assistant Executive Engineer, No.22, Kannadasan Manimandapam Backside, TT Nagar, Karaikudi, SIVAGANGAI (TAMIL NADU), PIN: 630001 Phn: 7708808589 Email: kiruthigasts@gmail.com
Application Category	Public Utility
Utility	Water
State	TAMIL NADU
Type	New
Remarks	Providing 0.64 MLD Water Supply to TNUHDB Project from the ongoing Sivagangai CWSS
Submitted On	02 Jul 2024 19:35:42

10. Proposed Service road		
Left side from center line		0
Right side from center line		0
11. Whether proposal to lay cable is after the service road or between the service road and main carriageway *		N/A
12. Whether carrying OFC Cable has been proposed on highway /bridges, If yes then mention the methodology proposed for the same *		NA
13. Is crossing of the road involved? If Yes, is shall be either encased in pipes or through structure of conduits specially built for the purpose at the expense of the agency owing the line *		Yes , In MS Casing Pipe
I. Whether the existing drainage structures are allowed to carry utility pipeline. *		NA
II. Is it on a line normal to NH? *		Yes
III. What is the distance of crossing the utility pipelines from the existing structure? Crossings shall not be too near the existing structures on the National Highway, the minimum distance being 15 mtrs. *		60.00

I. Where the ROW is more than 45 M then the duct cable shall be laid at the edge of right of way within the utility corridor of 2 M width, duly keeping in view the future widening. *		NA
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 2 M width, on that side of existing carriageway where extra land is not proposed to be acquired for 4 laning. *		Yes
III. Where the widening plan for 4 laning is not yet decided and available ROW is around 30 M or less, a judicious decision would need to be taken for permitting the laying of cable/duct. This could be within 1.5 M to 2m of utility corridor at the edge of existing ROW, duly keeping in view the possible widening plans. *		Yes
IV. Where ROW is restricted and adequate only to accommodate the carriageway, central verge, shoulders and drains (e.g. Highways in cutting through hilly/rolling terrain), the cable shall be laid clear of the drain. *		Yes

(a) The trench width should be at least 30 cms but not more than 60 cms wider than the outer diameter of the pipe *		Yes
(b) For filling of the trench, bedding shall be to a depth of not less than 30 cms. It shall consist of granular material, free of lumps, clods, cobbles and graded to yiled firm surface without sudden change in the bearing value, unsuitable soil and rock edges should be excavated and replaced by selected material *		Yes
(c) The backfill shall be completed in two stages, i) Side fill to the level of the top of the pipe and ii) Overfill to the bottom of the road crust *		Yes
(d) The side fill shall consist of granular material laid in 15 cms, layers each consolidated by mechanical tampering and controlled addition of moisture to 95% of the proctor density. Overfill shall be compacted to the same density as the material that has been removed. *		Yes

a) Undertaking not to Damage to other utility, if damage then to pay the losses either to NHAI or the concerned agency. *		Yes
b) Undertaking Renewal of Bank Guarantee as and when asked by MoRTH. *		Yes
c) Undertaking Confirming all standard condition of Ministry's guidelines. *		Yes
d) Undertaking for indemnity against all damages and claims *		Yes
e) Undertaking for management of traffic movement during laying of utility line without hampering the traffic *		Yes
f) Undertaking that if any claim is raised by the concessionaire/ contractor then the same has to be paid by the applicant. *		Yes
g) Undertaking that prior approval of the NHAI shall be obtained before undertaking any work of installation, shifting or repairs, or alteration to the utility located in the National Highway Right of Ways. *		Yes

Locations						
Sno	State	District	Highway /Stretch	Start Point	End Point	View
1	TAMIL NADU	SIVAGANGAI	NH210 [NH210] (10.000-174.000) From Km: 10.65 To Km: 14.2	Chainage Point: 10.65 Lat: 10.142 Lng: 78.764	Chainage Point: 14.2 Lat: 10.110 Lng: 78.76	View
2	TAMIL NADU	SIVAGANGAI	NH210 [NH210] (10.000-174.000) From Km: 14.2 To Km: 15.5	Chainage Point: 14.2 Lat: 10.110 Lng: 78.762	Chainage Point: 15.5 Lat: 10.101 Lng: 78.755	View

Documents				
Sno	Stage	Document	Mandatory	Action
1	Under Submission	Layout and Drawings	Yes	View
2	Under Submission	Any Other Supporting Document	No	--
3	Under Submission	Any Document to indicate commercial activities are allowed on the land.	No	--
4	Under Submission	Safety Clearance from Directorate of Electricity	No	--
5	Under Submission	Safety Clearance from Chief Controller of Explosives	No	--
6	Under Submission	Safety Clearance from Petroleum and Explosives Safety Organisation	No	--
7	Under Submission	Safety Clearance from Oil Industry Safety Directorate	No	--
8	Under Submission	Safety Clearance from State/Central Pollution Control Board	No	--
9	Under Submission	Any Other Statutory Clearance as applicable	No	--