



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)

National Highways Authority of India

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

क्षेत्रीय कार्यालय, मदुरै / **Regional Office, Madurai**

दूसरा व तीसरा तल, विजय कृष्णा प्लाजा, सं. 1, लेक एरिया, मेलुर मैन रोड, माट्टुतावनी, मदुरै - 625107

दूरभाष / Tele : +91-452-2588999 वेब / Website : www.nhai.gov.in ई.मेल / E-mail: romadurai@nhai.org



NHAI/15018/4.2/05/2025/RO Madurai/E-292020/ 1680

17th September, 2025

INVITATION OF PUBLIC COMMENTS

विषय: भाराराप्रा - क्षे.का. मदुरै- पकाई, डिंडिगल - Four laning section of NH-785(E) from Km 36/690 to Km 61/115 under Bharatmala Pariyojana Phase-I on EPC mode in the State of Tamil Nadu - Permission to lay the underground water pipeline across the road @ Km 61/104 in the Natham - Thuvrankurichi section of NH-785(E) - Invitation of Public Comments - Reg.

प्रसंग : PD, Dindigul Lr. NHAI/PIU/DGL/11014/10/NOC/N-T/2025/1554 dated 22.08.2025.

The Proposal is regarding permission for laying of underground water pipeline across the road @ Km 61/104 in the Natham - Thuvrankurichi section of NH-785(E) in the State of Tamil Nadu by Executive Engineer, TWAD Board, RWS Division, Sivagangai has been submitted to this office by the PD, Dindigul Lr. NHAI/PIU/DGL/11014/10/NOC/N-T/2025/1554 dated 22.08.2025 in accordance with Ministry's latest guidelines dated 22.11.2016.

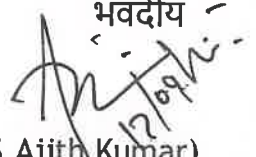
2) The alignment proposed by Executive Engineer, TWAD Board, RWS Division, Sivagangai for laying of underground water pipeline across the road @ Km 61/104 in the Natham - Thuvrankurichi section of NH-785(E) is as detailed under:

Stretch in Km	Length (m)	Dia of pipe	Available ROW (m)	Remarks
Across NH - 785(E): Km 61/104	24	1.18m	60	Laying of pipe line across by Trench Method at minimum depth of 3.3m from ground level.
	36	01 no of 1400 mm MS encasing pipe with 1118 mm Carrier pipe		Laying of pipe line across by HDD Method at minimum depth of 3.0m from top of the subgrade.

- 3) The Right of Way is 60 m in the aforesaid stretch. Executive Engineer, TWAD Board, RWS Division, Sivagangai has proposed for laying of underground water pipeline across the road @ Km 61/104 in the Natham - Thuvankurichi section of NH-785(E) in the State of Tamil Nadu which is in conformity with Ministry's guidelines dated 22.11.2016.
- 4) Executive Engineer, TWAD Board, RWS Division, Sivagangai 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, RWS Division, Sivagangai will also undertake that laying of water pipeline will not have deleterious effects on any of the bridge components and roadway safety for traffic.
- 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 -

(एस .अजित कुमार | S.Ajith Kumar)
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, Dindigul - for information.



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 - डिंडिगल / Project Implementation Unit - Dindigul
प्लॉट नं.1, ऐश्वर्यम हाइट्स, इंदिरा नगर, सेन्नामनाईकेनपट्टी (पो), थाडिकोम्बु रोड, डिंडिगल - 624 004
Plot No.1, Aishwaryam Heights, Indira Nagar, Sennamanaickenpatti (P.O), Thadikombu Road, Dindigul - 624 004
दूरभाष / Tele: +91-451 2904199 वेब / Web: www.nhai.org ई-मेल / E-mail: piudindigul@nhai.org, dindigulpiu@gmail.com



NHAI/PIU/DGL/11014/10/NOC/N-T/2025/1554

22.08.2025

To,

The Regional Officer,
National Highways Authority of India,
Regional Office, Madurai,
3rd Floor, Vijay Krishna Plaza,
No.1, Lake Area, Melur Main Road,
Mattuthavani,
Madurai - 625 107.

Sub: NHAI - PIU, Dindigul - Four Laning section of NH-785 (E) from Km 36/690 to Km 61/115 under Bharatmala Pariyojana Phase-I on EPC Mode in the State of Tamil Nadu -Permission to lay the underground water pipeline along the ROW using Km61+104 for the Accross road on the National Highways-785E (Natham - Thuvarankurichi Section) in state of Tamil Nadu - **Provisional Approval Requested - Reg.**

Ref: 1. IE's letter no. TASPL/NHAI/NH-785E/2025/748 dated 05.08.2025
2. This office's letter No. NHAI/PIU/DGL/10/NOC/N-T/2025/1405 dated 02.08.2025.
3. Applicant's Letter No. NIL dated 29.07.2025.

Sir,

Reference is invited to the captioned subject and references cited above.

2. It is mentioned that the subject proposal for **getting Permission to lay the underground water pipeline along the ROW using Km61+104 for the Accross road** has been submitted by the applicant vide ref. 3rd cited.

2.1 In this regard, this office vide ref 2nd cited, forwarded the subject proposal to the Independent Engineer of the subject works M/s Technocrats Advisory service Pvt. Ltd. for examining the proposal duly visiting the site and furnish their recommendations/ comments in the light of the relevant MoRTH Circular and guidelines of the Competent Authority.

3. Accordingly, the IE vide ref 1st cited has furnished a recommendation with respect to the subject proposal for consideration.

4. In the context of the above, the subject proposal has been scrutinized in light of Ministry Circular No. RW/NH-33044/29/2015/S&R (R) dated 22.11.2016 and the following points are brought out:

- A plan showing the above-mentioned NH stretch with the proposed Pipeline location, and cross-section of the Pipeline Trench has been appended to the proposal.
- The Water supply pipeline is proposed to be laid 36m below from Ground level/Sub-grade which is satisfying the norms.
- The applicant has submitted an agreement in the prescribed format to be executed in case the approval is accorded.
- The applicant has submitted the necessary undertakings in the prescribed format as mentioned in the Ministry Circular No. RW/NH-33044/29/2015/S&R (R) dated 22.11.2016.

4. The license fee has been calculated in line with the MoRTH policy guidelines dt. 22.11.2016 & 17.04.2023 as detailed below: -

Sl.No	Village Name	Chainage		Side	Length (L) (m)	Width of Trench/Support system/ Dia of Pipe (m)	Utilized NH land area (LXW) (Sq.m)	Prevailing Circle rate of land per unit area (sq.m) (Rs.)	License Fee (Public utility) (Rs.)
		From	To						
Across the Road									
1	thuvarankuruchi	61+104			60	1.40	84	247	₹ 311
Total Amount									₹ 311

4.1 However, as per the latest MoRT&H Circular dated 17.04.2023, the License fee per annum has been adopted as Rs. 10,000/- [minimum amount] as mentioned in the Policy Guidelines Clause 5.2. Accordingly, the License fee for 5 years has been calculated with (a 6% annual increment for each year) which is arriving at Rs. 56,371/-.

5. The amount of Performance Bank Guarantee has been calculated in line with the MoRTH Policy Guidelines dated 22.11.2016 as detailed under:

Total Length NH	60m
Rate of performance BG	RS.500/- Per m& Rs.
Cost of Restoration Charges	Rs.1 Lakh crossing
No.1 of crossing	1,00,000/-
Amount(60x500)	Rs. 30,000 /-
Total Amount	Rs.1,30,000 /-

In view of the above, the in-principal approval/ provisional NOC of the Competent Authority ROW using Km61+104 of NH-785 (E) (Natham - Thugarankurichi Section) may be considered for approval.

Encl: Proposal 3 sets.

Yours Sincerely,


Project Director(A/C)

Copy to: 1. Executive Engineer, M/s Tamil Nadu Water Supply and Drainage Board, RWS Division, Sivagangai -for Kind information.
2. The Authorized Signatory, M/s Technocrats Advisory Services Pvt Ltd, Natham - For kind information.

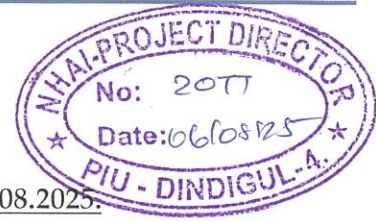
To

The Deputy General Manager (Tech) cum Project Director,
Project Implementation Unit (PIU),
National Highway Authority of India (NHAI), Dindigul.

Ref No: TASPL/NHAI/NH-785E/2025/ 748

Dated: 05.08.2025.

Sir,



Sub:-NHAI -Madurai "Four Laning of Natham-Tuvarankurichi section of NH-785E from Design Chainage 36.690 to 61.115 (Length = 24.425 Km) under Bharatmala Pariyojana Phase-I (Feeder Route category) on EPC mode in the State of Tamil Nadu" Comments on the Proposal for Laying of Water Pipeline Across NH-785E at Km 61/104 - Comments on the Proposal for Laying of water pipe line in NH785E (Natham-Thuvarankurichi section) across the road at Km 61/104 for a total length of 36 m by HDD method-Reg.

Ref:- 1. NHAI PD Lr. No. NHAI/PIU/DGL/11014/10/NT/NOC//2025/648

Dated: 15.04.2025.

2. Executive Engineer, TWAD Board, RWS Division, Sivagangai- 630561
Letter dated. 03.04.2025.

3. NHAI PD Lr. No. NHAI/PIU/DGL/11014/10/NT/NOC//2025/708
Dated: 23.04.2025.

4. TASPL Ref No: TASPL/NHAI/NH-785E/2023-24/729 Dated: 26.04.2025.

5. NHAI PD Lr. No. NHAI/PIU/DGL/11014/10/NT/NOC//2025/797
Dated: 06.05.2025.

6. Executive Engineer, TWAD Board, RWS Division, Sivagangai- 630561
Letter No. Nil dated. 03.06.2025.

7. NHAI PD Lr. No. NHAI/PIU/DGL/11014/10/NT/NOC//2025/1043
Dated: 17.06.2025.

8. TASPL Ref No: TASPL/NHAI/NH-785E/2023-24/738 Dated: 19.06.2025.

9. Discussions held on 16.07.2025 with TWAD Board representative at PIU, Dindigul.

10. TASPL Ref No: TASPL/NHAI/NH-785E/2023-24/744 Dated: 19.07.2025.

11. NHAI PD Lr. No. NHAI/PIU/DGL/11014/10/NT/NOC//2025/1340
Dated: 23.07.2025.

12. Executive Engineer, TWAD Board, RWS Division, Sivagangai- 630561
Letter dated. 29.07.2025.

13. NHAI PD Lr. No. NHAI/PIU/DGL/11014/10/NT/NOC//2025/1405
Dated: 02.08.2025.

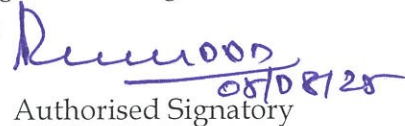
With reference to the above, the resubmitted proposal by the Executive Engineer, TWAD Board, RWS Division, Sivagangai, for laying of a water pipeline across NH-785E (Natham-Thuvarankurichi section) at Km 61/104 for a total length of 60 m (36 m by HDD method and 24 m by open trench method) vide 12th cited has been examined and the site inspection conducted on 04.08.2025. (vide ref. 13th cited)

The detailed drawings, including plan and cross-sectional views, have been received and reviewed. In this regard, it is to inform that the proposed work for laying of the pipeline should be carried out without causing any damage or disturbance to the existing RCC drain structures, road pavement, street lighting poles, and underground electrical cables, if any.

In the event of any damage occurring during the execution of the work, it shall be the sole responsibility of the TWAD Board to carry out necessary rectification and restore the affected assets to their original condition.

Subject to the above conditions, the proposal may be considered for approval.

The revised proposal five (05) copies, along with the signed checklist and drawings are enclosed herewith for further necessary action

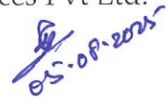

08/08/25

Authorised Signatory

Technocrats Advisory Services Pvt Ltd.

Encls:-

Proposal Booklet-5 Nos.


05.08.2025

Copy to:- R.R.Infraa Construction OldNo.4C, New No.2, Visalatchipuram, Madurai-625014.

From,

Date: 29.07.2025

EXECUTIVE ENGINEER,
Tamil Nadu Water Supply And Drainage Board,
RWS Division,
Sivangangai.

To,

The Project Director,
NHAI - PIU,
Dindigul.

Sir,

Sub: laying of Water Pipe line in NH-785E (Natham - Thuvankurichi Section) Across the Road At Km.61/104 for a Total Length of 36m by HDD method and 24m by Open trench method in NH-785E (Natham - Thuvankurichi Section)- proposal resubmitted after attending the remarks - approval requested - reg.

Ref: Project Director, NHAI, Dindigul

Lr.No.NHAI/PIU/DGL/11014/10/NT/NOC/2025/1340/Dt:23.07.2025

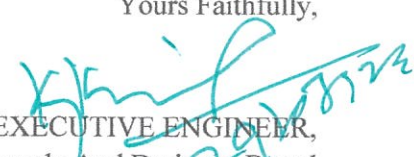
With reference to the above letter cited, I resubmit here with the proposal for laying of Water Pipe line across the Road at Km.61/104, to a length of 36m by HDD method and 24m by Open trench method in NH-785E (Natham - Thuvankurichi Section) after attending the remarks.

In this connection detailed drawing and check list are enclosed herewith for laying of pipeline in the above stretch.

I request that necessary permission may please be issued, so as to lay the Water Pipe across the road NH 785E and the restoration charges may be intimated to the above address for making payment.

Thanking You Sir,

Yours Faithfully,


EXECUTIVE ENGINEER,
Tamilnadu Water Supply And Drainage Board
(Authorized signatory)

**Restoration Charges to be collected for Laying of underground Water pipeline
Across the road at km 61/104 of NH 785E (Natham - Thuvarankuruchi section)
in the state of TamilNadu, National Highways.**

**Cost of Restoration Charges Across the Road
@ Rs.1,00,000/- per crossing**

Rs.1,00,000/-


EXECUTIVE ENGINEER
TWAD Board R.W.S. Division
Sivagangai

Registration DEPARTMENT



For Complaints and
Certifications, please
contact

0408-4621107

0408-4621207

0408-4621300

(Monday to Friday 10 AM
to 5 PM, excluding
Government holidays)

For queries related to
software, please
contact

1800-402-5174

(Monday to Friday 8 AM to
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GUIDELINE VALUE & PROPERTY VALUATION

Guideline Value relating to 2.49 lakhs above and over 4.46 Crores Survey
Number/Subdivision numbers are available on this site for query.

For Property Valuation, Click on the Street Name from the Street List, where the
property is located.

From: 1-7-2024 To: Current Date

Search Criteria :

Zone:	Tichy	Sub	Thuvankurichi
Guideline	THUVARANKURICHI	Registrar	
Village:		Office:	
Revenue	THIRUCHIRAPPALLI	Revenue	THUVARANKURUCHI
District:		Village:	
		Revenue	MAZINGAPUR
		District:	

Below Search results are as on 03-Apr-2025 10:44 AM

A B C D E F G H I J K L M N O P Q R S T U
V W X Y Z 1 2 3 4 5 6 7 8 9 0

52 items found, displaying 41 to 50.

[First/Prev] 1, 2, 3, 4, 5, 6 [Next/Last]

Sr.No.	Street Name	Guideline Value (₹) (British Value)	Guideline Value (₹) (Metric Value)	Land Classification	Effective Start Date	G.O.Download
41	<u>SANTHAL PETTAI STREET</u>	300/ Square Feet	3230/ Square Metre	Commercial Class I Type - III	01-Jul-2024	-
42	<u>SEETHAAMMAL NAGAR</u>	200/ Square Feet	2155/ Square Metre	Residential Class III Type - V	01-Jul-2024	-
43	<u>SRI SAIBABA NAGAR</u>	200/ Square Feet	2155/ Square Metre	Residential Class III Type - V	01-Jul-2024	-
44	<u>SUBAIDABEVEE NAGAR</u>	200/ Square Feet	2155/ Square Metre	Residential Class III Type - V	01-Jul-2024	-
45	<u>THIDDER NAGAR</u>	402/ Square Feet	4330/ Square Metre	Commercial Class I Type - II	01-Jul-2024	-
46	<u>THULUKKAMPATTI</u>	200/ Square Feet	2155/ Square Metre	Residential Class III Type - V	01-Jul-2024	-
47	<u>TRICHY TO MADURAI ROAD PUNITHA VALANAR CHURCH TO GOVT BUS TEPO</u>	700/ Square Feet	7535/ Square Metre	Commercial Special Type - I	01-Jul-2024	-
48	<u>UDAIYAMPATTI</u>	200/ Square Feet	2155/ Square Metre	Residential Class III Type - V	01-Jul-2024	-
49	<u>UPILLIAPATTI</u>	200/ Square Feet	2155/ Square Metre	Residential Class III Type - V	01-Jul-2024	-
50	<u>USEN NAGAR</u>	200/ Square Feet	2155/ Square Metre	Residential Class III Type - V	01-Jul-2024	-

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CHECK-LIST

Guidelines for Project Directors for processing the proposal for Water Pipe Line in the land along the road and across National Highways vested with NHAI.

Relevant Circulars

- 1) Ministry Circular No. NH-41 (58)/68 dated 31.1.1969
- 2) Ministry Circular No. NH-III/P/66/76 dated 18/19.11.1976
- 3) Ministry Circular No. RW/NH-III/P/66/76 dated 11.5.1982
- 4) Ministry Circular No. RW/NH-11037/1/86-DOI (ii) dated 28.7.1993
- 5) Ministry Circular No. RW/NH-11037/1/86/DOI dated 19.1.1995
- 6) Ministry Circular No. RW/NH-34066/2/95/ S&R dated 25.10.1999
- 7) Ministry Circular No. RW/NH-34066/7/2003 5&R (B) dated 17.9.2003
- 8) Ministry Circular No. RW/NH-33044/27/2005-S&R (R) dated 06.08.2013
- 9) Ministry Circular No. RW/NH-33044/29/2015-S&R (R) dated 22.11.2016

Check list for getting approval for laying of Water Pipe Line on NH land

S.No.	Item	Information / Status	Remarks
1	General information		
1.1	Name and Address of the Applicant / Agency	THE EXECUTIVE ENGINEER, Tamilnadu Water Supply And Drainage Board, RWS Division, Sivagangai.	
1.2	National Highway Number	NH785E	
1.3	State	TAMIL NADU	
1.4	Location	Natham to Thuvarankurichi Section	
1.5	(Chainage in km)	Across the road at km 61/104	
1.6	Length in Meters	60 metres	
1.7	Width of available ROW		
	(a) Left side from center line towards increasing chainage/ km direction	24.00 metres	
	(b) Right side from center line towards increasing chainage/ km direction	36.00 metres	
1.8	Proposal to lay underground Water pipe line.		
	(a) Left side from center line towards increasing chainage/ km direction	24.00 metres	
	(b) Right side from center line towards increasing chainage/ km direction	36.00 metres	
1.9	Proposal to acquire land	NA	
	(a) Left side from center line		
	(b) Right side from center line		
1.1	Whether proposal is in the same side where land is not to be acquired		
	If not then where to lay the Pipe		


EXECUTIVE ENGINEER
TWAD Board, RWS Division
Sivagangai.


Authorised Signatory
Technocrats Advisory Services (P) Ltd.


DGM (T) & PROJECT DIRECTOR
NHAI, PIU, DINDIGUL.

S.No.	Item	Information / Status	Remarks
	If not then where to lay the Pipe	NA	
1.11	Details of already laid services, if any, along the proposed route	Nil	
1.12	Number of lanes (2/4/6/8 lanes) existing	4 Lane with paved shoulder	
1.13	Proposed Number of lanes (2 lane with paved shoulders/4/6/8 lanes)	Nil	
1.14	Service road existing or not If yes then which side	No	
	(a) Left side from center line	Nil	
	(b) Right side from center line	Nil	
1.15	Proposed Service road	No	
	(a) Left side from center line	Nil	
	(b) Right side from center line	Nil	
1.16	Whether proposal to lay Water Pipe line is after the service road or between the service road and main carriageway	Road crossing 36m by HDD method and 24m by open trench method	
1.17	The permission for laying of Water Pipe line shall be considered for approval /rejection based on the Ministry Circulars mentioned as above.	Considered for approval based on the Ministries circular	
	(a) Carrying of sewage/gas pipelines on highway bridges shall not be permitted as Fumes/gases pipes can accelerate the process of corrosion or may cause explosions, thus, being much more injurious than leakage of water.	Yes	
	(b) Carrying of water pipe lines on bridges shall also be discouraged. However, if the water supply authorities seem to have no other viable alternative and approach the highway authority well in time before the design of the bridge is finalized, they may be permitted to carry the pipeline on independent superstructure, supported on extended portions of piers and abutments in such a manner that in the final arrangement enough free spade around the superstructure of the bridge remains available for inspection and repairs, etc		
	(c) Cost of required extension of the substructure as well as that of the Supporting superstructure shall be borne by the agency-in-charge of the utilities. of the Ministry's Project Chief Engineers only.		
	(d) Services are not being allowed Indiscriminately on the parapet/any part of the bridges, Safety of the bridges has to be kept in view while permitting various services along bridge. Approvals are to be accorded in this regard with the concurrence of the Ministry's Project Chief Engineers only.		


EXECUTIVE ENGINEER
 TWAD Board R.W.S. Division
 Sivagangai

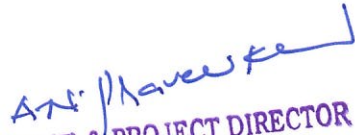

 Authorised Signatory
 Technocrats Advisory Services (P) Ltd.


 DGM (T) & PROJECT DIRECTOR
 NHAI, PIU, DINDIGUL.

S.No.	Item	Information / Status	Remarks
1.18	If crossings of the road involved If Yes, it shall be either encased in pipes or through structure or conduits specially built for that purpose at the expenses of the agency owning the line	Yes	
	(a) Existing drainage structures shall not be allowed to carry the lines.		
	(b) Is it on a line normal to NH	Yes	
	(c) Crossings shall not be too near the existing structures on the National Highway, the minimum distance being 15 meter. What is the distance from the existing structures	Yes	
	(d) The casing pipe (or conduit pipe in the case of pipe line) carrying the utility 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.	Yes	
	(e) Ends of the casing/conduit pipe shall be sealed from the outside, so that it does not act as a drainage path.	Yes	
	(f) The casing/conduit pipe should, as minimum extend from drain to drain in cuts and toe of slope toe of slope in the fills.	Yes	
	(g) The top of 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.	Yes	
	(h) Crossing shall be by boring method (HDD) specially where the existing road pavement is of cement concrete or dense bituminous concrete type.	Yes	
	(i) 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.	Yes	
2	Document / Drawings enclosed with the proposal	Yes	
2.1	Cross section showing the size of trench for open trenching method (Is it normal size of 1.2m deep X 0.3m wide)		
	(i) Should not be greater than 60 Cm wider than the outer diameter of the pipe	Yes	
	(ii) 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	Yes	


EXECUTIVE ENGINEER
TWAD Board R.W.S. Division
Sivagangai



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DGM (T) & PROJECT DIRECTOR
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S.No.	Item	Information / Status	Remarks
	(iii) 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	Yes	
	(iv) 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.	Yes	
2.2	Cross section showing the size of pit and location of pipe for HDD method	Yes	
2.3	Strip plan/ Route Plan showing Water Supply pipe line, Chainage, width of ROW, distance of proposed, pipe line from the edge of ROW, important mile stone, intersections, cross drainage works etc.	Yes	
2.4	Methodology for laying of showing Water Supply pipe line.	Yes (HDD method)	
2.4.1	Open trenching method. (May be allowed in utility corridor only where pavement is neither cement concrete nor dense bituminous concrete type. If yes, Methodology of refilling of trench	Yes	
	(a) The trench width should be at least 30 cm, but not more than 60 cm 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 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.	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 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.	Yes	
	(e) The road crust shall be built to the same strength as the existing crust on either side of the trench. Care shall be taken to avoid the formation of a dip at the trench.	Yes	

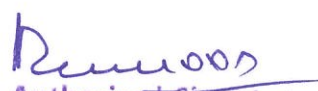

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S.No.	Item	Information / Status	Remarks
	(f) The excavation shall be protected by flagman, signs and barricades, and red lights during night hours.	Yes	
	(g) If required, a diversion shall be constructed at the expense of agency owning the utility line	Yes	
2.4.2	Horizontal Directional Drilling (HDD) Method	Yes	
2.4.3	Laying of Water Pipe Line through CD works and method of laying	No	
3	Draft License Agreement signed by two witnesses	Yes, enclosed with proposal	
4	Performance Bank Guarantee in favour of NHAI has to be obtained Rs100/- 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 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.	To be obtained	
4.1	Performance BG as per above is to be obtained.	To be obtained	
4.2	Confirmation of BG has been obtained as per NHAI guidelines	To be obtained at the time of execution of agreement	
5	Affidavit Undertaking from the Applicant 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, enclosed with proposal	
5.2	Renewal of Bank Guarantee	Yes, enclosed with proposal	
5.3	Confirming all standard condition of NHAI's guideline	Yes, enclosed with proposal	
5.4	Shifting of Water pipe line as and when required by NHAI at their own cost	Yes, enclosed with proposal	
5.5	Shifting due to 6 lanning with paved shoulder / widening of NH	Yes, enclosed with proposal	
5.6	Indemnity against all damages and claims clause (xxiv)	Yes, enclosed with proposal	
5.7	Traffic movement during laying of Water pipe line to be managed by the applicant	Yes, enclosed with proposal	
5.8	If any claim is raised by the Concessionaire then the same has to be paid by the applicant	Yes, enclosed with proposal	
5.9	Prior approval of the NHAI shall be obtained before undertaking any work of installation, shifting or repairs, or alterations to the showing Water pipe line located in the National highway right-of-ways.	Yes, enclosed with proposal	


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S.No.	Item	Information / Status	Remarks
5.10	Expenditure, if any, Incurred by NHAI for repairing any damage caused to the National Highway by the laying, maintenance or shifting of the Water pipe line will be borne by the agency owning the line.	Yes, enclosed with proposal	
5.11	If the NHAI considers it necessary in future to move the utility line for any work of improvement or repairs to the road, it will be carried out as desired by the NHAI at the cost of the agency owning the utility line within a reasonable time (not exceeding 60 days) of the intimation given.	Yes, enclosed with proposal	
5.12	Certificate from the applicant in the following format		
	(i) Laying of Water pipe line will not have any deleterious effects on any of the bridge components and roadway safety for traffic.		
	(ii) for 4-lanning with paved shoulder "We do undertake that I will relocate service road/approach road/utilities at my own cost notwithstanding the permission granted within such time as will be stipulated by NHAI" for future Four-lanning or any other development."	Yes, enclosed with proposal	
6	Who will sign the agreement on behalf of of Water pipe line agency	THE EXECUTIVE ENGINEER, Tamilnadu Water Supply And Drainage Board, RWS Division, Sivagangai.	
7	Certificate from the Project Director		
7.1	Certificate for confirming of all standard condition issued vide 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, and Ministry Circular No. RW/NH-34066/7/2003 S&R (B) dated 17.9.2003, Ministry Circular No. RW/NH-33044/27/2015-S&R (R) dated 06.18.2013 and Ministry Circular No. RW/NH-33044/29/2015-S&R 22.11.2016. (R) dated 22.11.2016.	Yes	
7.2	Certificate from PD in the following format		


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S.No.	Item	Information / Status	Remarks
	(i) "It is certified that any other location of the Water pipe line would be extremely difficult and unreasonable costly and the installation of Water pipe line within ROW will not adversely affect the design, stability & traffic safety of the highway nor the likely future improvement such as widening of the carriageway, easing of curve etc".	Yes	
	(ii) for 4-lanning		
	(a) Where feasibility is available "I do certify that there will be no hindrance to proposed Four laning based on the feasibility report considering proposed structures at the said location".	Yes	
	(b) In case feasibility report is not available "I do certify that sufficient ROW is available at site for accommodating proposed Four -laning".		
8	If NH section proposed to be taken up by NHAI on BOT basis a clause is to be inserted in the agreement. "The permitted Highway on which Licensee has been granted the right to lay cable/duct has also been granted as a right of way to the concessionaire under the concession agreement for up-gradation of [Natham to Thuvrankurichi Section] Across the road 61/104 of NH-785E on Build, Operate and Transfer Basis] and therefore, the licensee shall honour the same."	NA	
9	Who will supervise the work of laying of Water pipe line	Consultants and relevant field officers of NHAI	
10	Who will ensure that the defects in road portion after laying of Water pipe line are corrected and if not corrected then what action will be taken.	BG will enhanced. Claim amount will be determined according to the nature and seriousness of damages.	
11	Who will pay the claims for damages T done/disruption in working of Concessionaire if asked by the Concessionaire.	The applicant should pay claims.	
12	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).	Yes	
13	If any previous approval is accorded for laying of underground Water pipe line then Photocopy of register of records of permissions accorded as maintained by PD then copy be enclosed	Yes	


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 NHAI, PIU, DINDIGUL.

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 underground 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.


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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
 - (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.


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- (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 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.


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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.


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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 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 indefeasible by laps of time.
36. The licensee shall bear the stamp duty charged for the agreement.

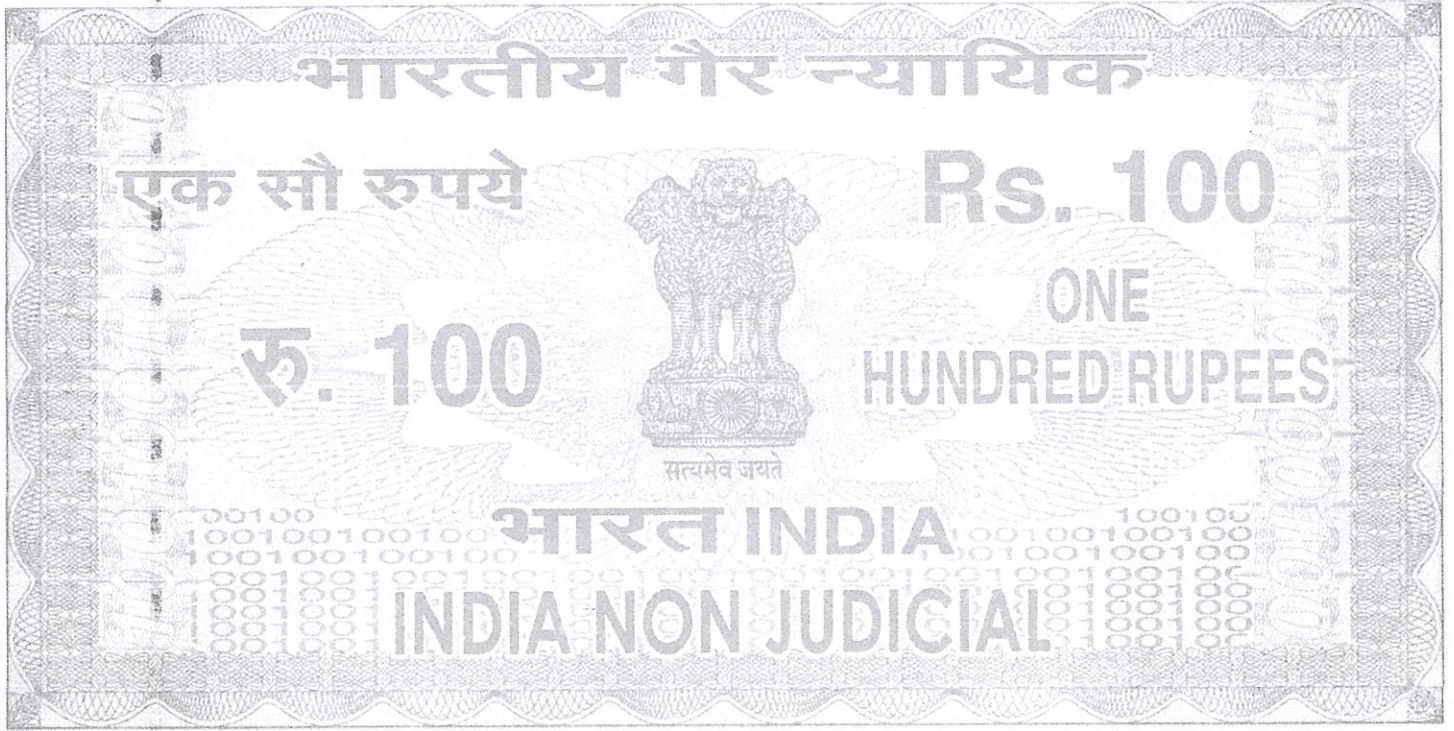

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37. The Water Supply pipe line shall not be brought in to use by the licensee unless a completion certificate to the effect that the laying of Water Supply Pipe Line has been laid in accordance with the approved specifications and drawings and the 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.
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.


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- 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.


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தமிழ்நாடு தமில்நாடு TAMILNADU 100 29.07.2025.

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RWS Division
Sivagangai

EX 937003

ச.சிதம்பரம் துவாரகாட்சி அலுவலகம்
உரிம எண்: 37/191.க.1/95
நகர முகத்திட்டு, துவாரகாட்சி அலுவலகம்
சிவகங்கை-626 001.


Annexure-V

UNDERTAKING

We, Tamilnadu Water Supply And Drainage Board, Rural Water Supply Division, Sivagangai, Laying of Water Pipe Line Across the road At Km.61/104, for a total length of 60m of Natham - Thuvankurichi Section (NH-785E) in the state of Tamil Nadu, National Highways, Dindigul.

We here by undertake the Standard Conditions of NHAI Guidelines:

1. Not to Damage to Other Utility, if damaged then to pay the losses either to NHAI or to the concerned agency: Regarding the location of other electrical cable line, underground installation/utilities etc, Tamilnadu Water Supply And Drainage Board shall be responsible to ascertain from the respective agency in coordination with NHAI. Tamilnadu Water Supply And Drainage Board shall ensure the safety and security of already existing cables/underground installation/utilities facilities etc. before commencement of the excavation.


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2. Renewal of Bank Guarantee: Tamilnadu Water Supply And Drainage Board shall furnish a Bank Guarantee @ Rs100/- per running meter to the NHAI, 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 of water pipe line 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 Tamilnadu Water Supply And Drainage Board for clearing debris/loose earth. 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 Tamilnadu Water Supply And Drainage Board shall either furnish a fresh guarantee or extend the guarantee for a further period of one year. In case of Tamilnadu Water Supply And Drainage Board 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 Tamilnadu Water Supply And Drainage Board and recover the amount by invoking the bank guarantee furnished by Tamilnadu Water Supply And Drainage Board.

3. Confirming all standard conditions of NHAI:

- (i) The period of validity of Way permission shall be co-terminus with the validity of licensee given by the Ministry of Communications / DoT.
- (ii) The Laying of Water pipe line shall be laid at the edge of the right of way within 2m utility corridors.
- (iii) The licensee has to cross the NH In case any damage is caused to the road pavement in this process, Tamilnadu Water Supply And Drainage Board will be required to restore the same to the original condition at his own cost.
- (iv) No trenching will be done on link road, boring method will be used in link road and Water pipe line will be laid at the extreme edge of the road in the non-BT surface only.
- (v) 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 @ Rs100/- per meter length for maintenance/ repair work shall have to be furnished by Tamilnadu Water Supply And Drainage Board.
- (vi) Each day, the extent of Water pipe lines should be strictly regulated so that pipe 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 NHAI.
- (vii) The Licensee shall indemnify the concerned agency in co-ordination with NHAI, against all damages and claims, if any, due to the laying of Water pipe line.


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(viii) The NHAI has a right to terminate the permission or to extend the period of agreement. In case the Tamilnadu Water Supply And Drainage Board wants shifting, repairs or alteration to Water pipe line, he will have to furnish a separate bank guarantee.

(ix) 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 pipe line.

(x) The permission granted shall not in any way be deemed to convey to Tamilnadu Water Supply And Drainage Board any ownership right or any interest in route/road/highway/ land/ property, other than what is herein expressly granted.

(xi) During the subsistence of this agreement, the laying of Water pipe line 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 Tamilnadu Water Supply And Drainage Board to the use thereof shall not become absolute and indefeasible by laps of time.

(xii) Tamilnadu Water Supply And Drainage Board shall bear the stamp duty charged for the agreement.

(xiii) The Water pipe line shall not be brought in to use by Tamilnadu Water Supply And Drainage Board unless a completion certificate to the effect that the laying of Water 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.

(xiv) Not with standing anything NHAI contained herein this agreement may be cancelled at any time by the for breach of any condition of the same and the Tamilnadu Water Supply And Drainage Board 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.

(xv) The licensee shall have to provide barricading, danger lighting and other necessary caution boards while executing the work and during maintenance. If NHAI is required to do some emergent work Tamilnadu Water Supply And Drainage Board 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.

(xvi) 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 of the License with Department 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 of Tamilnadu Water Supply And Drainage Board.


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4. Shifting of Water pipe line as and when required by NHAI: Tamilnadu Water Supply And Drainage Board shall shift the Water pipe line within 90 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 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

5. Shifting due to 4 laining / widening of NH: After the termination/expiry of the agreement, Tamilnadu Water Supply And Drainage Board shall remove the water pipe line within 90 days and the site shall be brought back to the original condition failing which the Tamilnadu Water Supply And Drainage Board will lose the right to remove the water pipe line. However, before taking up the work of removal of water pipe line the Tamilnadu Water Supply And Drainage Board 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.

6. Traffic movement during laying of Water pipe line to be managed by the applicant: If any traffic diversion works are found necessary during the working period such diversion shall be provided at the cost of Tamilnadu Water Supply And Drainage Board.

7. If any claim is raised by the concessionaire then the same has to be paid by the applicant: Tamilnadu Water Supply And Drainage Board 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 Tamilnadu Water Supply And Drainage Board. 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 Tamilnadu Water Supply And Drainage Board. If Tamilnadu Water Supply And Drainage Board fails to comply with the condition 5 and 6 above to the satisfaction of the NHAI, the same shall be got executed by the NHAI at the risk and cost of the Tamilnadu Water Supply And Drainage Board.

8. We, Tamilnadu Water Supply And Drainage Board, Rural Water Supply Division, Sivagangai, hereby do undertake to furnish a Performance Bank Guarantee @100/- per meter for a period of one year initially (extendable if required till satisfactory completion of work) 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 of failure caused thereof to any services etc. In case, Tamilnadu Water Supply And Drainage Board. Failing to discharge the obligation of making good the damages caused due to erection, the NHAI shall have a right to make good the damages caused due to erection at the cost of the Tamilnadu Water Supply And Drainage Board. And recover the amount by invoking the Bank Guarantee. In case the work contemplated is not completed to the satisfaction of NHAI, which has granted the permission, within a period of 11 months from the date of issue of the Bank Guarantee, Tamilnadu Water Supply And Drainage Board. Shall either furnish a fresh guarantee or extend the guarantee for a further period of one year.


EXECUTIVE ENGINEER
TWAD Board R.W.S. Division
Sivagangai

9. Not to damage to other utility, if damaged, then to pay the losses either to NHAI or to the concerned agency.

10. In case the work contemplated is not completed to the satisfaction of NHAI, which has granted the permission within a period of 11 months from the date of issue of the Bank Guarantees, Tamilnadu Water Supply And Drainage Board shall either furnish a fresh guarantee or extend the guarantee for a further period of one year.

11. We will relocate Pipe lines/Utilities at our own cost, notwithstanding the permission granted within such time as will be stipulated by NHAI "for future Four-laning or any other development."

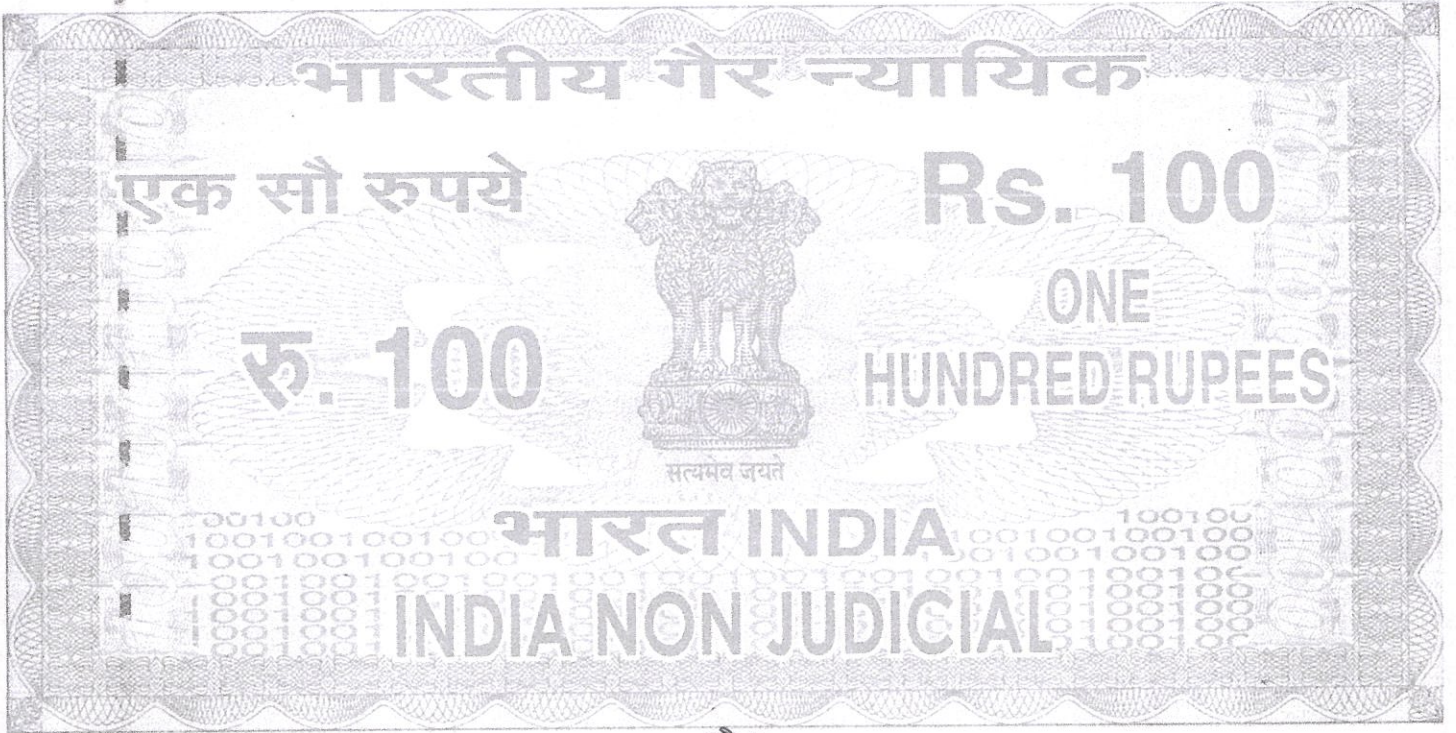
12. We, Tamilnadu Water Supply And Drainage Board, Rural Water Supply Division, Sivaganga, Tamilnadu State, hereby undertake that "The existing avenue plantation is not affect due to the present proposed water pipe line across the road at Km.61/104 for a total length of 60m of Natham - Thuvankurichi Section (NH785E) in the state of Tamil Nadu, National Highways, Dindigul."

13. We, Tamilnadu Water Supply And Drainage Board, Rural Water Supply Division, Sivaganga, hereby undertake that the 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.

14. Lr. No. RW/NH-33044/29/2015-S&R (R) dated 22.11.2016 as and when asked by NHAI. Reference Circular issued by Ministry of Road Transport & Highways, GOI, Circular No. RW/NH-33044/29/2015-S&R (R) dated 22.11.2016. Where in, the last paragraph that "The Highway Administration Rules 2004 will be modified accordingly. This circular will come in to effect from the date of notification of the modified Highway Administration Rule" So we hereby give our constant to abide by the content of this circular from the date of its notification by MORTH, GOI and agree to pay the ground rent any other charges applicable for the section as applied by us.

Yours Faithfully,


Executive Engineer
Tamilnadu Water Supply And Drainage Board(Authorized Signatory)



தமிழ்நாடு தமில்நாடு TAMILNADU 29.07.2025.

Executive Engineer TWAD Board
RWS Division
Sivagangai.

EX 937001

ச.கந்திரபாண்டியன்.எம்.ஏ..
உரிம எண்: 3719/ஆ.1/95
நகர முதன்மைத் திட்ட விநியோகம்
சிவகங்கை துறைமுகம்.

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

Agreement to laying of Water Pipe Line Across the road At Km.61/104, for a total length of 60m of Natham - Thuvankurichi Section (NH-785E) in the state of Tamil Nadu, National Highways, Dindigul.

This Agreement made this _____ day of _____ (month) _____ of (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, an **The Executive Engineer, Tamilnadu
Water Supply And Drainage Board, Rural Water Supply Division, Sivagangai** (here in after
called the "License") which expression shall unless excluded by repugnant to the context, include
his successors / administrator assignees on the second part.


EXECUTIVE ENGINEER
TWAD Board R.W.S. Division
Sivagangai

Whereas the Authority is responsible, inter-alia, for development and maintenance of lands across the road at Km.61/104 for a total length of 60m of Natham - Thuvrankurichi Section (NH-785E) in the state of Tamil Nadu, National Highways, Dindigul.

Whereas the Licensee Proposes to lay Telecom cable / OFC cable/electrical cable Line /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 across the road at Km.61/104. for a total length of 60m of Natham - Thuvrankurichi Section (NH-785E) in the state of Tamil Nadu, National Highways, Dindigul.

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 witnesseth 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 permissions 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 fulfilment 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.
4. The Licensee shall pay license fees @ Rs./sq m/month to the Authority. The Licensee fee shall become payable from the date of handing over of Row land to the Licensee, for laying of utilities/electrical cables lines/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.


EXECUTIVE ENGINEER
TWAD Board R.W.S. Division
Sivagangai

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 a 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.

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 metre 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 electrical cable line containing the utility services to cross the road shall be at least 11m top of the existing road level whichever is lower. A typical sketch showing the clearances is given in Attachment-1.


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TWAD Board-R.W.S. Division
Sivagangai

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 30cm. but not more than 60cms 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.

i. Bedding shall be to a depth not less than 30cm. 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.

ii. 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.

iii. The side fill shall consist of granular material laid in 15cm. 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 has been removed. Consolidation by saturation or ponding will not be permitted.

iv. 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.

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 metre /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 any services etc. in case of licensee falling 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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TWAD Board R.W.S. Division
Sivagangai

20. In case, 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 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. 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.

21. 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.

22. 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.

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 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 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 authorised representative in consultation with the Authority as per predetermined time schedule and quality standards. In case of the Licensee falling 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.


EXECUTIVE ENGINEER
TWAD Board R.W.S. Division
Sivagangai

26. 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.

27. Each day, the extent of digging the trenches should be strictly regulated so that utility services 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 it is issued and fee deposited. However, the Authority also has a right to terminate the permission or to extend the period of Agreement.

31. 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 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/and/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 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.

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 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.

36. The Licensee shall allow free access to the Site at all times to the authorised 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.


EXECUTIVE ENGINEER
TWAD Board R.W.S. Division
Sivagangai

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. 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 cancellations nor 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.

39. The Licensee shall have to provide safety measures like barricading, danger lighting and other necessary caution boards while executing the work.

40. 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.

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.


EXECUTIVE ENGINEER
TWAD Board R.W.S. Division
Sivagangai

43. 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.

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.

SIGNED SEALED AND DELIVERED FOR AND ON BEHALF OF AUTHORITY.

BY SHRI _____
(Signature, name & address with stamp)


SIGNED ON BEHALF OF THE EXECUTIVE ENGINEER, TAMILNADU WATER SUPPLY AND DRAINAGE BOARD, RURAL WATER SUPPLY DIVISION, SIVAGANGAI.
(LICENSEE)

BY SHRI 
(Signature, name & address with stamp)

EXECUTIVE ENGINEER
TWAD Board R.W.S. Division
Sivagangai

HOLDER OF GENERAL POWER OF ATTORNEY DATED _____ EXECUTED IN
ACCORDANCE WITH THE RESOLUTION NO. _____ DATED _____
PASSED BY THE BOARD OF DIRECTORS IN THE MEETING HELD ON _____
PRESENCE OF (WITNESSES)

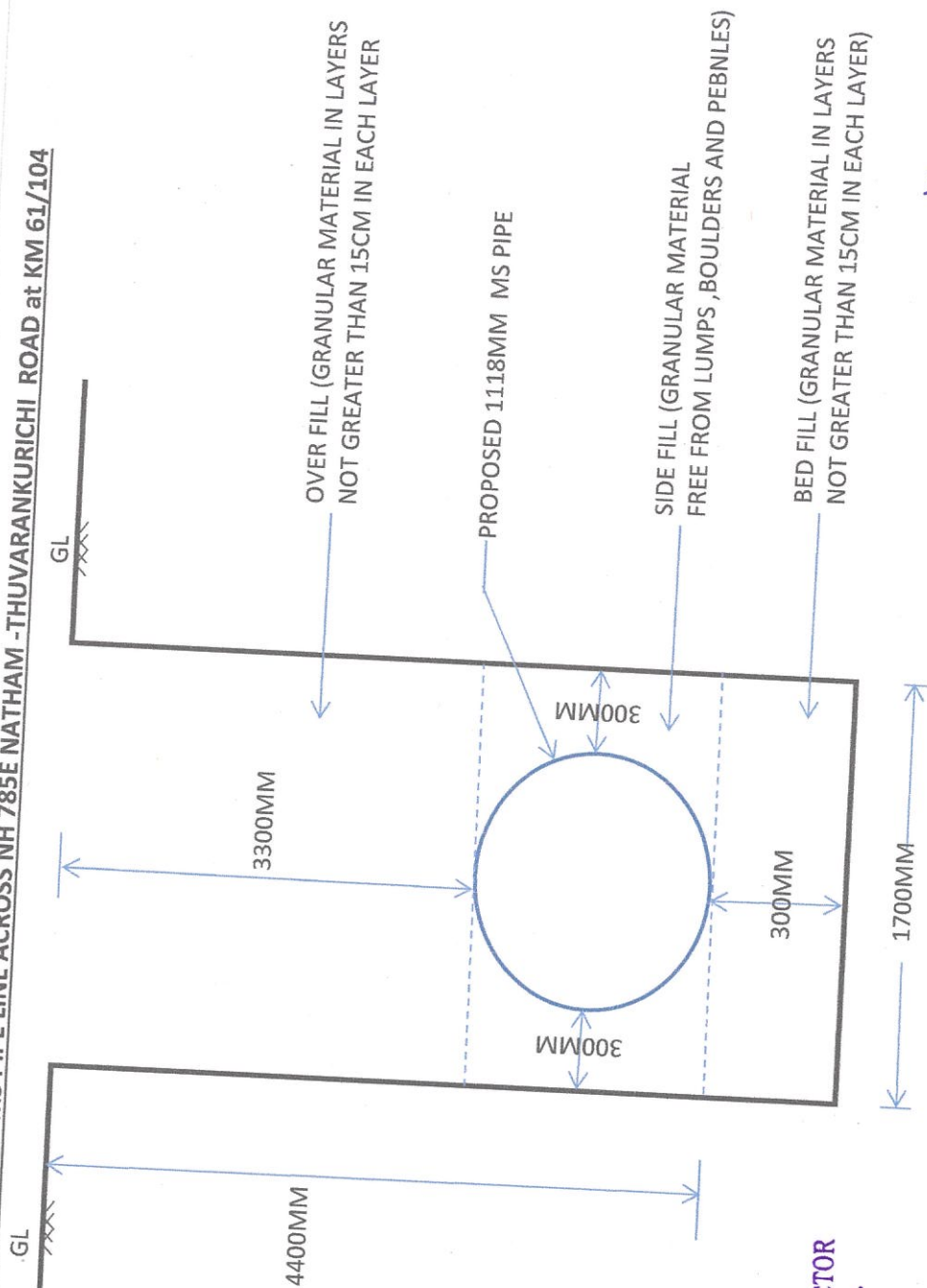
1


ASSISTANT EXECUTIVE ENGINEER
TWAD BOARD,
PROJECT SUB DIVISION,
THIRUVADANAI

2


Assistant Executive Engineer (Tech)
TWAD Board, SR cum PM Circle,
Sivagangai - 630 561.

PROPOSAL FOR LAYING OF MS PIPE LINE ACROSS NH 785E NATHAM -THUVARANKURICHI ROAD at KM 61/104



5

ASSISTANT EXECUTIVE ENGINEER
TWAD Board Project Sub Division.
Ramesh CWSS Viralmalai

Executive Engineer, TWAD Board,
RWS Division, Sivagangai

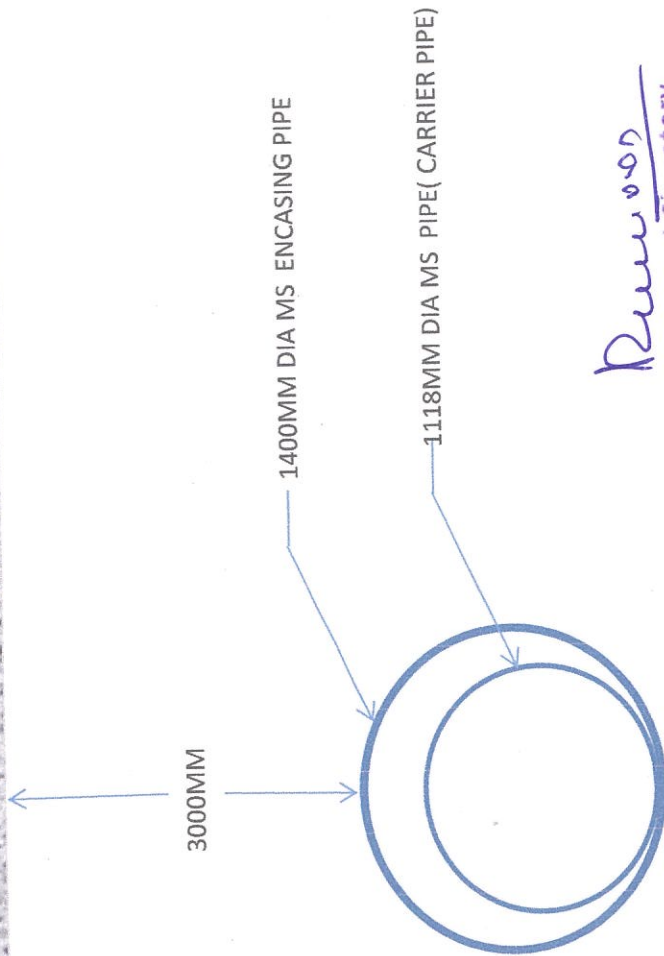
Remo
Authorised Signatory
Technocrats Advisory Services (P) Ltd.
APPLICANT

EXECUTIVE ENGINEER
TWAD BOARD
RWS DIVISION
SIVAGANGAI

NAME OF SNAME OF SCHEME : CWSS to 2 Municipalities, 5 Town Panchayats and 2306 rural habitations in 11 Panchayat Unions of Ramanathapuram District and Oddanchathram Municipality, Keeranur and Neikarapatty Town Panchayats and 1422 Rural habitation in 7 Unions of Dindigul District with

PROPOSAL FOR LAYING OF MS PIPE LINE ACROSS NH 785E NATHAM -THUVARANKURICHI ROAD at KM 61/104

TOP OF APPROACH ROAD



**DGM (T) & PROJECT DIRECTOR
NHAI, PIU, DINDIGUL.**

**ASSISTANT ENGINEER (A/c)
TWAD Board Project Sub Division
Ramnad CWSS Viralimalai**

**ASSISTANT EXECUTIVE ENGINEER
TWAD Board Project Sub Division
Ramnad CWSS Viralimalai**

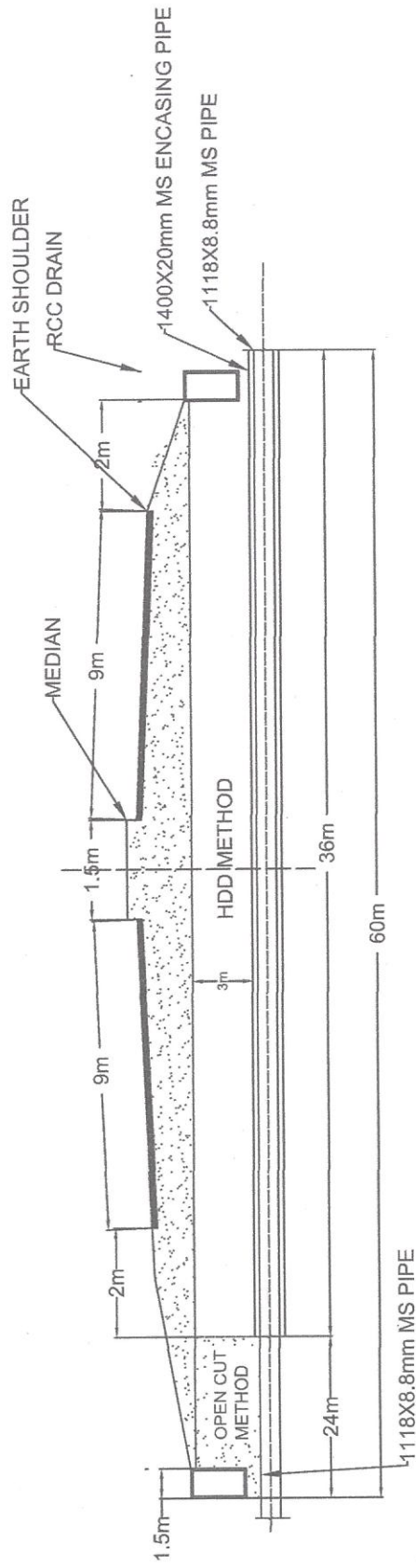
**Executive Engineer, TWAD Board,
RWS Division, Sivagangai**

APPLICANT
EXECUTIVE ENGINEER
TWAD BOARD
RWS DIVISION
SIVAGANGAI

APPLICANT

EXECUTIVE ENGINEER
TWAD BOARD
RWS DIVISION
SIVAGANGAI

NATHAM - THUVARAKURICHI NH785E ROAD CROSSING



DCM (T) & PROJECT DIRECTOR
NHAI, PIU, DINDIGUL.

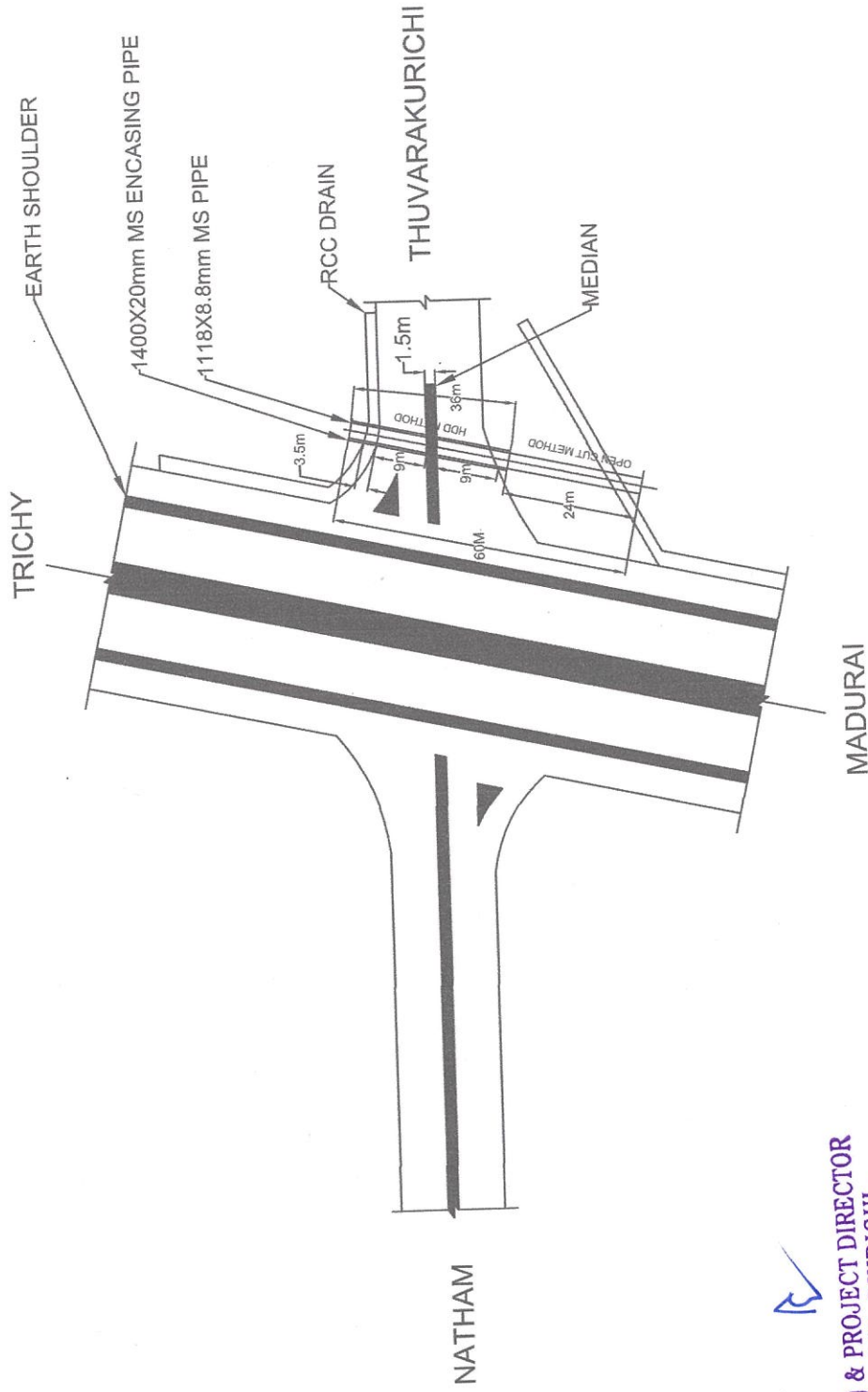
ASSISTANT ENGINEER (A/c)
TWAD Board Project Sub Division
Ramnad CWSS Viralmalai

ASSISTANT EXECUTIVE ENGINEER
TWAD Board Project Sub Division
Ramnad CWSS Viralmalai

EXECUTIVE ENGINEER
TWAD Board R.W.S. Division
Sivagangai

Authorised Signatory
Technocrats Advisory Services (P) Ltd.

NATHAM - THUVARAKURICHI NH785E ROAD CROSSING



DGM (T) & PROJECT DIRECTOR
NHAI, PIU, DINDIGUL.

ASSISTANT ENGINEER (A/c)
TWAD Board Project Sub Division
Ramnad CWSS Viralmalai

ASSISTANT EXECUTIVE ENGINEER
TWAD Board Project Sub Division
Ramnad CWSS Viralmalai

EXECUTIVE ENGINEER
TWAD Board P.W.S. Division
Sivagangai

Authorised Signatory
Technocrats Advisory Services (P) Ltd.

Government of India
Ministry of Road Transport and Highways
(Highway Administration Cell)

Transport Bhavan, 1, Parliament Street, New Delhi --- 110 001
No. NH-36094/01/2022-S&R(P&B)

Dated: 17th April, 2023

To:

1. The Chief Secretaries of all the State Governments/UTs
2. The Principal Secretaries/ Secretaries of all States/ UTs Public Works Department dealing with National Highways, other centrally sponsored schemes.
3. All Engineers-in-Chief and Chief Engineers of Public Works Department of States/ UTs dealing with National Highways, other Centrally Sponsored Schemes.
4. The Director General (Border Roads), Seema Sadak Bhawan, Ring Road, New Delhi-110 010.
5. The Chairman, National Highways Authority of India, G-5 & 6, Sector-10, Dwarka, New Delhi-110 075.
6. The Managing Director, NHIDCL, PTI Building, New Delhi-110001
7. ROs, ELOs and PIUs of the MoRTH.

Subject- Accommodation of Public and Industrial Utility Services along and across National Highways- Policy guidelines; Clarifications regarding OFC/Telecom cables.

Sir,

Following amendments are issued herewith with reference to Ministry's policy circular no RW/NH-33044/29/2015-S&R(R) dated 22.11.2016 regarding permission for laying of underground OFC/telecom cables in NH ROW with immediate effect:


Clause	Existing provision	Amendments
3.1	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.	The utility services shall normally 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. Alternatively, for crossing of NH by pipelines for petroleum products, Horizontal Directional Drilling (HDD) method may be used

	without casing/ conduit pipe following the safety precautions and Codes as given in Annexure II.
5.	<p>Charges for granting licence for use of highway land: For the purpose of license fee/lease rentals, the utilities have been divided into two categories; a) Public utilities and b) Industrial utilities as per the details given in Annexure I.</p> <p>License Fee/lease rentals described below is for Industrial utilities. The license fee for Public utilities shall be 33% of the fee prescribed for Industrial utilities.</p>
5.1	<p>The following methodology shall be followed for license fees/lease rental determination for utility service lines other than localized infrastructure facilities like towers, repeaters and junction boxes).</p> <p>License Fees (Rs/sq m/ month) = $\frac{\text{Utilized NH land area} \times \text{Prevailing Circle Rate of land per unit area}}{(10 \times 12)}$ where,</p> <p>Utilized NH land area = Outer diameter/width of the concerned utility line X length</p> <p>License Fee for Industrial Utilities shall be equal to utilized NH land area X Prevailing Circle Rate of land per unit area X 10% per annum.</p> <p>Utilized NH land area shall include projection of utility on ground including area of support system / tower.</p> <p>License fee for total term of license (up to maximum of 5 years) shall be deposited in advance.</p>
5.2	<p>The following methodology shall be followed for license fees/lease rental determination for utility services such as towers/repeaters junction boxes etc.</p> <p>License Fees (Rs/sq m/ month) = $\frac{\text{Utilized NH land area} \times \text{Prevailing Circle Rate of land per unit area}}{(10 \times 12)}$ where,</p> <p>License Fee for public utility shall be equal to utilized NH land area X Prevailing Circle Rate of land per unit area X 1.5% per annum, subject to minimum of Rs. 10,000/-, with 6% annual increment.</p> <p>Utilized NH land area shall include area of support system / tower but not include projection of utility on ground.</p>

Utilized NH land area = Projection of utility on the ground including area of support system/tower.	(There shall be no license fee for OFC cables crossing the NH through HDD method.
However, for public utilities, area below the support system/tower shall only be charged.	License fee for total term of license (up to maximum of 5 years) shall be deposited in advance.

2. This issues with the approval of competent authority.

Yours faithfully



(Rakesh Prakash Singh)
Superintending Engineer (HA)

Copy to:

1. AS/ JS/CEs in MoRTH
2. Director, IAHE
3. The Secretary General, Indian Roads Congress
4. Technical circular file of S&R(P&B) Section and Road Safety Engineering Cell
5. NIC-for uploading on Ministry's website under "What's new"

Copy for information to:

1. PS to Hon'ble Minister (RT&H)/ PS to Hon'ble MOS (RT&H)
2. Sr. PPS to Secretary (RT&H)/ Sr. PPS to AS(H)/ Sr. PPS to AS&FA
3. Sr. PPS to DG (RD) & SS/ Sr. PPS / PPS /PS to ADG-I/II/III/IV


(Rakesh Prakash Singh)
Superintending Engineer (HA)

Annexure II

A. Codes/ publications for guidance on design of Horizontal Directional Drilling crossing for Petroleum Pipelines

- a) Oil Industry Safety Directorate Code: IOSD Code-141.
- b) American Gas Association PR-227-9424 "Installation of Pipelines by Horizontal Directional Drilling an Engineering Design Guide".
- c) American Society of Civil Engineering Practice No.89 - "Pipeline Crossings Handbook".
- d) Directional Crossing Contractors Association publications "Guidelines for a Successful Directional Crossing Bid Package", "Directional Crossing Survey Standards" and "Guidelines for Successful Mid-Sized Directional Drilling Projects."

B. Safety precautions and plan to be submitted along with the proposal for HDD crossings:

- a) Before taking up the HDD work, area to be scanned by suitable methods like GPR to locate all underground utilities. Accordingly, crossing plan and profile drawings to be developed showing all pipelines, utilities, cables and structures that cross the drill path, are parallel to and within 30m of the drill path and that are within 30m of the drilling operation, including mud pits and bore pits.
- b) Damage prevention plan to reduce or avoid the likelihood of damage to adjacent underground facilities, including pipelines, utilities, cables and other subsurface structures considering the accuracy of the method in locating existing structures and in tracking the position of the pilot string during drilling. Consideration should be given to having an auxiliary location system to include manual excavation to ensure that the drilling bit or reamer is following the projected path and does not encroach upon crossing or parallel lines. The damage prevention plan should include provision for sending notification to all affected parties.
- c) Safety plan to include contingency plans in the event the drilling string impacts subsurface facilities and identify facilities and resources to be utilized in the event of an emergency or any personnel injuries. The safety plan shall be reviewed on site with all construction personnel prior to the commencement of drilling operations.
- d) Plan for containment and disposal of drilling fluids, if used.
- e) Hydrostatic test plan that should consider pretesting of the fabricating string(s) prior to installing the crossing.
- f) Testing plan to be agreed upon the measures like Cathodic protection, periodic inspection be outlined and Supplementary extra thickness of pipe be ensured to compensate for corrosion.
- g) Pipeline laying agencies to submit annual certificates of inspection after laying.



MINISTRY OF ROAD TRANSPORT & HIGHWAYS
AN ISO 9001:2008 CERTIFIED MINISTRY

S&R(R) ZONE

IAHE Campus,
A-5, Sector-62,
Noida-201301.

1. No. RW/NIH-33944/29/2015/S&R(R)

Dated: 22nd November, 2016

To,

1. The Chief Secretaries of all the State Governments/ UTs
2. The Principal Secretaries/ Secretaries of all States/ UTs Public Works Department dealing with National Highways, other centrally sponsored schemes.
3. All Engineers-in-Chief and Chief Engineers of Public Works Department of States/ UTs dealing with National Highways, other centrally sponsored schemes.
4. The Director General (Border Roads), Seema Sadak Bhawan, Ring Road, New Delhi-110 010.
5. The Chairman, National Highways Authority of India, G-5 & 6, Sector-10, Dwarka, New Delhi-110 075.
6. The Managing Director, NHIDCL, PTI Building, New Delhi-110001

Subject: Accommodation of Public and Industrial Utility Services along and across National Highways – Policy guidelines regarding.

Sir,

The Government has realized that development of infrastructure across the Country in a sustainable and integrated manner continues to be an imperative for improving the state of economy, enhancing quality of life of the citizens and ensuring equitable development throughout the country.

Land being among the most precious of natural resources available, optimum utilization of land shall play a critical role in integrated development of infrastructure. One of the ways to effect such optimum utilization is leveraging land within National Highway (NH) Right of Way (ROW) for laying utility services. This may be achieved through granting permissions for laying utility services along and /or across the ROW. However, environment and safety of the road users are the prime factors in deciding permission for utility services. Permission may be denied, if it is not feasible to ensure safety and environment through requisite safeguards. The Administration of ROW, has been defined in the National Highway Land and Traffic Control Act 2002 and relevant Rules 2004.

Keeping in view the need for consistency and clarity, in supersession of all the instructions contained in the earlier previous circulars on the subject, following guidelines shall apply for accommodation of Utility Services along and across National Highways.

2. Laying of Utility Services along the National Highways:

2.1 There shall be a provision for utility ducts for appropriate categories/combination of utilities in the construction of new/4-6 laning of National Highways. The ducts shall be located at appropriate location preferably as close to the extreme edge of ROW.

2.2 Utility services shall be laid in the utility ducts, if provided for the purpose.

2.3 In stretches where utility ducts have not been provided, the utility services shall be located beyond the toe line of the embankment and drains, as close to the extreme edge of the ROW as possible. While granting permission, requirement of up-gradation also needs to be kept in view.

M. J. Kumar

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 not be more than 1.2m from the ground level.

The utility service shall be laid over existing culverts and bridges except through the embankment where such provision exists. In case of absence of such provisions, the Licensee shall make his own arrangement for crossing of cross drainage structure, rivers, etc. below the bed.

3.6 In exceptional cases, where ROW is restricted the utility services can be allowed beneath the carriageway of service road, 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 in such case shall not be less than one lane. In such cases, it also needs to be ensured 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 as per the agreement.

3.7 Laying of Utility Services across the National Highway:

3.7.1 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.

3.7.2 Existing drainage structures shall not be allowed to carry the lines across.

3.7.3 The utility services shall cross the National Highway preferably on a line normal to it or as nearly so as practicable.

3.7.4 The casing/conduit pipe may be installed under the road embankment either by boring or digging a trench. Installation by boring method shall be preferred.

3.7.5 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 wider, (but not more than 60 cm wider), than the outer diameter of the utility pipe. Filling of the trench shall conform to the specifications contained here-in-below or as supplied by the Highway Authority.

3.7.5.1 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.

3.7.5.2 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.

3.7.5.3 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 modified 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.

3.7.5.4 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.

3.7.6 When utilities are allowed overhead, the horizontal and vertical clearance in accordance with the IRC shall be maintained.

4. Procedure for processing application for granting permission for use of highway land: Any person who intends to obtain permission shall make an application online in the prescribed form to Highway Administration or an officer authorized by Highway Administration on his behalf. The application must mention details the various safety clearances from the respective authorities such as Directorate of Electricity, Chief Controller of Explosives, Petroleum and Explosives Safety Organization, Oil Industry Safety

Mansur Khan

Environment, State/Central Pollution Control Board and any other statutory clearances as applicable, which must be obtained by the Applicant before applying to the Highway Administration.

The application shall be put out in the public domain for 30 days for seeking claims and objections (on grounds of public inconvenience, safety and general public interest). The permission for laying utility services is to be normally granted within 30 days from the day of closure of public objections and claims. If no communication is received from the Highway Administration within 30 days from the day of closure of public objections and claims, the permission shall be deemed to be granted. The initial permission would be valid for a maximum of 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.

5. Charges for granting licence for use of highway land: For the purpose of license fee/lease rentals, the utilities have been divided into two categories; i) Public utilities and b) Industrial utilities as per the details given in Annexure I.

License Fee/lease rentals described below is for Industrial utilities. The license fee for Public utilities shall be 33% of the fee prescribed for Industrial utilities.

5.1 The following methodology shall be followed for license fees/lease rental determination for utility service lines other than localized infrastructure facilities like towers, repeaters and junction boxes).

License Fees (Rs/sq m/ month) = (Utilized NH land area X prevailing Circle Rate of land per unit area) / (10 x 12) where,

Utilized NH land area = Outer diameter/width of the concerned utility line X length

5.2 The following methodology shall be followed for license fees/lease rental determination for utility services such as towers/repeaters/ junction boxes etc.

License Fees (Rs/sq m/ month) = (Utilized NH land area X prevailing Circle Rate of land per unit area) / (10 x 12) where,

Utilized NH land area = Projection of utility on the ground including area of support system/tower.

However, for public utilities, area below the support system/tower shall only be charged.

5.3 Fee shall have to be paid in advance for the period for which permission is granted. 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.

5.4 A system to redress grievances and to consider relaxation from the guidelines, in exceptional cases, shall be notified separately and shall be effective from the date of notification.

6. All required restoration, maintenance work subsequent to laying of utility services 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. To process for the granting of permission and prior to signing of Lease agreement, a Performance Bank Guarantee for an amount based on per metre with a validity of one year initially, in the prescribed format (extendable if required till satisfactory completion of work) shall have to be furnished by the utility service provider/ Licensee, as a security against improper restoration of ground in terms of

Mangy Kumar

- Executive Engineer(NFSG) (S,R&T) (Roads)
For Director General (Road Development) & SS

Guideline for the Identification, Construction and Maintenance of Industrial Infrastructure

a. Public Utility Provider

A Public Utility Provider in context of this Guideline shall mean any organization that provides and maintains the infrastructure for a public service like electricity, gas, water supply, telecom cables and sewage disposal subject to applicable regulation.

b. Eligible activities for Industrial Units or 'Industrial Infrastructure'

Industrial Infrastructure in context of this Guideline shall mean any physical infrastructure that is required to facilitate industrial operations and is constructed, operated and maintained along/across Right of Way of National Highways. Such infrastructure shall include the following:

- a. Underground & above ground pipelines including provisions for booster pumping facilities, maintenance bays and other required support infrastructure for transport of legally permitted materials for industrial usage by a business entity having valid license for industrial operations.
- b. Conveyor Belts including provisions for maintenance bays and other required support infrastructure for transport of legally permitted materials, by a business entity having valid license for industrial operations.
- c. Power cables/wires etc. meant for industrial usage by a business entity having valid license for industrial operations.
- d. Any other such associated industrial infrastructure facility.

Application Details [20250403/2/1/28348/54426]

Highway	NH785E [NH785E] Category: 4 Lane
District and State	DINDIGUL (TAMIL NADU)
Location	36.690-61.115
Chainage in Km	61.1 (Km) To 61.104 (Km)
Side of NH (Left or right side of NH towards: Increasing Chainage/ Km/ Direction)	Left
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	K.KARUPPIAH Address: EXECUTIVE ENGINEER TWAD BOARD RWS DIVISION NEW INTEGRATED OFFICE BULIDING OPP TO KV SCHOOL SIVAGANGAI 630561, SIVAGANGAI (TAMIL NADU), PIN: 630561 Phn: 6379775869 Email: eerwssvg@gmail.com
Application Type	New
Application Category	Retail/Way side Aminities
Submitted On	

Details

Service Road Provided *		No
Stretch Type *		Rural
1. Acceleration lane *	Minimum 100m	NA
2. Deceleration Lane *	Minimum 70m	NA
3. Distance from intersection:		

Intersection with any category of road/ Median Gap *	Minimum 300 m	NA
4. Distance from Check barrier/Toll Plaza/Railway level crossing *	Minimum 1000m	NA
5. Distance from start of approach road of Road Over Bridge *	Minimum 200m	NA
6. Distance from start of Grade Separator/ Flyover *	Minimum 300m	NA
7. Distance from nearest Fuel Station		
Undivided carriageway (for both side of carriageway), *	300 m- Undivided carriage way	NA
Divided carriageway (with no gap in median at this location) *	1000m-Divided carriage way	NA
8. Provision of service/ connecting road *	Necessary at clustering of retail outlet/ intersection with any category of road less than 300m/1000m	No
9. Gradient of Highway section *	Maximum 5%	NA
10. Slope of Fuel Station Premises/Service Area for drainage purpose *	Minimum 2%	NA
11. Width of Frontage of Plot *	Minimum 35m	NA
12. Depth of Plot *	Minimum 35m	NA
13. Length of Buffer Strip *	Minimum 12m	NA
14. Width of Buffer Strip extending inside ROW *	Minimum 3m	NA

15. Height of kerb for buffer strip *	Minimum 275mm	NA
16. Radius of Turning Curve *	Minimum 13 m	NA
17. Radius of Non-turning curve *	Minimum 1.5m Maximum 3m	NA
I. Whether additional Land Acquisition as above is required by the side of ROW (to provide prescribed turning radius) has been done by the owner of the fuel station *		No
II. If Yes, mention the additional L.A. required to be done by the owner of the fuel station. *	[Mention Area (sq.m.)]	NA
III. Whether additional Land Acquisition as above is required by the side of ROW (to provide prescribed turning radius) has been done by the owner of the fuel station *		No
IV. If Yes, whether the documentary evidence of the L.A. details are attached *		NA
18. Minimum downward slope of access roads towards the fuel station. *	Minimum 2%	NA
19. Difference in level between the highway and the fuel station and access area measured at the edge of the shoulder on the highway. *	Minimum 300 mm	NA
20. Provision of Culvert,		NA

designed for drainage according to IRC:SP-13 *

1. Provision of drinking water and toilet facilities *

Drawing showing these arrangements as per satisfaction of highway authorities to be submitted

No

11. Provision of proper drainage arrangement for fuel station premises *

Drawing showing these arrangements as per satisfaction of highway authorities to be submitted

No

21. test1

22. Provision of adequate signs, display board and markings as per the drawings *

Minimum requirement as shown in the Drawing

NA

23. Whether the oil company has certified that the fuel station is neither in operation nor energized and that construction of the fuel station has not been commenced. *

NA

Locations

Sno	Highway /Stretch	From (Km.)	From (To.)	Details
1	NH785E [NH785E] (36.690-61.115)	Km: 61.1 Lat: 10.2214 Lng: 78.2256	Km: 61.104 Lat: 10.3214 Lng: 78.2256	Area(Sq.Mt.): 61.2 Diameter(Mt.): 0 Length(Mt.): 0

Documents

Suo	Stage	Document	Mandatory	Action
1	Under Submission	Signed copy of license deed.	Yes	—

2	Under Submission	Undertaking from the oil company/Owner that the oil company/owner would pay necessary fee for the use of the National Highway land whenever the fee is asked by the Highway Authorities in future.	Yes	--
3	Under Submission	Detail of the material for pavement composition for deceleration lane, service road and acceleration lane.	Yes	--
4	Under Submission	Certified copy of sectional view showing elevation of Fuel Station with respect to National Highway and slopes to be provided for adequate drainage and preventing water logging on National Highway.	Yes	--
5	Under Submission	Drainage plan of the Fuel Station.	Yes	--
6	Under Submission	Undertaking from Oil Company that necessary alteration including complete removal/shifting of the approach roads at its own cost if so required by Ministry, for the development of National Highway or in the interest of safety in this section.	Yes	--
7	Under Submission	Undertaking from Oil Company that they shall take all the action as prescribed in Appendix I to ensure conformity of these Norms. For Access to Fuel Stations along National Highways.	Yes	--
8	Under Submission	Undertaking from the Oil Company that the fuel station is neither in operation nor energized and that construction of the fuel station has not been commenced.	Yes	--
9	Under Submission	Documentary evidence of additional Land Acquisition details (if required) beyond the available ROW (to accommodate service roads, deceleration / acceleration lanes, turning radius etc.) done by the owner of the fuel station.[NOTEâ€” It needs to be specifically mentioned if the same is not applicable/required.]	No	--

10	Under Submission	Undertaking from Owner that they shall take all the action as prescribed in Appendix II to ensure conformity of these Norms. For Access connection to Residential Properties (RP) and other Properties (OP) in Urban, Built up & Rural Reaches.	Yes	--
11	Under Submission	Certified copy of location plan of the Fuel Station along the National Highway showing details of Right of Way (ROW) of National Highway, existing intersections and the intersecting roads, including existing public roads and other developments, falling within a reach of 1.1 km in each side of the Fuel Station and carriageway	Yes	--
12	Under Submission	Certified copy of plan of the proposed Fuel Station showing details of deceleration, acceleration lanes, service road (if provided), buffer strip, fuel pump, office, kiosk, lubritorium, air and water supply, toilet & drinking water facilities, drainage details, signages and markings conforming to applicable figures enclosed with these norms	Yes	--
13	Under Submission	Inspection Report of EE,NH/PD,NHAI	No	--
14	Under Submission	Land Ownership record, Khata certificate/Record of rights	Yes	--
15	Under Submission	Letter of Intent issued by Oil Company	Yes	--
16	Under Submission	If Letter of intent (LOI) holder is not land owner, then give lease agreement from land owner to LOI holder for leasing of land on which Retail fuel station is located	No	--
17	Under Submission	Any Document to indicate commercial activities are allowed on the land.	Yes	--
18	Under Submission	General Power of Attorney given by Oil Company for signing the License Deed	Yes	--
19	Under Submission	If Retail Fuel station is a Company Owned and Company Operated (COCO) fuel station, then upload lease agreement given by Land Owner to Oil Company	No	--

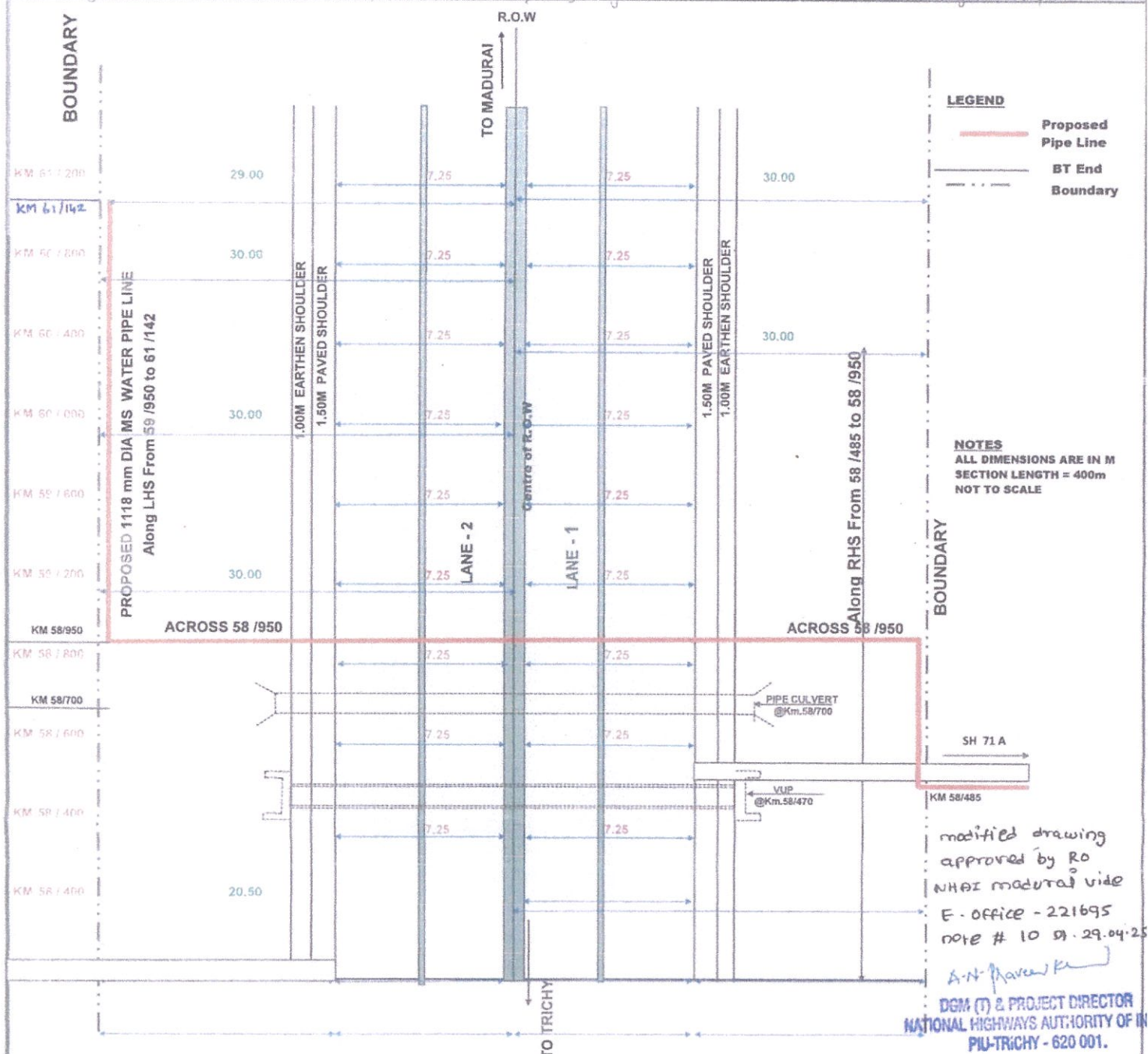
20	Under Submission	For Urban area Retail Fuel station: Population certificate issued by the competent authority indicating population as per latest census	No	--
21	Under Submission	Bank Guarantee	No	--

Applicable Fee Details

Sno	Fee Head	Stage	Fee	Amount	Status
1	Application Fees	Under Submission	Processing Charges	10000.00	
2	Application Fees	Issue of Provisional NOC	Provisional Fees	20000.00	
3	Application Fees	Final Approval	License	319070.85	

Laying of water pipe line 1118mm dia MS pipes along NH - 38 TRICHY - MADURAI (NHAI) near Thuvarankurichin from Along KM 58/485 to 58/950 (RHS) - Across KM 58/950 (59m) and Along KM 58/950 to 61/142 (LHS) NHAI - 38 in Trichy - Madurai road

Along KM 58/485 to 58/950 (465m) (RHS). Across KM 58/950 (⁶⁰59m). Along 58/950 to 61/142 (2192m) (LHS). Total length = 2717m



Assistant Engineer
TWAD BOARD
RWS Sub Division,
Singapore.

Assistant Executive Engineer
TWAD Board, Project Sub Division
Sivagangai

Executive Engineer, TWAD Board
RWS Division, Sivagangai

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

A. Scho

