



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

दूसरा व तीसरी तल, विजय कृष्ण प्लाज़ा, संख्या-1, लेक एरिया, मेलूर मेन रोड, माटुतावनी, मदुरै-625 007
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NHAI/15018/4.7/01/2023/RO Madurai/1263

24th July, 2023

INVITATION OF PUBLIC COMMENTS

विषय: भाराराप्रा - क्षे.का. मदुरै- पकाई, तूतीकोरिन -Proposal for providing JJM-MVS 22-23-CWSS to 363 Habitations in Thoothukudi district- Laying of pumping main along National Highways from Km. 234/200 to Km.245/500(LHS) and from Km. 245/500 to Km. 246/800(RHS) and trenchless crossing at Km. 245/500 of NH-45B (New NH-38) -Invitation of Public Comments - Reg.

प्रसंग: PD, Tuticorin Lr. No. 11012/NHAI/PIU/TUT/TWAD/2023/713 dated 27.06.2023.

The proposal received from PD, Tuticorin vide Lr. No. 11012/NHAI/PIU/TUT/TWAD/2023/713 dated 27.06.2023 there by requesting permission Laying of pumping main along National Highways from Km. 234/200 to Km.245/500(LHS) and from Km. 245/500 to Km. 246/800(RHS) and trenchless crossing at Km. 245/500 of NH-45B (New NH-38) as per proposal submitted by EE,TWAD Board, Tuticorin.

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

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

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

महेंद्र मीना
24/07/23

महेंद्र मीना | MAHENDRA MEENA
उप प्रबंधक (तक) | DY. MGR (Tech)

संलग्न: As above

प्रतिलिपि:

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



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

उप महाप्रबंधक (तकनीकी) सह परियोजना निदेशक के कार्यालय
परियोजना कार्यान्वयन इकाई

Office of the Deputy General Manager (Tech) cum Project Director
Project Implementation Unit

नं : 2/273, पहला तल, पी.एस.पी.नगर, दूसरा स्ट्रीट, कोरम्पल्लम, तूतुकुडि - 628 101.

No: 2/273, 1st Floor, P.S.P. Nagar, 2nd Street, Korampallam, Tuticorin - 628 101.



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ई-मेल / E-mail : piututynhai@gmail.com
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11012/NHAI/PIU/TUT/TWAD/2023/ 713

27.06.2023

To,

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

Sub: NHAI-PIU-TUTICORIN-Four laning of Madurai – Tuticorin section from Km. 138.800 to Km. 266.865 of NH-45B in the state of Tamilnadu-Proposal for Providing JJM-MVS 22-23 – CWSS to 363 Habitations in Thoothukudi district - Laying of pumping main along National Highways from Km 234/200 to Km.245/500 (LHS) and from Km. 245/500 to Km. 246/800 (RHS) and trenchless crossing at KM 244+500 of NH-45B (New NH-38)Submitted – , Approval requested – Reg.

Ref: EE, TWADLr No 15623/F.JJM-363/RWS/TCN/23 Dated:15.06.2023.

Sir,

I invite your kind attention to the above subject matter, wherein the Executive Engineer, TWAD Board, Tuticorin vide reference above cited has submitted the proposal seeking permission for laying of water supply pipeline various dia HDPE / DI pipes along the road from Km 234/200 to Km.245/500 (LHS) and from Km. 245/500 to Km. 246/800 (RHS) by Open Trench Method & across the road at Km.244/500 by Trenchless Method on Madurai – Tuticorin section of NH 38 in the state of Tamilnadu.

2. The proposed site has been inspected by the undersigned, during the inspection time it is observed that the proposed crossing location shall be affected by blackspot location the same has been communicated to the Executive Engineer to modify the proposal.

3. Accordingly, Executive Engineer, TWAD Board, RWS Division, Thoothukudi has submitted the revised proposal after rectifying the observation:

4. The proposal is examined as per Ministry's Circular No. RW/NH 33044/27/2005/S&R @ pt. Dated.06.08.2013 and RW- NH/33024/29/2015/S&R@ dated 22.11.2016 and subsequent Amendment dated 17.04.2023 other circulars and the following points are made:

A. The Terms and conditions for laying Water Supply Pipeline along road from Km 234/200 to Km.245/500 (LHS) and from Km. 245/500 to Km. 246/800 (RHS)& across the road at Km.244/500 of Madurai-Tuticorin Section of NH-38 (Old NH-45B) are as given below:

1. The proposed 500mm dia drinking water PVC pipeline shall be laid only in the allotted location from Km 234/200 to Km.245/500 (LHS) and from Km. 245/500 to Km. 246/800 (RHS)(12,600Rmt).

Corporate Office:

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

Regional Office:

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

National Highways Authority of India

2. The proposed pipelaying activities shall be carried out as close to the extreme edge of the Row.
3. Prior to commencement of the proposed activities on ground, a performance bank guarantee with a validity of one year initially shall have to be furnished by the licensee to the Authority towards restoration charges.
4. Appropriate licensee fee shall be collected as below [License Fees (Rs/sqm/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. Hence, the utilized NH land area for pipe line work is 15,120sqm (12600 x 1.20m).
5. Necessary Sign boards have to be provided in the working zone.
6. During the execution of work, at most care should be taken and not to cause any damages to the road properties like drains, service roads, shoulders, avenue plantations, signboards and existing utilities.
7. Excavation work shall be carried out as per the instructions and in the presence of NHA/ Representatives / IE.
8. During rainy season, extra care shall be taken to avoid accidents the excavated portions.
9. If the restorations of excavated portions are not done as per MoRTH specifications, cost of the same will be recovered from the applicant's security deposit.
10. No digging of the Carriage way shall be allowed.
11. The agreement provisions and undertaken regarding methodology for the above work submitted by the Executive Engineer, TWAD Board, RWS Division, Tuticorin shall be strictly followed.
12. Free flow of traffic shall be maintained while carrying out the work.
13. The Pipeline will not be laid over the existing culverts and bridges.
14. The pipeline will be placed without any interference to the maintenance of the road.
15. Prior approval of department shall be obtained before undertaking the work of installation, shifting, repairs or alteration to the utility line located in the NHA's right of way.
16. Any damage during the crossing of HDPE and DI Pipes for the existing service lines (Gas pipeline, water pipeline, electric line or any other line) should be got repaired immediately at the agency's own risk and cost.
17. Before starting the work, prior written information by registered post (AD)should be given to the Project Director, NHA, PIU –Tuticorin.
18. Cautionary boards should be kept on site before starting the work of laying of water pipeline.



National Highways Authority of India

19. If NHAI considers it necessary in future to remove the pipeline for any work of improvement/ repairs of road, it will be carried out as desired by NHAI at the cost of agency within reasonable time.
20. The Government does not guarantee the preservation of agency's property from any type of damage that may occur due to road work carried out at a later date.
21. In any accident occurs during the execution or completion of work by the agency, the complete responsibility shall be fully rest with the agency.
22. To pay a security deposit of Rs. 100/- Running meter for laying along the road and Rs. 1,00,000/- per Crossing for laying across the road in the form of Bank Guarantee to NHAI before to start the work.
23. Execute an agreement on stamp paper of Rs.100/- with NHAI and Executive Engineer Tamilnadu Water Supply and Drainage Board, Tuticorin before start of work. This shall also include No claim certificate.
24. To pay the license fee as calculated in the form of "Bharatkosh" Portal.
25. All the restoration work will be carried by Executive Engineer Tamilnadu Water Supply and Drainage Board, Tirunelveli up to the satisfaction of NHAI.

The Total Security Deposit for laying of Water pipeline along the road from Km 234/200 to Km.245/500 (LHS) and from Km. 245/500 to Km. 246/800 (RHS)& across the road at Km.244/500 by Trenchless Method in NH-38 (Old NH-45B) in form of Bank Guarantee and restoration charges (**Annexure-A**) shall be collected from the Executive Engineer Tamilnadu Water Supply and Drainage Board, Tuticorin before execution of work.

Hence the proposal for laying Water pipeline is sent herewith for kind perusal and approval of the Competent Authority. If approved, the undersigned may be authorized to execute the license agreement with the Executive Engineer Tamilnadu Water Supply and Drainage Board, Tuticorin for laying of Water pipeline along the road at from Km 234/200 to Km.245/500 (LHS) and from Km. 245/500 to Km. 246/800 (RHS)& across the road at Km.244/500 by Trenchless Method in NH-38 (Old NH No.45B of Madurai-Tuticorin stretch).



(Y.A. RAUT)

PROJECT DIRECTOR

Encl: 3 set of Proposal & Copy of the references.

Copy to: The Executive Engineer TWAB, Tuticorin-For information.

Annexure - A

1. Restoration charges in the form of BG as per Ministry Circular Lr.No.RW/NH33044/29/2015-S&R(R) dt:22.11.2016.

Restoration charges BG.

- (i) Along the road from Km 234/200 to Km.245/500 (LHS)
and from Km. 245/500 to Km. 246/800 (RHS), (Rs.100 X 12600) = Rs. 12,60,000/-
- (ii) Across the road by trenchless method (km244+500) = Rs. 1,00,000/-
- Sub total** = Rs. 13,60,000/-
- (iii) Centage charge 19% P.S. Charges 1.5%
PC Charges 1 % contingencies 2%
Total 23.5% =Rs. 3,19,600/-

TOTAL RESTORATION CHARGES

= Rs. 16,79,600/-

2. One time license fee / rental fee for laying water supply pipe line by the Executive Engineer, TWAD Board, Tuticorin.

[Utilized NH Land area X prevailing Circle Rate of Land per unit area] / (10X12)

SN	Name Of Village	Chainage In Km		Side	Length (L) (In Mt)	Dia Of The Pipe (D) (M)	Utilized Nh Land Area (D X L) (Sq.M)	Prevailing Circle Rate Of Land Per Unit Area (Sq.M) (Rs)	LICENSE FEE (PRIVATE UTILITY) (Rs)/month
		From	To						
1	Pudurpandiyapuram	234/200	245/500	LHS	11300	1.20	13560	460	51,980
2	Pudurpandiyapuram	245/500	246/800	RHS	1300	1.20	1560	460	5,980
TOATL									57,960

License Fee for Private utility

=Utilities NH land area x prevailing circle rate of land per unit area / (10x12) x 60
= 15120 X 460 X 60 months = Rs.57,960 X 60 = Rs.34,77,600/-
120

License fee for Public Utility

=33.0% License fee of Private Utility

=33/100 X 34,77,600/-

=11,47,608/-

Hence the License Fee = Rs.11,47,608/-

From
Er. N.Raja, B.E
Executive Engineer,
TWAD Board, RWS Division,
Thoothukudi.

TWAD Board,

To
The Project Director,
National Highways Authority of India,
Korampallam,
Thoothukudi.

Lr.No.15623/F.JJM-363/RWS/TCN/23/dt.15.06.2023

Sir,

Sub :- JJM - MVS 22-23 - CWSS to 363 habitations in Thoothukudi District - Laying of Pumping main along NHAI Road - Proposal sent - Permission requested - Reg

Ref :- 1. Administrative sanction vide G.O.(Ms.)No.166 /MA&WS(WS.1) Dept./Dt. 23.11.2022 for Rs. 515.72 crores.
2. Technical sanction vide CER/TWAD/MDU No. 64 / 2022-23 / Dt. 30.11.2022 for Rs. 430.41 crores.

♦ ♦ ♦ ♦ ♦

I wish to state that the Government of Tamilnadu have accorded administrative approval vide reference 1st cited for Rs. 515.72 crores for the implementation of above CWSS and Technical sanction accorded vide reference 2nd cited. TWAD Board is executing this Scheme. The source for the Scheme is river Tamiraparani at Agaram near Vallanadu. The alignment of water carrying pumping main is proposed along the National Highways road (NHAI - 138,38) as detailed below.

1 Location

Along the Berm in the Road of


- 1) Thoothukudi - Tirunelveli - 1.05 Km
- 2) Madurai - Thoothukudi - 23.40 Km
- 3) Madurai - Thoothukudi - 13.90 Km
- 4) Madurai - Thoothukudi - 0.50 Km

Type : National Highways Authority of India - NHAI - 138, 38
Size of water carrying pipe : 1)500mm dia DI pipes
2)280 HDPE to 125 mm HDPE
3)315 HDPE to 140 mm HDPE
4)200 mm HDPE
Trench : Open cutting
(W-1.00M ; D- 1.85M)

2 The guideline value for the Lands are downloaded from website and enclosed for calculating restoration charges and license fee.

The detailed drawing for pipeline laying is enclosed herewith. I request that the road restoration charges may be intimated to this office early for remittance and necessary permission may be issued to lay the pipeline.

Encl :- Proposal booklet - 16 Nos.


Executive Engineer,
TWAD Board, RWS Division,
Thoothukudi



TAMILNADU WATER SUPPLY AND DRAINAGE BOARD



**Laying of water pipe line Along NH – 38 - Madurai - Thoothukudi (NHAI) from
KM 234+200 to 245+500 (LHS), KM 245+500 to 246+800 (LHS& RHS) and
Trenchless crossing at KM 244+500**

**APPLICANT:
EXECUTIVE ENGINEER
TWAD BOARD,
RWS DIVISION,
THOOTHUKUDI.**

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

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

Sl. No.	Item	Information / Status	Remarks
I	General Information		
1.1	Name and Address of the Applicant/Agency	TWAD Board, Government Department	
1.2	National Highway Number	NHAI 38	
1.3	State	Tamil Nadu	
1.4	Location	Madurai - Thoothukudi Road	
1.5	Chainage in Km	234/200 - 245/500 (LHS) 245/500 - 246/800 (LHS) RHS	
1.6	Length in Meters	Trenching method - 1340 KM	
1.7	Width of available ROW		
	(a) Left side from center line towards increasing chainage/km direction	28.5 m	
	(b) Right side from center line towards increasing chainage/km direction	28.5m	
1.8	Proposal to lay underground electrical tube	Not applicable	
1.9	Proposal to acquire land		
	(a) Left side from center line	Nil	
	(b) Right side from center line	Nil	
1.10	Whether proposal is in the same side where land is not to be acquired	Not applicable	
	If not then where to lay the cable		
1.11	Details of already laid services, if any, along the proposed route	--	
1.12	Number of lanes (2/4 / 6/8 lanes) existing	2/4	
1.13	Proposed Number of lanes (2 lane with paved shoulders/4 / 6/8 lanes	--	
1.14	Service road existing or not	Existing	
	If yes then which side		
	(a) Left side from center line	LHS	
	(b) Right side from center line	RHS	
1.15	Proposed Service road	Nil	
	(a) Left side from center line		
	(b) Right side from center line		
1.16	Whether proposal to lay Water Supply Pipe line is after the service road or between the service road and main carriageway	-	

Executive Engineer
TWAD Bd.Rws Dn.Thoothukudi


Y.A. RAUT
Project Director
NHAI, PIU - Tuticorin

Sl. No.	Item	Information / Status	Remarks
1.17	The permission for laying for Water Supply Pipe Line shall be considered for approval/rejection based on the Minisry Circulars mentioned as above. (a) Carrying of sewage/gas pipelines on highway bridges shall not be permitted as Furnes/gases pipes can accelerate the process of corrosion or may cause explosions, thus, being much more injurious than leakage of water. (b) Carrying of water pipe lines on bridges shall also be discouraged. However, if the weater 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 positions 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. (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 the concurrence of the Ministry's Project Chief Engineers only	Not applicable	
1.18	If Crosings 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	No	
	(a) Existing drainage structures shall not be allowed to carry the lines	NA	
	(b) Is it on a line normal to NH	Yes	
	(c) Crossing shal not be too near the existing structures on the National Hgihway, the minimum distance being 15 meter. What is the distance from	--	
	(d) The casing pipe (or conduit pipe in the case of electric tube) 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, closed with Brickwork.	
	(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	


 Executive Engineer
 TWAD Bd.Rws Dn.Thoothukudi


Y.A. RAUT
 Project Director
 NHAI, PIU - Tuticorin

Sl. No.	Item	Information / Status	Remarks
	(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 types	Trenchless Method	
	(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	--	
2	Document/Drawings enclosed with the proposal	Alignment Plan, License deed, Under taking	
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)	Enclosed	
	(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 center-lines of the nearest carriageway	22 meter from center line	
	(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.	Pipe line is to be laid below Ground level as follows KM 234/200 - 236/700 = 2.50Km (110mm HDPE pipe) 236/700 - 245/500 = 8.80Km (140mm HDPE pipe) 245/500 - 246/800 = 1.30Km (315mm HDPE pipe)	
2.2	Cross section showing the size of pit and location of cable for HDD Method	Shown in the plan	
2.3	Strip plan/Route Plan showing Water supply pipe line, Chainage, width of ROW, distance of proposed, cable from the edge of ROW, important mile stone, intersections, cross drainage works etc.	Plan showing the water supply pipe line enclosed	
2.4	Methodology for laying of showing Water Supply pipe line	Open Trenching 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.		
	(a) The trench width should be at least 30 cm, but not more than 60 cm wider than the outer diameter of the pipe	Width as 60 cm	

Executive Engineer
TWAD Bd.Rws Dn.Thoothukudi

Y.A. RAUT
Project Director
NHAI, PIU - Tuticorin

Sl. No.	Item	Information / Status	Remarks
	(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. Refilling to a depth of 1.05 m above the laided pipes.	
	© 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 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	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	
	(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	--	
2.4.3	Laying of Water Supply Pipe Line through CD works and method of laying		
	(a) On approaches, the water mains/cables shall be carried along a line as close to the edge of the right-of way as possible up-to a distance of 30 m from the bridge and subject to all other stipulations contained in this Ministry's guidelines issued with letter no. NH-HI/P/66/76 dated 19.11.1976	Yes	
3	Draft License Agreement signed by two witnesses	Yes (enclosed)	
4	Performance Bank Guarantee in favour of NHAI has to be obtained @ Rs. 50/- per running meter (parallel to NH) and Rs. 1,00,000/- 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	Road Restoration Charges will be remitted to NHAI by cheque	


 Executive Engineer
 TWAD Bd. Rwa Dn. Theotbukyd


Y.A. RAUT
 Project Director
 NHAI, PIU - Tuticorin

Sl. No.	Item	Information / Status	Remarks
4.1	Performance BG As per above is to be obtained	BG/DD given as per NHAI norms	
4.2	Confirmation of BG has been obtained as per NHAI guidelines	Yes	
5	Affidavit/Undertaking from the Applicant for		
5.1	Not to Damage to other utility, if damaged then to pay the losses either to NHAI or to the concerned agency	Under taking given	
5.2	Renewal of Bank Guarantee	Not applicable	
5.3	Confirming all standard condition of NHAI's, guideline	Yes	
5.4	Shifting of Water Supply pipe line as and when required by NHAI at their own cost	Accepted by TWAD Board	
5.5	Shifting due to 6 laning/widening of NH	At their own cost of TWAD Board	
5.6	Idemnity against all damages and claims clause (xxiv)	Under taking given	
5.7	Traffic movement during laying of Water Supply pipe line to be managed by the applicant	Under taking given	
5.8	If any claim is raised by the Concessionaire then the same has to be paid by the applicant	Yes	
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 Supply pipe line located in the National highway right-of-ways	Yes	
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 Supply pipe line will be borne by the agency owning the line.	Yes	
5.11	If the NHAI consider 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	
5.12	Certificate from the applicant in the following format (i) Laying of Water Supply pipe line will not have any deleterious effects on any of the bridge components and roadway safety for traffic. (ii) for 6 laning "We do undertake that I will relocate serice road/approach road/utilities at my own cost not with standing the permission granted within such time as will be stipulated by NHAI" for future six-lanning or any other development	Certificate given. Under taking by the Executive Engineer, TWAD Board, RWS Division, Thoothukudi	
6	Who will sign the agreement on behalf of of Water Supply pipe line agency	Executive Engineer, TWAD Board, RWS Division, Thoothukudi	

Executive Engineer
TWAD Bd.Rws Dn.Thoothukudi

Y.A. RAUT
Project Director
NHAI, PIU - Tuticorin

Sl. No.	Item	Information / Status	Remarks
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 31.01.1969, Ministry Circular No. NH-III/P/66/76 dated 18/19.11.1976, Ministry Circular No. RW/NH-III/P/66/76 dated 11.05.1982, Ministry Circular No. RW/NH-11037/1/86-DOI (ii) dated 28.07.1993, Ministry Circular No. RW/NH-11037/1/86/DOI dated 19.01.1995 Ministry Circular No. RW/NH-34066/2/95/ S&R dated 25.10.99 and Ministry Circular No. RW/NH-34066/7/2003 S&R (B) dated 17.09.2003	Yes	
7.2	Certificate from PD in the following format (i) "It is certified that any other location of the Water Supply pipe line would be extremely difficult and unreasonable costly and the installation of Water Supply 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". (ii) for 6-lanning (a) Where feasibility is available "I do certify that there will be no hindrance to proposed six-laning based on the feasibility report considering proposed structures at the said location (b) In case feasibility report is not available "I do certify that sufficient ROW is available at site for accommodating proposed six-laning".	Yes	
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 [-----section from Km _____ to Km _____ of NH No.- ---- --on Build, Operate and Transfer Basis] and therefore, the licensee shall honour the same."	Not applicable	
9	Who will supervise the work of laying of Water Supply pipe line	Assistant Executive Engineers, TWAD Board, RWS Sub Divisions, Thoothukudi.	
10	Who will ensure that the defects in road portion after laying of Water Supply pipe line are corrected and if not corrected then what action will be taken	Assistant Executive Engineers, TWAD Board, RWS Sub Divisions, Thoothukudi.	

Executive Engineer
TWAD Bd. RWS Dn. Thoothukudi


Y.A. RAUT
Project Director
NHAI, PIU - Tuticorin

Sl. No.	Item	Information / Status	Remarks
11	Who will pay the claims for damages done/disruption in working of Concessionaire if asked by the Concessionaire	Executive Engineer, TWAD Board, RWS Division, Thoothukudi	
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 Supply Pipe line then Photocopy of register of records of permissions accorded as maintained by PD then copy be enclosed	Nil	


 29/3/2023
ASSISTANT EXECUTIVE ENGINEER
TWAD Bd. RWS. Sub Division
KOVILPATTI.


 29/3/23
Executive Engineer
TWAD Bd. RWS Dn. Thoothukudi


Executive Engineer
TWAD Bd. RWS Dn. Thoothukudi


Y.A. RAUT
Project Director
NHAI, PIU - Tuticorin

Proposal for Laying of TWAD Water pipe along the road from KM 234+200 to 245+500 (LHS), KM 245+500 to 246+800 (RHS), and Trenchless crossing at KM 245+500 of NH - 38 Madurai - Thoothukudi (NHAI)

General to Accompany All Proposals

Check List

General


- | | | | |
|----|---|---|-----------------------------|
| I. | i] whether the site plan is drawn to a scale of
1: 5000 or 1: 2500 and enclosed | : | Yes Enclosed |
| | ii] Whether the details of 100M on either side of
The utilizing laying have been furnished | : | Yes, Marked in the plan. |
| | iii] Does the site plan show in full | : | Yes. |
| | a] The NH boundary line with distance from
center Line of the road marked at salient points
where the NH land width is changing and also
at 200M intervals | : | Yes. |
| | b] The berm line and distance from centre line at
200M intervals and also at salient point of
change of width of NH land | : | Yes. |
| | c] Center line of pavement and pavement edge
line Marked distinctly. | : | Yes. |
| | d] Medians, if any, marked to scale. | : | Yes. |
| | e] The location of the utility line of proposal with
drainage; showing exact locations and distance
from NH centre line. | : | No medians in this stretch. |
| | f] The existing culvert / drainage works with
dimensions. | : | Yes. |

- 2 a] Purpose of the proposal in details
: To lay water supply pipe line in CWSS to 363 Habitations in Thoothukudi District with river Tamiraparani as source
- b] Exact location of proposal
: NH - 38- Madurai - Thoothukudi (NHAI)
Along the road KM 234 +200 to 245+500 (LHS),
Along the road KM 245+500 to 246+800 (RHS), (LHS)
Across the road at Km - 245+500
- c] Whether the applicant is private agency / public sector / Govt. department
: TWAD Board, RWS Division, Thoothukudi. Govt. of Tamil Nādu.
- d] Any time schedule fixed for the completion of the proposal made.
: As early as possible.
- e] Reasons why the proposal could not be Accommodated outside the N.H. Land
: Not feasible.
- f] Whether any other location other than this not Feasible.
: No other location is possible.
- g] Whether any other than this would be difficult.
: Difficult and not possible.
- h] Whether this proposal when implemented now will affect the design, stability and traffic safety of highway.
: No.
- i] Whether this proposal if implemented now will affect any likely future improvement such as improvements geometric.
: No.
- j] Is there any proposal for improvements in this Stretch or likely to be sanctioned in near future and whether they will be affected by this Proposal.
: No.

CONDITIONS

1. The pipe lines should not be laid longitudinally for considerable length along National Highways.
2. The crossing of pipe lines shall be square i.e., it should be normal to National Highways.
3. Existing drainage structures shall not be used to carry the pipe lines across unless specially permitted by Govt. of India.
4. Pipe line should be provided with a casting pipe of larger dia and with a 0.30m bedding below the casting pipe, if laid across the road.

The above-mentioned rules have been noted for guidance.


23/3/2023
ASSISTANT EXECUTIVE ENGINEER
TWAD Bd. RWS. Sub Division
KOVILPATTI


23/3/23
Executive Engineer
TWAD Bd. Rws Dn. Thoothukudi

Y.A. RAUT
Project Director
NHAI, PIU - Tuticorin

**ANNEXURE TO ACCOMPANY PROPOSALS SUCH AS LAYING UTILITY
SERVICES LIKE PIPE LINES ALONG AND ACROSS NATIONAL HIGHWAYS**

I. LAYING OF UTILITY LINE ACROSS NATIONAL HIGHWAYS:

1. Whether the utility line is as close to the extreme edge of the right of way as possible? If not, the detailed reasons for exceptions. : Yes
2. Whether the utility line is 15M away from the C/L of the nearest carriage way? If not, the Reasons therefore (Distances should be clearly Noted) at salient points and at close intervals. : Yes
3. Does the proposal cover the area where the road formation is in double cutting. : No
4. Does the proposal run over existing culverts and bridges at any place. If so, give reasons why it cannot be avoided. : No
5. Will this proposal interfere with the maintenance of NH at any time by the execution, if permitted. : No
6. Whether the C/S of utility line as it runs along NH is given in the drawings? : Yes
- a] Whether the top of pipe line lie at least 0.6 M below G.L. : Yes
- b] Will it obstruct the drainage of road land : No
7. Is there a proposal to lay electric cable carrying H.T. Line? : No
- a] If so, the necessary certificate by the proposed that it will not have any deleterious effect on any of the bridge components and High way safety for traffic. : Does not arise

B. LAYING OF UTILITY LINE ACROSS NH:

1. Chainage at which it crosses the NH : KM 246+400
2. Does the proposal cross the NH on a line normal to it? If not, the reasons thereof, and why it cannot be taken normal to road. : Yes, on a line normal to it
3. If the proposal for irrigation purpose? If so the concurrence of revenue Dept. has been enclosed. : Not Applicable
4. Whether there is any structure existing within 15M from the crossing? If so, the detail of such. : No
5. The reason why the crossing cannot be shifted to more than 15 from the existing structures. : Does not arise.

C. METHOD OF CASING PIPES:

- 1] Does it pass through special conduits or other structures built for this purpose : No
- 2] Does it use any of the existing drainage structures? : No.
- 3] Whether the conduit pipes have been encased : Yes
- 4] The detail of casing pipes such as its dia, materials etc : 600 mm MS Pipe
- 5] Whether the ends of casing or conduct pipe are sealed from outside so that it may not act as Drainage path. : Yes
- 6] Does the casing conduit pipe extent from drain to drain, if this is cut or from the tie or slope to Tie of slop[e in Care, if this is full. : Yes
- 7] Whether the tops of casing / conduit pipe is 1.2M below the road level subject to the conditions that it lies at least 0.5M below the drain inverts. : Yes

D. METHOD OF LAYING:

1. Will the pipe be installed under road embankment by boring or, trench method. (In case of C.C roads or dense bituminous concrete roads, only boring methods could be adopted)
: Open Trench Method along the road and for crossing -Trenchless Technology
2. If trench method is adopted
 - a] Are the sides of the trench nearly vertical
: Yes
 - b] What is the width of trench? Is it not less than 30cm and not more than 60cms than the outer dia if the casing pipes.
: Mentioned in the drawing
 - c] Whether the bedding is of 30cm thick below the pipe?
: Yes
 - d] Does it consist of granular materials or other Good materials to give a firm surface.
: Good materials to give a firm surface
 - e] Are the above details shown in the sketch
: Yes
 - f] Whether the back fill shall be completed in 2 Stage
: Yes
 - g] Whether the side fill shall consist of pucca materials and whether will it be completed to 95% of its pro density?
: Yes
 - h] Whether the road will be restored to its original state?
: Yes
 - i] Whether all precautions will be taken during execution?
: Yes
 - j] Whether the party agrees to meet the cost of restoring the road to the original position.
: Yes

CERTIFICATE

1. This proposal when implemented will not affect the design stability and traffic safety of National Highways Authority of India.
2. This proposal implemented now, will not affect any likely future improvements such as Improvements to geometries.
3. There is no proposal for improvements in this stretch likely to be sanctioned near future.
4. The proposal is in accordance with the Government of India's Specifications.


23/3/2023
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TWAD Bd. RWS. Sub Division
KOVILPATTI


Executive Engineer
TWAD Bd. Rws Dn. Thoothukudi



தமிழ்நாடு தமில்நாடு TAMILNADU

The Executive Engineer,
RWS Division, TWAD Board,
Thoothukudi.

DB 134581

ச. ரமேஷ் (க.வ)
L No: 1/2021, தூத்துக்குடி
22 MAR 2023

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

Agreement to Lay Water pipe line along the road from KM 234+200 to 246+500 (LHS), KM 245+500 to 246+800 (RHS), and Trenchless crossing at KM 245+500 of NH - 38- Madurai - Thoothukudi (NHAI)

This Agreement made this _____ day of _____ (month) of _____ year between _____ acting in his executive capacity through the President of India/National Highways Authority of India (hereinafter referred to as the "Authority" which expression shall unless excluded by or repugnant to the context, include his successors in office and assigns) of the one part and Executive Engineer, TWAD Board, Urban Division, Tirunelveli (name of the party). (hereinafter called the


Executive Engineer
TWAD Bd. Rws Dn. Thoothukudi

'Licensee') which expression shall, unless excluded by or repugnant to the context, include his heirs its successors/administrator assignees on the second part.

Whereas the Authority is responsible, inter alia, for development and maintenance of lands in along the road from KM 234+200 to 245+500 (LHS), KM 245+500 to 246+800 (RHS) and Trenchless crossing at KM 245+500 of NH - 38- Madurai - Thoothukudi (NHAI) of ROW.

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

Whereas the licensee has applied to the Authority for permission to lay water supply pipes along the road from Water pipe line along the road from KM 232+200 to 246+400 (LHS), KM 245+500 to 246+800 (RHS) and Trenchless crossing at KM 245+500 of NH - 38- Madurai - Thoothukudi (NHAI) of ROW

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

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

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


Executive Engineer
T.W.A.D. Bd. Rws. Dn. Thoothukudi

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 License fee shall become payable from the date of handing over of RoW land to the Licensee, for laying of utilities / cables / conduits / pipelines for infrastructure/service provider. As regards Tariff and Terms and Conditions for Providing Common Utility ducts along National Highways, there shall be a separate agreement regime.
5. Fee shall have to be paid in advance for the period for which permission is granted for entering into a license agreement. In case of renewal, rate prevailing at the time of renewal shall be charged. Delay in deposition of fee shall attract interest @ 15% per annum compounded annually.
6. Present policy of the MoRT& H is to provide a 2.00 m wide utility corridor on either side of the extreme edge of RoW. In case where utility ducts with sufficient space are already available along NH, the Utility services shall be laid in such ducts subject to technical requirements being fulfilled.
7. The utilities services shall be laid at the edge of the RoW. In case of restricted width of RoW, which may be adequate only to accommodate the carriageway, central verge, shoulders, slopes of embankment, drains other road side furniture etc; the utility services shall be laid beyond the toe line of the embankments and clear of the drain.
8. The Licensee shall make his own arrangement for crossing of cross drainage structure, rivers, etc, below the bed. In case, this is not feasible, the utility services may be carried outside the railings / parapets and the bridge superstructure. The fixing and supporting arrangement with all details shall be required to be approved in advance from the concerned Highway Administration. Additional cost on account of fixing and supporting arrangement as assessed by the Authority shall be payable by the Licensee.
9. In exceptional cases, where RoW is restricted the utility service can be allowed beneath the carriageway of service road, if available, subject to the condition that the utility service be laid in concrete ducts, which will be designed to carry traffic on top. The width of the duct shall not be less than one lane. In such cases, it also needs to ensure that maintenance of the utility service shall not interface with the safe and smooth flow of traffic. The cost of operation and maintenance will have to be borne by the Licensee.
10. It is to be ensured that at no time there is interference with the drainage of the road land and maintenance of the National Highways. Towards this, the top of the utility services shall be at least 0.6 meter below the ground level. However, any structure above ground


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shall be aesthetically provide for / landscaped with required safety measures as directed by the concerned Authority;

11. The utility service shall be permitted to cross the National Highway either through structure or conduits specially built for that purpose. The casing / conduit pipe should, as minimum, extend from drain to drain in cuts and toe of slope to toe of slope in the fills and shall be designed in accordance with the provision of IRC and executed following the Specifications of the Ministry.
12. Existing drainage structure shall not be allowed to carry the lines across.
13. The top of the casing / conduit pipe containing the utility services to cross the road shall be at least 1.2m below the top of the sub grade or the existing ground level whichever is lower, subject to being at least 0.3m below the drain inverts. A typical sketch showing the clearances is given in Attachment - 1.
14. The utility service shall cross the National Highway preferable on a line normal to it or as nearly so as practicable.
15. The casing / conduit pipe for crossing the road may be installed under the road embankment either by boring or digging a trench. Installation by boring method shall be preferred.
16. In case of trenching, the sides of the trench should be done as nearly vertical as possible. The trench width should be at least 30 cm. but not more than 60 cms wider than the outer diameter of the pipe. Filling of the trench shall conform to the specifications contained here-in- below or as supplied by the Highway Authority.
 - a. Bedding shall be to a depth not less than 30 cm. It shall consist of granular material, free of lumps, clods and cobbles, and graded to yield a firm surface without sudden change in the bearing value. Unsuitable soil and rock edges should be excavated and replaced by selected material.
 - b. The backfill shall be completed in two stages (i) side – fill to the level of the top of the pipe (ii) Overfill to the bottom of the road crust.
 - c. The side fill shall consist of granular material laid in 15 cm. Layers each consolidated by mechanical tamping and controlled addition of moisture to 95% of the Proctor's Density. Overfill shall be compacted to the same density as the material that had been removed. Consolidation by saturation or bonding will not be permitted.


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ROAD Bd. Rws Dn. Thoo'hukudi

- d. The road crust shall be built to the same strength as the existing crust on either side of the trench or to thickness and specifications stipulated by the Highway Authority.
17. The licensee shall ensure making good the excavated trench for laying utility services by proper filling and compaction, so as to restore the land in to the same condition as it was before digging the trench, clearing debris/loose earth produced due to execution of trenching at least 50m away from the edge of the right of way;
18. All required restoration work subsequent to laying of the cable shall be required to be undertaken by the Licensee at its cost either by itself or through its authorized representative in consultation with the Authority as per predetermined time schedule and quality standards.
19. Prior to commencement of any work on the ground, a performance Bank Guarantee @ Rs. Per route meter / Rs. Per sq m with a validity of one year initially (extendable if required till satisfactory completion of work) shall have to be furnished by the Licensee to the Authority / it's designed agency as a security against improper restoration of ground in terms of filling/unsatisfactory compaction damages caused to other underground installation / utility services & interference, interruption, disruption or failure caused there of to any service etc. In case of the Licensee failing to discharge the obligation of making good of the excavated trench / other restoration work, the Authority shall have a right to make good the damage caused by excavation, at the cost of the Licensee and recover the amount by forfeiture of the Bank Guarantee.
20. In case, the Performance Bank Guarantee invoked as mentioned above, the Licensee shall be required to replenish and reinstate the required performance Bank Guarantee within one month of such invoking. In case the work contemplated herein is not completed to the satisfaction of the Authority, which has granted the permission, within a period of 11 months from the date of issue of the Bank Guarantee, the Licensee shall either furnish a fresh guarantee or extend the guarantee for a further period of one year. Not with standing this, the licensee shall be liable to pay full compensation to the aggrieved Authority / its designated agency for any damage sustained by them by reason of the exercise of the RoW facility;
21. The Licensee shall shift the utility service within 90days (or as specification by the respective Authority) from the date of issues of the notice by the concerned Authority to shift/relocate the utility services, in case it is so require for the purpose of improvement/ widening of the road/route/highway or construction of flyover/bridge and restore the road / land to its original condition at his own cost and risk.


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22. The Licensee shall be responsible to ascertain from the respective agency in co-ordination with Authority, regarding the Location of other utilities/underground installation/facilities etc. the Licensee shall ensure the safety and security of already existing underground installations/utilities/facilities etc. before commencement of the excavation/using the existing cable ducts. The licensee shall procure insurance from a reputed insurance company against damages to already existing underground installations /utilities/facilities etc.
23. The licensee shall be solely responsible/liable for full compensation/indemnification of concerned agency / aggrieved Authority for any direct, indirect or consequential damage caused to them/claims or replacements sought for, at the cost and risk of the licensee. The concerned agency in co-ordination with Authority shall also have a right make good such damages/recover the claims by forfeiture of Bank Guarantee.
24. If the Licensee fails to comply with any condition to the satisfaction of the Authority, the same shall be executed by the Authority at the cost and risk of the Licensee.
25. Grant of Licensee is subject to the Licensee satisfying (a) minimum disruption of traffic and (b) no damage to the highways. As far as possible, the Licensee should avoid cutting of the road for crossing highways, and other roads and try to carry out the work by trenchless technology. In case any damage is caused to the road pavement in this process, the Licensee will be required to restore the road to the original condition at its cost. If due to unavoidable reasons the road needs to be cut for crossing or laying utility services, the Licensee has to execute the restoration work in a time bound manner at its cost either by itself or through its authorized representative in consultation with the Authority as per predetermined time schedule and quality standards. In case of the Licensee failing to discharge the obligation of making good of the excavated trench/other restoration work, the Authority shall have a right to make good the damages caused by excavation, at the cost of the Licensee and recover the amount by forfeiture of the Bank Guarantee.
26. The Licensee shall inform/give a notice to the concerned agency designated by the Authority at least 15 days in advance with route details prior to digging trenches, for fresh or maintenance/repair works. A separate performance Bank Guarantee for maintenance/repair works shall have to be furnished by the Licensee.
27. Each day, the extent of digging the trenches should be strictly regulated so that utility service is laid and trenches filled up before the close of the work that day. Filling should be completed to the satisfaction of the concerned agency designated by the Authority.
28. The Licensee shall indemnify the concerned agency in co-ordination with Authority, against all damages and claims, if any due to the digging of trenches for laying cables/ ducts.


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TWAD Bd.Rws Dn.Thoothukudi

29. The permission for laying utility services is granted maximum for 5 years at a time, which can thereafter be considered for renewal. On payment of additional fee at the time of renewal, the permission shall automatically be renewed, unless defaults exist. In case of renewal, rate prevailing at the time of renewal shall be charged. Delay in deposition of fee shall attract interest @ 15% per annum compounded annually.
30. The permission shall be valid only for the period it is issued and fee deposited. However, the Authority also has a right to terminate the permission or to extend the period of agreement.
31. That the Licensee shall not undertake any work of shifting, repairs or alterations to the utility service without prior written permission of the concerned agency in co-ordination with the Authority.
32. The permission granted shall not in any way be deemed to convey to the Licensee any ownership right or any interest in route/road/highway land/property, other than what is herein expressly granted. No use of NH RoW will be permitted for any purpose other than that specified in the Agreement.
33. During the subsistence of this Agreement, the utility service located in highway land / property shall be deemed to have been constructed and continued only by the consent and permission of the Authority so that the right of the Licensee to the use thereof shall not become absolute and indefeasible by lapse of time.
34. The Licensee shall bear the Stamp Duty Charged on this Agreement.
35. Three copies of 'as laid drawings' of utilities (hard and soft copies) with geo-tagged photographs and geo-tagged video recordings of laying of water pipe line in the trench (with respect to the NH) and after complete restoration shall be submitted to the Authority for verification and record within a month of completion of works.
36. The Licensee shall allow free access to the Set at all times to the authorized representatives of Authority to inspect the Project Facilities and to investigate any matter within their Authority, and upon reasonable notice, shall provide reasonable assistance necessary to carry out their respective duties and functions.
37. The utility services shall not be made operational by the licensee unless a completion certificate to the effect that the utility services has been laid in accordance with the approved specifications and drawings and the trenches have been filled up to the satisfaction of the concerned agency in co-ordination with the Authority has been obtained. Not with standing anything contained herein, this Agreement may be cancelled


Executive Engineer
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at any time by Authority for breach of any condition for any loss caused to it by such cancellation not shall it be absolved from any liability already incurred.

38. The Licensee shall ensure adherence to relevant Indian standards and follow best industry practices, methods and standards for the purpose of ensuring the safe, efficient and economic design, construction, commissioning, operation, repair and maintenance of any part of the utility lines/industrial infrastructure facilities and which practices, methods and standards shall be adjusted as necessary, to take account of:
- a. Operation, repair and maintenance guidelines given by the manufacturers,
 - b. The requirements of Law.
 - c. The physical conditions at the site, and
 - d. The safety of operating personnel and human beings.
39. The Licensee shall have to provide safety measure like barricading, danger lighting and other necessary caution boards while executing the work.
40. While laying utility service, at least one lane of road shall be kept open to traffic at all times. In case of single lane roads, a diversion shall be constructed. If any traffic diversion works are found necessary during the working period such diversion shall be provided at the cost Licensee.
41. After the termination/expiry of the agreement, the Licensee shall remove the utility services within 90 days and the site shall be brought back to the original condition failing which the Licensee will lose the right to remove the utility services. However before taking up the work of removal of utility services the Licensee shall furnish a Bank Guarantee to the Authority for a period of one year for an amount assessed by the Authority as a security for making good the excavated trench by proper filling and compaction, clearing debris, loose earth produced due to excavation of trenching at least 50m away from the edge of the RoW.
42. Any disputes in interpretation of the terms and condition of this agreement or their implementation shall be referred to the redress mechanism prevailing in the Ministry and the decision of the redress mechanism shall be final and binding on all.
43. For PPP Projects, in case of any financial loss incurred by the respective project concessionaires due to such laying/shifting of utility service by the Licensee, compensation for the same shall be required to be borne by the Licensee in mutual agreement with the respective project concessionaries. MoRT & H/ NHAI/ implementing authorities for the project shall not be liable the concessionaire in any way in this regard.


Executive Engineer
PWAD Bd. Rws Do. Thootkukudi

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

Executive Engineer
RWAD Bd. RWS. Sub Division
KOVILPATTI

Signed by Shri (Name in Full)

Project Director,
National Highways Authority of India
For and on behalf of the President of India

Aswini
23/3/2023
(K. MANI)

In the presence of

1. Name in full (Signature) with designation

ASSISTANT EXECUTIVE ENGINEER
TWAD Bd. RWS. Sub Division
KOVILPATTI

1. Name in full (Signature) with designation

2. Name in full (Signature) with designation


M. Usha Nanthani
23/3/23
M. USHA NANTHANI
AE / RWS sub dn / kovilpatti.

2. Name in full (Signature) with designation

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

Certificate

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

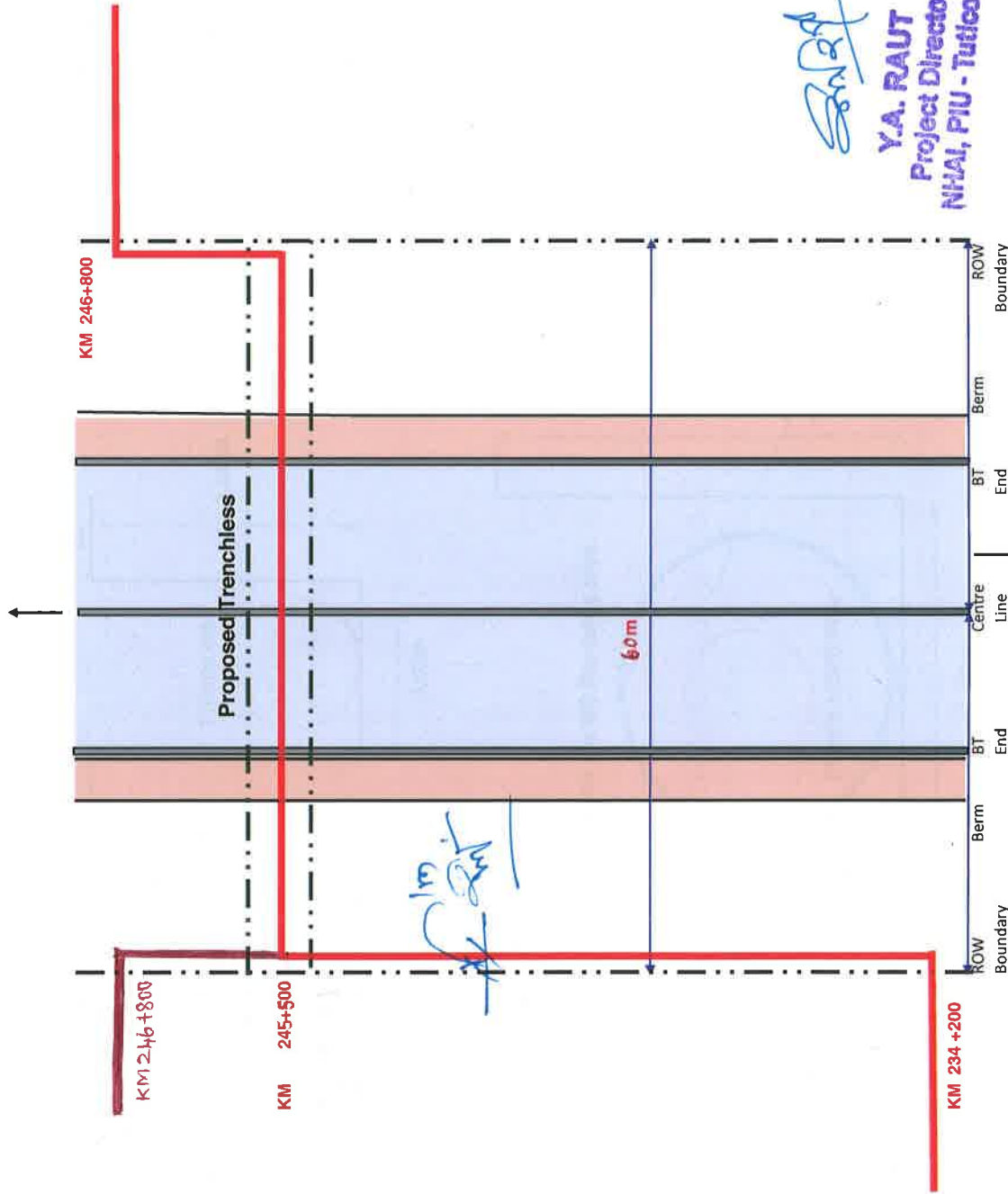

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ASSISTANT EXECUTIVE ENGINEER
TWAD Bd. RWS. Sub Division
KOVILPATTI.


Executive Engineer
TWAD Bd. RWS. Sub Division
KOVILPATTI.

Laying of water pipe line Along NH - 38- Tirunelveli - Thoothukudi (NHAI) from KM 234 +200 to 246 +400 (LHS).

KM 245 +500 to 246 +800 and Trenchless crossing at KM 245+500

To Thoothukudi



NAME OF SCHEME :- CWSS to 363 Rural Habitations in Thoothukudi District with river Tamiraparani as source

LEGEND

- 315mm,140mm, 110mm dia- HDPE Proposed Pipe Line
- BT End
- Boundary

OFFICE

EXECUTIVE ENGINEER, TWAD BOARD
RWS DIVISION,THOOTHUKUDI.

NOTES

ALL DIMENSIONS ARE IN M

NOT TO SCALE

SHEET - 1 (234 / 200 - 246 / 800)

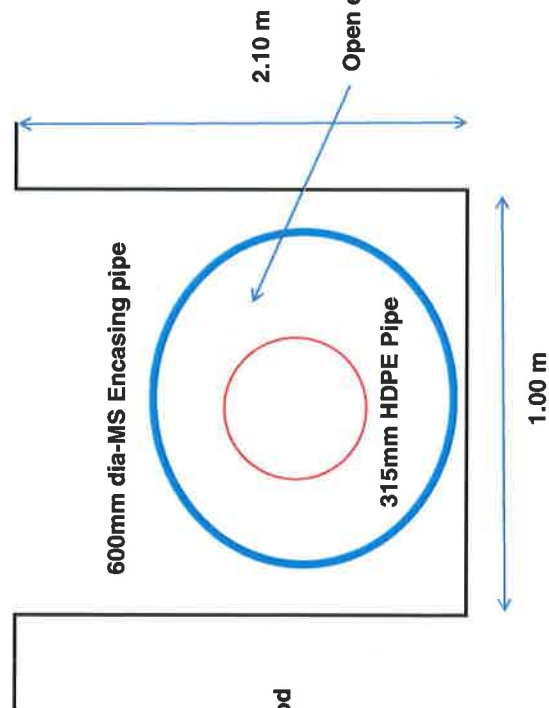
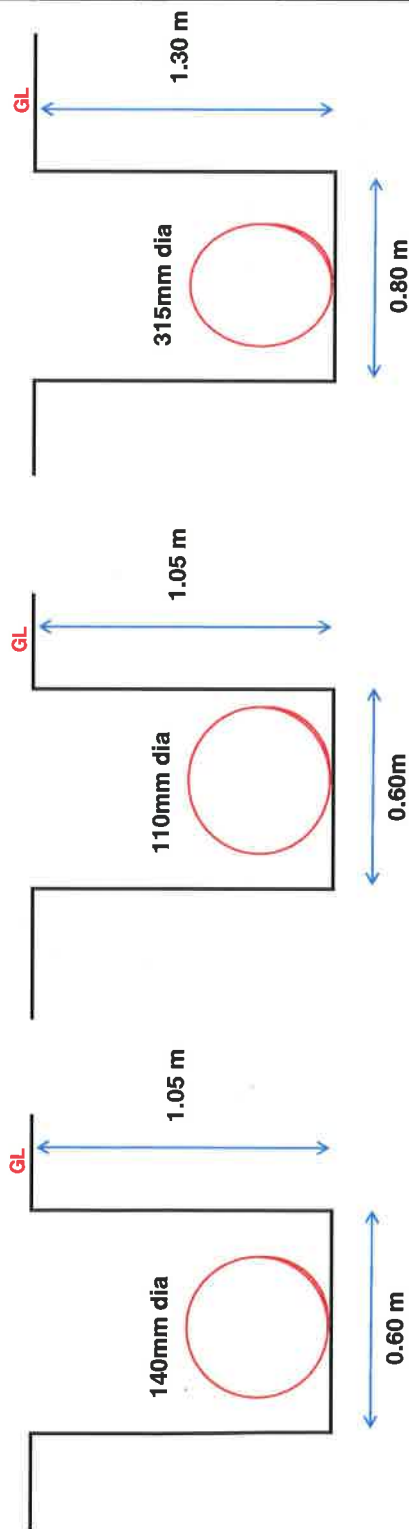
M. Subash
23/3/23
Assistant Engineer, TWAD
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Y.A. RAUT
Project Director
NHAI, PIU - Tuticorin

23/3/23
Executive Engineer, TWAD
RWS Division, Thoothukudi.

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KM 245 +500 to 246 +800 and Trenchless crossing at KM 246 +500



Trenchless method

Open ends closed by brickwork

Y.A. RAUT

Project Director

NHAI, PIU - Tuticorin

LEGEND

315mm, 140mm, 110mm dia-
HDPE Proposed Pipe Line

OFFICE

EXECUTIVE ENGINEER, TWAD BOARD
RWS DIVISION, THOOTHUKUDI

NOTES

ALL DIMENSIONS ARE IN M

NOT TO SCALE

SHEET - 2 (234 / 200 - 246 / 800)

H. M. S. 23/3/23

Assistant Engineer, TWAD
RWS Sub Division, Kovilpatti

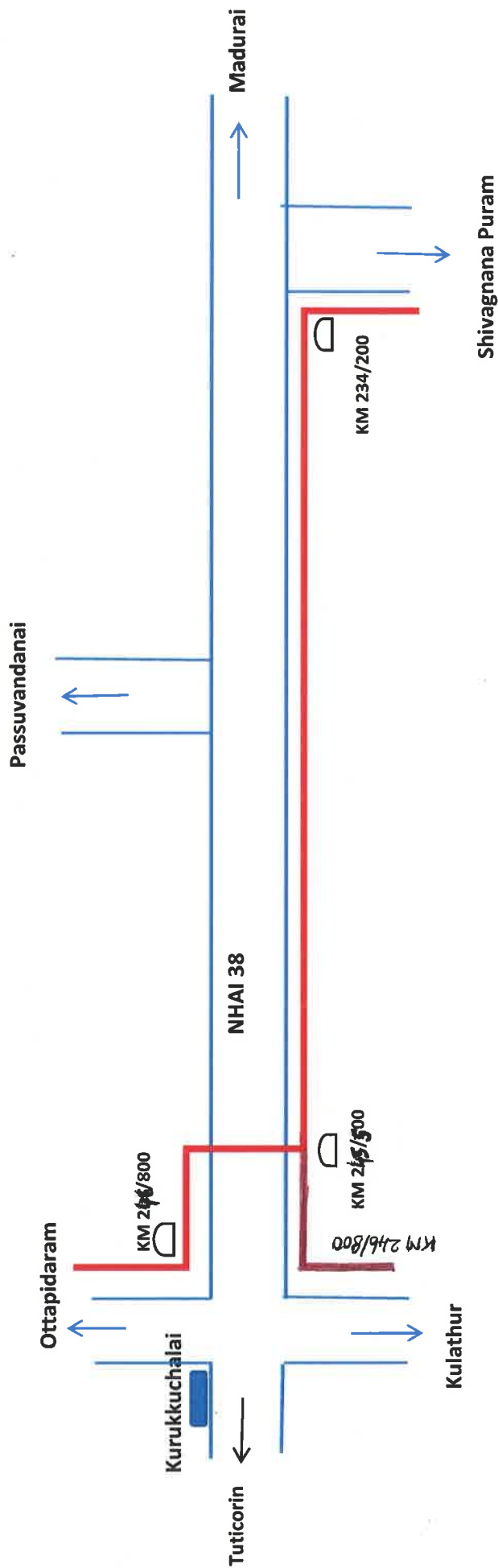
29/3/2023

Assistant Executive Engineer, TWAD
RWS Sub Division, Kovilpatti

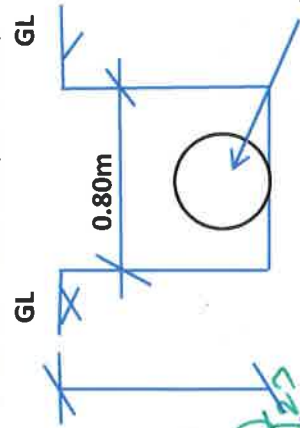
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Executive Engineer, TWAD
RWS Division, Thoothukudi

ALIGNMENT PLAN

Not to scale

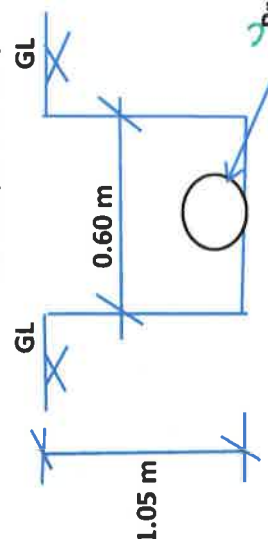


CROSS SECTION BETWEEN KM 246/400 - 246/800 (0.40 KM)



Proposed water main
315 mm HDPE Pipe

CROSS SECTION BETWEEN KM 234/200 - 246/400 (12.20 KM)



Proposed water main
110 mm, 140mm HDPE Pipe

Reference :

Proposed Water Main

Signature

V.S. RAUT
Project Director
NHAI, PU - Tuticorin

Signature
23/3/23

ASSISTANT EXECUTIVE ENGINEER
TWAD Bd. RWS. Sub Division
KOVILPATTI

Annexure-I

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

1. The Water Supply pipe line shall be located as close to the extreme edge of the right-of-way as possible but not less than 15 meter from the centre-lines of the nearest carriageway.
2. The Water Supply pipe line shall not be permitted to run along the National Highways when the road formation is situated in double cutting. Nor shall these be laid over the existing culverts and bridges without the prior approval of NHAI/Government of India.
3. The Water Supply pipe line shall be so placed that at no time there is interference with the maintenance of the National Highways.
4. These should be so laid that their top is at least 0.6 meter below the ground level so as not to obstruct drainage of the road land.
5. The authority/ owner of the under ground utility shall ensure that laying Water Supply pipe line should not have any deleterious effects on any of the bridge components and roadway safety for traffic.
6. The lines shall cross the National Highways preferably on a line normal to it or as nearly so as practicable.
7. Crossings shall not be too near the existing structures on the National Highway, the minimum distance being 15 meter.
8. The Water Supply pipe line is permitted to cross the National Highway, either encased in pipes or through structure of conduits specially built for that purpose at the expense of the agency owning the line. Existing drainage structures shall not be allowed to carry the lines across.
9. The casing pipe (or conduit pipe in the case of electric cable) carrying the Water Supply pipe line shall be of steel, cast iron, or reinforced cement concrete and have adequate strength and be large enough to permit ready withdrawal of the carrier pipe/cable. Ends of the casing/conduit pipe shall be sealed from the outside, so that it does not act as a drainage path.
10. The casing/conduit pipe should, as minimum extend from drain to drain in cuts and toe of slope toe of slope in the fills.
11. The top pf the casing/conduit pipe should be at least 1.2 meter below the surface of the road subject to being at least 0.3 m below the drain inverts.
12. The casing/conduit pipe may be installed under the road embankment either by boring or digging a trench. Installation by boring method shall only be permitted where the existing road pavement is of cement concrete or dense bituminous concrete type.
13. The casing/conduit pipe shall be installed with an even bearing throughout its length and in such a manner as to prevent the formation of a waterway along it.
14. Open trenching method. (May be allowed in utility corridor only where pavement is neither cement concrete nor dense bituminous concrete type)
 - (a) The sides of the trench should be done as nearly vertical as possible. The trench width should be at least 30 cm, but not more than 60 cm wider than the outer diameter of the pipe.
 - (b) Filling of the trench shall conform to the specifications contained herein below.

- (c) Bedding shall be to a depth of not less than 30 cm. It shall consist of granular material, free of lumps, clods and cobbles and graded to yield a firm surface without sudden change in the bearing value. Unsuitable soil and rock edged should be excavated and replaced by selected material.
 - (d) The backfill shall be completed in two stages (i) side – fill to the level of the top of the pipe and (ii) overfill to the bottom of the road crust.
 - (e) The sidefill shall consist of granular material laid in 15 cm layers each consolidated by mechanical tampering and controlled addition of moisture to 95% of the Proctor's Density. Overfill shall be compacted to the same density as the material that had been removed. Consolidation by saturation or ponding will not be permitted.
 - (f) The road crust shall be built to the same strength as the existing crust on either side of the trench or to thickness and specifications stipulated by the Highways Authority. Care shall be taken to avoid the formation of a dip at the trench.
 - (g) The excavation shall be protected by flagman, signs and barricades, and red lights during night hours.
15. If needed, a diversion shall be constructed at the expense of agency owning the Water Supply pipe line.
 16. Prior approval of the NHAI shall be obtained before undertaking any work of installation, shifting or repairs, or alterations to the Water Supply pipe line located in the National highway right-of-ways.
 17. Expenditure, if any, incurred by the Highway Authority for repairing any damage caused to the National Highway by the laying, maintenance or shifting of the Water Supply pipe line will be borne by the agency owning the Water Supply pipe line.
 18. If the NHAI considers it necessary in future to move the Water Supply pipe line for any work of improvement of repairs to the road, it will be carried out as desired by the Highway Authority at the cost of the agency owning the Water Supply pipe line within a reasonable time (not exceeding 60 days) of the intimation given.
 19. The licensee shall ensure making good the excavated trench for laying Water Supply pipe line by proper filling and compaction, so as to restore the land in to the same conditions as it was before digging the trench, clearing debris/loose earth produced due to execution of trenching at least 50m away from the edge of the right of way.
 20. The licensee shall furnish a Bank Guarantee to the NHAI @ Rs50/- per running meter (parallel to NH) and Rs1,00,000/- per crossing of NH, for a period of one year initially (extendable if required till satisfactory completion of work) as a security for ensuring/making good the excavated trench for laying the cables/ducts by proper filling and compaction, clearing debris/loose earth produced due to execution of trenching at least 50m away from the edge of the right of way. No payment shall be payable by the NHAI to the licensee for clearing debris/loose earth.
 21. In case the work contemplated herewith is not completed to the satisfaction of the NHAI, which has granted the permission, within a period of 11 months from the date of issue of the bank guarantee, the licensee shall either furnish a fresh guarantee or extend the guarantee for a further period of one year. In case of the licensee failing to discharge the obligation of making good the excavated trench, the NHAI shall have a right to make good the damages caused by excavation, at the cost of the licensee and recover the amount by invoking the bank guarantee furnished by the licensee.

22. The licensee shall shift the Water Supply pipe line within 60 days (or as specified by the respective agency/owner) from the date of issue of the notice by the NHAI, Govt. of India to shift/relocate the Water Supply pipe line, in case it is so required for the purpose of improvement/widening of the road/route/highway or construction of flyover/bridges and restore the road/land to its original condition at his own cost and risk.
23. Regarding the location of other cables, underground installation/utilities etc, the licensee shall be responsible to ascertain from the respective agency in coordination with NHAI. The licensee shall ensure the safety and security of already existing cables/underground installation/utilities facilities etc. before commencement of the excavation.
24. The licensee shall be solely responsible/ liable for full compensation/indemnification of concerned agency/aggrieved owner for any direct, indirect or consequential damage caused to them/claims or replacement sought for, at the cost and risk of the licensee. The concerned agency in co-ordination with NHAI shall also have a right to make good such damages/recover the claims by way of invoking of Bank Guarantee furnished by the licensee.
25. If the licensee fails to comply with the condition 22 and 23 above to the satisfaction of the NHAI, the same shall be got executed by the NHAI at the risk and cost of the licensee.
26. The licensee shall procure insurance from reputed insurance company against damages to already existing cables/underground installation/utilities/facilities etc during trenching.
27. The licensee has to cross the NH by horizontal drilling method (trenchless technology only). In case any damage is caused to the road pavement in this process, the licensee will be required to restore the same to the original condition at his own cost.
28. No trenching will be done on pucca road, boring method will be used in pucca road and Water Supply pipe line will be laid at the extreme edge of the road in the non-BT surface only.
29. The licensee shall inform/give a notice to the NHAI, Govt. of India or its authorized agency at least 15 days in advance with route details prior to digging trenches for fresh or maintenance/repair work. A separate work plan and a separate performance Bank Guarantee @ Rs50/- per meter length for maintenance/ repair work shall have to be furnished by the licensee.
30. Each day, the extent of digging the trenches should be strictly regulated so that cables are laid and trenches filled up before the close of the work that day. Filling 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.
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.
 - 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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KOVILPATTI.

Zone:*

Thirunelveli



Sub Registrar Office:*

Ettayapuram



Registration Village:*

Eppodumventran



Survey Number:*

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THOOTHUKKUDI

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Revenue Taluka:

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