



No. RW/TRI/Utility/43/2018-19

Government of India

Ministry of Road Transport & Highways

Regional Office (Kerala & Lakshadweep Region)

Public Office Building, Opposite to Museum,

Thiruvananthapuram - 695033.

Phone No. 0471-2320879, 2326306; email : rokeralamorth@gmail.com

Dated: 4.09.2018

Invitation of public comments

**Sub:-** Proposal regarding permission for replacing 300 mm AC pipe with 300 mm DI pipe by Kerala Water Authority from Km 239/950(Jawahar Jn) to Km 241/950(Mathirapilly Jn) on NH 85 under NH Division, Muvattupuzha, in the State of Kerala

The proposal is seeking permission for replacing 300 mm AC pipe with 300 mm DI pipe along the road from Km.239/950 (Jawahar Jn) to 241/950 (Mathirapilly Jn) on NH-85 under KIIFB project by Kerala Water Authority, Project Division, Piravom submitted to this office vide EE, PWD NH Division, Muvattupuzha's letter dated 16.07.2019 accordance with Ministry's latest guidelines dated 22.11.2016.

2. The proposal for replacing 300 mm AC pipe with 300 mm DI pipe along the NH from Km.239/950 (Jawahar Jn) to 241/950 (Mathirapilly Jn) on NH-85 as under:

Stretch in Km.	Length (Km.)	ROW (m)	Dist. Of Prop. Replacing pipe line from centre of NH (m).
LHS (Open Trench Method)			
239/950 to 241/950	2.00 km	15.00	9.00

3. The Executive Engineer, KWA, Project Division, Piravom has proposed to trenching and replacing 300 mm AC pipe with 300 mm DI pipe from Km.239/950 (Jawahar Jn) to 241/950 (Mathirapilly Jn) on NH-85 by Open Trench method.

4. The Executive Engineer, KWA, Project Division, Piravom has furnished an undertaking that, they will shift the utility at their own cost if required for expansion of reach by MORTH/NHAI/PWD or any other Highways authorities within the time frame prescribed by MORTH/NHAI/PWD. Further, it is also mentioned by the Executive Engineer, KWA, Project Division, Piravom that the proposed replacing pipe line work will not affect the design, stability, traffic safety and future improvement of proposed stretch. The executive Engineer, KWA, Project Division, Piravom has furnished an undertaking that during the defect liability period of strengthening work on NH85 Madurai-Kochi road from Ch.239/950 to 241/950, if any damages occur on road surface in the KWA rectified portion, KWA will take full responsibility for rectifying the road surface on urgent nature for the full defect liability period. In addition, all the undertakings as prescribed in the checklist has been furnished by the Executive Engineer, KWA, Project Division, Piravom.

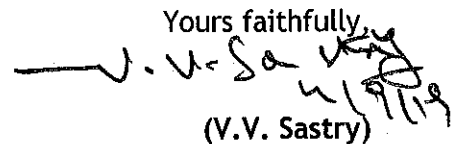
5. As per the guidelines issued by the Ministry vide letter No.RW/NH-33044/29/2015/S&R (R) dated 22.11.2016, the application will be made available for public comments and the comments will be invited within 30 days from the date of uploading in the Ministry's web site.

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

The Regional Officer  
Ministry of Road Transport & Highways,  
Public Office Building,  
Thiruvananthapuram - 695033.

Encl: As above.

Yours faithfully,

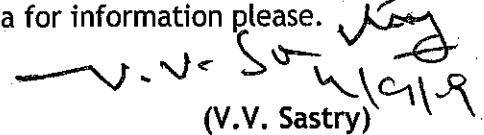


(V.V. Sastry)

Regional Officer cum Highway Administration

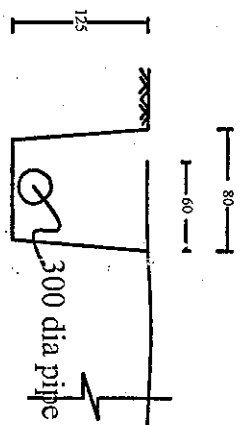
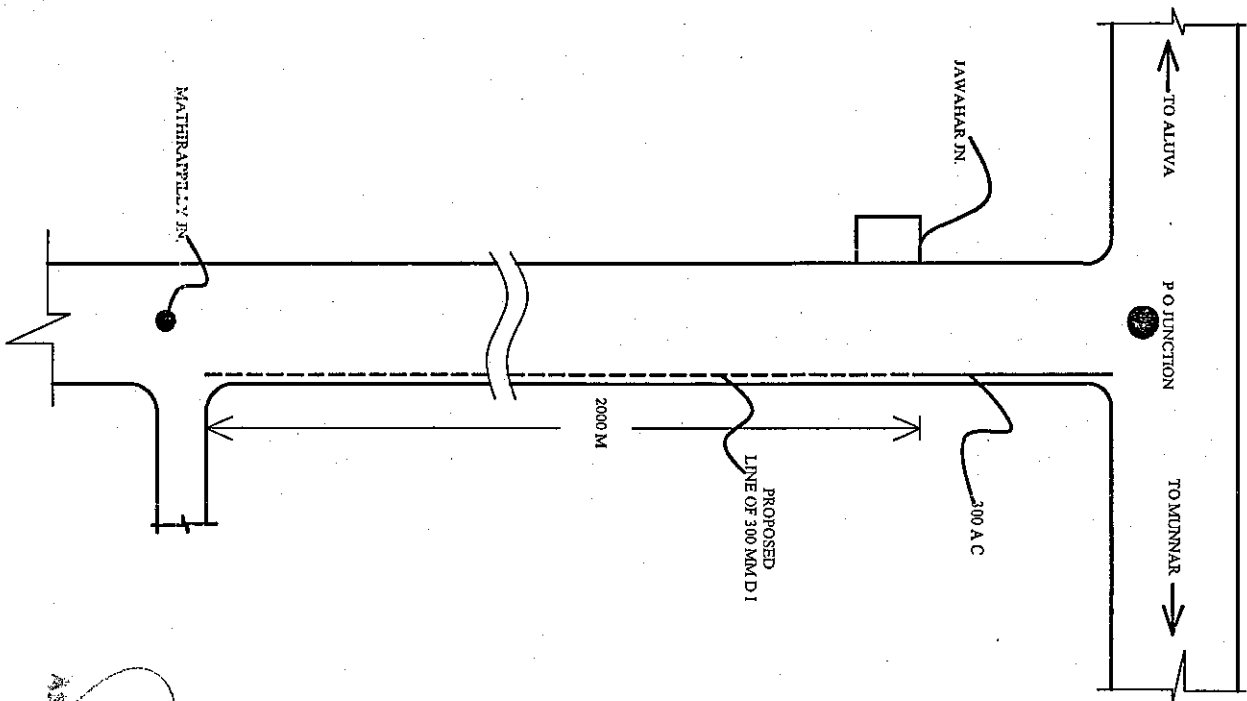
Copy to:

1. Senior Technical Director, NIC for uploading in the Ministry's website
2. The Executive Engineer, PWD NH Division, Muvattupuzha for information please.

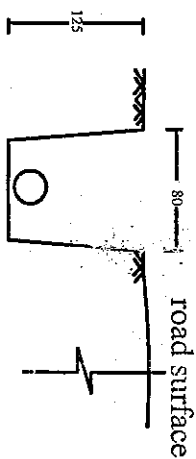


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Regional Officer cum Highway Administration

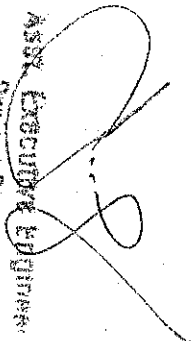


SECTION 1



SECTION 2

CROSS SECTION OF PIPE TRENCH

  
 ASS. EXECUTIVE ENGINEER  
 Project Division  
 Kerala Water Authority  
 Piravom 686 661

KERALA WATER AUTHORITY		
PROJECT DIVISION, PIRAVOM		
NAME OF WORK:-		
LWSS to Kottamangalam Municipality Replacing damaged 300 mm AC pipe with 300 mm DI		
AI:	AEE	ET

## CHECK LIST

Guidelines for processing the proposal for accommodation of Public and Industrial Utility services along and across National Highways

Relevant circulars

1. Ministry circular No. NH-41(58)/68 dated 31-01-1969

2 Ministry circular No. NH-III/P/66/76 dated 18- 11- 1976

3 .Ministry circular No. RW- NJ-III/P/66/76 dated 01-05-1982

4. Ministry circular No. RW/NH-11037/1/86-DOi(II) dated 28-07-1993

5. Ministry circular No. RW/NH-11037/1/86-DOi dated 19-01-1995

6 .Ministry Circular No.RW/NH-34066/2/95/S&R dated 25-10-1999

7. Ministry Circular No.RW/NH-34066/7/2003 S&R (B) dated 17-09-2003

8. Ministry Circular No.RW/NH-33044/29/2015/S&R(R) dated 22.11.2016

L. No	ITEM	Information/Status	Remarks
1.	<b>General Information</b>	NH 85 Madura _Kochi Road Permission for replacing 300 mm AC pipe with 300 mm DI pipe from Km 239/950 (Jawahar Jn) to Km 241/950 (Mathirapilly Jn)	
1.1	<b>Name and Address of the applicant/agency</b>	The Executive Engineer KWA, PH Division. Piravom.	
1.2	<b>National Highway Number</b>	NH 85	
1.3	<b>State</b>	KERALA	
1.4	<b>Location</b>	Km 239/950 (Jawahar Jn) to Km 241/950 (Mathirapilly Jn).	
Chainage in Km		Length (km)	ROW (m)
Distance of Proposed Utility from Centre of NH			
Km 239/950 (Jawahar Jn) to Km 241/950 (Mathirapilly Jn)		2	15
		9m	LHS/RHS
1.5	Defect Liability Period of last work undertaken in the stretch	Annul plan 2017-18 work is in progress	
1.6	Proposed location of Utility line crossing the NH	yes	
1.7	Proposal to acquire land	NA	
1.8	Whether proposal is in the same side where land is not to be acquired.	NA	
1.9	Details of already laid services , if any along the proposed route	KWA, BSNL etc	
1.10	Number of existing lanes (2/4/8 lanes)	2 Lane	
1.11	Proposed number of lanes (2 lane with paved shoulders/4/6/8 lanes)	2 Lane	
1.12	Service road existing or not if yes, then	No	

	which side	
1.13	Proposed service road	No
1.14	Whether proposed utility line is after the service road or between the service road and main carriageway	Not applicable
1.15	Whether carrying of utility line has been proposed on highway bridges if yes then mention the methodology proposed for the same	Nil
1.16	Whether carrying of utility line has been proposed on the parapet /any part of the bridges. If yes then mention the methodology proposed for the same	Nil
1.17	If crossing of the road involved. If yes it shall be either encased in pipes or through structure or conduit specially built for the purpose at the expense of the agency awing the line	yes
	(a) whether existing drainage structures are allowed to carry utility line	No
	(b) Is it on a line normal to NH	Yes
	(c) what is the distance of crossing the utility line from the existing structures crossing shall not be too near the existing structures on the NH minimum distance being 15m	No Existing Structures
	(d) The casing pipe (or conduit pipe in the case of electric cables ) carrying the utility line shall be of steel, Cast iron or reinforce cement concrete or have adequate strength and be large enough to permit ready withdrawal of the carrier pipe/cable. <b>Mention type of casing</b>	N.A
	(e) Ends of casing / conduit pipes shall be sealed form outside , so that it does not act as drainage path	Yes
	(g) The top of the casing /conduit pipe containing the utility services to cross the road shall be atleast 1.2m below the top of the sub grade or the existing ground level whichever is lower, subject to being atleast 0.3m below the drain inverts. Mention the proposed details.	N.A
	(h) Mention the methodology proposed for the crossing of road for the proposed utility line. Crossing shall be by boring method (HDD) (trenchless technology).	Open Trench method

	where the stretch is in Defect Liability Period (DLP)	
	(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 water way along it	yes
2.	Document/drawings to be enclosed with the proposal	yes
2.1	<p>Cross section showing the size of the trench for open trenching method (Is it normal size of 1.2 m deep x 0.3m wide)</p> <ol style="list-style-type: none"> <li>1. Should not be greater than 60cm wider than the outer diameter of the pipe.</li> <li>2. Located as close to the extreme edge of the right of way as possible.</li> <li>3. shall not be permitted to run along the national highways when the road formation is situated in double cutting nor shall be laid over the existing culverts and bridges.</li> <li>4. These should be so laid that their top is least 0.5m below the ground level so as not to obstruct the drainage of the road land.</li> </ol>	<p>Enclosed</p> <p>The depth of trench will be 1.2m and will be 0.35 m wide</p> <p>Enclosed</p>
2.2	Cross section showing the size of the pit and the location of the cable for HDD method	Enclosed
2.3	Strip plan/route plan showing the proposed utility line, distance of proposed pipe line from the edge of ROW, important mile stone, intersections, cross drainage works etc.	Enclosed
2.4	Methodology for laying of utility line	By open trenching along shoulder
2.4.1	<p>Open trenching method ( Open trenching in Bituminous surface will be allowed in the utility corridor only where road is not under Defect liability Period, with proper justification for not using HDD)</p> <p>If yes, what is the methodology for refilling the trench</p>	
	a) Defect Liability Period of the Stretch	Annul plan 2017-18 work is in progress
	b) The trench width should be atleast	Diagram Enclosed

	30cm, but not more than 60cm wider than the outer diameter of the pipe	
	c) For filling of the trench, bedding shall be at a depth of not less than 30cm. It shall consist of granular material, free of lumps, clods, and cobbles and graded to yield a firm surface without a sudden change in the bearing values. Unsuitable soil and rock edged should be excavated and replaced by selected materials.	Laying work as per standards only
	d) The backfill shall be completed in two stages (1) side fill to level of the top of the pipe and (2) over fill to the bottom of the road crest.	As per standards of Utility laying
	e) The side fill shall consists of granular material laid in 15 cm layers each consolidated by mechanical tempering and controlled addition of moisture to 95 % of the proctors density. Over fill shall be compacted to the same density as the material that has been removed. Consolidation by saturation or ponding will not be permitted.	As per standards
	f) The road crest shall be built to the same strength as the existing crest on either side of the trench. Care shall be taken to avoid the formation of a dip at the trench.	As per standards
	g) The excavation shall be protected by flag man, signs and barricades and red lights during night hours.	As per standards
	h) If required, a diversion shall be constructed at the expense of the agency owing the petroleum line/ underground water conductor system	No Petroleum line in the route
2.4.2	Horizontal directional drilling (HDD), method	Only open trench method due to laying 300mm pipe line
2.4.3	Methodology for laying of utility line through CD works and method of laying. In cases where the carrying of Gas pipe line on the bridge becomes in escapable.	NA
3.	Draft license agreement is submitted along with the proposal	yes
3.1	The license fee estimate as per ministry's guide lines issued vide circular number RW/NH-33044/29/2015/S&R(R) dated 22.11.2016	yes
4.	Whether performance bank guarantee as per ministry's circular number RW/NH-33044/29/2015/S&R(R) dated 22.11.2016 is obtained/undertaking attached	yes
4.1	Confirmation of BG has been obtained or not as per MORTH /NHAI guide lines	No