No. RW/TRI/Utility/44/2019-20

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

Date: 12 .03.2020

Invitation of public comments

Sub:- Proposal for permission for laying KWA pipe for distribution network on NH-183,Kollam-Theni road under CRWSS to Elappara and adjoining villages in Peerumedu Panchayath in between Km.178/000 and 196/750 in idukki District Under NH Division Muvattupuzha.

The proposal is seeking permission for laying KWA pipe for distribution network along the road from Km.178/000 to Km.196/750 on NH-183 (Kollam-Theni road) in the state of Kerala by KWA submitted to this office vide CE,PWD NH, Thiruvananthapuram's letter dated 02.03.2020 in accordance with Ministry's latest guidelines dated 22.11.2016.

2. The proposal for laying of KWA pipe for distribution network along the NH from Km.178/000 to Km.196/750 on NH-183 as under:

Stretch in Km.	Length (Km.)	ROW (m)	Dist. Of Prop. Water pipe line from centre of NH (m).
Size of pipes 80mm GI,90mmPVC,100 mm GI, 110mm PVC-PVC CI-3,150mm DI K-9and 160mm PVC CI-3			
178/000 to 196/750	**16.832**	**17.50(Avarage)**	**8.75m (Avarage)**
Sholder Cutting(RHS)		17.50(Average)	8.75m(Avarage)
178.000 to 179.592	1.592		
179.892 to 179.996	0.104		
183.000 to 183.248	0.248		
188.630 to 188.650	0.020		
188.950 to 190.012	1.062		
190.012 to 190.200	0.188		
Concrete Cutting (RHS)			
179.592 to 179.892	0.300		
Sholder Cutting(LHS)			
179.076 to 179.650	0.574		
180.000 to 181.936	1.936		
183.000 to 184.660	1.660		
186.760 to 187.436	0.676		
187.436 to 188.630	1.194		
190.200 to 191.210	1.010		
191.230 to 192.440	1.210		
192.480 to 192.800	0.320		
193.000 to 193.592	0.592		
193.592 to 195.662	2.070		
195.662 to 196.750	1.088		
Concrete Cutting (LHS)			
192.800 to 193.000	0.200		

Interlock Tile cutting(LHS)		17.50(Average)	8.75m(Avarage)
179.650 to 180.000	0.350		
188.650 to 188.950	0.300		
Crossing			NA
180.000	0.018		
186.600	0.018		
188.630	0.018		
190.200	0.012		
195.660	0.012		
BT Cutting (LHS)			8.75m(Avarage)
191.210 to 191.230	0.020		
192.440 to 192.480	0.040		

3. The Executive Engineer, Kerala Water Authority, Project Division, Kattappana has proposed to lay Water Supply pipe line from Km.178/000to 196/750 and Crossing at Km.180/000,186/600,188/630,190/200 and 193/700 on NH-183 by Open TrenchD method.

4. The Executive Engineer, Project Division, KWA, Kattappana has furnished an undertaking that, they will shift the water pipe line if required by MoRTH/NHAI/PWD or any other Highways authorities within 30 days from the date of request. Further, it is also mentioned by the Executive Engineer, Project Division, KWA, Kattappana that the proposed water pipe line work will not affect the design, stability, traffic safety and future improvement of proposed stretch and also furnished an undertaking that the rectification of damages occurred due to laying of KWA water supply pipe line will done by Kerala water Authority till the end of DLP. In addition, all the undertakings as prescribed in the checklist has been furnished by the Executive Engineer, Project Division, KWA, Kattappana.

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

(V.V. Sastry)
Regional Officer cum Highway Administrator

12/3/20

Copy to:

1. Senior Technical Director, NIC for uploading in the Ministry's website
2. Chief Engineer, PWD NH, Thiruvananthapuram for information please.

V.V. Sastry

12/3/20

(V.V. Sastry)
Regional Officer cum Highway Administrator

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.	General Information		
1.1	Name and Address of the applicant/agency	EXECUTIVE ENGINEER KERALA WATER AUTHORITY PROJECT DIVISION, KATTAPPANA	
1.2	National Highway Number	NH 183	KK Road
1.3	State	KERALA	
1.4	Location	Between Ch. 178/000 and 196/750 (KAP 5th Battalion Jn to 57th Mile)	

Chainage in Km	Length (km)	ROW (m)	Distance of proposed utility from Centre of NH	LHS/RHS
Between Km 178/000 and 196/750	16832 m	15 to 20 m ۱۵·۲	7.50 m to 10 m	LHS and RHS

1.5	Defect Liability Period of last work undertaken in the stretch	Km 185/500 to 196/750 under defect liability period and work was completed on 23-04-2019	
1.6	Proposed location of Utility line crossing the NH	At Kuttikkanam Ch.180/000 At Kallar Junction Ch.186/600 At Pambanar near SH Church Ch.188/630 At Chainage 190/200 At Chainage 193/700	
1.7	Proposal to acquire land	Nil	
1.8	Whether proposal is in the same side	NA	

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	where land is not to be acquired.		
1.9	Details of already laid services , if any along the proposed route	BSNL	
1.10	Number of existing lanes (2/4/8 lanes)	Two lanes	
1.11	Proposed number of lanes (2 lane with paved shoulders/4/6/8 lanes)	NA	
1.12	Service road existing or not if yes, then which side	No	
1.13	Proposed service road	NA	
1.14	Whether proposed utility line is after the service road or between the service road and main carriageway	NA	
1.15	Whether carrying of utility line has been proposed on highway bridges if yes then mention the methodology proposed for the same	No	
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	No	
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	Above 15m	
	(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. **Mention type of casing**	NA	
	(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 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. Mention the proposed details.	Yes	

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	(h) Mention the methodology proposed for the crossing of road for the proposed utility line. Crossing shall be by boring method (HDD) (trenchless technology). where the stretch is in Defect Liability Period (DLP)	Open trench	
	(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	Separately attached	
2.1	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) 1. Should not be greater than 60cm wider than the outer diameter of the pipe. 2. Located as close to the extreme edge of the right of way as possible. 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. 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.	Cross section varies with different pipes, of which detailed drawings were submitted during joint inspection with AE, NH Sub Division Kanjirappally. The trench should not be wider than 60 cm	
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.	Separately attached	
2.4	Methodology for laying of utility line	Open trenching using machineries and manually laying the pipe line along shoulder	
2.4.1	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) If yes, what is the methodology for refilling the trench	Refilling with quarry dust and cement concrete	

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	a) Defect Liability Period of the Stretch	Km 185/500 to 196/750 under defect liability period and work was completed on 23-04-2019	
	b) The trench width should be at least 30cm, but not more than 60cm wider than the outer diameter of the pipe	Yes. Diagram enclosed	
	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 this route	
2.4.2	Horizontal directional drilling (HDD), method	For road crossing	
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.	No	

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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	
5.	Affidavit /Undertaking form the applicant for the following is to be furnished.	Yes	
5.1	Undertaking for not to damage any other utility, if damaged then to pay the losses either to the MoRTH/NHAI/PWD or to the concerned agency as decided by MoRTH.	Attached	
5.2	Undertaking for renewal of bank guarantee as and when asked by MORTH /NHAI/PWD		
5.3	Undertaking for confirming all standard conditions of MoRTH's circulars number **RW/NH-33044/29/2015/S&.R(R) dated 22.11.2016**		
5.4	Undertaking for indemnity against all damages and claims		
5.5	Undertaking for management of traffic movement during laying of utility line without hampering the traffic		
5.6	Undertaking that prior approval of the MoRTH/NHAI/PWD shall be obtained before undertaking any work for installation, shifting or repairs or alterations to the utility line located in the National Highway right of ways.		
5.7	Undertaking that expenditure if any incurred by PWD/MoRTH/NHAI for repairing any damage caused to the national highway by the laying, maintenance or shifting of the utility line will be borne by the applicant agency owing the line.		
5.8	Undertaking that text of license deed is as per verbatim of MORTH format (issued by ministry's Circular number **RW/NH-33044/29/2015/S&.R(R) dated 22.11.2016**		
5.9	Undertaking that the applicant has obtained various safety clearances from		

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	the representative authorities such as directorate of electricity, Chief controller of explosives, petroleum and explosive organization, oil industry safety directorate , state / central pollution control board and any other statutory clearances as applicable before applying to the highway administrations.		
5.10	Undertaking that the utility line will be shifted by the utility agency at the cost of the agency owing the utility line, if the MORTH / NHAI/PWD consider it necessary in future to shift the utility line for expansion of road.		
6.	Who will sign the agreement on behalf of utility line agency	The Executive Engineer, Kerala Water Authority, Project Division, Kattappana	
	Power of attorney to sign the agreement is available or not	Not Applicable	
7.	Certificate from PD NHAI/Executive Engineer, PWD as per the format	EE, NH(R) Dn MVPA	

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