No. RW/TRI/Utility/42/2019-20

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

Dated: 11 .10.2019

Invitation of public comments

Sub:- Proposal for permission to lay 11 KV UG Cable by Kerala State Electricity Board atKm.1/896 (Kovalam-Kazhakuttom road at Attipra Village) of Thiruvananthapuram bypass Four laning from Kazhakuttom (0/00) to Mukkola (Km.26/500) section of NH-66 (old NH-47) under NHDP Phase-IIIA in the State of Kerala.

The proposal is seeking permission to laying 11 KV UG Cable along the road at Km.1/896 (Kovalam-Kazhakuttom road at Attipra Village) of Thiruvananthapuram bypass Four laning from Kazhakuttom (0/00) to Mukkola (Km 26/500) section of NH-66 (Old NH-47) in the state of Kerala by Kerala State Electricity Board submitted to this office vide Project Director, National Highways Authority of India, Thiruvananthapuram's letter dated 15.07.2019 in accordance with Ministry's latest guidelines dated 22.11.2016.

2. The proposal for laying of 11 KV UG Cable along the NH from Km.1/896 to 1/963 (LHS) and Crossing at Km.1.896 on Thiruvananthapuram bypass Four laning from Kazhakuttom (0/00) to Mukkola (Km26/500) section of NH-66 (Old NH-47) as under:

Stretch in Km.	Length (Km.)	ROW (m)	Dist. Of Prop. Road cutting from centre of NH (m).
LHS(HDD Method)			
From Km 1/896 to 1/963 on Thiruvananthapuram bypass -NH 66	0.067	45	22.50
NH Crossing			
Km.1.896	0.045	45	NA

3. The Executive Engineer, KSEB, Electrical Division, Kazhakuttom Thiruvananthapuram has proposed to lay 11 KV UG Cable from Km.1/896 to 1/963 (LHS) and Crossing at Km.1/896 on Thiruvananthapuram bypass- NH-66 by HDD method.

4. The Executive Engineer, KSEB, Electrical sub Division, Kazhakuttom, Thiruvananthapuram has furnished an undertaking that, they will shift the UGC line if required by NHAI/PWD or any other Highways Authorities within the time frame prescribed by PWD/Highways Authority. Further, it is also mentioned by the Executive Engineer, KSEB, Electrical sub Division, Thiruvananthapuram that the proposed 11 KV UG Cable laying work will not affect the design, stability, traffic safety and future improvement of proposed stretch. In addition, all the undertakings as prescribed in the checklist has been furnished by the Executive Engineer, KSEB, Electrical sub Division, Kazhakuttom, Thiruvananthapuram.

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 11/10/17

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

Copy to:

1. Senior Technical Director, NIC for uploading in the Ministry's website
2. The Project Director, National Highways Authority of India, T.C.36/414(5),Koyikkal Veedu, Kavu Lane, Palkulangara, Thiruvanathapuram for information please.

V.V. Sastry 11/10/17

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

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	Proposal for laying of Electrical Cable	
1.1	Name and Address of the applicant/agency	Executive Engineer, Electrical Division, Kerala state Electricity Board Limited, Thiruvananthapuram.	
1.2	National Highway Number	NH-66	
1.3	State	Kerala	
1.4	Location	Lat.8°33'0.18"N Log 76°52'36.51"E Lat.8°32'58.30"N Log 76°52'37.95"E	

Chainage in Km	Length (km)	ROW (m)	Distance of Proposed Utility from Centre of NH	LHS/RHS
Km 1.896 to Km.1.963	0.067	45.00	22.5	RHS
Km.1.896	0.045	45.00	Crossing	N.A

1.5	Defect Liability Period of last work undertaken in the stretch		
1.6	Proposed location of Utility line crossing the NH	Crossing at Km.1.896	
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	NA	
1.10	Number of existing lanes (2/4/8 lanes)	4 lanes with both side S/road	
1.11	Proposed number of lanes (2 lane with paved shoulders/4/6/8 lanes)	May be 6 lanes	
1.12	Service road existing or not if yes, then which side	Yes, Both Side	
1.13	Proposed service road	Existing S/Road	
1.14	Whether proposed utility line is after the service road or between the service road and	Crossing	

	main carriageway		
1.15	Whether carrying of utility line has been proposed on highway bridges if yes then mention the methodology proposed for the same	[redacted]	
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	[redacted]	
1.17	Length and Locations where HDD Proposed	[redacted]	
1.18	Length and Locations where Open Cut is proposed	[redacted]	
1.19	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 owing the line	NA	
	(a) whether existing drainage structures are allowed to carry utility line	Yes	
	(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	More than 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**	GRANULAR MATERIAL FREE FROM LUMPS, COLDS & CABBLES)	
	(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.	Refer Drawing	
	(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)	Attached.	
	(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		
2.	Document/drawings to be enclosed with the	Attached.	

	proposal		
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.	Attached.	
2.2	Cross section showing the size of the pit and the location of the cable for HDD method	Attached.	
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.	Attached.	
2.4	Methodology for laying of utility line	Attached.	
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	NA	
	a) Defect Liability Period of the Stretch	yes	
	b) The trench width should be atleast 30cm, but not more than 60cm wider than the outer diameter of the pipe	yes	
	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.		
	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	[redacted]	

	of the road crest.		
	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.	[redacted]	
	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.	yes	
	g) The excavation shall be protected by flag man, signs and barricades and red lights during night hours.	[redacted]	
	h) If required, a diversion shall be constructed at the expense of the agency owing the petroleum line/ underground water conductor system	NA	
2.4.2	Locations and Total length of Stretch where Open trenching adopted	NA	
2.4.3	Horizontal directional drilling (HDD), method	attached	
2.4.4	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	
2.4.5	Location and Total length of Stretch where HDD adopted	65m	
3.	Draft license agreement is submitted along with the proposal		
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	yes	
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	yes	

	concerned agency as decided by MoRTH.		
5.2	Undertaking for renewal of bank guarantee as and when asked by MORTH /NHAI/PWD	yes	
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	yes	
5.4	Undertaking for indemnity against all damages and claims	yes	
5.5	Undertaking for management of traffic movement during laying of utility line without hampering the traffic	yes	
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.	yes	
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.	yes	
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	yes	
5.9	Undertaking that the applicant has obtained various safety clearances from 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.	yes	
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.	yes	
6.	Who will sign the agreement on behalf of utility line agency	Executive Engineer,Electrical Division, Kerala State Electricity Board Limited,Kazhakkoottam	
	Power of attorney to sign the agreement is available or not		
7.	Certificate from PD NHAI/Executive Engineer, PWD as per the format	yes	

Counter Signed

EXECUTIVE ENGINEER
KERALA STATE ELECTRICITY BOARD LTD.
ELECTRICAL DIVISION
KAZHAKUTTOM

ASSISTANT EXECUTIVE ENGINEER
ELECTRICAL SUB DIVISION
Kerala State Electricity Board Limited
Kazhakuttom

ASSISTANT ENGINEER
ELECTRICAL SECY.
KSEBL, KAZHAKUTTOM