



**GOVERNMENT OF INDIA
MINISTRY OF ROAD TRANSPORT & HIGHWAYS**

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Fax : 0471-2320879
E-mail: rokeralamorth@gmail.com
No.RW/TRI/Utility/6/2017-18

Office of the Regional Officer,
Public Office Building,
Thiruvananthapuram-695033
Dated: 26.03.2018

Invitation of public comments

Sub:- Proposal for permission to lay 11 kV HT UG Cable of size 3 x 150 sq.mm through trench in ground along service road of NH 47 (New NH 66) at Venpalavattom between km 6/200 and km 6/300 of Thiruvananthapuram bypass - reg.

The proposal is seeking permission to lay 11 kV HT UG Cable of size 3 x 150 sq.mm through trench in ground along service road of NH 47 (New NH 66) at Venpalavattom between km 6/200 and km 6/300 of Thiruvananthapuram bypass in the State of Kerala by KSEB Ltd. submitted to this office vide PD, NHAI Thiruvananthapuram letter dated 14.02.2018 (received in this office on 16.03.2018), in accordance with Ministry's latest guidelines dated 22.11.2016.

2. The proposal by the KSEB Ltd to lay HT UG Cable is as under:

Stretch in Km.	Length (m.)	ROW (m)	Dist. Of Prop. Road cutting from centre of NH (m).
LHS Side by Open Trenching method			
From km 6/200 to km 6/300 of NH 66(Old NH 47) Thiruvananthapuram bypass	100 m (cut length of trench-50m)	45	21.5

3. KSEB. Ltd has proposed to lay the underground Cable line by Open Trenching method along NH road through cable trench from the proposed RMU at Artech Lake View RMU Station to 630 KVA USS installed at the consumer's premises i.e., at the Nikunjam Palm Grove, Venpalavattom.

4. KSEB. Ltd has furnished the undertakings mentioning that they undertake to shift the utility line, if required by Highway Authority at any time for expansion of road at the cost of entity owing the utility. A checklist describing the proposal is enclosed.

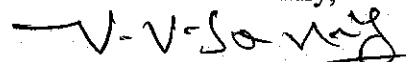
5. As per the guidelines issued by the Ministry vide letter No.RW/NH-33044/29/2015/S&R (R) dated 22.11.2016, the application will be made available for public comments and the comments will be invited within 30 days from the date of uploading in the Ministry's web site.

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, Opposite to museum,
Thiruvananthapuram – 695033.

Encl: As above.

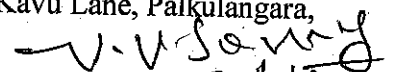
Yours faithfully,


26/3/14
(V.V. Sastry)

Regional Officer cum Highway
Administrator

Copy to:

1. Senior Technical Director, NIC for uploading in the Ministry's website.
2. The Regional Officer, National Highways Authority of India, T.C.86/1036-1, Ambly Arcade, S.N.N.R.A-9, Pettah-P.O, Thiruvananthapuram, Kerala-695024 for information please.
3. Project Director, PIU, NHAI, T.C. 36/414(5), Koyikkal Veedu, Kavuvu Lane, Palkulangara, Thiruvananthapuram-695024-for information please.


26/3/14
(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	Proposal for permission for laying of 11kV HT UG cable of size 3x150 Sq mm through trench in ground along the service road of NH 47 between km stone 6 & 7 (6.2+0.1 km) at Venpalavattom, (opposite to proposed lulu mall), Trivandrum, Trivandrum dist.			
1.1	Name and Address of the applicant/agency	Assistant Engineer, KSEB Electrical Section, Pettah, Vanchiyoor P O, Trivandrum			
1.2	National Highway Number	NH-47			
1.3	State	Kerala			
1.4	Location	NH chainage at (6.2+0.1 km) between km 6 & 7, Venpalavattom, Trivandrum, Trivandrum Dist., Kerala state			
	Chainage in Km	Length (m)	ROW (m)	Distance of Proposed Utility from Centre of NH	LHS/RHS
	6.2 & 6.3	100m (cut length of trench-50m)		21.5 m	LHS
1.5	Defect Liability Period of last work undertaken in the stretch	Nil			
1.6	Proposed location of Utility line crossing the NH	NA			
1.7	Proposal to acquire land	NA			

1.8	Whether proposal is in the same side where land is not to be acquired.	Yes	
1.9	Details of already laid services , if any along the proposed route	NA	
1.10	Number of existing lanes (2/4/8 lanes)	2	
1.11	Proposed number of lanes (2 lane with paved shoulders/4/6/8 lanes)	4	
1.12	Service road existing or not if yes, then which side	Yes, Left side from centre line	
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	After the service road	
1.15	Whether carrying of utility line has been proposed on highway bridges if yes then mention the methodology proposed for the same	NA	
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	NA	
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 awarding the line	NA	
	(a) whether existing drainage structures are allowed to carry utility line	No	
	(b) Is It on a line normal to NH	No	
	(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	NA	
	(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 from outside , so that it does not act as drainage path	NA	
	(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	NA	

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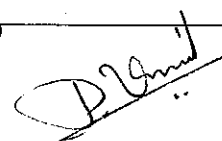
R. VENKATACHANDRAN
PROJECT DIRECTOR
NATIONAL HIGHWAY AUTHORITY OF INDIA
PROJECT MANAGEMENT UNIT
THIRUVANANTHAPURAM

[Signature]

	drain inverts. Mention the proposed details.		
	(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)	NA	
	(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	NA	
2.	Document/drawings to be enclosed with the proposal	YES, Drawing 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.	Normal Size 1.2m deep x 0.3m wide.	
2.2	Cross section showing the size of the pit and the location of the cable for HDD method	NA	
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.	YES	
2.4	Methodology for laying of utility line		
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	HT cable will be laid through trench in ground by manual digging.	
	a) Defect Liability Period of the Stretch		
	b) The trench width should be atleast 30cm, but not more than 60cm wider than the outer diameter of the cable	YES	
	c) For filling of the trench, bedding shall	YES	

	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 cable and (2) over fill to the bottom of the road crest.	YES	
	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.	YES	
	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.	YES	
	h) If required, a diversion shall be constructed at the expense of the agency owing the HT cable line/ underground water conductor system	YES	
2.4.2	Horizontal directional drilling (HDD), method	NA	
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	Not Enclosed	
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	Undertaking attached	


 R. S. JAYARAMAN
 PROJECT MANAGER
 TIRUNELVELI
 TIRUNELVELI


 P. J. JAYARAMAN
 PROJECT MANAGER
 TIRUNELVELI


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.		
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	Attached	
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	Attached	
5.4	Undertaking for indemnity against all damages and claims	Attached	
5.5	Undertaking for management of traffic movement during laying of utility line without hampering the traffic	Attached	
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.	Attached	
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.	Attached	
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	Attached	
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.	Attached	
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.	Attached	

5

R. VENKATASHANAM
JILDA DIRECTOR
NATIONAL HIGHWAY AUTHORITY OF INDIA
PUNJAB REGIONAL OFFICE
CHANDIGARH

S. D. Singh


6.	Who will sign the agreement on behalf of utility line agency	Assistant Engineer, KSEB Electrical Section - Pettah.	
	Power of attorney to sign the agreement is available or not	NA	
7.	Certificate from PD NHAI/Executive Engineer, PWD as per the format		


R. VENKATA KRISHNAN
PROJECT DIRECTOR
NATIONAL HIGHWAYS AUTHORITY OF INDIA
PROJECT IMPLEMENTATION UNIT
THIRUVANANTHAPURAM

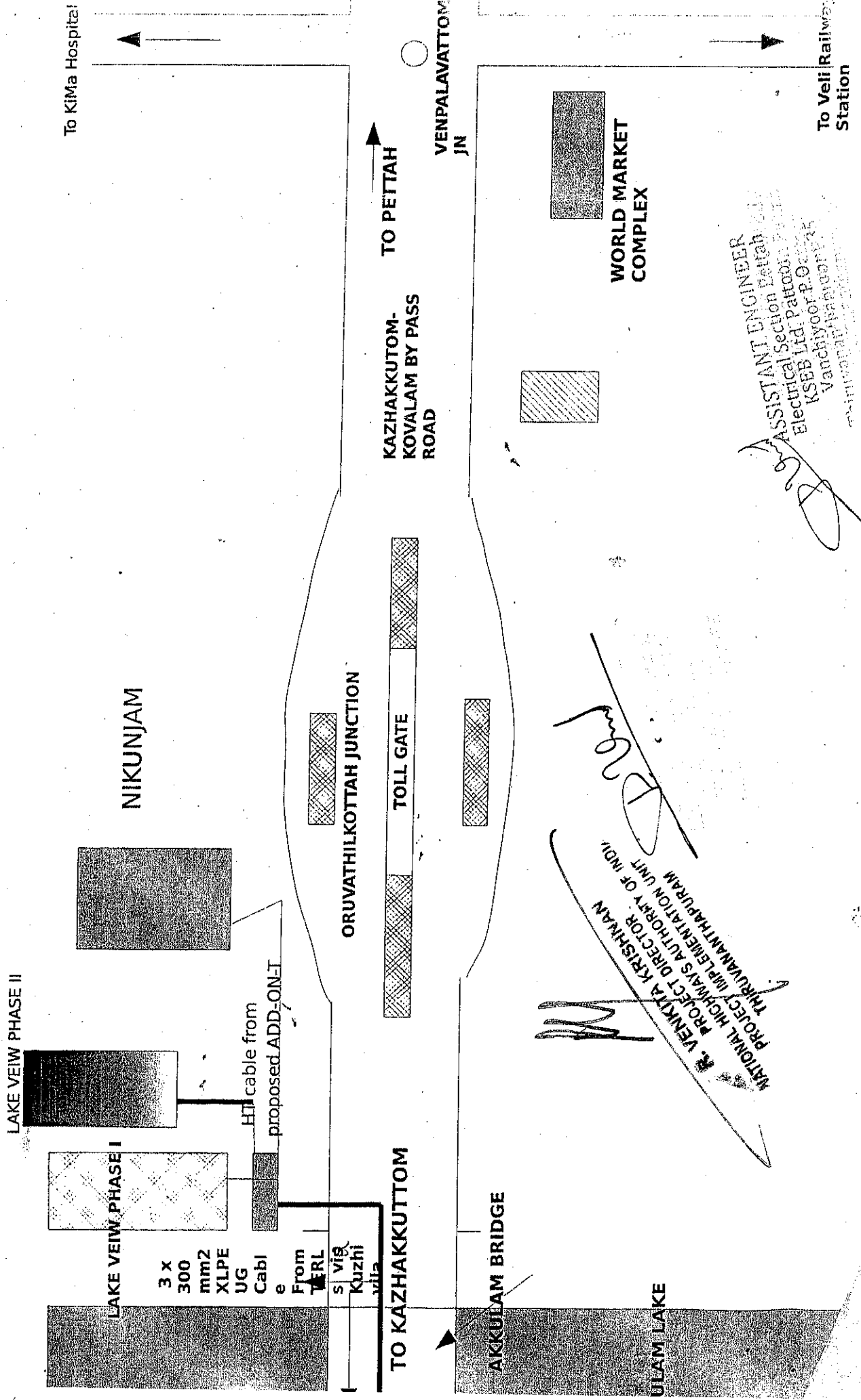

Assistant Engineer, KSEB
Electrical Section - Pettah
KSEB Ltd. Thiruvananthapuram
Thiruvananthapuram

CERTIFICATE

1. Undersigned has examined the proposal of the applicant for laying of 1.1 KV HT ~~1.1 KV HT~~ cable of size 3X150 sq.mm. & length 100m (wt. length 50m). and confirm that the all standard conditions issued vide Ministry circular No: RW/NH-33044/29/2015/S&(R) dated 22.11.2016 has been followed.
2. It is certified that, the proposal submitted by the applicant is for granting permission for laying of utility on NH stretch entrusted to ~~NHAI~~ [NH Wing of PWD/NHAI]
3. It is certified that any other location of utility line would be extremely difficult and unreasonable costly and installation of utility 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.
4. I will ensure supervision of the work of laying of utility and ensure that the defects in road portion after laying of utility are corrected.
5. I will notify/forfeit the BG for claims for damages done/disruption in working, if any.
6. I will ensure that proposed permission is entered in the register of records
7. The record of previous approval, if any has been considered and copy of same is enclosed with the proposal.


R. VENKITA KRISHNAN
PROJECT DIRECTOR
NATIONAL HIGHWAYS AUTHORITY OF INDIA
PROJECT IMPLEMENTATION UNIT
THIRUVANANTHAPURAM
[Name, Designation and
signature of concerned
field authority of
NHAI/PWD]

SINGLE LINE DIAGRAM OF THE LOCATION OF M/S NIKUNJAM APARTMENT



R. VENKTA KRISHNAN
 PROJECT DIRECTOR
 NATIONAL HIGHWAYS AUTHORITY OF INDIA
 THIRUVANANTHAPURAM

ASSISTANT ENGINEER
 Electrical Section Petta
 KSEB Ltd. Petta
 Vanchiyoor P.O.
 Thiruvananthapuram