



सत्यमेव जयते

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)

National Highways Authority of India

(Ministry of Road Transport & Highways, Govt. of India)

क्षेत्रीय कार्यालय : एफ-120, जनपथ, श्याम नगर, जयपुर-302019

Regional Office : F-120, Janpath, Shyam Nagar, Jaipur-302019

Tel. (O) / फोन : (ऑ.) 0141-2292056, 2292049

E-mail / ई-मेल : rojaipur@nhai.org Web. / वेब : www.nhai.gov.in



क्रमांक: NHAI/18013/1/2021-ROJ/Permission-Crossing 11 KV Electric Cable/281/NH-48, km 377.612/2040 दिनांक: 23.10.2023

INVITATION OF PUBLIC COMMENTS

- विषय: Proposal for grant of permission for crossing underground 11 KV electric cable through HDD method of proposed public utility services on Kishangarh-Bhilwara section of NH-48 at Km. 377/612 (LHS to RHS) at Village-Lambia Kalan, Tehsil-Banera, Distt-Bhilwara in the state of Rajasthan by AVVNL - reg.
- सन्दर्भ: (i) Ex. En (O&M), AVVNL, Mandal letter no. AVVNL/Mandal/NHAI/01 dated 02.08.2023.
(ii) PD, PIU-Chittorgarh letter no. NHAI/CHIT/NH-48/NOC-ROW/2023/474 dated 18.09.2023 (received on 25.09.2023).

Sir,

It is to inform all concern EE, (O&M), AVVNL, Mandal vide letter cited under ref. (i) above has submitted a proposal for the subjected work and PD, NHAI, PIU, Chittorgarh has submitted the above proposal vide letter under reference (ii) for approval of the Competent Authority, Highway Administration.

2. The proposal is for grant of permission for crossing underground 11 KV electric cable through HDD method of proposed public utility services on Kishangarh-Bhilwara section of NH-48 at Km. 377/612 (LHS to RHS) at Village-Lambia Kalan, Tehsil-Banera, Distt-Bhilwara in the state of Rajasthan by AVVNL.

3. As per Para-4 of Ministry's Circular No. RW/NH-33044/29/2015S&R(R) dated 22.11.2016, the Highway Administration shall be put out in the public domain for 30 days for seeking claims and objections (on grounds of public inconvenience, safety and general public interest).

4. In view of the above, before approval of the competent authority, the comments/objections of affected public is hereby invited with reference to the Ministry's circular dated 22.11.2016 due to crossing of 11 KV Electric Cable across the subjected project stretch. The objections/comments may be addressed to the below mentioned address upto 23.11.2023, beyond due date, no comments/objections will be accepted.

The Regional Officer, Regional Office - Jaipur
National Highways Authority of India,
F-120, Janpath, Shyam Nagar, Jaipur (Raj.)-302019,
Tel : 0141-2292049, 2292054 Email : rojaipur@nhai.org

This issues with the approval of Highway Administration-cum Regional Officer, NHAI, Jaipur

सर्वदीप्त,
(मन्मोज खोड़ा)
प्रबन्धक (तकनीकी)

- Copy to: (i) Web Admn., NHAI, HQ, New Delhi - for uploading in NHAI's website [web-admin@nhai.org]
(ii) Director, NIC, New Delhi - for uploading in Ministry's website. [mansoor@nic.in]
(iii) PD, PIU-Chittorgarh: for information.
(iv) EE, (O&M), AVVNL, Mandal: for information.



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण National Highways Authority of India

(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)
(Ministry of Road Transport & Highways, Government of India)

परियोजना कार्यान्वयन इकाई, चित्तौड़गढ़
Project Implementation Unit-Chittorgarh

कि.मी. 892 (जंक्शन NH-76 एवं NH-79) गाँव-रिठोला, पो.-सहनवा, जिला-चित्तौड़गढ़ - 312001 (राज.)
Km. 892 (Junction of NH-76 & NH-79) Vill. Rithola, Po. Sahanwa, Distt. Chittorgarh - 312001(Raj.)
Phone : +91-1472-294637, Email : chit@nhai.org



NHAI/CHIT/NH-48/NOC-ROW/2023/ 474

Date: 11.09.2023

To,

The GM (Tech.)/ Regional Officer
National Highways Authority of India,
Regional Office - Jaipur
F-120, Shyam Nagar, Janpath,
Jaipur-302019 (Raj.)



MIT-MK

25/9

Shree (Mw)
22/9/23

Sub.: Permission for Crossing Under Ground Electric Cable through HDD method of Proposed Public Utilities Services on Kishangarh Bhilwara Road section (N.H.-48) at Km Ch. 377/612 (L.H.S. to R.H.S.) at the Village Lambia Kalan, Tehsil Banera, Dist. Bhilwara in the State Rajasthan:- Provisional NOC - reg.

Ref:

- Executive Engineer (O&M) AVVNL, Mandal letter no. AVVNL/Mandal/NHAI/01 Dated 02.08.2023
- This office letter no. NHAI/CHIT/NH-48/NOC-ROW/2023/405 dated 18.08.2023
- IE letter no. LNM/NH48/O&M/IE/NHAI/2023/247 dated 08.09.2023

Sir,

Executive Engineer (O&M) AVVNL, Mandal vide letter under reference (i) submitted the proposal for Permission for Crossing Under Ground Electric Cable through HDD method of Proposed Public Utilities Services on Kishangarh Bhilwara Road section (N.H.-48) at Km Ch. 377/612 (L.H.S. to R.H.S.) at the Village Lambia Kalan, Tehsil Banera, Dist. Bhilwara in the State Rajasthan.

Subsequently, this office vide letter under reference (ii) forwarded the proposal to Independent Engineer M/s. L.N. Malviya Infra Projects Pvt. Ltd. in association with Intratech Solutions & Consultant for its examination in light of MoRT&H's Guideline No. RW/NH-33044/29/2015/S&R(R) dated 22.11.2016 and subsequently, IE vide letter under reference (iii) conveyed their comments with recommendation for approval.

The license fee calculated as per the guidelines dated 22.11.2016 comes out to be Rs.9,000/- (Nine Thousand Only) and the Performance Bank Guarantee towards successful completion of the work is calculated that comes out be Rs. 1,00,000/- (One Lakh only). Both the amount shall be asked prior to signing of the agreement and grant of Provisional NOC.

In view of the above, the proposal for Execution of the work on Gulābpura-a Road section (N.H.-48) at Km Ch. 377/612 (L.H.S. to R.H.S.) with 01 year defect liability period followed by 10 year O&M in the Village Lambia Kalan, Tehsil Banera, Dist. Bhilwara in the State Rajasthan, is herewith recommended for approval of the Competent Authority, please.

Encl:As above

Pratima Gupta
Project Director

Inspection report

Sub.:- Independent Engineer Services during Operation & Maintenance Stage of (1) Six Laning of Kishangarh-Gulabpura Section of New NH-48 (Old NH-79A and NH-79) from Km. 0+000 to Km. 90+000 (Length 90.000) in the State of Rajasthan on DBFOT (Toll) under NHDP Phase-V (Package-1) Reg: - **Submission of Proposal for crossing 11KV cable using HDD Method across NH-48 at chainages on Kishangarh-Gulabpura section.**


In the light of direction as mentioned in Ministry guidelines circulated vide letter no. RW-NH-33044/29/2015-S&R @ dated 22.11.2016 and RW/GNR/NH/Utility/Genral/2019/611 dated 22.07.2019 regarding issuance of NOC for access to private property/ Retail out let / OFC/ Pipelines etc,

We have examined the proposal with respect to NHAI and MORT&H guidelines, the ROW position at said chainage along with drawing and checklist and our technical comments are as under -

1. As per the submitted checklist, following has been observed:-

- (i) Location: Exact chainage for crossing 11KV Duct is matched.
- (ii) New Ch. 285+286 (at Km 285+680) in this location found ok

After verification & considering all points mentioned in Checklist, it is recommended for issuance of Provisional NOC for the proposal.


Project Director
National Highways Authority of India
P.I.U. Chittorgarh (Raj.)


IE Representative


CHECK LIST

Enclosure to Ministry of Road Transport & Highways letter no.
RW/NH-33044/29/2015/S&R(R) Dated 22th November, 2016

Check list for processing the proposal for Laying / Crossing of utility line in the land along National Highway vested with NHAI/PWD/BRO

General Information.

1	Name and Address of the Applicant/ Agency	:	Executive Engineer, (O & M), A.V.V.N.L., MANDAL, BHILWARA (RAJ.)
2	National Highway Number	:	N.H.- 48 (Old N.H.-79) KISHANGARH - BHILWARA ROAD
3	State	:	RAJASTHAN
4	Location	:	Village - LAMBIA KALAN, Tehsil - BANERA Dist.- BHILWARA
5	(Chainage in km.)	:	ROAD CH. - 377/612 [L.H.S. TO R.H.S.]
6	Length in Meters	:	90m
7	Width of available ROW in both side (Mtr.)	:	90.0m (45m + 45m)
8	[Side of NH (Left or right side of NH towards increasing Chainage/ Km. direction)]	:	LHS - RHS of KISHANGARH - BHILWARA ROAD (N.H.- 48) towards Udaipur in crossing of Km. 377
9	Name of Highway/ Authority (NHAI/PWD/BRO)	:	NATIONAL HIGHWAY AUTHORITES OF INDIA
10	Highway Administration address	:	Project Director, NHAI, PIU-CHITTORGARH KM 892 (Junction of NH-76 & NH-79), Village – Rithola, Post – Sahwana, CHITTORGARH (Raj.) 312001,

[Signature]

Project Director
National Highways Authority of India
P.U. Chittorgarh (Raj.)



[Signature]
(Er. N.N. MEENA)
Executive Engineer (O&M)
A.V.V.N.L. MANDAL

Enclosure to Ministry of Road Transport & Highways letter no.
RW/NH-33044/29/2015/S&R(R) Dated 22th November, 2016

Check list for processing the proposal for Laying / Crossing of utility line in the land along National Highway

Sr. No.	Item	Measurement Observations as per site condition	Morth Norms	Whether complying with MORTH Norms**
1	Details of already laid utility service, if any	No	Enclosed	Yes/No
2	Whether up gradation of the stretch in near future is proposed or not	No	Yes	Yes/No
	(a) If yes, provision of utility adversely affect the plan of up- gradation	N.A.	Not affect plan of up- gradation	Yes/No
3	Laying of the utility service along the National Highways.			
3.1	Location of proposed utility service along the stretch	Yes, Under Ground Utility Duct from beyond the ROW to out of ROW and through the private land	Utility Duct/ beyond the toe line of the embankment and drains, and close to the extreme edge of the RoW	Yes/No
3.2	Depth of top of utility service from ground level	1.20m	0.60 meter	Yes/No
3.3	Mechanism for crossing water channel	N.A.	Through utility duct (if provision exists) or beneath the bed of water channel	Yes/No
3.4	Whether ROW is restricted in this stretch?	N.A.		Yes/No
3.4.1	If yes, whether provision of land acquisition is required to lay utility	N.A.		Yes/No
	(a) If yes, whether undertaking for land acquisition along with relevant L.A. details has been furnished	N.A.		Yes/No
3.4.2	Width of concrete duct, if utility services are proposed to be laid in concrete ducts	N.A.	Not less than one lane	Yes/No




Project Director
National Highways Authority of India
P.I.U. Chittorgarh (Raj.)


(Er. N.N. MEENA)
Executive Engineer (O&M)
A.V.V.N.L. *MANDAL

4	Laying of utility services across the NH			
4.1	Whether Existing drainage structures is allowed to carry the utility lines.	No	Not to be allowed	
4.2	Proposed crossing of utility service	Under Gound Road Crossing	Perpendicular to NH	Complying
4.3	Type of casing pipe/conduit carrying the utility line.	HDPE (Have adequate strength)	Steel, cast iron, or NA reinforced cement concrete and have adequate strength	Yes/No
4.4	Whether ends of the casing/conduit pipe are sealed from the outside	Sealed	Sealed	Yes/No
4.5	Length of casing/conduit pipe crossing NH	Crossing	Extend from drain to drain in cuts and toe to toe of slope in the fills	Yes/No
4.6	Depth of top of the casing/conduit pipe.	1.20m	At least 1.2 m below the top of subgrade	Yes/No
4.7	Crossing method in case of CC pavement.	H.D.D.	Only boring method (HDD)	Yes/No
4.8	Horizontal and vertical clearances in case utilities are allowed overhead	N.A. (Underground Only)	In accordance with IRC codes	Yes/No
5	Document I Drawings enclosed with the proposal			
5.1	Cross-Section showing the size of trench for open trenching method	N.A.	Enclosed, if applicable	Yes/No
	(a) Trench width	30cm trench width	More than 30 cm and less than 60 Cm.vider than the outer diameter of the utility pipe	Yes/No
	(b) Filling of trench	Yes, As per MoRTH Guidelines	as per Ministry guidelines vide letter No. RW/ NH-34044/29/2 015/ S&R (R) dated 22.11.2016	Yes/No
	(c) Location of trench	Yes, As per MoRTH Guidelines	extreme edge of the ROW	Yes/No
5.2	Cross section showing the size of pit and location of conduit for HDD method	Enclosed	Enclosed, if applicable	Yes/No
5.3	Strip plan/ Route plan showing utility line, chainage, width of ROW, distance of proposed utility from the edge of ROW, important mile stone, intersections, cross drainage works etc	Enclosed	Enclosed	Complying
5.4	Plan and profile drawing of stretch showing cross section of road at 20m distance-alongwith ROW and proposed utility	Enclosed	Enclosed	Yes/No




Project Director
National Highways Authority of India
P.U. Chittorgarh (Raj.)


(Er. N.N. MEENA)
Executive Engineer (O&M)
A.V.V.N.L. ANDAL

6	Methodology for laying of utility line	H.D.D.	Enclosed	Yes/No
7	Draft License Agreement is as per Ministry guidelines vide letter No. RW/NH-34044/29/2015/5&R (R) dated 22.11.2016 and signed by two witnesses	Yes, As per MoRTH Guidelines	Enclosed	Yes/No
8	License fees in Favor of MoRTH RPAO Jaipur	Yes, As per MoRTH Guidelines	As per Ministry guidelines vide letter No. RW/ NH-34044/29/2 015/ S&R (R) dated 22.11.2016	Yes/No
9	Whether Bank Guarantee has been obtained	Yes, As per MoRTH Guidelines	As per Ministry guidelines vide letter No. RW/ NH-34044/29/2 015/ S&R (R) dated 22.11.2016	Yes/No
	(a) If yes, whether Confirmation as per of BG has been obtained as per MoRTH/ NHAI guidelines	Yes, As per MoRTH Guidelines		Yes/No
10	Affidavit / Undertaking from the Applicant for			
10.1	Undertaking for net to damage other existing utility, if damaged then to pay the losses to either to MoRTH/NHAI or to the concerned agency.	Yes	Enclosed	Yes/No
10.2	Undertaking for renewal of Bank Guarantees and when asked by NHAI/ MoRTH	Yes	Enclosed	Yes/No
10.3	Undertaking for confirming all standard condition of MoRTH/NHAI guidelines.	Yes	Enclosed	Yes/No
10.4	Undertaking for shifting of utility as and when asked by MoRTH/ NHAI within a month at their own cost.	Yes	Enclosed	Yes/No
10.5	Undertaking for indemnity against all damages and claims.	Yes	Enclosed	Yes/No
10.6	Undertaking for management of traffic movement during laying of utility line without hampering the traffic.	Yes	Enclosed	Yes/No
10.7	Undertaking that If any claim is raised by the Concessionaire/ contractor then the same has to be paid by the applicant	Yes	Enclosed	Yes/No
10.8	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 Safety Organization, Oil Industry Safety Directorate, State/Central Pollution Control Board and any other statutory clearances applicable, before applying to Highway Administration	Yes	Enclosed	Yes/No




Project Director
National Highways Authority of India
P.I.U. Chittorgarh (Raj.)


(Er. N.N. MEENA)
Executive Engineer (O&M)
A.V.V.N. L. MANDAL
Executive Engineer, (O & M), A.V.V.N.L.,
MANDAL, BHILWARA (RAJ.)

[Name, Designation and Signature of the authorized representative]

Methodology of Laying of OFC Cable - Open Trenching / Trenchless (HDD)

Trenching Method:

Laying of Crossing under Ground Electric Cable along N.H. will be done by electric pole method. The Cable laying (Overhead electric pole) work will be carried out in phased manner in such a way that after installation of RCC electric pole for Electric Wire will be reinstated to its original surface.

Trench Filling Method:

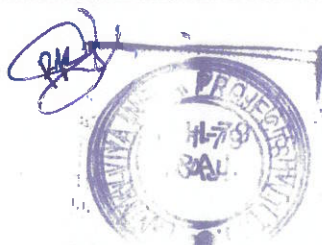
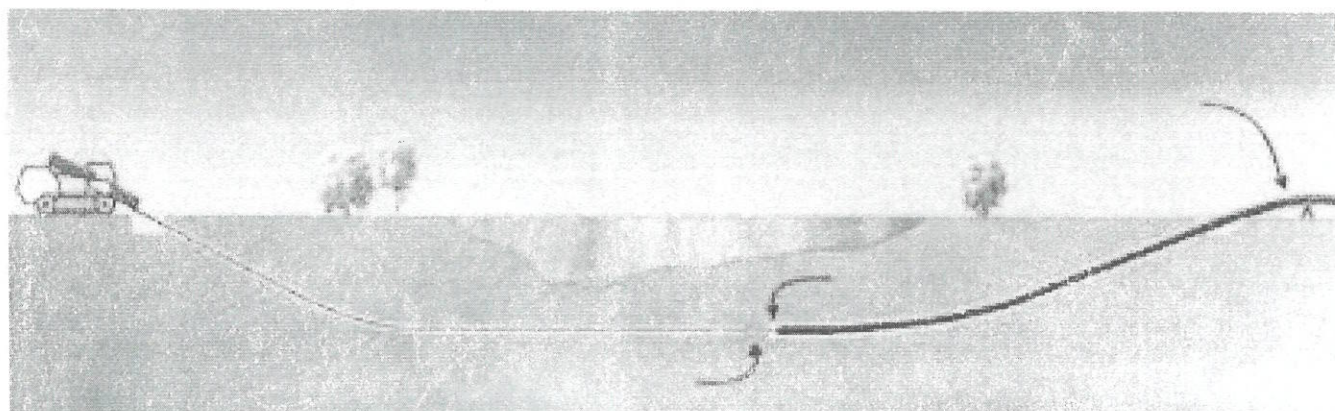
As a measure of abundant precaution against future settlement and other allied problems, only selected granular material will be used in filling reinstatement of trenches. The entire depth of cutting will be filled with coarse sand or the excavated material, compacted in layers not exceeding 75 mm when compacted by ordinary power roller /plate compacter. Special Compaction equipment like plate compacter, frog hammer will be utilized besides ordinary power roller.

Trenchless Crossing: HDD Method

Horizontal Directional Drilling (HDD) is a technique for installing product pipes, including utility lines. Below ground using a surface-mounted drill rig that launches and places a drill string at a shallow angle to the surface and has tracking and steering capabilities. In recent years HDD has been the preferred methodology due to several government policies conducive to infrastructure growth.

All crossing on the Route will be done by Horizontal Directional Drilling method without disturbing the road surface.

A Typical HDD Methodology is shown below:




(Er. N.N. MEENA)
Executive Engineer (O&M)
A.V.V.N.L. MANDAL