



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)

NATIONAL HIGHWAYS AUTHORITY OF INDIA

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

क्षेत्रीय कार्यालय / REGIONAL OFFICE

ई-6/47, स्मृति परिसर, साईबोर्ड के पास, अरेरा कॉलोनी, भोपाल (म.प्र.)-462016

E-6/47, Smriti Parisar, Near Sai Board, Arera Colony, Bhopal (M.P.)-462016

दूरभाष / Phone : 0755-2426638, फ़ैक्स/Fax : 0755-2426698, ई-मेल/E-mail ID - robhopal@nhai.org

NHAI/RO-BPL/BPL/11KV/JPSPL/NH-46/2023/49858

20th September, 2023



Invitation of Public Comments

Sub: Regarding permission for laying underground road crossing of 11KV line by Trenchless (HDD Method) on NH-46 Ch. 27.595 RHS at Khasra no. 60/1/1 Village Bansapur Tehsil Budhni District Sehore in the State of Madhya Pradesh - reg.

Ref: PD, PIU Bhopal letter no. 23741 dated 05.09.2023.

Please refer to above mentioned proposal pertaining to permission of laying underground road crossing of 11KV line on the subject stretch.

2. As per Ministry OM No. RW/NH-33044 S&R (R) dated 22.11.2016, the Highway Administrator will make available the proposal seeking permission for utility laying for public comments for 30 days on ground of public interest.

3. In view of the above, the comments of public are invited on captioned proposal and the same should reach to below mentioned address till 20.10.2023 beyond which no comments will be considered.

The Highway Administrator

O/o Regional Officer,

National Highways Authority of India

E-6/47, Smriti Parisar, Near Sai Board,

Arera Colony, Bhopal (MP)-462016

E-mail ID: robhopal@nhai.org

4. This is being issued with the approval of Regional Officer cum Highway Administrator.

(Krishnendra Dwivedi)

Manager (T) - RO Bhopal

Copy to:

- Web Admin, NHAI-HQ - with request for uploading on the NHAI website.
- The Senior Technical Director, NIC, Transport Bhawan, New Delhi-110001 - for uploading on Ministry's Website.
- The Project Director, NHAI, PIU- Bhopal (M.P.) - for information.
- JP Structure Pvt. Ltd., JP SAPPHIRE, 4th Floor, near GST Bhavan, Race Course Ringh Road, Rajkot-360001 (Gujarat) (Email: jp@jpstructures.in).

CHECKLIST

Guidelines for project Directors for processing the proposal for laying of underground cable pipeline in the land along National Highways vested with NHAI.

Relevant circulars of Ministry of Road Transport and Highways

1. Circular No. NH-III/P/66/76 dated 18/19.11.1976.
2. Circular No. RW/NH-III/P /66/76 dated 11.5.1982.
3. Circular No. RW/NH-11037 /1/86/DOI (ii) dated 28.7.1993.
4. Circular No. RW/NH-11037/1/86/DOI dated 19.1.1995.
5. Circular No. RW/NH-34066/2/95/S&R dated 25.10.1999.
6. Circular No. RW/NH-34066/7 /2003 S&R(B) dated 17.9.2003.
7. NHAI's circular No. NHAI/OEC/2k/Vol II dated 7.11.2000, which includes the comprehensive guidelines and draft license agreement by private party in the land along National Highway vested with NHAI.
8. Circular No. RW/NH-33044/27 /2000-S&R (R) dated 21.3.2006. It is regarding the modification of previous Ministry circular enhancing the amount of performance bank Guarantee@ Rs 50/- per route meter in place of earlier rate of Rs 25 /- per route meter.
9. Circular No. RW/NH-33044/29 /2015/S&R (R) dated 22.11.2016.

Check list for getting approval for laying of underground cable pipeline (11KV, 185 sq mm, 3 core HT cable) on NH land.

The permission for laying of underground cable pipeline shall be considered for approval/rejection based on the Ministry Circulars mentioned as above.

- (a) Carrying of underground cable pipeline on highway bridges shall not be permitted as furmes/ underground cable pipe can be accelerate the process of corrosion or may cause explosions, thus being much more injurious than leakage of water.
- (b) Services are not being allowed indiscriminately on the parapet/ any part of the bridges, safety of the bridges has to be kept in view while permitting various services along bridge.

Guidelines for processing the proposal for laying of utility line in the land along national Highways/ Expressway vested with NHAI/PWD/BRO.



| S. No | Item | Information/Status | Remarks |
|-------|---|--|---------|
| 1 | General Information | | |
| 1.1 | Name and Address of the Applicant/Agency | Shri JP STRUCTURE PRIVATE LIMITED. JP Sapphire 4th Floor, Near GST Bhavan, Race Course Ring Road, Rajkot, Gujarat | |
| 1.2 | National Highway Number | NH-46 | |
| 1.3 | State | Madhya Pradesh | |
| 1.4 | Location | Bansapur, Budhni, Sehore | |
| 1.5 | (Chainage in KM) | 27.595 RHS | |
| 1.6 | Length In Meters | 60+2+2=64 | |
| 1.7 | Width of Available ROW | | |
| | a. Left side from center line towards increasing chainage/Km direction | 30m | |
| | b. Right side from center line towards increasing chainage/Km direction | 30m | |
| 1.8 | Proposal to lay underground electrical cable. | YES | |
| | a. Left side from center line towards increasing chainage/Km direction | YES | |
| | b. Right side from center line towards increasing chainage/Km direction | YES | |
| 1.9 | Proposal to acquire land | NA | |
| | a. Left side from center line | NA | |
| | b. Right side from center line | NA | |
| 1.10 | Whether Proposal is in the same side where land is not to be acquired | NA | |
| | If not then where to lay the cable. | NA | |
| 1.11 | Details of already laid services , if any, along the proposed route | NA | |
| 1.12 | Number of existing lanes (2/4/6/8 lanes) | 4/6 LANE | |
| 1.13 | Proposed Number of lanes (2 lanes with paved shoulders/4/6/8 lanes) | NA | |
| 1.14 | Services road existing or not If yes then which side | YES | |
| | a. Left side from center line | 6.5M | |
| | b. Right side from center line | 6.5M | |
| 1.15 | Proposed service road | NA | |



प्रबंधक (तकनीकी)
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NHAI PIU-BHOPAL



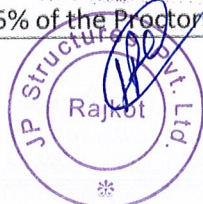
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| | a. Left side from center line | NA | |
| | b. Right side from center line | NA | |
| 1.16 | Whether proposal to lay underground cable pipeline is after the service road or between the service road and main carriageway. | AFTER THE SERVICE ROAD | |
| 1.17 | Whether carrying underground cable pipeline has been proposed on highway bridges. If yes then mention the methodology proposed for the same. | NA | |
| 1.18 | Whether carrying of underground cable pipeline has been proposed on parapet/ any part of the bridges.. If yes then mention the methodology proposed for the same. | TRENCHLESS , HDD METHOD | |
| 1.19 | If crossing of the road involved | | |
| | If yes, it shall be either encased in pipes or through structure or conduits specially built for that purpose at the expenses of the agency owning the line. | TRENCHLESS , HDD METHOD | |
| | a. Whether existing drainage are allowed to carry underground cable pipeline | NA | |
| | b. Is it on a line normal to NH | YES | |
| | c. What is the distance of crossing the underground cable pipeline pipelines from the existing structures? Crossings shall not be too near the existing structures on the National Highway, the minimum distance being 15 meter. | NO EXISTING STRUCTURE WITHIN 15M | |
| | d. The casing pipe (or conduit pipe in the case of electric cable) carrying the utility line shall be of steel, cast iron, or reinforced cement concrete and have adequate strength and be large enough to permit ready withdrawal of the carrier pie/cable. Mention type of casing, | GI PIPE 150MM | |
| | e. Ends of the casing/ conduit pipe shall be sealed from the outside, so that it does not act as a drainage path. | YES | |
| | f. The casing/ conduit pipe should, as minimum extend from the drain to drain in cuts and toe of slope in the fills. | YES | |
| | g. The top of the casing/ conduit pipe should be at least 1.2 meter below the surface of the road subject to being at least 0.3 meter below the drain inverts. Mention the proposed details. | YES | |
| | h. Mention the methodology proposed for the crossing of road for the proposed underground cable pipeline. Crossing shall be by boring method (HDD) [Trench-less Technology] especially where the existing road pavement is of cement concrete or dense bituminous concrete type. | HDD METHOD | |
| | 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 | YES | |



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| | waterway along it. | | |
| 2 | Document/Drawing to be enclosed with the proposal | YES | |
| 2.1 | Cross section showing the size of trench for open trenching method (Is it normal size of 1.2m deep x0.3m wide) | NA | |
| | I. Should not be greater than 60cm wider than the outer diameter of the pipe | NA | |
| | II. Located as close to the extreme edge of the right-of-way as possible but not less than 15 meter from the centre-lines of the nearest carriageway | NA | |
| | III. Shall not be permitted to run along the National Highways when the road formation is situated in double cutting. Nor shall these be laid over the existing culverts and bridges. | NA | |
| | IV. These should be so laid that their top is at least 0.6 meter below the ground level so as not to obstruct drainage of the road land | | |
| 2.2 | Cross section showing the size of pit and location of cable for HDD Method. | YES | |
| 2.3 | Strip plan/ Route Plan showing underground cable pipeline, chainage, width of ROW, distance of proposed underground cable pipeline from the edge of ROW, important mile stone, intersections, cross drainage works etc. | YES | |
| 2.4 | Methodology for laying of underground cable pipeline. | HDD METHOD | |
| 2.4.1 | Open Trenching method. (May be allowed in utility corridor only where pavement is neither cement concrete nor dense bituminous concrete type. IF yes, What is the Methodology of refilling of trench? | NA | |
| | a. The trench width should be at least 30 cm, but not more than 60cm wider than the outer diameter of the pipe. | NA | |
| | b. For filling of the trench, bedding shall be to a depth of not less than 30 cms. It shall consist of granular material free of lumps, clods and cobbles and graded to yield a firm surface without sudden change in the bearing value. Unsuitable soil and rock edged should be excavated and replaced by selected material. | NA | |
| | c. The backfill shall be completed in two steps (i) side fill to the level of the top to the pipe and (ii) overfill to the bottom of the road crust. | NA | |
| | d. The side fill shall consist of granular material laid in 15 cm layers each consolidated by mechanical tampering and controlled addition of moisture to 95% of the Proctors' density. Over fill shall be | NA | |



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| | compacted to the same density as the material that had been removed. Consolidation my saturation or pending will not be permitted. | | |
| | e. The road crust shall be built to the same strength as the existing crust on either side of the trench. Care shall be taken to avoid the formation of a dip at the trench. | NA | |
| | f. The excavation shall be protected by flagman, signs and barricades, and red lights during night hours. | NA | |
| | g. If required, a diversion shall be constructed at the expenses of agency owning the utility line. | NA | |
| 2.4.2 | Horizontal Directional Drilling (HDD) Method | YES | |
| 2.4.3 | Methodology for laying of underground cable pipeline through CD works and method of laying. In cases where the carrying of underground cable pipeline on the bridge becomes inescapable. | NA | |
| 3 | Draft License Agreement signed by two witnesses. | YES | |
| 4 | Performance bank Guarantee in favor of NHAI has to be obtained @ Rs 50/- per running meter (parallel to NH) and Rs 1,00,000/- per crossing of NH, for a period of one year initially (extendable if required till satisfactory completion of work) as a security for ensuring/making good the excavated trench for laying the underground cable Pipeline ducts by proper filling and compaction, clearing Debris/loose earth produced due to execution of trenching at least 50m away from the edge of the right of way. No payment shall be payable by the NHAI to the license for Clearing debris/loose earth. Performance BG as per above is To be obtained. | TO BE SUBMITTED | |
| 4.1 | Confirmation of BG has been obtained or not as per NHAI Guidelines. | NA | |
| 5 | Affidavit/ Undertaking from the Applicant for the following are to be furnished. | | |
| 5.1 | Not to Damage to other utility, if damaged then pay the losses either to NHAI or to the concerned agency. | YES | |
| 5.2 | For renewal of bank Guarantee | YES | |
| 5.3 | For confirming all standard condition of Ministry Circulars and NHAI's guidelines. | YES | |
| 5.4 | For shifting of underground cable Pipeline as and when required by NHAI at their own cost. | YES | |
| 5.5 | For shifting of underground cable Pipeline due to 4/6 lanning. Widening of NH | YES | |
| 5.6 | For indemnity against all damages and claims. | YES | |
| 5.7 | For traffic movement during laying off for shifting of underground cable Pipeline due to 4/6 lanning. Widening | YES | |



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| | NH pipe line to be managed by the applicant. | | |
| 5.8 | If any claim is raised by the Concessionaire the same has to be paid by the applicant. | YES | |
| 5.9 | Prior approval of the NHAI shall be obtained before undertaking any work if installation, shifting or repairs, or alterations to the For shifting of underground cable Pipeline due to 4/6 lanning. Widening of NH line/ any other utility located in the national highway right-of- ways. | YES | |
| 5.10 | Expenditure, if any, incurred by NHAI for repairing any damage caused to the national Highway by the laying, maintenance or shifting of the For shifting of underground cable Pipeline due to 4/ 6 lanning. Widening of line at NH will be borne by the applicant agency owning the line. | YES | |
| 5.11 | If the NHAI considers it necessary in future to <i>move</i> the utility line for any work of improvement or repairs to the road, it will be carried out as desired by the NHAI at the cost of the agency owning the utility line within a reasonable time (not exceeding 60 days) of the intimation given. | YES | |
| 5.12 | Certificate from the applicant in the following format | | |
| | i. Laying of Underground cable pipe line will not <i>have</i> any deleterious effects on any of the bridge components and roadway safety for traffic | YES | |
| | ii. We do undertake that I will relocate service Yes road/approach road/utilities at my own cost notwithstanding the permission granted within such time as will be stipulated by NHAI" for future four/ six-lanning or any other development. | YES | |
| 6 | Who will sign the agreement on behalf of Underground cable pipe line agency? | Ukani Hareshbhai Ravjibhai | |
| 7 | The Project director, will submit the following Certificates | | |
| 7.1 | Certificate for proposal for confirming of all standard condition issued vide Ministry of Road transport and highways circular No. NH-III/P/66/76/ dated 18/19/11. 1976, RW/NH-III/P/66/76/ dated 11.05.1982. RW/NH-11037/1/86/DOI (ii) dated 28.07.1993, RW/NH-11037/1/86/DOI Dated 19.01.1995, RW/NH-34066/2/95/ S&R dated 25.10.1999 and Circular No. RW/NW-34066/7/2003 S&R (B) dated 17.09.2003 | | |
| 7.2 | Certificate from PD in the following format | | |
| | i. " it is certified that any other location of the underground cable pipeline would be extremely difficult and unreasonable costly and the | | |



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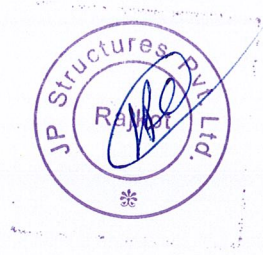


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| | installation of underground cable pipeline within ROW will not adversely affect the design, stability & traffic safety of the highway nor likely future improvement such as widening of the carriageway, easing of curve etc." | | |
| | ii. For 4/6- Lanning | | |
| | a. Where feasibility is available "I do certify that there will be no hindrance to proposed four/six-lanning based on the feasibility report considering proposed structure at the said Location". | | |
| | b. In case feasibility report is not available "I do certify that sufficient ROW is available at site for accommodating proposed four /six-lanning". | | |
| 8. | If NH section proposed to be taken up by NHAI on EPC basis- a clause is to be inserted in the agreement." The permitted Highway on which licensee has been granted the right to lay pipeline duct has also been granted as a right of way to the concessionaire under the ----- ----- Section from Km.27+595 of NH No.46 and therefore, the licensee shall honor the same." | | |
| 9. | Who will Supervise the work of laying of underground cable line | JP STRUCTURE PRIVATE LIMITED. | |
| | a. On behalf of the Applicant | Ukani Hareshbhai Ravjibhai | |
| | b. On behalf of NHAI | | |
| 10. | Who will ensure that the defects in road portion after laying of underground cable pipeline are corrected and if not corrected then what action will be taken | JP STRUCTURE PRIVATE LIMITED. | |
| | a. On behalf of the Applicant | Ukani Hareshbhai Ravjibhai | |
| | b. On behalf of NHAI | | |
| 11. | Who will pay the claims for damages done/disruption in working of concessionaire if asked by the Concessionaire? | JP STRUCTURE PRIVATE LIMITED. | |
| | On behalf of the Applicant | Ukani Hareshbhai Ravjibhai | |
| 12. | A certificate from PD that he will enter the proposed permission in the register of records of the permissions in the prescribed Performa (copy enclosed) | | |
| 13. | If any previous approval is accorded for laying of underground cable pipeline then photocopy of register of records of permissions accorded as maintained by PD then (copy is enclosed) | NO | |
| 14. | Name of Highway Authority of NHAI/PWD/BRO | NHAI | |
| 15. | Highways Administration address | E-2/167, ARERA COLONY, BHOPAL | |



प्रबंधक (तकनीकी)
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Verified by

Project Director

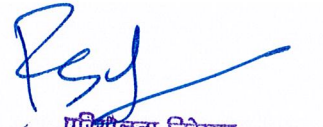
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NHAI PIU- BHOPAL

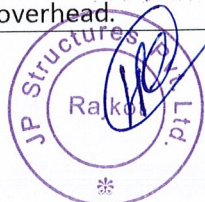



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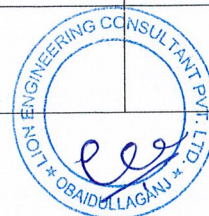
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परिचालना निदेशक
Project Director
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NHAI PIU-Bhopal (M.P.)

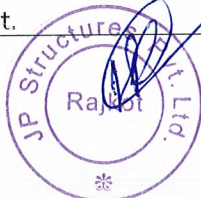
| S.No. | Item | Measurement observation as per site condition | MoRT&H Norms | Weather complying with MoRT&H Norms (Y/N) |
|--------|---|--|--------------|---|
| 1. | Details of already laid services, if any, along the proposed route | NA (GAIL GAS PIPE Line crossing from ch. 27+605) | | |
| 2. | Whether up-gradation of the stretch in near future is proposed or not | NA | | |
| | a. If yes, provision of utility adversely affect the plan of up-gradation | NA | | |
| 3. | Laying of the utility service along the National Highways | | | |
| 3.1. | Location of the proposed utility service along the stretch | AT 27.595 RHS | | |
| 3.2. | Depth of top of Utility service from ground level | 2M | | |
| 3.3. | Mechanism for crossing water channel | NA | | |
| 3.4. | Whether ROW is restricted in this stretch? | NO | | |
| 3.4.1. | If yes, provision of land acquisition is required to lay utility | NA | | |
| | a. If yes, whether undertaking for land acquisition along will relevant L.A Details has been furnished. | NA | | |
| 3.4.2 | Width of concrete duct, if utility services are proposed to be laid in concrete ducts. | NA | | |
| 4 | Laying Utility Service across To N.H | | | |
| 4.1 | Whether Existing drainage structures is allowed to carry the utility lines. | NO | | |
| 4.2 | Proposed crossing of utility service. | | | |
| 4.3 | Type of casing pipe/conduilt carrying the utility line. | HDD METHOD (CASING Pipe) | | |
| 4.4 | Whether ends of the casing/ conduilt pipe are sealed from the outside. | yes | | |
| 4.5 | Length of casing/conduilt pipe crossing N.H | 64MX2 | | |
| 4.6 | Depth of casing/conduilt pipe. | 2m | | |
| 4.7 | Crossing method in case of CC pavement. | HDD method | | |
| 4.8 | Horizontal and Vertical clearances in case utilities are allowed overhead. | NA | | |



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NHAI PIU-BHOPAL



| 5 | Document/ Drawing enclosed with the proposal | | | |
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| 5.1 | Cross-section showing the size of trench for open trenching method | | | |
| | a. Trench width | NA | | |
| | b. Filling of Trench | NA | | |
| | c. Location of trench | NA | | |
| 5.2 | Cross-section showing the size of pit and Location of conduit for HDD Method | Drawing Enclosed | | |
| 5.3 | Strip plan/ Route plan showing utility line, chainage, width of ROW, distance of proposed utility from the edge of the ROW, important mile stone, intersections, cross drainage works etc. | Drawing Enclosed | | |
| 5.4 | Plan and profile drawing of stretch showing cross- section of road at 20 m distance along with ROW and Proposed Utility. | Drawing Enclosed | | |
| 6. | Methodology for laying of utility line | HDD METHOD | | |
| 7. | Draft license Agreement is as per Ministry guidelines vide letter No. -RW /NW----- Dated.....and signed by two witnesses. | YES | | |
| 8. | License fees in favor of MoRT&H | | | |
| 9. | Whether Bank Guarantee has been obtained. | TO BE SUMITTED AS AND WHEN INFORMED BY NHAI | | |
| | a. If yes, whether confirmation of BG has been obtained as per MoRT&H/NHAI Guidelines. | TO BE SUMITTED AS AND WHEN INFORMED BY NHAI | | |
| 10. | Affidavit/Undertaking from the Applicant for the following is to be furnished | | | |
| 10.1 | Undertaking for not to Damage to other existing utility, if damaged then to pay the losses either to NHAI or to the concerned agency. | YES | | |
| 10.2 | Undertaking for Renewal of BG and when asked by NHAI/ MoRT&H. | YES | | |
| 10.3 | undertaking for confirming all standard condition of MoRT&H/ NHAI guidelines. | YES | | |
| 10.4 | Undertaking for shifting of utility as and when asked by MoRT&H/ NHAI within a month at their own cost. | YES | | |



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| 10.5 | Undertaking for indemnity against all damages and claim. | YES | | |
| 10.6 | Undertaking for management of traffic movement during laying of utility line without hampering the traffic. | YES | | |
| 10.7 | Undertaking if any claim is raised by the Concessionaire/ contractor then the same has to be paid by the applicant. | YES | | |
| 10.8 | Undertaking that the applicant has obtained various safety clearances from the representative authorities such as directorate of electricity before applying to Highway Administration. | YES | | |

Available of Right of the Way (ROW)

1. The Right of the Way (ROW) of NH-46 (Itarsi -Bhopal) at KM 27.595 RHS available at the location from the Center line of divided carriageway is 30M at LHS and 30M RHS Towards Chainage of NH (From center to ROW to edge of ROW towards Proposed utility)

The above particulars along with drawing and documents have verified and certified as correct as per prevailing site condition

Verified by



Project Director

NHAI PIU Bhopal (M.P)



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