



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय)

National Highways Authority of India
(Ministry of Road Transport & Highways)

क्षेत्रीय कार्यालय, ओडिशा / Regional Office, Odisha

301 - ए, तीसरी मंजिल, पाल हाईट्स, प्लॉट नं जे/7, जयदेव विहार
भुवनेश्वर - 751013, ओडिशा

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NHAI/13011/54/RO/OD/ 2710 /2021

06.10.2021

To

The Sr. Technical Director,
NIC Centre at MoRTH,
Transport Bhawan,
New Delhi 110001

Sub: Rehabilitation & Up gradation of Cuttack- Angul section of NH-42 (New NH-55) to 4-lane in the State of Odisha under NHDP-III on EPC Mode Package-II- Crossing of 600 mm dia slurry pipeline with OFC duct through 1000 mm dia casing pipe from RHS to LHS of NH-55 at chainage 77.975 from proposed MTPA iron ore beneficiation plant located at Vil- Bhanjapalli and Teherei to Dhenkanal Steel Plant of M/s Rungta Mines Ltd.-Reg

Sir,

Please find enclosed herewith a proposal of M/s GAIL (India) Limited for laying of 24" dia natural gas pipeline along with OFC by standard HDD method using bundle for carrier pipe and OFC across NH-55 at Km.89.116 in village Nuahat, Dist- Angul. The details are as under:

| Sl. No. | Chainage | Side | Length (m) | Remarks |
|---------|----------|----------|------------|---|
| 1. | 89+116 | Crossing | 60 | Crossing of (24") 600 mm dia gas pipeline along with OFC Duct of 6" dia by HDD method |

2. Accordingly, as per guidelines issued by MoRTH vide F. No. RW/NH-33044/29/2015/S&R(R) dt. 22.11.2016, the application along with the recommendations of concerned PD/Consultants are enclosed herewith, with request to hoist the same in the Ministry's Website for public comments within 30 days of uploading on the website.

This is issued with the approval of the "Regional Officer, NHAI, Regional Office, Odisha, Bhubaneswa.

Yours faithfully,

(D.K. Patra)

Manager (Tech)



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(सड़क परिवहन और राजमार्ग मंत्रालय)

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NHAI/13011/54/RO/OD/ 2709 /2021

06.10.2021

INVITATION OF PUBLIC COMMENTS

Sub: Rehabilitation & Up gradation of Cuttack- Angul section of NH-42 (New NH-55) to 4-lane in the State of Odisha under NHDP-III on EPC Mode Package-II- Crossing of 600 mm dia slurry pipeline with OFC duct through 1000 mm dia casing pipe from RHS to LHS of NH-55 at chainage 77.975 from proposed MTPA iron ore beneficiation plant located at Vil- Bhanjapalli and Teherei to Dhenkanal Steel Plant of M/s Rungta Mines Ltd- Reg

M/s GAIL (India) Limited has submitted a proposal for laying of 24" dia natural gas pipeline along with OFC by standard HDD method using bundle for carrier pipe and OFC across NH-55 at Km.89.116 in village Nuahat, Dist- Angul. The details are as under:

| Sl. No. | Chainage | Side | Length (m) | Remarks |
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2. As per guidelines issued by MoRTH vide F. No. RW/NH-33044/29/2015/S&R(R) dated 22.11.2016; the Highway Administration will put out the application in the public domain for 30 days for seeking claims and objections (on grounds of public inconvenience, safety and general public interest).

3. In view of the above, the comments of public, if any, on the above mentioned proposal is invited on below mentioned address:

The Regional Officer,
National Highways Authority of India,
Regional Office, Odisha
301-A, 3rd Floor, Pal Heights,
J/7, Jayadev Vihar, Bhubaneswar 751013, Odisha
e-mail : roodisha@nhai.org

This is issued with the approval of the "Regional Officer, NHAI, Regional Office, Odisha, Bhubaneswar".


Manager (Tech)
National Highways Authority of India,
Regional Office, Odisha
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J/7, Jayadev Vihar, Bhubaneswar 751013

Check - List

Guidelines for Project Directors for processing the proposal for laying of Gas Pipe Line in the land along with NHA

Relevant Circulars of ministry of Road Transport and Highway

(1) Circular RW/NH-33044/29/2015/S&R (R) Dated 22.11.2016

Check list for getting approval for laying of Gas Pipe Lines on NH land (To be filled by the PIU)

The Permission for laying of Gas Pipe Line shall be considered for approval/ rejection based on the Ministry Circulars mentioned as above.

(a) carrying of sewage / gas pipelines on highway Bridges shall not be permitted as Furmes/ Gases pipes can accelerate the process of corrosion or may cause explosions.thus,being much more

(b) Services are not being allowed indiscriminately on the papapet / any part of the bridges, Safety of the bridges has to be kept in view while permitting various services along bridge.

| Sr. No. | Item | Information /Status | Remarks |
|---------|--|--|----------|
| 1 | General Information | | |
| 1.1 | Name and Address of the Applicant / Agency | GAIL(INDIA)Limited-Jubilee Tower, B-35 & 36, Sector-1, Gautam budh Nagar (UP) Noida-201301 | |
| 1.2 | National Highway Number | NH-55 | |
| 1.3 | State | Odisha | |
| 1.4 | Location | In Nuahata Village in Angul District | |
| 1.5 | (Chainage in km) | 89.116 KM | |
| 1.6 | Length in Meters | 60.0M | Crossing |
| 1.7 | Width of available ROW | | |
| | (a) Left side from center line towards increasing chainage /km direction | 30.0M | Crossing |
| | (b) Right side from center line towards increasing chainage / km direction | 30.0M | Crossing |
| 1.8 | Proposal to lay underground Gas Pipeline/Electrical Cable. | NA | |
| | (a) Left side from center line towards increasing chainage / Km direction | NA | |
| | (b) Right side from center line towards increasing chainage / Km direction | NA | |
| 1.9 | Proposal to acquire Land | | |
| | (a) Left side from center line | NA | |
| | (b) Right side from center line | | |
| 1.10 | Whether proposal is in the same side where land is not to be acquired | NA | |
| | If not then where to lay the Pipeline/cable | NA | |


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 Project Implementation Unit, Dhenkanal
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 National Highways Authority of India


RE (AE)

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| 1.11 | Details of already laid services, if any, along the proposed route | NA | |
| 1.12 | Number of lanes (2/4/6/8 lanes) existing | 4 Lanes | |
| 1.13 | Proposed Number of lanes (4 lane with paved shoulders / 4 /6/8 lanes) | 4 Lanes | |
| 1.14 | Service Road existing or not If yes then which side | Not exist | |
| | (a) Left side from center line | | |
| | (b) Right side from center line | | |
| | Proposed Service Road | | |
| 1.15 | (a) Left side from center line | Not exist | |
| | (b) Right side from center line | | |
| 1.16 | Whether proposal to lay Gas Pipeline is after the service road or between the service road and main carriageway | No | |
| 1.17 | Whether carrying of sewage/gas pipeline has been Proposed on Highway bridges if yes, then mention the methodology proposed for the Same. | No | |
| 1.18 | Whether carrying of sewage/gas pipeline has been Proposed on the parapet / any part of the bridges. If yes, then mention the methodology proposed for the same. | No | |
| 1.18 | If crossing of the road involved | | |
| | If yes it shall either encased in pipes or through structure or conduits specially built for that purpose at the expenses of the agency owning the line | Crossing will be done by Standard HDD Method using bundle for carrier pipe and OFC | |
| | (a) Whether existing drainage structures are allowed to carry sewage/gas pipeline | NA | |
| | (b) Is it on a line normal to NH | NA | |
| | (c) What is the distance of crossing the sewage / gas pipeline from the existing structures? Crossings shall not be too near the existing structures on the National Highway, the minimum distance being 15 meter. | NO | |
| | (d) The casing pipe (or conduit pipe in the case of electric/OFC Cable) carrying the utility line shall be of steel, cast iron, or reinforced cement concrete and have adequate strenght and be large enough to permit ready withdeawal of the carrier pipe/cable. Mention type of casing. | Steel | |
| | (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 drain to 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 0.3m below the drain inverts. Mention the proposed details. | 2.0 Mtr below the lowest ground level. | |
| | (h) Mention the methodology proposed for crossing of road for the proposed Sewage/gas pipe line, Crossing shall be by broing method(HDD) [Trench less Technology] specially, where the existing road pavement is of cement concrete or dense bituminous concrete type. | Crossing will be done by Standard HDD Method using bundle for carrier pipe and OFC | |

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RE (AE)

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| | (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 waterway along it. | Yes | |
| 2 | Document / Drawings to be enclosed with the proposal | | |
| 2.1 | Cross section showing the size of trench for open trenching method (Is it normal size of 1.2 meter deep X 1.0 meter wide) (i) Should not be greater than 60 cm wider than the outer diameter of the pipe (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 (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 (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. | NA | |
| 2.2 | Cross section showing the size of pit and location of Pipeline/cable for Case crossing/HDD method | Yes | |
| 2.3 | Strip plan / Route plan showing Gas pipeline, Chainage, Width of RoW, distance of proposed Gas Pipeline with OFC from the edge of RoW, Important mile stone, intersections, cross drainage works etc. | Incorporated in the Drawing | |
| 2.4 | Methodology for laying of showing Gas pipeline. | | |
| 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 refining trench. | Crossing will be done by Standard HDD Method using bundle for carrier pipe and OFC | |
| | (a) The trench width should be at least 30 cm, but not more than 60 cm 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 cm. 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 stages (i) side - fill to the level of the top of 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 Proctor'S Density. Overfill shall be compacted to the same density as the material that had been removed. Consolidation by saturation or pending will not be Permitted. | NA | |


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 National Highways Authority of India

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| | (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 expense of agency owning the utility line. | NA | |
| 2.4.2 | Horizontal Directional Drilling(HDD) Method | Yes | |
| 2.4.3 | Methodology for Laying of Gas pipeline through CD works and method of laying. In cases where the carrying of Gas pipeline on the bridge becomes inescapable. | Yes | |
| 3 | Draft License Agreement signed by two witnesses | Yes | |
| 4 | Performance Bank Guarantee in favour 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 Gas Pipeline with OFC / ducts by proper filling and compaction, clearing debris / loose earth produced due to execution of trenching at least 50 meter away from the edge of the right of way. No payment shall be payable by the NHAI to the licensee for clearing debris / loose earth. Performance BG as per above is to be obtained. | Performance Bank Gurantee in favour of NHAI @Rs.1,00,000/-for Crossing NH-55 for a Period of one year intially (extendable if required till satisfactory completion of work) | |
| 4.1 | Confirmation of BG has been obtained or not as per NHAI gudelines. | | |
| 5 | Affidavit / Undertaking from the Applicant for the following is to be furnished | | |
| 5.1 | Not to Damage to other utility, if damaged then to 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 guideline | Yes | |
| 5.4 | For Shifting of Gas pipeline as and when required by NHAI at their own cost. | Yes | |
| 5.5 | For Shifting Gas pipeline due to 4/6 lanning / widening of NH | Yes | |
| 5.6 | For Indemnity against all damages and claims claims | Yes | |
| 5.7 | For traffic movement during laying of Gas pipeline to be managed by the Applicant. | Yes | |
| 5.8 | If any claim is raised by the Concessionaire then the same has to be paid by the applicant. | Yes | |

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RE (AE)

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| 5.9 | Prior approval of the NHAI shall be obtained before undertaking any work of installation, shifting or repairs, or alterations to the Gas pipe 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 Gas pipe line will be borne by the applicant agency owning the line. | Yes | |
| 5.11 | If the NHAI considers it necessary in future to move 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 Gas pipeline will not have any deleterious effects on any of the bridge components and Roadway safety for traffic (ii) "We do undertake that I will relocate service road / approach road / utilities at my own cost not with standing the permission granted withing such time as will be stipulated by NHAI" for future 4/6 lanning or any other development. | Yes | |
| 6 | Who will sign the agreement on behalf of Gas pipeline agency | Deputy General Manager on behalf of Gail (India) Limited | |
| 6.1 | Power of Attorney to sign the agreement is available or not | Yes | |
| 7 | The Project Director/Excutive Engineers, will submit the following Certificates | | |
| 7.1 | Certificate for proposal for confirming of all standard condition issued vide Ministry of Road Transport and Highway Circular No.-NH-III/P/66/76 dated 18/19.11.1976, RW/NH-III/P/66/76 dated 11.5.1982, (ii) RW/NH-11037/1/86/DOI dated 28.7.1993. (iii) RW/NH-11037/1/86/DOI dated 19.1.1995 (iv) RW/NH-34066/2/95/ S&R dated 25.10.1999 and (v) RW/NH-34066/7/2003 S&R (B) dated 17.9.2003 | | |
| 7.2 | Certificate from PD in the following format (i) "it is certified that any other location of the Gas pipeline would be extremely difficult and unreasonable costly and the installation of Gas pipe 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". | | |
| | (ii) for 6- lanning (a) Where feasibility is available "I do certify that there will be no hindrance to proposed six laning based on the feasibility report considering proposed structures 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 six laning". | | |


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