



# 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 हाइट्स, प्लॉट नं जे/7, जयदेव विहार  
भुवनेश्वर - 751013, ओडिशा

301-A, 3rd Floor, Pal Heights, Plot No : J/7, Jayadev Vihar  
Bhubaneswar- 751013, Odisha

दूरभाष/Tel. : +91-674-2361570/670

फैक्स/Fax : +91-674-2361770

ई-मेल /e-mail : roodisha@nhai.org  
ronhaiodisha@gmail.com

वेबसाइट/Website : http://www.nhai.org

NHAI/13011/54//RO/OD/ 417 /2021

10.02.2021

To

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

**Sub:** Rehabilitation and up-gradation to Four Lining of NH-23 (New NH No. 143) from Km.240.250 i.e Brahmani bypass and beside BNR Weigh Bridge to Km 287.200 i.e Rajamunda section in the State of Odisha under NHDP Package- 1(B) – **Permission for Laying of 8" dia. Gas Pipeline and 40mm dia. OFC (Optical Fiber Cable) along with NH-23 (New NH-143) at the location from Road ch Km.242.866 to Road ch Km.245.140 and across at the location Road ch Km.242.866 & Road ch Km.245.140- Reg**

Sir,

Please find enclosed herewith a proposal of GAIL (India) Ltd for laying of 8" dia. Jagdishpur-Haldia-Bokaro-Dhamra Spur Gas Pipeline to Rourkela Steel Plant & 40mm HDPE Duct for OFC Cable along with NH-23 (New NH-143) at the location from Road ch. Km 242+866 to Road ch Km.245+140 (RHS). The details are as under:

Sl. No.	Chainage		Side	Length (m)	Width of Corridor (mm)	Remarks
	From	To				
1	242+866		Across	60	800	Crossing with Casing pipe of dia 350mm + 150 mm OFC
2	242+866	245+140	RHS	2274	650	8" Gas Pipeline+ 150 mm Pipeline for OFC cable
3	245+140		Across	60	800	Crossing with Casing pipe of dia 350mm+ 150 mm OFC

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.

Yours faithfully,

*[Signature]*  
10.02.2021

(Dr. Ram Prasad Panda)  
CGM (Tech) & RO- Odisha



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भारतमाला  
जहाँ के सपने सँ जागर

BHARATMALA  
ROAD TO PROSPERITY

NHAI/13011/54//RO/OD/ 416 /2021

10.02.2021

## INVITATION OF PUBLIC COMMENTS

**Sub:** Rehabilitation and up-gradation to Four Laning of NH-23 (New NH No. 143) from Km.240.250 i.e Brahmani bypass and beside BNR Weigh Bridge to Km 287.200 i.e Rajamunda section in the State of Odisha under NHDP Package- 1(B) – Permission for Laying of 8" dia. Gas Pipeline and 40mm dia. OFC (Optical Fiber Cable) along with NH-23 (New NH-143) at the location from Road ch Km.242.866 to Road ch Km.245.140 and across at the location Road ch Km.242.866 & Road ch Km.245.140-Reg

GAIL (India) Ltd has submitted a proposal for laying of 8" dia. Jagdishpur-Haldia-Bokaro-Dhamra Spur Gas Pipeline to Rourkela Steel Plant & 40mm HDPE Duct for OFC Cable along with NH-23 (New NH-143) at the location from Road ch. Km 242+866 to Road ch Km.245+140 (RHS). The details are as under:

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3	245+140		Across	60	800	Crossing with Casing pipe of dia 350mm+ 150 mm OFC

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

Chief General Manager (Tech) & RO  
National Highways Authority of India,  
Regional Office, Odisha  
301-A, 3rd Floor, Pal Heights,  
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 across with NHAI

### Relevant Circulars

- 1) Ministry Circular No. NH-41 (58)68 dated 31.01.1969
- 2) Ministry Circular No. NH-III/P/66/76 dated 18/19.11.19776
- 3) Ministry Circular No. RW/NH-III/P/66/76 dated 11.5.1982
- 4) Ministry Circular No. RW/NH-11037/1/86-DOI (ii) dated 28.7.1993
- 5) Ministry Circular No. RW/NH-11037/1/86/DOI dated 19.1.1995
- 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 17.9.2003
- 8) Ministry 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

Sr. No.	Item	Information /Status	Remarks
1	General Information	GAIL (India) Limited intends to lay 8" Jagdishpur-Haldia-Bokaro-Dhamra Gas Spur line passing through UP,Bihar,Jharkhand,West Bengal and Odisha.The proposed Pipeline will across NH-143 ROW 60M at Location Road Chainage-242866.0 & Ch.-245140.0 m under your jurisdiction .The Pipeline at this crossing will be laid at a minimum depth of 1.2 mtr,below the Natural ground label by Boaring Method ,along with 40mm dia MS conduit Pipe OFC	
1.1	Name and Address of the Applicant / Agency	Chief Manager (Construction) GAIL India Limited, Jagdishpur-Haldia-Bokaro-Dhamra Gas Pipeline Project office 612, Utkal Signature,Pahala NH-5,Bhubaneswar 752101 Phone 06742972116.	
1.2	National Highway Number	NH-143	
1.3	State	Odisha	
1.4	Location	In Tarkera Village in Sundargarh District.	
1.5	(Chainage in km)	1. Across NH-143 @ Road ch-242866.0 m 2. Across NH-143 @Road ch-245140.0 m	
1.6	Length in Meters	1. ROW 60 M at Road Ch.-242866.0 m 2. ROW 60 M at Road Ch-245140.0 m	Across the Road ROU
1.7	Width of available ROW	60 Mtr.	
	(a) Left side from center line towards increasing chainage /km direction	30 Mtr.	
	(b) Right side from center line towards increasing chainage / km direction	30 Mtr.	
1.8	Proposal to lay underground Gas Pipeline/Electrical Cable.	8"Gas Pipeline with 40mm OFC will be laid along NH-143 at location	
	(a) Left side from center line towards increasing chainage / Km direction	Within RoW	
	(b) Right side from center line towards increasing chainage / Km direction	Within RoW	
1.9	Proposal to acquire Land	Not Applicable	
	(a) Left side from center line		
	(b) Right side from center line		
1.10	Whether proposal is in the same side where land is not to be acquired		

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Team Leader

Theme Engineering Services Pvt. Ltd.

	If not then where to lay the Pipeline/cable	Within RoW	
1.11	Details of already laid services, if any, along the proposed route		
1.12	Number of lanes (2/4/6/8 lanes) existing	4 Lane	
1.13	Proposed Number of lanes (4 lane with paved shoulders / 4 /6/8 lanes)	4 Lane with paved shoulder	
1.14	Service Road existing or not If yes then which side	No	
	(a) Left side from center line		
	(b) Right side from center line		
1.15	Proposed Service Road	NA	
	(a) Left side from center line		
	(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	NA	
1.17	The permission for laying of Gas pipeline shall be considered for approval/ rejection based on the Ministry Circulars mentioned as above	Yes , Agreed	
1.18	Whether carrying of sewage/gas pipeline has been Proposed on the parapet / part of the bridges. If yes, then mention the methodology proposed for the Same.	No	Pipeline to be laid across NH.
1.19	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	Yes	Cased crossing method used for crossing location.
	(a) Whether existing drainage structures are allowed to carry sewage/gas pipeline	No	
	(b) Is it on a line normal to NH	Yes	
	(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.	Yes	No existing structure coming in this section.
	(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 strenght and be large enough to permit ready withdeawal of the carrier pipe/cable. Mention type of casing.	Yes	

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	(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 0.3 below the drain inverts. Mention the proposed details.	Yes	
	(h) Mention the methodology proposed for crossing of road for the proposed Sewage/gas pipe line, Crossing shall be by broing method [Trenchless Technology] specially, where the existing road pavement is of cement concrete or dense bituminous concrete type.	Yes	Cased crossing method used for crossing location.
	(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 enclosed with the proposal	Yes	
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 less 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 4 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.	Enclosed	
2.2	Cross section showing the size of pit and location of Pipeline/cable for Case crossing/HDD method	Enclosed	<p>परियोजना निदेशक</p> <p>PROJECT DIRECTOR</p> <p>भारतीय राष्ट्रीय राजमार्ग प्राधिकरण</p> <p>National Highways Authority's of India</p> <p>का.इ, राउरकेला/ PIU, Rourkela</p>

2.3	Strip plan / Route plan showing Gas pipeline, Chainage, Width of RoW, distance of proposed Pipeline from the edge of RoW, Important mile stone, intersections, cross drainage works etc.	Enclosed	
2.4	Methodology for laying of showing Gas pipeline.	Enclosed	
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.	Yes	Pipeline will be laid in utility corridor.
	(a) The trench width should be at least 30 cm, but not more than 60 cm wider than the outer diameter of the pipe.	Yes	
	(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.	Yes	
	(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.	Yes	
	(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.	Yes	
	(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.	Yes	
	(f) The excavation shall be protected by flagman, signs and barricades, and red lights during night hours.	Yes	
	(g) If required, a diversion shall be constructed at the expense of agency owning the utility line.	Yes	

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2.4.2	Method of laying Gas Pipeline	Cased crossing method for crossing.	
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.	N.A.	
3	Draft License Agreement signed by two witnesses	Yes	
4	Performance Bank Guarantee in favour of NH-PWD 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 cables / 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 NH-PWD to the licensee for clearing debris / loose earth.	Yes, Agreed.	
4.1	Confirmation of BG has been obtained or not as per NHAI guidelines.	To be confirm	
5	Affidavit / Undertaking from the Applicant for the following is to be furnished	Yes	
5.1	Not to Damage to other utility, if damaged then to pay the losses either to NH 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 NH guideline	Enclosed	
5.4	For Shifting of Gas pipeline as and when required by NHAI at their own cost.	Enclosed	
5.5	For Shifting Gas pipeline due to 4/6 lanning / widening of NH	Enclosed	
5.6	For Indemnity against all damages and claims clause (xxiv)	Enclosed	
5.7	For traffic movement during laying of Gas pipeline to be managed by the Applicant.	Enclosed	
5.8	If any claim is raised by the Concessionaire then the same has to be paid by the applicant.	Enclosed	

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5.9	Prior approval of the NH 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.	Enclosed	
5.10	Expenditure, if any, incurred by NH 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.	Enclosed	
5.11	If the NH 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 NH at the cost of the agency owning the utility line within a reasonable time (not exceeding 60 days) of the intimation given.	Noted	
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 notwithstanding the permission granted withing such time as will be stipulated by NH" for future 4/6 lanning or any other development.	Yes; Enclosed	
6	Who will sign the agreement on behalf of Gas pipeline agency	U.V.V.Satyanarayana Rao (Chief Manager )	
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		

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7.2	Certificate from XEN 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".		
8	If NH section proposed to be taken up by NHAI on BOT basis - a clause is to be inserted in the Agreement. "The permitted highway on which licensee has been granted the right of lay Gas pipeline/cable/duct has also been granted as a right of way to the concessionaire under the concession agreement for up-gradation of (from 0.0 Km to 5.0 Km and 16.50 Km to 44.75 Km) Section along NH-6 on Build, Operate and Transfer Basis and therefore, the licensee shall honor the same."	Yes	
9	Who will supervise the work of laying of Gas pipeline (a) On behalf of the Applicant (b) On behalf of NHAI	GAIL (India) Limited Person deputed by Project Director	
10	Who will ensure that the defects in road portion after laying of water / Gas supply pipeline are corrected and if not corrected then what action will be taken. (a) On behalf of the Applicant (b) On behalf of NH Division	GAIL (India) Limited Person deputed by Project Director	
11	Who will pay the claims for damages done / disruption in working of concessionaire if asked by the concessionaire On behalf of the Applicant	GAIL (India) Limited	


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12	A certificate from Project Director/Executive Engineer 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 water / Petroleum / Gas supply pipeline then Photocopy of register of records of permissions accorded as maintained by Project Director/Executive Engineer then copy be enclosed.	Not Applicable	



**Team Leader**  
**Theme Engineering Services Pvt. Ltd.**

GAIL (India) Limited

**U.V.V. Satyanarayana Rao**  
**Chief Manager (Const.)**

भारतीय गैस कार्पोरेशन लिमिटेड (U.V.V. Satyanarayana Rao)  
मुख्य प्रबंधक (निर्माण) Chief Manager (Const.)  
भेल (इंडिया) लिमिटेड, भेल, भुवनेश्वर-752 001  
812, उत्कल सिगनेचर, भुवनेश्वर-752 001  
812, Utkal Signature, Bhubaneswar-752 001  
भुवनेश्वर-752 001/ Bhubaneswar-752 001



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