



गेल (इंडिया) लिमिटेड

(भारत सरकार का उपक्रम - महारत्न कंपनी)

GAIL (India) Limited

(A Govt. of India Undertaking - A Maharatna Company)

"स्वान", दूसरी मंजिल,
323, कोडिगेहल्ली मेन रोड,
साहकार नगर,
बैंगलुरु - 560 092

"Swan", 2nd Floor,
323, Kodigehalli Main Road,
Sahakarnagar,
Bengaluru - 560 092

फोन/Phone : 080-46244111
फैक्स/Fax : 011-26185941

Ref: GAIL/KKBMPL-TN/NH/2018

Date:-24/04/2018

To,
The Project Director
National Highway Authority of India,
Door No. 259/1, Salem Main road, Near KAKC Petrol Bunk,
Krishnagiri-635001, PH:-04343-234250 & 236208

Sub:- Permission regarding laying GAIL's 8"Dia Natural Gas Pipeline & OFC cable along NH-44 between 33/130 Km to 36/050 Km coming under your jurisdiction.

Dear Sir

GAIL (India) Limited a Maharatna Company, under the aegis of Ministry of Petroleum & Natural Gas Govt. of India is engaged in gas supply to various fertilizer, Power, Steel, Petrochemical Plants and other utility purpose such as CNG, Domestic gas etc through its pipeline network, Presently GAIL is operating Natural Gas Pipeline of more than 14,000 Km in the country. Gail is contributing a major role in India's energy requirement & distribution through continual expansion of its pipeline network.

We are in the process of laying 8"dia Natural Gas Pipeline & OFC cable from Receiving Terminal at Singasandhra to Corborandum Universal Limited along NH-44 between 33/130 Km to 36/050 Km.

The proposed pipeline along with OFC Cable shall be laid along to NH-44 under your jurisdiction between 33/130 Km to 36/050 Km in Krishnagiri District. The Pipeline installed using Cased Crossing /HDD/ Open cut as per the details given in attached annexure.

Sir we would like to bring to your kind information that the above referred Pipeline Project is having Prime National importance and its time bound completion will contribute to overall prosperity of these regions of Krishnagiri. We therefore request your good office to kindly extend your co-operation and grant us necessary permission to lay GAIL (India) Limited Natural Gas Pipeline along and across NHAI as per attached annexure.

पंजीकृत कार्यालय:

गेल भवन, 16, आर. के. पुरम, भीकाएजी कामा प्लेस, नई दिल्ली - 110066, इंडिया

REGD. OFFICE :

सीआईएन/CIN

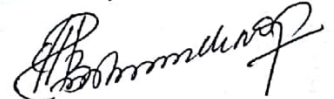
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As per the slandered practice the pipeline shall be laid below minimum 1.2 Mtr from the ground level by Cased Crossing/HDD/Open cut method .The pipeline work shall be carried out with applicable Engineering code and standards and with almost safety.

Kindly accord your consent for laying pipeline along the NHAI falling in your jurisdiction as per annexure list on priority basis as we are taking up this work shortly. For any further details you may contact us on - 9686073434.

Thanking You

Yours Sincerely



Jose Thomas

General Manager (Maintenance)

CHECK - LIST

Guidelines for Project Directors for processing the proposal for laying of Natural Gas Pipeline in the land along National Highways vested 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 18/19.11.1976
3. Ministry Circular No. RW/NH-III/P/66/76 dated 11.05.1982
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

Check list for getting approval for crossing of Natural Gas Pipeline on NH Land

Sl. No.	Item	Information/Status	Remarks
1	General Information		
1.1	Name and address of the Applicant/ Agency	GAIL (India) Limited 2nd Floor, above More Mega Store, Kodigehalli, Main Road, Sahakar Nagar, Byataravanapura, Benguluru, Karnataka 560092	
1.2	National Highway Number	NH- 44	
1.3	State	Tamilnadu	
1.4	Location	Along NH-44, Between 33/130Km to 36/050Km.L.H.S	
1.5	(Chainage in km)	Along NH-44, Between 33/130Km to 36/050Km.L.H.S	
1.6	Length in Meters	2920 Mt.	(Along NH)
1.7	Width of available ROW	From Km.33.130 to 34.00 = 43.75 Mtr From Km 34.00 to 35.00 =41.50Mtr From Km 35.00 to	

		36.00=38.40 Mtr	
	(a) Left side from center line towards increasing chainage/km direction		
	(b) Right side from centre line towards increasing chainage/km direction		
1.8	Proposed to lay underground Natural Gas Pipeline.		
	(a) Left side from center line towards increasing chainage/km direction	Nil	
	(b) Right side from center line towards increasing chainage/km direction	Nil	
1.9	Proposal to acquire land	Nil	
	(a) Left side from center line	Nil	
	(b) Right side from center line	Nil	
1.10	Whether proposal is in the same side where land is not to be acquired	Not Applicable	
	if not then where to lay the cable		
1.11	Details of already laid services, if any, along the proposed route	Nil	
1.12	Number of lanes (2/4/6/8 lanes) existing	6	
1.13	Proposed Number of lanes (2 lane with paved shoulders/4/6/8 lanes)	N A	
1.14	Service road existing or not	Yes	
	if yes then which side		
	(a) Left side from center line towards increasing chainage/km direction	Not Applicable	
	(b) Right side from center line	Not Applicable	
1.15	Proposed Service road	Not Applicable	
	(a) Left side from center line	Not Applicable	
	(b) Right side from center line	Not Applicable	



1.16	Whether proposal to lay Natural Gas Pipeline is after the service road or between the service road and main carriageway.	No	
	The permission for laying of Natural Gas Pipeline shall be considered for approval/rejection based on the Ministry Circulars mentioned as above.	Considered for approval based on Ministries Circular	
	(a) Carrying of sewage/gas pipelines on highway bridges shall not be permitted as Fumes/gases pipes can accelerate the process of corrosion or may cause explosions, thus being much more injurious than leakage of gas.	N A	
1.17	(b) Carrying of gas pipe lines on bridges shall also be discouraged. However if the gas supply authorities seem to have no other viable alternative and approach the highway authority well in time before the design of the bridge is finalized, they may be permitted to carry the pipeline on independent superstructure, supported on extended portions of piers and abutments in such a manner that in the final arrangement enough free space around the superstructure of the bridge remains available for inspection and repairs etc.	N A	
	(c) Cost of required extension of the substructure as well as that of the supporting superstructure shall be borne by the agency-in-charge of the utilities.	N A	
	(d) 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. Approvals are to be accorded in this regard with the concurrence of the Ministry's Project Chief Engineers only.	N A	
1.18	If crossings 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	N A	Along NH

	(a) Existing drainage structures shall not be allowed to carry the lines.	Yes	
	(b) Is it on a line normal to NH	Yes	
	(c) Crossings shall not be too near the existing structures on the National Highway, the minimum distance being 15 meter. What is the distance from the existing structures	Not Applicable.	Along NH
	(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 pipe/cable.	Yes	
	(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 drain in cuts and toe of slope 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 m below the drain inverts.	Yes	
	(h) Crossing shall be boring method (HDD) especially where the existing road pavement is of cement concrete or dense bituminous concrete type.	Yes	Along NH
	(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 1.60 m deep X 0.3 m wide) (a) Should not be greater than 60 Cm wider than the outer diameter of the pipe. (b) 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	Yes	Along NH



	(c) 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 (d) 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.	Yes	Along NH
2.2	Cross section showing the size of pit and location of cable for HDD method	Yes	
2.3	Strip plan/Route Plan showing Natural Gas Pipeline, Chainage, width of ROW, distance of proposed, cable from the edge of ROW, important mile stone, intersections, cross drainage works etc.	Yes	
2.4	Methodology for laying of showing Natural Gas Pipeline.	Yes (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, Methodology of refilling of trench)	Yes	
	(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 consist of granular material, free of lumps, clods, 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 addition of moisture to 95% of the proctor's density. Over fill shall be compacted to the same density as the	Yes	



	material that had been removed. Consolidation by saturation or pending will not permit. (e) The road crust shall be build 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.		
	(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	
2.4.2	Horizontal Directional Drilling (HDD) Method	Yes	
2.4.3	Laying of Natural Gas Pipeline through CD works and method of laying	No	
	(a) On approaches, the water mains/cables shall be carried along a line as close to the edge of the right-of-way as possible up to a distance of 30 m from the bridge and subject to all other stipulations contained in this Ministry's guidelines issued with letter No.NH1/P/66/76 dated 19.11.1976.	Yes	
3	Draft License agreement signed by two witnesses	Yes, enclosed with proposal	
4	Performance Bank Guarantee in favour of NHAI has to be obtained @ Rs.250/- 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 produce 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 licensee for clearing debris/loose earth.	Will be submitted on approval.	
4.1	Performance BG as per above is to be obtained.	Shall be submitted on approval.	
4.2	Confirmation of BG has been obtained as per NHAI guidelines	To be obtained at the time of execution of agreement.	
5	Affidavit/Undertaking from the Applicant for	Yes	



5.1	Not to Damage to other utility, if damaged then to pay the losses either to NHAI or to the concerned agency	Yes, enclosed with proposal	
5.2	Renewal of Bank Guarantee	-	
5.3	Confirming all standard condition of NHAI's guideline	Yes, enclosed with proposal	
5.4	Shifting of Natural Gas Pipeline as and when required by NHAI at their own cost	Yes, enclosed with proposal	
5.5	Shifting due to 8 lanning/widening of NH	Yes, enclosed with proposal	
5.6	Indemnity against all damages and claims clause(xxiv)	Yes, enclosed with proposal	
5.7	Traffic movement during laying of Natural Gas Pipeline to be managed by the applicant	Yes, enclosed with proposal	
5.8	If any claim is raised by the Concessionaire then the same has to be paid by the applicant.	Yes, enclosed with proposal	
5.9	Prior approval of the NHAI shall be obtained before undertaking any work of installation, shifting or repairs, or alterations to the showing Natural Gas Pipeline located in the National Highway right-of-ways.	Yes, enclosed with proposal	
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 Natural Gas Pipeline will be borne by the agency owning the line.	Yes, enclosed with proposal	
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, enclosed with proposal	



5.12	<p>Certificate from the applicant in the following format</p> <p>(i) laying of Natural Gas Pipeline will not have any deleterious effects on any of the bridge components and roadway safety for traffic.</p> <p>(ii) for 8-laning "We do undertake that I will relocate service road/approach road/utilities at my own cost notwithstanding the permission granted within such time as will be stipulated by "NHAI" for future 8-laning or any other development".</p>	Yes, enclosed with proposal	
6	Who will sign the agreement on behalf of Natural Gas Pipeline agency	Jose Thomas Dy. General Manager (Construction), GAIL (INDIA) Limited	
7	Certificate from the Project Director	--	
7.1	<p>Certificate for confirming of all standard condition issued vide Ministry Circular No. Ministry Circular No.NH-41(58)/68 dated 31.1.1969, Ministry Circular No.NH-III/P/66/76 dated 18/19.11.1976, Ministry Circular No.RW/NH-III/P/66/76 dated 11.5.1982, Ministry Circular No.RW/NH-11037/1/86-DOI(ii) dated 28.7.1993, Ministry Circular No. RW/NH-11037/1/86/DOI dated 19.1.1995, Ministry Circular No. RW/NH-34066/2/95/S&R dated 25.10.1999 and Ministry Circular No.RW/NH-34066/7/2003 S&R(B) dated 17.9.2003. Ministry Circular No. F. No. RW/NH- 33044/29/2015 S&R (R) dated 29.11.2015</p>	Yes	

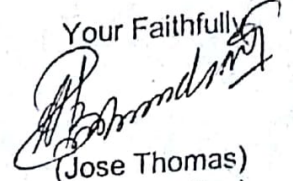


7.2	<p>Certificate from PD in the following format</p> <p>(i)"It is certified that any other location of the Natural Gas pipeline would be extremely difficult and unreasonable costly and the installation of Natural Gas Pipeline within ROW will not adversely affect the design, stability & traffic safety of the highway nor the likely future improvement such as widening of the carriageway, easing of curve etc".</p> <p>(ii) For 8 - lanning</p> <p>(a) Where feasibility is available "I do certify that there will be no hindrance to proposed 8-lanning based on the feasibility report considering proposed structures at the said location".</p> <p>(b) In case feasibility report is not available "I do certify that sufficient ROW is available at site for accommodating proposed 2-lane with the paved Shoulders".</p>	<p>Yes</p> <p>Pipeline along the NH. The proposed pipeline is perpendicular to NH. The pipeline cannot be laid without crossing NH, Railway, and River etc.</p> <p>Yes</p>	
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 permission to lay cable/duct has also been granted as right of way to the concessionaire under the concession agreement for up-gradation and therefore, the license shall honor the same".	Not Applicable	
9	Who will supervise the work of laying of Natural Gas Pipeline	Consultant and relevant field Officers of NHAI/ GAIL Engineers/ GAIL PMC	
10	Who will ensure that the defects in road portion after laying of Natural Gas Pipeline are corrected and if not corrected then what action will be taken.	BG will enchain. Claim amount will be determined according to the nature and seriousness of damages.	
11	Who will pay the claims for damages done/disruption in working of Concessionaire if asked by the Concessionaire?	The applicant should pay claims GAIL (INDIA) Limited	
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).	Yes	



13	If any previous approval is accorded for laying of underground Natural Gas Pipeline then Photocopy of register of records of permissions accorded as maintained by PD then copy be enclosed.	Yes Will be maintained	
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Your Faithfully



(Jose Thomas)
Dy. General Manager- (Construction)
GAIL (INDIA) Limited,

जोस थॉमस / Jose Thomas
महाप्रबंधक (आर.आई.एम.जी.) / General Manager (RIMG)
गेल (इंडिया) लिमिटेड / GAIL (India) Limited
बेंगलूरु / Bengaluru