



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन एवं राजमार्ग मंत्रालय, भारत सरकार)

National Highways Authority of India

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

क्षेत्रीय कार्यालय (उत्तराखण्ड) - मकान नं-58/37, बलबीर रोड, देहरादून- 248001

Regional Office (Uttarakhand) - House No.-58/37, Balbir Road, Dehradun- 248 001

Phone : 0135-2669752 & 62 E-mail : routtarakhand@nhai.org Website : www.nhai.gov.in



5063/NHAI/RO-UKD/2014/18530

February, 14, 2023

Invitation of Public Comments

Sub:- Proposal of M/s GAIL Gas Limited Seeking Permission/NOC for the laying work of 4" dia steel natural gas pipeline along the road from Km.207+150 (Dudhdhari Chowk) to Km.208+625(Tirupati Balaji Sham) on LHS of NH-58 (New NH-34) in a total length of 1475m by HDD method-reg.

The proposal regarding seeking permission by M/s GAIL Gas Limited for laying of a Public Utility "City Gas Distribution (CGD)" Steel Gas Pipeline of 4"NB along the highway Km.207+150 (Dudhdhari Chowk) to Km.208+625(Tirupati Balaji Sham) on LHS of NH-58 (New NH-34) in a total length of 1475m by HDD method in the State of Uttarakhand as submitted/recommended to this office by PD, PIU-Roorkee vide their letters no. NHAI/PIU-RRK/NH-58/11016/NOC/2021/6724 dt. 16.12.2022 & 6219 dt. 03.10.2022(Copy enclosed with checklist & drawings).

2. The proposed location for laying of 4" dia natural gas pipeline are tabulated hereunder:

Sl. No.	Chainage in Km.			NH	Length (in m)	Methodology of laying Pipeline in this stretch	Remarks
	From	To	Side				
1.	207+150	208+625	LHS	58	1475	HDD method (Depth-3-4m below Ground level & offset from ROW edge is 0.5m)	Along the NH

3. As per MORTH Guidelines no. RW/NH-33044/29/2015S&R(R) dated 22.11.2016, the Highway Administrator will make available the subject proposal for 30 days in the public domain for seeking public comments/objections (on the ground of public inconvenience, safety and general public interest).

In view of above, comments/objections of the public on the above proposal is invited to the below mentioned address, which should reach by this office within 30 days from the date of uploading beyond which no comments shall be entertained.

The Regional Officer,
Regional Office-Uttarakhand
National Highways Authority of India
(Ministry of Road, Transport & Highways)
House No.-58/37, Balbir Road, Dehradun-248001

Yours faithfully,

C.K. Sinha
14/02/2023

(C.K Sinha)

CGM (Tech.) cum RO-Uttarakhand

Encl: As above.

Copy to:

1) Web Admin-NHAI HQ, New Delhi:- with request for uploading on the NHAI website.

2) Senior Technical Director, NIC, Transport Bhawan, New Delhi:- with request for uploading on the Ministry's Website.

3) PD, PIU-Roorkee- for information & suitable necessary action.



सत्यमेव जयते

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन एवं राजमार्ग मंत्रालय, भारत सरकार)

National Highways Authority of India

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

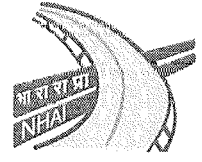
परियोजना कार्यान्वयन ईकाई-रूड़की,

Project Implementation Unit-Roorkee

मकान नं० 181, शास्त्री पुरम, निकट होटल गोदावरी, रूड़की-247667

House No. 181, Shashtri Puram, Near Hotel Godawari, Roorkee-247667

दूरभाष/Phone : 01332-357626, ई-मेल/E-mail: piuroorkee@nhai.org



NHAI/PIU-RRK/NH-58/11016/NOC/2021/ 6724

Dated: 16.12.2022

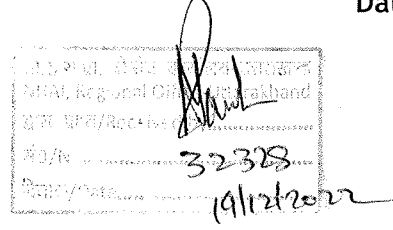
To,

Regional Officer

National Highways Authority of India

58/37, Balbir Road,

Dehradun - 248001



Sub: Proposal for laying of 4" dia. steel natural gas pipeline from Km. 207.150 (Dudhadhari Chowk) to Km. 208.625 (Tirupati Balaji Dham) on LHS of NH-58 (new NH-34) for total length of 1475 meters in Dehradun District in the state of Uttarakhand -reg.

- Ref:**
1. Online Application No. 20221107/1/12/17231/1630 (submitted on 09.11.2022)
 2. GAIL Gas Ltd. letter no. GAIL Gas/Ddun/NHAI/NOC-XI/2022 dt. 14.12.2022
 3. This office letter no. NHAI/PIU-RRK/NH-58/11016/NOC/2021/6329 dt. 21.10.2022
 4. RO-Uttarakhand email dated 12.10.2022 (18:12)
 5. This office letter no. NHAI/PIU-RRK/NH-58/11016/NOC/2021/6219 dt. 03.10.2022
 6. EPC Contractor's letter no. SEC/HDEF/NHM/NHAI/22/226 dt. 23.09.2022
 7. GAIL Gas Ltd. letter no. GAIL Gas/Ddun/NHAI/NOC-X/07/2022 dt. 12.07.2022
 8. This office letter no. NHAI/PIU-RRK/NH-58/11016/NOC/2021/5673 dt. 04.07.2022
 9. This office letter no. NHAI/PIU-RRK/NH-58/11016/NOC/2021/5671 dt. 04.07.2022
 10. Supervision Consultant letter no. LION/SQC0619/2022/NHAI-Mzf-Hdr/2001 dt. 20.06.2022
 11. This office letter no. NHAI/PIU-RRK/NH-58/11016/NOC/2021/5476 dt. 08.06.2022
 12. This office letter no. NHAI/PIU-RRK/NH-58/11016/NOC/2021/5443 dt. 06.06.2022
 13. GAIL Gas Ltd. letter no. GAIL Gas/Ddun/NHAI/NOC-X/2022 dt. 01.06.2022

Sir,

This is in reference to RO-Uttarakhand email dated 12.10.2022 vide which observations in respect to the subject proposal was conveyed to this office to submit clarifications.

In this regard, as per the submission of GAIL Gas Ltd. letter no. GAIL Gas/Ddun/NHAI/NOC-XI/2022 dt. 14.12.2022 pointwise clarifications/ comments are submitted as below: -

- (i) Revised license fee adopting the effective circle rates of Distt. Haridwar has been submitted.
- (ii) It is pertinent to mention that steel natural gas pipeline having 4" dia at a depth of 3-4m in utility corridor through HDD method in Km. 207.150 to Km. 208.625 (length-1475m) on LHS has been proposed by GAIL Gas Limited, whereas in the case/proposal of GAIL (India) Limited the gas pipeline was of 8" dia on RHS from Km.206+400 to Km.208+880. Further, to avoid any interference or damage to the underground utilities, a depth of around 3-4 mtr. below ground level has been proposed with HDD method.

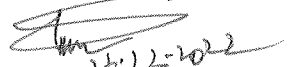
In addition, GAIL Gas Limited has submitted all requisite undertakings to ensure that no damages will be done during execution of laying of pipeline and to undertake all indemnity against all damages and claims.

- (iii) A copy of checklist along with the relevant documents has been furnished in a standard format. Copy of the same duly certified by the undersigned is attached herewith.
- (iv) Site Inspection Report along with comments on feasibility of the subject proposal with proposed methodology attached herewith.

- (v) It is to submit that in accordance with MoRT&H letter no. NOC enhancement/NIC/MoRTH/2022/1 dt. 13.05.2022 the subject proposal has been received online through MoRT&H portal "www.morthnoc.nic.in" on 09.11.2022 having Online Application No. 20221107/1/12/17231/1630. The same has been processed for Technical Approval on 16.12.2022.

Thanking you,

Yours faithfully,



(Pradeep Singh Gusain)

GM (T) cum Project Director
PIU-NHAI Roorkee

CHECK LIST

Guidelines for processing the proposal for laying Utility / Gas Line in the land along National Highway vested with NHAI/PWD/BRO

Relevant Circulars:

Ministry of Road Transport & Highways Guidelines vide Letter No. RW/NH- 33044/29/2001 S&R (R) dated 22-11-2016


Sr. No	Item	Information / Status	Remarks
1	General Information	Construction of Gas Pipeline in Dehradun	
1.1	Name and Address of the Applicant / Agency	Gail Gas Limited, Dehradun	
1.2	National Highway Number	NH-58 (New NH-34)	
1.3	State	Uttarkhand	
1.4	Location	Dudadhari Chowk to Tirupati Bala Ji Dham	
1.5	Chainage in KM	From 207.150 Km to 208.625 Km (LHS) Along the NH	
1.6	Length in Meters	1475mtrs	
1.7	Width of Available ROW		
	(a) Left side from center line towards increasing chainage / km direction	22.5mtrs	
	(b) Right side from center line toward increasing chainage/ km direction	22.5mtrs	
1.8	Proposal to lay underground Gas pipeline		
	(a) Left side from centreline towards increasing chainage/ Km direction	NA	
	b) Right side from center line toward increasing chainage/ km direction	NA	
1.9	Proposal to acquire land	NA	Land acquisition is not required as sufficient utility corridor is available.
	(a) Left side from centreline	NA	
	(b) Right side from centreline	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	

प्रवीन कुमार कटियार / Praveen Kumar Katiyar
प्रबंधक (तकनीक) / Manager (Tech)
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
National Highway Authority of India
पी.ओ.सी. - रुड़की / P.O. Roorkee

मिनाक्षी त्रिपाठी / Minakshi Tripathi
सहप्रबंधक (सी.जी.ओ.) / General Manager (CGO)
गैल गैस लिमिटेड / GAIL Gas Ltd.
देहरादून / Dehradun

प्रदीप सिंह / Pradeep Singh
परियोजना निदेशक / Project Director
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

Sr. No	Item	Information / Status	Remarks
1.11	Details of already laid services, if any along the proposed route.	OFC line, electrical lines etc.	
1.12	Number of existing lanes (2/4/6/8 lanes)	4	
1.13	Proposed Number of lanes (2 land with paved shoulders 4/6/6/8 lanes)	NA	
1.14	Service road existing or not	Yes	
	If yes then which side		
	(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	Whether carrying of sewage / gas pipeline has been proposed on highway bridges. Then mention the methodology proposed for the same	NA	
1.18	Whether carrying of sewage / gas pipeline has been proposed on the parapet / any part of bridges. If yes, then mention the methodology proposed for the same	NA	
1.19	If crossing of the road involved If yes, it shall be either encased in pipes or through structure on conduits specially built for that purpose at the expenses of the agency owning the line.	NA	
	(a) Whether existing drainage structures are allowed to carry the utility pipelines.	NA	
	(b) Is in on a line normal to NH	Yes	
	(c) What is the distance of crossing the utility pipelines from the existing structures. Crossing shall not be too near the existing structures on the National Highway, the minimum distance being 15 meter.	Minimum 15 meters away from the existing structures	
	(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.	4 inch Carbon Steel Pipeline	


 प्रवीण कुमार कटियार/Praveen Kumar Katiyar
 प्रबंधक (तकनीकी) / Manager (Tech)
 भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
 National Highway Authority of India
 पी.आई.यू.-रूड़की / PIU-Roorkee

प्रदीप सिंह गुप्ता/Pradeep Singh Gupta
 परियोजना निदेशक / Project Director
 भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

मिनाक्षी त्रिपाठी / Minakshi Tripathi
 जनरल मैनेजर (सी.पी.डी.) / General Manager (CPD)
 गैस गैस लिमिटेड / GAIL Gas Ltd.
 देहरादून / Dehradun

Sr. No	Item	Information / Status	Remarks
	Mention type of casing.		
	(e) Ends of the casing / conduit pipe shall be sealed from the outside, so that it does not act as a drainage path.	Noted	
	(f) The casing / conduit pipe should, as minimum extend from drain to drain in cuts and toe of slope toe of slope in fills	Noted	
	(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	Noted	
	(h) Mention the methodology proposed for crossing of road for proposed sewerage / Gas Pipeline. Crossing shall be by boring method (HDD) (Trenchless 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 waterway along it.	Noted	
2	Document / Drawings enclosed with the proposal		
2.1	Cross section showing the size of trench for open trenching method (is it normal size of 1.2m deep x 0.3m wide) (i) Should not be greater than 60cm 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 said 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 Gas Pipeline for HDD	Enclosed	

प्रदीप सिंह गुसाई/Pradeep Singh Guse
परियोजना निदेशक/Project Direct
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
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प्रवीण कुमार कटियार/Praveen Kumar Katiyar
प्रबंधक (तकनीकी)/Manager(Tech)
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
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गैस गैस लिमिटेड/GAIL Gas Ltd.
देहरादून/Dehradun

Sr. No	Item	Information / Status	Remarks
	method		
2.3	Strip plan / Route plan showing Gas Pipeline, Chainage, width of ROW. Distance of proposed, cable from edge of RoW, important mile stone, intersections, cross drainage works etc.	Enclosed	
2.4	Methodology for laying of sewage / Natural Gas Pipe line	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, Methodology of refilling of	NA	
	(a) The trench width should be at least 30cm, but not more than 60cm wider than the outer diameter of the Pipe.	Agreed	
	(b) For filling the trench, Bedding shall be to a depth of not less than 30cm. 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 excavated and replaced by selected material.	Agreed	
	(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.	Agreed	
	d) The side fill shall consist of granular material laid in 15cm 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 ponding will not be permitted	Agreed	
	(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.	Not Applicable	
	(f) The excavation shall be protected by flagman. Signs and barricades, and red lights during night hours.	Agreed	
	(g) If required, a diversion shall be constructed at the expenses of agency owning the utility line.	Agreed	
2.4.2	Horizontal Directional Drilling (HDD) Method	Yes	

प्रवीन कुमार कटियार / Praveen Kumar Katiyar
प्रबंधक (तकनीकी) / Manager (Tech)
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
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नेशनल गैस लिमिटेड / GAIL Gas Ltd.
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प्रदीप सिंह गुसाई / Pradeep Singh Gus
परियोजना निदेशक / Project Director
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
National Highway Authority of India
पी०आई०यू०-रूड़की / PIU-Roorkee

Sr. No	Item	Information / Status	Remarks
2.4.3	Methodology for laying pipeline through CD works and method of laying. In case of where the carrying of gas pipeline on the bridge becomes inescapable.	Not Applicable	
3	Draft License Agreement signed by two witnesses	Enclosed	
3.1	The license fee estimate as per Ministry's guidelines issues vide circular No. RW/NH-33044/29/2015/S&R(R) DATED 22.11.2016	M/s Gail Gas Limited, will Agree for the same as per the requirement of NHAI	
4	Whether performance Bank Guarantee as per Ministry's Circular no. RW/NH-33044/29/2015/S&R(R) dated 22.11.2016 is obtained.	Undertakin for submission of BG has been obtained from M/s Gail Gas Limited	
4.1	Confirmation of BG has been obtained or not as per MoRTH. NHAI guidelines	Confirmation of BG shall be obtained after BG submission by M/s Gail Gas Limited	
5	Affidavit / Undertaking from the applicant for the following is to be furnished:		
5.1	Undertaking for Not to Damage any other utility, if damaged then to pay the losses either to NHAI or to the concerned agency	Enclosed	
5.2	Undertaking for Renewal of Bank Guarantee as and when asked by MORTH / NHAI.	Enclosed	
5.3	Undertaking for Confirmation all standard condition of Ministry Circulars & NHAI's guideline	Enclosed	
5.4	Undertaking for indemnity against all damages and claims	Enclosed	
5.5	Undertaking for management of traffic movement during laying of utility line without hampering the traffic	Enclosed	
5.6	Undertaking that prior approval of the NHAI shall be obtained before undertaking any work of installation, shifting or repairs or alterations to the utility located in the National Highway right-of-ways.	Enclosed	
5.7	Undertaking that expenditure, if any, incurred by NHAI for repairing any damage caused to the National highway by the laying, Maintenance of shifting of the utility line will be borne by the applicant agency owing	Enclosed	प्रदीप सिंह गुसाई/Pradeep Singh Gusai परियोजना निदेशक / Project Director भारतीय राष्ट्रीय राजमार्ग प्राधिकरण National Highway Authority of India पी०आई०यू०-रूड़की / PIU-Roorkee
5.8	Undertaking that text of the text of the license deed is as per verbatim of MoRTH format (issued vide Ministry's Circular no. RW/NH-33044/29/2015/S&R(R) dated	Enclosed	

प्रवीन कुमार कटियार/Praveen Kumar Katiyar
प्रबंधक (तकनीकी) / Manager(Tech)
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
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देहरादून / Dehradun

Sr. No	Item	Information / Status	Remarks
	22/11/2016		
5.9	Undertaking that the applicant has obtained various safety clearances' from the respective 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	Enclosed	
5.10	If the MoRTH/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 of the intimation given.	Enclosed	
5.11	Certificate from the applicant in the following format (i) Laying of Gas Pipeline will not have any deleterious effect on any of the bridge components and roadway safety for traffic (ii) "We do undertake that I / we will relocate service road / approach road/ utilities at my own cost not withstanding the permission granted within such time as will be stipulated by NHAI for future six-lanning or another development	Enclosed	
6	Who sign the agreement on behalf of Gas Pipeline agency	Mr. Minaksh Tripathi General Manager, Projects GAIL GAS Limited Dehradun	
	Authorised person to sign the agreement on behalf of Gas pipeline agency	Copy enclosed	
7	Certificate from Project Director		
7.1	Certificate that the proposal is confirming to all standards conditions issued vide Ministry's Circular No: RW/NH-33044/29/2015/S&(R) Dated 22.11.2016	Enclosed	
7.2	Certificate from PD in the following format (Yes / No) (i) " It is certified that any other location of the Pipe line 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	Enclosed	

प्रदीप सिंह गुसाई/Pradeep Singh Gus
परियोजना निदेशक / Project Direct
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
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प्रवीन कुमार कटियार / Praveen Kumar Katiyar
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मिनाक्ष त्रिपाठी / Minaksh Tripathi
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गैल गैस लिमिटेड / GAIL Gas Ltd.
देहरादून / Dehradun

Sr. No	Item	Information / Status	Remarks
	improvement such as widening of the carriage way, 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 to lay Pipeline has also been granted as a right of way to the concessionaire under the concession agreement for upgradation of Kerala Section from Km..... to KM Of NH No. - man build, Operate and Transfer Basis] and therefore, the licenses shall honour the same."	Including in the agreement	
9	Who will supervise the work of laying gas supply pipeline		
	(a) On Behalf of Applicant	Mr. Minaksh Tripathi General Manager, Projects GAIL GAS Limited Dehradun	
	(b) on Behalf of MoRTH / NHAI	Project Director – NHAI, PIU,Vasanth Vihar	
10	Who will ensure that the defects in road portion after laying of gas supply pipe line are corrected and if not corrected then what action will be taken		
	(a) On Behalf of Applicant	Mr. Minaksh Tripathi General Manager, Projects GAIL GAS Limited Dehradun	
	(b) on Behalf of MoRTH / NHAI	Project Director – NHAI, PIU,Vasanth Vihar	
11	Who will pay the claims for damages done / disruption in working of Concessionaire if asked by the Concessionaire	GAIL GAS Limited Dehradun	प्रदीप सिंह गुसाई/Pradeep Singh Gusain परियोजना निदेशक / Project Director भारतीय राष्ट्रीय राजमार्ग प्राधिकरण National Highway Authority of India पी०आई०यू०-रूड़की / PIU-Roorkee
12	A Certificate from PD that he will enter the proposed permission in the register of records of the permission in the prescribed proforma (copy enclosed)		

प्रवीन कुमार कटियार/Praveen Kumar Katiyar
प्रबंधक (तकनीकी) / Manager(Tech)
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
National Highway Authority of India
पी०आई०यू०-रूड़की / PIU-Roorkee

मिनाक्ष त्रिपाठी / Minaksh Tripathi
सहायक (सी.जी.डी.) / General Manager (CGD)
गैल गैस लिमिटेड / GAIL Gas Ltd.
देहरादून / Dehradun

Sr. No	Item	Information / Status	Remarks
13	If any previous approval is accorded for laying of underground Gas Supply Pipeline	No previous approvals accord at the proposed location.	

Name & Designation: Signature of authorized Representative of applicant

M. K. Patil

मिनका त्रिपाठी / Minakshi Tripathi
प्रबंधक (तक0) / General Manager (C&D)
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
National Highway Authority of India
पी0आई0यू0-रूड़की / PIU-Roorkee
देहरादून / Dehradun

प्रवीन कुमार कटियार / Praveen Kumar Katiyar
प्रबंधक (तक0) / General Manager (C&D)
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
National Highway Authority of India
पी0आई0यू0-रूड़की / PIU-Roorkee

Katiyar

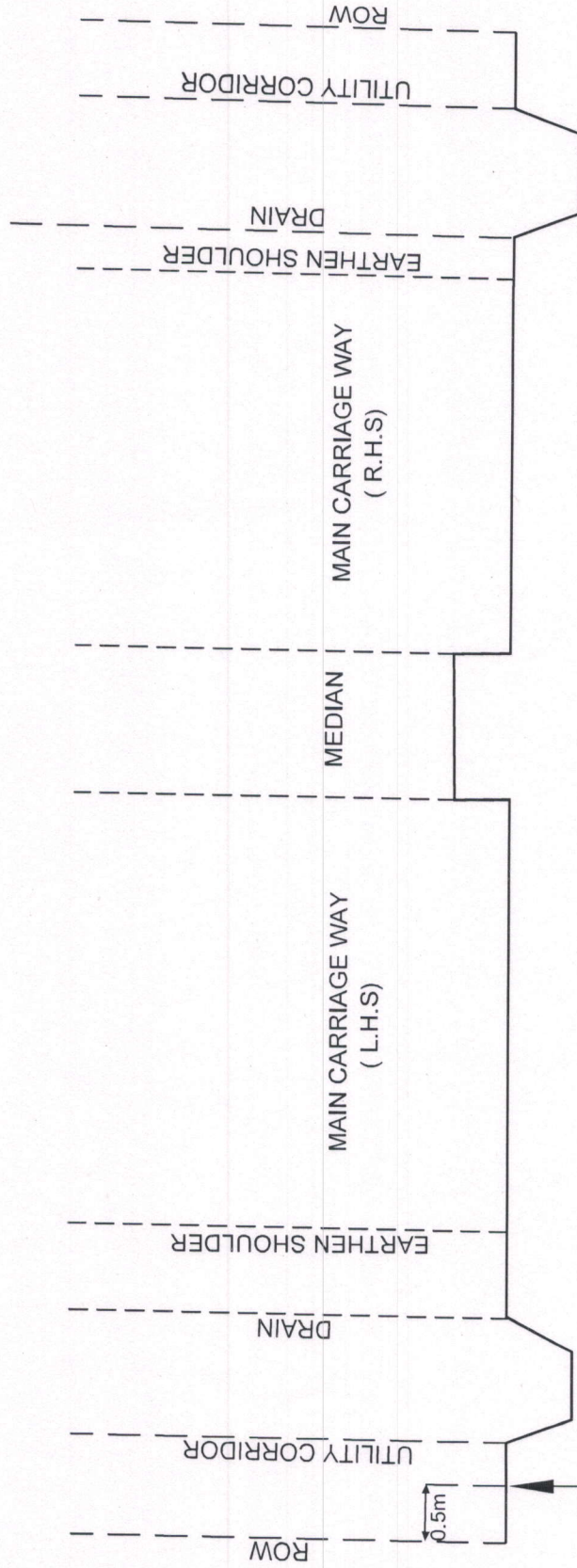
Name & Designation, Signature of Concerned field authority of NHAI / PWD / BRO

Pradeep Singh Gusain

प्रदीप सिंह गुसाई / Pradeep Singh Gusain
परियोजना निदेशक / Project Director
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
National Highway Authority of India
पी0आई0यू0-रूड़की / PIU-Roorkee

TYPICAL SECTION OF ROAD

PIPE LINE LAYING ALONG THE ROAD



3-4m



Other Utility



Proposed Gail Gas Pipeline 4Ø

Manish Goel

मनीष गोयल / MANISH GOEL

उप महाप्रबंधक(शहरी वितरण- परियोजना), देहरादून
Dy. General Manager (CGD-Project) Dehradun
गैल गैस लिमिटेड/ GAIL Gas Limited
सूट नं. 2022, दून एक्सप्रेस बिजनेस पार्क, देहरादून
Suit No. 2022, Doon Express Business Park, Dehradun



GAIL GAS LIMITED

DEHRADUN

CITY GAS DISTRIBUTION PROJECT
FOR DEHRADUN GA

PROJECT

TYPICAL AND CROSS SECTION OF ROAD
FOR LAYING OF GAS PIPELINE ALONG THE ROAD

TITLE

SCALE - NTS

The plan view shows the proposed sewerage line alignment from Ch: 207.150 to Ch: 208.625. The line is marked with manholes (PIT) and inspection points (CH). The alignment is shown as a dashed line with a centerline. The existing road is shown as a solid line. The proposed sewerage line is shown as a dashed line with a centerline. The alignment is shown with a 45 M offset from the existing road. The plan view also shows the location of the existing sewerage line (CH: 207.150 to CH: 207.250) and the proposed sewerage line (CH: 207.250 to CH: 208.625). The plan view includes a 'FLY OVER' structure crossing the proposed sewerage line. The plan view also shows the location of the existing sewerage line (CH: 207.150 to CH: 207.250) and the proposed sewerage line (CH: 207.250 to CH: 208.625). The plan view includes a 'FLY OVER' structure crossing the proposed sewerage line. The plan view also shows the location of the existing sewerage line (CH: 207.150 to CH: 207.250) and the proposed sewerage line (CH: 207.250 to CH: 208.625). The plan view includes a 'FLY OVER' structure crossing the proposed sewerage line.



Elevation	Pipeline Bed Level	Chaining
14752863	14752863	14752863
14507863	14507863	14507863
14452868	14452868	14452868
14002875	14002875	14002875
13752882	13752882	13752882
13502889	13502889	13502889
13252896	13252896	13252896
13002903	13002903	13002903
12752910	12752910	12752910
12502917	12502917	12502917
12252924	12252924	12252924
12002931	12002931	12002931
11752938	11752938	11752938
11502945	11502945	11502945
11252952	11252952	11252952
11002959	11002959	11002959
10752966	10752966	10752966
10502973	10502973	10502973
10252980	10252980	10252980
10002987	10002987	10002987
9752994	9752994	9752994
9502999	9502999	9502999
9253006	9253006	9253006
9003013	9003013	9003013
8753020	8753020	8753020
8503027	8503027	8503027
8253034	8253034	8253034
8003041	8003041	8003041
7753048	7753048	7753048
7503055	7503055	7503055
7253062	7253062	7253062
7003069	7003069	7003069
6753076	6753076	6753076
6503083	6503083	6503083
6253090	6253090	6253090
6003097	6003097	6003097
5753104	5753104	5753104
5503111	5503111	5503111
5253118	5253118	5253118
5003125	5003125	5003125
4753132	4753132	4753132
4503139	4503139	4503139
4253146	4253146	4253146
4003153	4003153	4003153
3753160	3753160	3753160
3503167	3503167	3503167
3253174	3253174	3253174
3003181	3003181	3003181
2753188	2753188	2753188
2503195	2503195	2503195
2253202	2253202	2253202
2003209	2003209	2003209
1753216	1753216	1753216
1503223	1503223	1503223
1253230	1253230	1253230
1003237	1003237	1003237
753244	753244	753244
503251	503251	503251
253258	253258	253258
0326	0326	0326

S.No	Description	Symbology
1	NIHAJ ROW	
2	Proposed Pipeline	
3	Drain	
4	Road Embankment with Center Line	
5	Fly-over	
6	Pit	

मनीष गोयल / MANISH GOEL
उप महाप्रबंधक(शहरी वितरण- परियोजना), देहरादून
Dy. General Manager (CGD-Project) Dehradun
गैल गैस लिमिटेड/ GAIL Gas Limited
सूट नं. 2022, दून एक्सप्रेस बिजनेस पार्क, देहरादून
Suit No. 2022, Doon Express Business Park, Dehradun

Client	 GAIL GAS LIMITED DEHRADUN
Project	CityGas Distribution Project for Dehradun GA
Survey Consultant	 INDIAN RESOURCES INFORMATION & MANAGEMENT TECHNOLOGIES LTD.
Title	Strip Route Plan & Profile from Dudadhari Chowk to Balaji Dham



ALIGNMENT OF ROUTE CH@ KM 207.150 TO CH@ 208.625



SCALE 1:1000



Manish G
मनीष गोयल / MANISH GOEL
 उप महाप्रबंधक(शहरी वितरण- परियोजना), देहरादून
 Dy. General Manager (CGD-Project) Dehradun
 गैल गैस लिमिटेड/ GAIL Gas Limited
 सूट नं. 2022, दून एक्सप्रेस बिजनेस पार्क, देहरादून
 Suit No. 2022, Doon Express Business Park, Dehradun

CLIENT	 GAIL GAS LIMITED DEHRADUN
CONSULTANT	 MECON LIMITED
PROJECT	CITY GAS DISTRIBUTION PROJECT FOR DEHRADUN GA
TITLE	SECTION DUDHACHARI CHOWK TO BALAJI DHAM ALIGNMENT SHEET FROM NHAI CH: 207.150KM TO CH: 208.625 KM

INDICATIVE UTILITY POSITIONS

