

# 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

50063/NHAI/RO-UKD/2014/17931

Oct, 04, 2022



### Invitation of Public Comments

Sub:- Proposal submitted by M/s GAIL (India) limited for Seeking Permission/NOC for revised/modified proposal of laying of 8"dia Haridwar-Rishikesh-Dehradun Gas Pipeline (HRDPL) at following locations by Open Trench Method:

(i) Nirmal Bagh to Hotel River Ganges Area (Ch.199+198 to Ch.199+852, RHS on the edge of Service Road)

(ii) Shankarachayra Chowk (a) Ch.200+800 to Ch.201+100, RHS of Service Road, (b) Ch.201+100 to Ch.201+380, in Central Median below Flyover & (c) Ch.201+520 to Ch.201+800, RHS of Service Road.

(iii) Shantikunj Area from Ch.206+400 to Ch.208+880 i/c 1 crossing at Ch.207+660 from RHS to LHS, Total Length-2600m

The proposal is regarding permission sought by M/s GAIL(India) Limited for laying of a Public Utility "City Gas Distribution (CGD)" Steel Gas Pipeline of 8"dia Haridwar-Rishikesh-Dehradun Gas Pipeline (HRDPL) at following locations by Open Trench Method:

(i) Nirmal Bagh to Hotel River Ganges Area (Ch.199+198 to Ch.199+852, RHS on the edge of Service Road)

(ii) Shankarachayra Chowk (a) Ch.200+800 to Ch.201+100, RHS of Service Road, (b) Ch.201+100 to Ch.201+380, in Central Median below Flyover & (c) Ch.201+520 to Ch.201+800, RHS of Service Road.

(iii) Shantikunj Area from Ch.206+400 to Ch.208+880 i/c crossing at Ch.207+660 from RHS to LHS, Total Length-2600m

2. The proposed locations of laying of gas pipeline along with proposed methodology are as hereunder:

Sl. No.	Chainage in Km.			NH	Length (in m)	Methodology proposed for laying of Pipeline in this portion of highway	Remarks
	From	To	Side				
1.	199.198	199.852	RHS	58	654	Open trenching through service road (Depth-1.8m(min),Width-.8m(max))	Layout Plan attached
2.	200.800	201.100	RHS	58	300	Open trenching through service road (Depth-1.8m(min),Width-.8m(max))	
3.	201.100	201.380	Central Median	58	280	Open trenching through central median under flyover (Depth-1.8m(min),Width-.8m(max))	
4.	201.520	201.800	RHS	58	280	Open trenching through service road (Depth-1.8m(min),Width-.8m(max))	
5.	206.400	208.880	RHS & LHS	58	2600	Open trench within the main carriageway	Line Diagram Attached
Total length (in m)					4114		

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).

9/10/2022

(Continuation Sheer to letter no. 50063/NHAI/RO-UKD/2014 /17931 dt. 04.10.2022)  
::2::

In view of foregoing para, 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,

96  
9.10.2022

(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 & to take suitable necessary action w.r.t exercise the powers & functions of Highway Administrator in pursuant to section 26 & 27 of The Control of national highways (land & traffic) act, 2002 for removal of encroachment within RoW.
- 4) Senior Manager (PE), R.T. Haridwar Jwalapur-249407 (Uttarakhand):- 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-रुड़की,



**Project Implementation Unit-Roorkee**

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

House No. 181, Shashtri Puram, Near Hotel Godawari, Roorkee-247656

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

NHAI/PIU-RRK/NH-58/11016/NOC/2021/ 6065

Dt.05.09.2022

To,

The Regional Officer,  
National Highways Authority of India,  
Regional Office-Uttarakhand,  
58/37, Balbir Road, Dehradun.

**Sub:** Construction/Laying of 8" dia and 50mm OFC/duct Haridwar to Dehradun Gas Pipeline – Request to lay pipeline by open cut/trenchless method 1 meter far from NH column footing on RHS -reg.

- Ref:- 1. Gail (India) limited letter no. GAIL/HRDPL/PROJ/11/2022 dated 29.08.2022  
2. Supervision Consultant letter no. LION/SQC0619/2022/NHAI/MZF-HDR/2143 dated 24.08.2022.  
3. EPC contractor M/s SEC Letter no. SEC/PD/HDEF/MNH/NHA/22/158 dated 20.08.2022.  
4. Gail (India) limited letter no. GAIL/HRDPL/PROJ/08/2022 dated 17.08.2022  
5. Gail (India) limited letter no. GAIL/HRDPL/PROJ/2019-21 dated 22.06.2022  
6. PIU Dehradun letter No. NHAI/PIU-DDN 22080//Misc.2007/21091 dated 03.07.2020.
- Sir,

Please refer letter dated 29.08.2022 mentioned above, vide which GAIL(India) Ltd., has submitted the proposal for laying 8" dia Haridwar -Dehradun gas pipeline with OFC/DUCT for total length of 2.6 kilo meters at shantikunj area by open trench method in Haridwar district in the state of Uttarakhand.

- It is submitted that earlier permission for laying gas pipeline had already been issued by competent authority vide letter dated 16.12.2019 under reference (6), wherein permission was granted to lay the gas pipeline through HDD method in the utility corridor at outer edge of ROW, however GAIL vide their letter dated 22.06.2022 has requested that due to encroachments and other utilities laid in utility corridor, it's not feasible to lay pipeline in utility corridor and submitted proposal for laying of gas pipeline with OFC/DUCT by Open cut/Trenchless method within the MCW at a distance of approx. 1 m. from footing of pier at RHS and at depth of 1.5 mtr for Open trench method & 2.5 mtr for Trenchless method(HDD) vide Gail (India) limited letter no. GAIL/HRDPL/PROJ/2019-21 dated 22.06.2022.
- The said proposal has been forwarded to assigned Supervision Consultant M/s Lion Engineering Consultant & EPC Contractor, M/s SEC Buildtech Pvt. vide this office letter dated 22.06.2022 to examine the proposal in accordance with prevailing ministry guidelines/norms. Subsequently, concerns raised by Contractor had been conveyed to GAIL vide letter dated 18.07.2022 for compliance of applicant without approval & recommendation.

In compliance of PIU Roorkee letter dated 18.07.2022, GAIL vide letter dated 20.07.2022 has submitted the following which is reproduced as below: -

Sl no.	Concerned raised by EPC Contractor	Reply Submitted by GAIL
i.	The GAIL pipeline is proposed to be laid with HDD. Even with HDD, the Drilling rig shall be stationed on site for a period of several days at one location and	The proposed line of GAIL to be laid via HDD method only, since after the site condition we have the soft soil strata in view of that we are using small capacity of

	weeks/months in cumulative Since, it is a linear project and after excavation of footings, there is only a narrow space at the sides for movement and that shall be taken by the drilling rig. Due to this movement across the site may be hampered and the progress of our work shall be affected.	[IDD rig of approx. 35 tons. As per our schedule being provided to you our HDD rig will be stationed on site at one place for not more than 4 days. Since, it's a linear project after excavation there is enough space for the freely moment. We assure you that progress of your work will not be hampered.
ii.	Further, there is concern regarding the Auger from the Drilling Rig impacting the foundations as the proposed pipeline ie harely 1-2 meters from the foundatione of the flyover under construction. This is a very dangerous situation which can affect the structural integrity of the foundation and the overlying structure	Secondly, the concern regarding the use of anger for the HDD pilot work, it is to clarify that we are not using the auger, instead we are using the drill bit tool for the pilot activity which is at least 2 mtr away from your foundation pavement. So the structural integrity of the foundation and the overlay structure will be totally safe & secure
iii.	Also, the drilling rig shall damage the pavement at locations where it is installed the repair of which shall not be borne by EPC Contactor and it should be ensured that repair of same is done by GAIL (India Limited	While installation of the HDD rig we will be utmost concern to maintain the required distance from the pavement area, however if any damaged/repair happen to the pavement area the restoration for the same will be done by the Gail (India) Ltd.
iv.	Further, after laying, pipeline will be subject to overlaying loads. In this regard, undertaking needs to be submitted GAIL (India) Limited that pipeline will be safe under overburden live and dead loads. Copy of the safety norms and codal provision in this regard may be provided.	Since we are laying the 8" pipeline and avoiding the ROU foundation, we are abiding all safety and measures to expertise the said work as per OISD-226 guidelines. Regarding Undertaking already submitted to you by Gail (India) Ltd on dated 22.06.2022

3. Further Gail (India) Ltd. vide letter dated 17.08.2022 has submitted again that HDD method had been attempted by our working agency with 35T capacity HDD rig but all effort goes in vain due to presence of heavy boulders in the sub soil strata. Hence there is no other relevant methodology left with us except only open cut method in above said locations & requested to consider their proposal to lay pipeline by open trench method.

It is needless to mention here that proper restoration will be done as per laid down procedure by MORTH norms.


4. Further, Supervision consultant vide letter dated 24.08.2022 has submitted the following after site visit with representative of GAIL: -

(i) The available ROW is very much restricted at this location and highly congested with lot of underground power Utilities and Utilities for other service as well.

(ii) The strata of existing soil has also been examined based on the available past data during the time of execution of Project Highway and after getting analyze it is observed that the existing soil strata is not feasible for the laying duct by adopting the trenchless methdology (HDD).

(iii) Referring the request of GAIL (India) for using the extreme edge for laying the utility pipe, this office would like to draw your kind attention towards clause 2.6 of MoRT&H Guideline dated 22.11.2016.

***"In exceptional cases, the utility services ca be allowed beneath the carriageway of service road, subject to the condition that the utility service be laid in concrete duct which will be designed to carry traffic on tap. The width of the duet in such case shall not be less than one lane. The cost of operation and maintenance in that case will be borne by license as per the agreement. "***

  
29.08.2022

The process as prescribed by the MoRT&H Guidelines is very cumbersome in execution and at the same time will disrupt the road traffic for a very longer period.

Looking into above, the request made by GAIL (India) may be recommended subject to following conditions:

- (i) The side of trench should be done as nearly vertical as possible. The trench width should be at least 2m wide with an offset from 500mm from the existing RCC storm water drain.
- (ii) It is to be ensured that no time there is interference with the drainage of road land and maintenance of the Highway. The top of the utility service shall be at least 2.0m below the Finished Road level.
- (iii) Filling of trench shall conform to the specification mention here in below:

a. Bedding shall be to a depth not less than 30mm it shall consist of granular material, free of lumps, clods & cobble.

b. The backfill shall be completed in two stages:

- (i) Side fill to the level of the top of the pipe.
- (ii) Overfill to the bottom of the road crust.
- (iii) The side fill shall consist of granular material laid in 150mm layers each consolidated by mechanical tamping and controlled addition of moisture to 95% of the modified proctor density (To be determined at any approved NABL- Accredited Lab overfill shall be compacted to the same density at the material that had been removed (to be determined at lab)

c. After the overfill, the road crust shall be built to the same strength as the existing crust.

d. A traffic plan showing proper barricading of alongside the trench and the necessary cautionary/ informative signages pertaining to the information of work in progress to the road users in conformation to IRC: SP-55 and IRC:67 shall be submitted by applicant and get approved prior to commencement of work.

5. In addition to above M/s SEC vide their letter dated 20.08.2022 has desired affidavits/ Undertaking in r/o Compensation caused due to damage incurred at site during the execution of laying of GAIL Pipeline by GAIL(India) Limited. (Copy enclosed).

Further, authorised signatory of GAIL has submitted undertaking regarding the expenditure caused due to damage incurred at site during the execution of laying of GAIL Pipeline & Affidavit for work zone Management & priority towards work of SEC. (copy enclosed).

keeping in view of above, the subject proposal is herewith recommended for seeking approval from Highway Administration for laying 8" dia and 50mm OFC/duct Haridwar to Dehradun Gas Pipeline (**Shantikunj Area**) through open trench method in accordance with the Ministry's guidelines.

Yours Faithfully

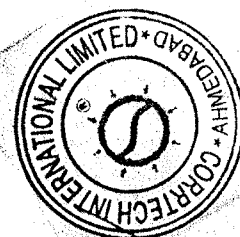
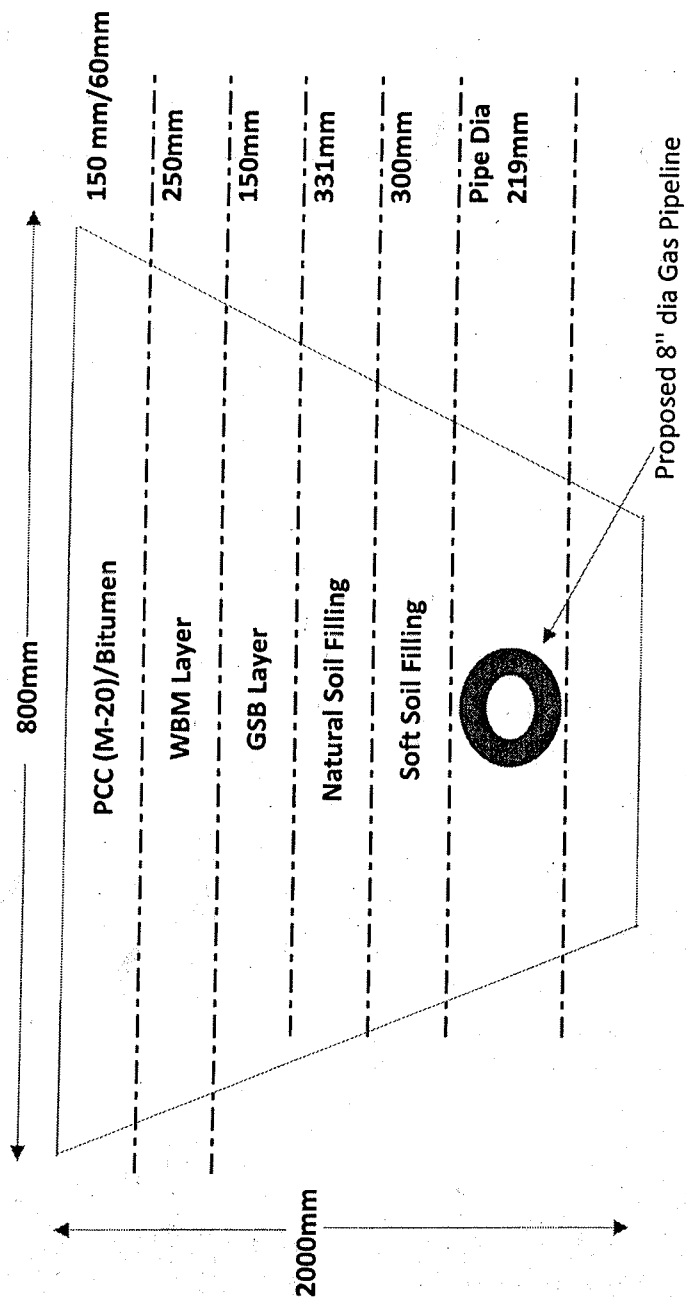
  
(P.S. Gusain)

GM (Tech) cum Project Director  
PIU-Roorkee

- Encl:-
- 1. 2 No. File (1 Original+ 1 Copy) with complete proposal.
  - 2. Proposed demarcated gas pipeline drawings.
  - 3. Copy of undertaking dated 30.08.2022 in r/o compensation submitted by Authorised Signatory, GAIL (India) Limited.

# Project Name:- Haridwar Rishikesh Dehradun Gas Pipeline Project

Cross Sectional view of Road Restoration Work at Proposed Open cut locations





**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-रुड़की,



**Project Implementation Unit-Roorkee**

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

NHAI/PIU-RRK/NH-58/11016/NOC/2021/ 6146

Date: 21.09.2022

To,

Regional Officer  
National Highways Authority of India  
58/37, Balbir Road,  
Dehradun - 248001

**Sub:- Construction/Laying of 8" dia Haridwar-Rishikesh-Dehradun Gas Pipeline (HRDPL) parallel to NH-58 (within ROW) - Request to lay pipeline by open trench method on the edge of service road-Shankaracharya Chowk Area -reg.**

- Ref:-**
1. Supervision Consultant letter no. SQC0619/2022/NHAI-Mzf-Hdr/2210 dt. 19.09.2022
  2. This office letter no. NHAI/PIU-RRK/NH-58/11016/NOC/2021/6114 dt. 15.09.2022
  3. GAIL (India) Limited letter no. GAIL/HRDPL/PROJ/14/2022 dt. 09.09.2022
  4. GAIL (India) Limited letter no. GAIL/HRDPL/PROJ/12/2022 dt. 31.08.2022
  5. RO-Uttarakhand letter no. 50063/NHAI/RO-UKD/2014/17700 dt. 17.08.2022

Sir,

In reference to the proposal submitted by GAIL (India) Limited vide letter no. GAIL/HRDPL/PROJ/14/2022 dt. 09.09.2022 for laying of "8" dia Haridwar-Rishikesh-Dehradun Gas Pipeline (HRDPL) parallel to NH-58 (within ROW) by open trench method on the edge of service road at Shankaracharya Chowk area" it is to submit that in reference to RO-Uttarakhand letter no. 50063/NHAI/RO-UKD/2014/17700 dt. 17.08.2022 vide which certain observations were raised in r/o the subject project, it is to inform that GAIL (India) Limited has submitted compliance to this office vide letter no. GAIL/HRDPL/PROJ/12/2022 dt. 31.08.2022.

2. Further, Supervision Consultant vide letter no. SQC0619/2022/NHAI-Mzf-Hdr/2210 dt. 19.09.2022 has submitted its recommendations and same has been reviewed in this office. Accordingly, following is to be submitted:

- Permission for laying of gas pipeline at extreme edge of ROW was granted to GAIL (India) Limited vide to RO-Uttarakhand letter no. 13013/NHAI/RO-UKD/2014/12024 dt. 06.12.2019. However, due to encroachment and existing utilities no space is available for laying of pipeline in utility corridor.
- Further, as desired in Serial No. 2 of RO-Uttarakhand letter no. 50063/NHAI/RO-UKD/2014/17700 dt. 17.08.2022, stirp chart along with checklist is attached as Annexure-B for reference. Also, it is to submit that joint site was conducted by representatives of PIU, Supervision Consultant and GAIL (India) Ltd. on 15.09.2022. Inspection Report is attached as Annexure-C.
- Further, it is to be informed that GAIL (India) Limited has submitted proposal for laying of pipeline from Ch. 200.8000 to Ch. 201.788 below service road (RHS) by open trench method as underlying strata is full of gravels and boulders hence HDD is not possible at this location. Further, GAIL (India) Ltd. vide letter no. GAIL/HRDPL/PROJ/12/2022 dt. 31.08.2022 has submitted relevant information as desired in Serial No (i) of RO-Uttarakhand letter no. 50063/NHAI/RO-UKD/2014/17700 dt. 17.08.2022 is tabulated below:

S. No	From (Km)	To (Km)	LHS (m)	RHS (m)	Total Width of ROW (m)	Length (m)	Proposed Laying of OFC			Offset from edge of ROW		Methodology of laying pipeline (to be OFC in this portion)		Details of Issue encountered in earlier approved proposal	Comments of PIU for proposed methodology w.r.t. Ministry Guidelines
							From	To	Side	Earlier Approved	Proposed	Earlier Approved	Proposed		
3.	200.800	201.788	-	988	45	988	200.800	201.788	RHS	RHS	RHS	Open Cut	Open Cut	Due to space constrain no space left after service road so open cut proposed in service road	

- D. Further, Clause 2.6 of prevailing MoRT&H Circular No. RW/NH-33044/29/2015/S&R(R) dt. 22.11.2016 states that *"In exceptional cases, where ROW is restricted the utility services can be allowed beneath the carriageway of service road, subject to the condition that the utility services be laid in concrete ducts, which will be designed to carry traffic on top. The width of the duct in such case shall not be less than one lane. In such cases, it also needs to be ensured that maintenance of the utility services shall not interfere with the safe and smooth flow of traffic. The cost of operation and maintenance will have to be borne by the Licensee as per the agreement"*.
- E. Further, as informed by applicant that this project is to be inaugurated by Hon'ble Prime Minister in December, 2022. Hence, above mentioned methodology of work does not seem feasible as it is more time taking and cost consuming.
3. In the view of above, open trenching methods seems only feasible option and based on joint site visit it is proposed that:
- (a) Ch. 200.800 to Ch. 201.100 - open trenching on RHS of service road will be done for laying pipeline.
  - (b) Ch. 201.100 to Ch. 201.380 - pipeline can be laid at central median location below flyover by open trenching.
  - (c) 201.380 to Ch. 201.520 - is not under jurisdiction of NHAI.
  - (d) Ch. 201.520 to Ch. 201.800 - open trenching at RHS of service road will be done.
4. In addition to above, it is to be stated that:
- (i) Pipeline will be laid at depth of greater than 1.8m.
  - (ii) Wherever open trenching at service road is carried out, backfilling will be done by sand followed by restoration of service road by DBM+BC/PQC.
  - (iii) Open trenching would be allowed in stages of 100m only. Subsequent to restoration of this 100m length, next section of open trenching will be done.
  - (iv) Further, since at a time 100m length of service road will be affected, existing bank guarantee amounting to Rs. 42,85,400/- may be sufficient. However, if required applicant can be asked to provide additional BG subsequent to in principle approval.

Therefore, seeing urgency and importance of this project, it is requested that in-principle approval may be granted to applicant.

Thanking you,

Yours Faithfully,



(Pradeep Singh Gusain)  
GM (Tech) cum Project Director  
PIU-Roorkee



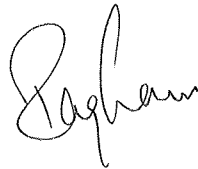
## INSPECTION REPORT

Date: 15.09.2022

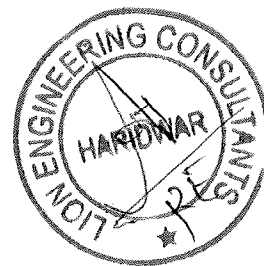
Sub: - Construction/Laying of 8" dia Haridwar-Rishikesh-Dehradun Gas Pipeline (HRDPL) parallel to NH-58 (within ROW) - Request to lay pipeline by open trench method on the edge of service road- Shankaracharya Chowk Area -reg.

GAIL (India) Limited has submitted proposal for laying of "8" dia Haridwar-Rishikesh-Dehradun Gas Pipeline (HRDPL) parallel to NH-58 (within ROW) by open trench method on the edge of service road at Shankaracharya Chowk area". The same has been examined in accordance to the MoRT&H Circular No. RW/NH-33044/29/2015/S&R(R) dated 22.11.2016. Further, Joint site was conducted along with the representatives of Supervision Consultant and GAIL (India) Ltd. on 15.09.2022, based on joint site visit following is to be submitted:

- (i) Permission for laying of gas pipeline at extreme edge of ROW was granted to GAIL (India) Limited vide to RO-Uttarakhand letter no. 13013/NHAI/RO-UKD/2014/12024 dt. 06.12.2019. However, due to encroachment and existing utilities no space is available for laying of pipeline in utility corridor.
- (ii) MoRT&H guidelines/norms at Clause 2.6 state that when utilities are laid below Service Road/Carriageway, it would be done through ducts. However, as informed by applicant, since project is to be inaugurated by Prime Minister in December, 2022, construction of utility duct is not feasible as it is more time consuming and will require longer traffic blockage.
- (iii) Laying of gas pipelines proposed is to be done with open trenching method at following locations:
  - (a) Ch. 200.800 to Ch. 201.100 - open trenching on RHS of service road will be done for laying pipeline.
  - (b) Ch. 201.100 to Ch. 201.380 - pipeline can be laid at central median location below flyover by open trenching.
  - (c) 201.380 to Ch. 201.520 - is not under jurisdiction of NHAI.
  - (d) Ch. 201.520 to Ch. 201.800 - open trenching at RHS of service road will be done.
- (iv) Pipeline will be laid at depth of greater than 1.8m.
- (v) Wherever open trenching at service road is carried out, backfilling will be done by sand followed by restoration of service road by DBM+BC/PQC.
- (vi) Open trenching would be allowed in stages of 100m only. Subsequent to restoration of this 100m length, next section of open trenching will be done.
- (vii) Further, traffic diversion will be managed by State Authorities and GAIL (India) Ltd. as discussed during DM, Haridwar meeting on 25.08.2022.



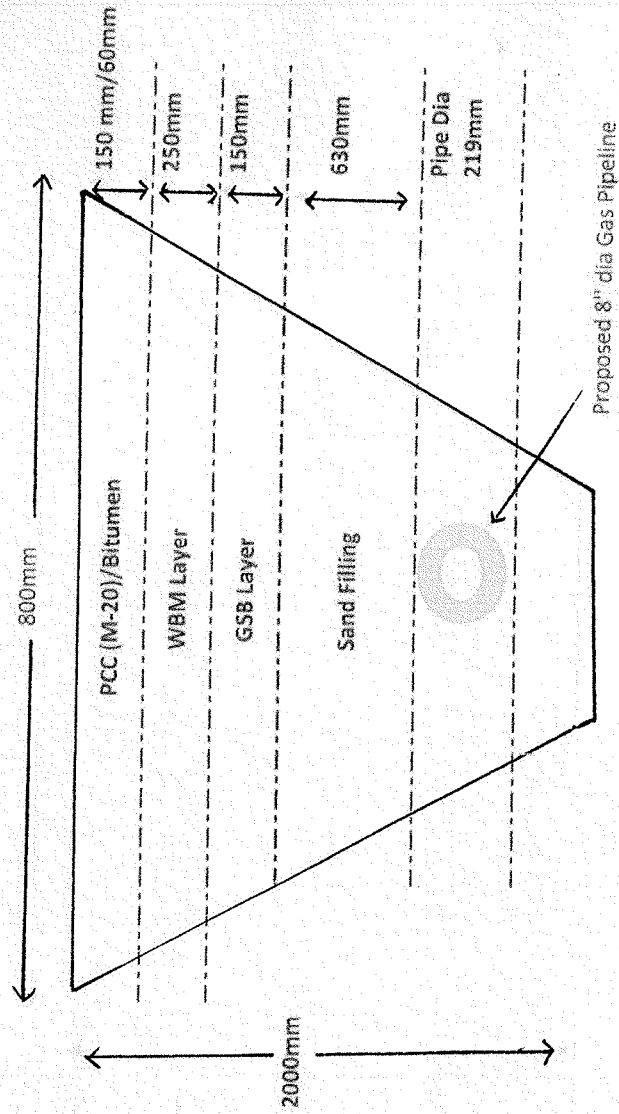
राघव त्रिपाठी / Raghav Tripathi  
उप प्रबंधक (तक0) / Dy.M(Tech)  
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण  
National Highway Authority of India  
पी0आई0यू0-रूड़की / PIU-Roorkee



प्रदीप सिंह गुसाई / Pradeep Singh  
परियोजना निदेशक / Project  
भारतीय राष्ट्रीय राजमार्ग प्रा  
National Highway Authority  
पी0आई0यू0-रूड़की / PIU-

**Project Name:- Haridwar Rishikesh Dehradun Gas Pipeline Project**

Cross Sectional view of Road Restoration Work at Proposed Open cut locations



राजीव कुमार, PE, DEPT. ENGINEER  
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गैल (इंडिया) लिमिटेड / GAIL (India) Limited  
Jubilee Tower, B-35 & 36  
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SHANKARACHARY  
CHOWK

112

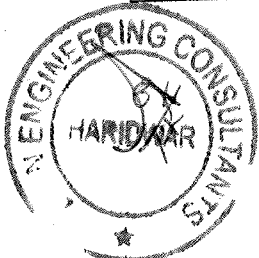
### CHECK-LIST

Guidelines for processing the proposal for laying of utility line in the land along National Highways vested with NHA/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.

Sl.No.	Item	Information/ Status	Remarks
1	General Information		
1.1	Name and Address of the Applicant/ Agency	GAIL (INDIA) LIMITED	
1.2	National Highway Number	NH-58 (New NH-34)	
1.3	State	UTTARAKHAND	
1.4	Location	SHANKARACHARY CHOWK	
1.5	(Chainage in km)	200.800 To 201.788 Km	
1.6	Length in Meters	988 mtr	
1.7	Width of available ROW	45 mtr	
	(a) Left side from center line towards increasing chainage/ km direction	22.5 mtr	
	(b) Right side from center line towards increasing chainage/ km direction	22.5 mtr	
1.8	Proposal to lay the utility	-	
	(a) Left side from center line towards increasing chainage/ km direction	-	
	(b) Right side from center line towards increasing/ km direction	Right side (in service Road)	
1.9	Proposal to acquire land	-	
	a) Left side from center line	N/A	
	b) Right side from center line	N/A	
1.10	Whether proposal is in the same side where land is not to be acquired	N/A	
	If not then where to lay the Water pipe line	N/A	
1.11	Details of already laid services, if any, along the proposed route	NIL	
1.12	Number of existing lanes (2/4/6/8 lanes)	2	
1.13	Proposed Number of lanes (2 lane with paved shoulders/4/6/8 lanes)	N/A	
1.14	Service road existing or not		
	If yes then which side	YES	
	(a) Left side from center line	width - 10 mtr	
	(b) Right side from center line	width - 7 mtr	
1.15	Proposed Service road	N/A	
	(a) Left side from center line	N/A	



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राघव त्रिपाठी / Raghav Tripathi  
उप प्रबंधक (तक) / Dy.M(Tech)  
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण  
National Highway Authority of India  
पी०आइ०यू०-रूड़की / PIU-Roorkee

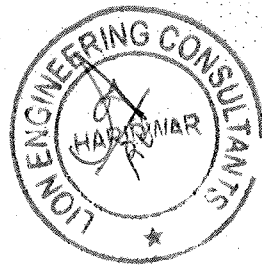
राजीव वैशाली / RAJEEV VASHALI  
वरिष्ठ प्रबंधक (PE) / Senior Manager (PE)  
गैल (इण्डिया) लिमिटेड / GAIL (India) Limited  
Jubilee Tower, E-35 & 36  
Sector-1 Noida (U.P.) 201301

प्रदीप सिंह गुप्ता / Pradeep Singh Gupta  
परियोजना निदेशक / Project Director  
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण  
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	(b) Right side from center line		
1.16	Whether Proposal to lay pipe line is after the service road or between the service road and main carriageway	Between the Service Road	
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	
1.19	Is 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 expense of the agency owning the line	No	
	a) Whether the existing drainage structures are allowed to carry the utility pipeline.	No	
	b) Is it on a line normal to NH	Yes	
	c) What is the distance of crossing the utility pipelines from the existing structures? Crossings shall not be too near the existing structures on the national highway, the minimum distance being 15 meter.	18 mtr	
	d) The casing pipe (or conduit pipe in the case of electric cable) line carrying the utility line shall be of steel, cast iron or reinforced concrete and have adequate strength and be large enough to permit ready withdrawal of carrier pipe/ cable Mention type of casing	N/A	
	e) Ends of the casing/conduit pipe shall be sealed from outside, so that it does not act as a drainage path	N/A	
	f) The casing/conduit pipe should be as minimum extend from drain to drain in cuts and toe of slope in fills	N/A	
	g) The top of the casing/conduit pipe should be at least 1.2meter		

प्रदीप सिंह गुसाई/Pradeep Singh Gusain  
परियोजना निदेशक / Project Director  
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*Raghu*

राघव त्रिपाठी / Raghav Tripathi  
उप प्रबंधक (तक0) / Dy.M(Tech)  
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण  
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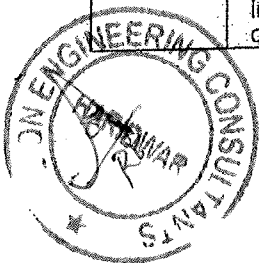
*Pradeep Singh*

राजीव बेनर्जी / RAJEEV BERNERJEE  
वरिष्ठ प्रबंधक (PE) / Senior Manager (PE)  
गेल (इण्डिया) लिमिटेड / GEL (India) Limited  
Jubilee Tower, E-35 & 36  
Sector-1 Noida (U.P.) 201301

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	below the surface of the road subject to being at least 0.3 m below the drain inverts. Mention the proposed details	1.5 mtr deep from Top surface of Road & 1 mtr deep from any drain bed.	
	h) Mention the methodology proposed for crossing of the road for the proposed water/sewage/Gas pipeline. Crossing shall be by boring method (HDD) (Trenchless Technology) specially where the existing road pavement is of cement concrete or dense bitumen concrete type	N/A	
	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 water way along it.	N/A	
2	Documents / drawings to be enclosed with the proposal	ENCLOSED	
2.1	Cross section showing the size of trench for open trenching	ENCLOSED	
	Is it normal size of 1.2m deep x 0.3 m wide	1.5m deep & 0.6 mtr wide	
	i) should not be greater than 60cms 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 15m from the center line 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 0.6m below the ground level so as not to obstruct drainage of the road land	1.2 mtr deep from top surface of ground.	
2.2	Cross section showing the size of pit and location of pipe for HDD method	N/A	
2.3	Strip plan / Route Plan showing utility/Gas pipeline chainage, width of ROW, distance of proposed pipe line from the edge of ROW, Important mile stone, Intersections, cross drainage works etc.	ENCLOSED	

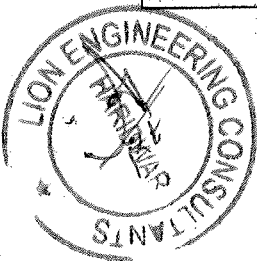
प्रदीप सिंह गुसाई/Pradeep Singh Gusain  
परियोजना निदेशक / Project Director  
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण  
National Highway Authority of India  
पी०आई०यू०-रूड़की / PIU-Roorkee



राघव त्रिपाठी / Raghav Tripathi  
उप प्रबंधक (तक०) / Dy.M(Tech)  
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण  
National Highway Authority of India  
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राजीव बेनर्जी RAJEEV BERNERJI  
वरिष्ठ प्रबंधक (PE) / Senior Project Engineer (PE)  
गेल (इण्डिया) लिमिटेड GEL (India) Limited  
Jubilee Tower, E 35 & 36  
Sector-1 Noida (U.P.) 201301

2.4	Methodology for laying of the Utility 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 refilling tile trench	OPEN TRENCHING METHOD	
	a) The trench width should be at least 30 cms, but not more than 60cms. Wider than the outer diameter of the pipe.	Agreed	
	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, cobbles and graded to yield firm surface without sudden change in the bearing value. Unsuitable soil and rock edges should be 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 15 cms. layers each consolidated by mechanical tampering and controlled addition of moisture to 95% of the proctor density. Overfill shall be compacted to the same density as the material that has 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.	Agreed	
	f) The excavation shall be protected by flagman, Signs	Agreed	



राघव त्रिपाठी / Raghav Tripathi  
उप प्रबंधक (तक0) / Dy.M(Tech)  
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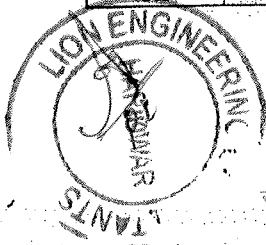
राजीव कुमार / RAJEEV KUMAR  
वरिष्ठ प्रबंधक (PE) / Senior Engineer (PE)  
गेल (इंडिया) लिमिटेड / GEL (India) Limited  
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प्रदीप सिंह गुसाई / Pradeep Singh Gusain  
परियोजना निदेशक / Project Director  
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण  
National Highway Authority of India  
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	and barricades and red lights during night hours.		
	g) If required, a diversion shall be constructed at the expense of agency owning the utility line.	Agreed	
2.4.2	Horizontal Directional Drilling (HDD) Method	N/A	
2.4.3	Methodology for laying of the 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	Signed (Copy Enclosed)	
3.1	The License fee estimate as per Ministry's guidelines issued vide circular No. RW/NH/33044/29/2015/S&R dated 22-11-2016	Already Deposited (Copy Enclosed)	
4	Whether Performance Bank Guarantee as per Ministry guidelines issued vide circular No. RW/NH/33044/29/2015/S&R dated 22-11-2016 is obtained	Already Deposited (Copy Enclosed)	
4.1	Confirmation of BG has been obtained or not as per MoRTH/NHA guidelines	OBTAINED	
5	Affidavit/Undertaking from the Applicant for following is to be furnished	-	
5.1	Undertaking for not to damage any other utility, if damaged then to pay the losses either to NHA or to the concerned agency	ENCLOSED	
5.2	Undertaking for Renewal of Bank Guarantee as and when asked by MoRTH/NHA	ENCLOSED	
5.3	Undertaking for confirming all standard conditions of Ministry/NHA's guidelines	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 if any claim is raised		



राघव त्रिपाठी / Raghav Tripathi  
उप प्रबंधक (संकट) / Dy.M(Tech)  
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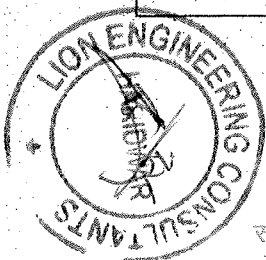
राजीव कुमार / RAJEEV KUMAR  
वरिष्ठ प्रबंधक (PE) / Senior Project Engineer (PE)  
गैल (इण्डिया) लिमिटेड / GAIL (INDIA) LIMITED  
Jubilee Towers E-55 & 56  
Sector-1 Noida (U.P.) 201301

प्रदीप सिंह गुसाई / Pradeep Singh Gusain  
परियोजना निदेशक / Project Director  
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण  
National Highway Authority of India  
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	by the Concessionaire/contractor then the same has to be paid by the applicant	ENCLOSED	
5.7	Undertaking that prior approval of the NHA 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	
5.8	Undertaking that expenditure if any incurred by NHA for repairing any damage caused to the NH by laying, maintenance or shifting of the utility line will be borne by the applicant agency owning the line	ENCLOSED	
5.9	Undertaking that text of the License deal is as per verbalim of format issued by MoRTH vide circular No. RW/NH/33044/29/2015/S&R dated 22-11-2016	ENCLOSED	
5.10	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 as applicable, before applying to Highway Administration.	ENCLOSED	
5.11	If the MoRTH/NHA 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 MoRTH/NHA at the cost of the Agency owning the utility line within a reasonable time (not exceeding 60 days) of the intimation given	ENCLOSED	
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/we will relocate service road/approach road/utilities at my/our own cost notwithstanding the permission	ENCLOSED	



Raghu

राघव त्रिपाठी / Raghav Tripathi  
उप प्रबंधक (तक0) / Dy.M(Tech)  
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण  
National Highway Authority of India  
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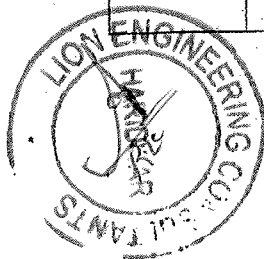
Ramanthi  
राजीव बेंजगा/EEV & S&R, EE  
वरिष्ठ प्रबंधक (PE/S&R/DR) (PE)  
गेल (इंडिया) लिमिटेड/GAL (INDIA) Limited  
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परियोजना निदेशक / Project Director  
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण  
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	granted within such time as will be stipulated by NHA for future six laning or/ any other development.		
6	Who will sign the agreement on behalf of Gas pipe line agency? Power of attorney to sign the Agreement is available or not	RAJEEV BANERJEE SM(PE)	
7	The Project Director shall submit the following Certificates		
7.1	Certificate that the proposal is confirming to all standard conditions issued vide MoRTH circular No. RW/NH/33044/29/2015/S&R dated 22-11-2016		
7.2	Certificate from the PD in the following format i) "It is certified that any other location of the utility pipeline would be extremely difficult and unreasonably costly and the installation of utility pipeline within RoW will not adversely affect the design, stability and traffic safety of the highway nor the likely future improvement such as widening of the carriage way, easing of curve" ii) for six laning 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 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 NHA on BOT basis - a clause is to be inserted in the agreement "the permitted highway on which licensee has been granted the right of way to lay cable /duct has also been granted as a right of way concessionaire under the concession agreement for up gradation of----- ----- section from Km. ----- to km -----		



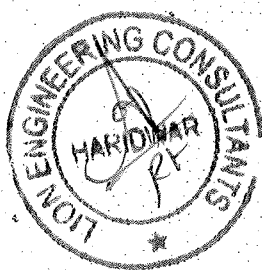
*Rajiv*

राजव त्रिपाठी / Rajhav Tripathi  
उप प्रबंधक (TECH) / Dy.M(Tech)  
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण  
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*Rajeev Banerjee*  
राजवी बैनर्जी RAJEEV BANERJEE  
वरिष्ठ प्रबंधक (PE) / Senior Engineer (PE)  
गेल (इण्डिया) लिमिटेड / GEL (India) Limited  
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परियोजना निदेशक / Project Director  
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	of NH no. ----- on Build, Operate and Transfer basis and therefore the licensee shall honor		
9	Who will supervise the work of laying of Utility Pipe line		
	a) On behalf of the applicant	RAJEEV BANERJEE	
	b) On behalf of MoRTH/NHA		
10	Who will ensure that the defects in road portion after laying of utility pipeline are corrected and if not corrected then what action will be taken		
	c) On behalf of the applicant	RAJEEV BANERJEE	
	d) On behalf of MoRTH/NHA		
11	Who will pay the claims for damages done/disruption in working of Concessionaire if asked by the Concessionaire?		
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)		
13	If any previous approval is accorded for laying cable line then Photocopy of register of records of permissions accorded (as maintained by PD) to be enclosed.	Enclosed	



*Raghu*

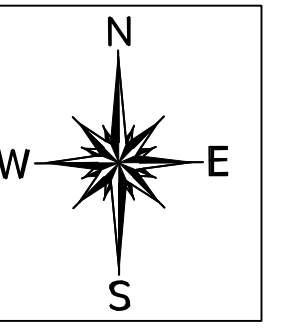
राघव त्रिपाठी / Raghav Tripathi  
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*Rajeev Banerjee*

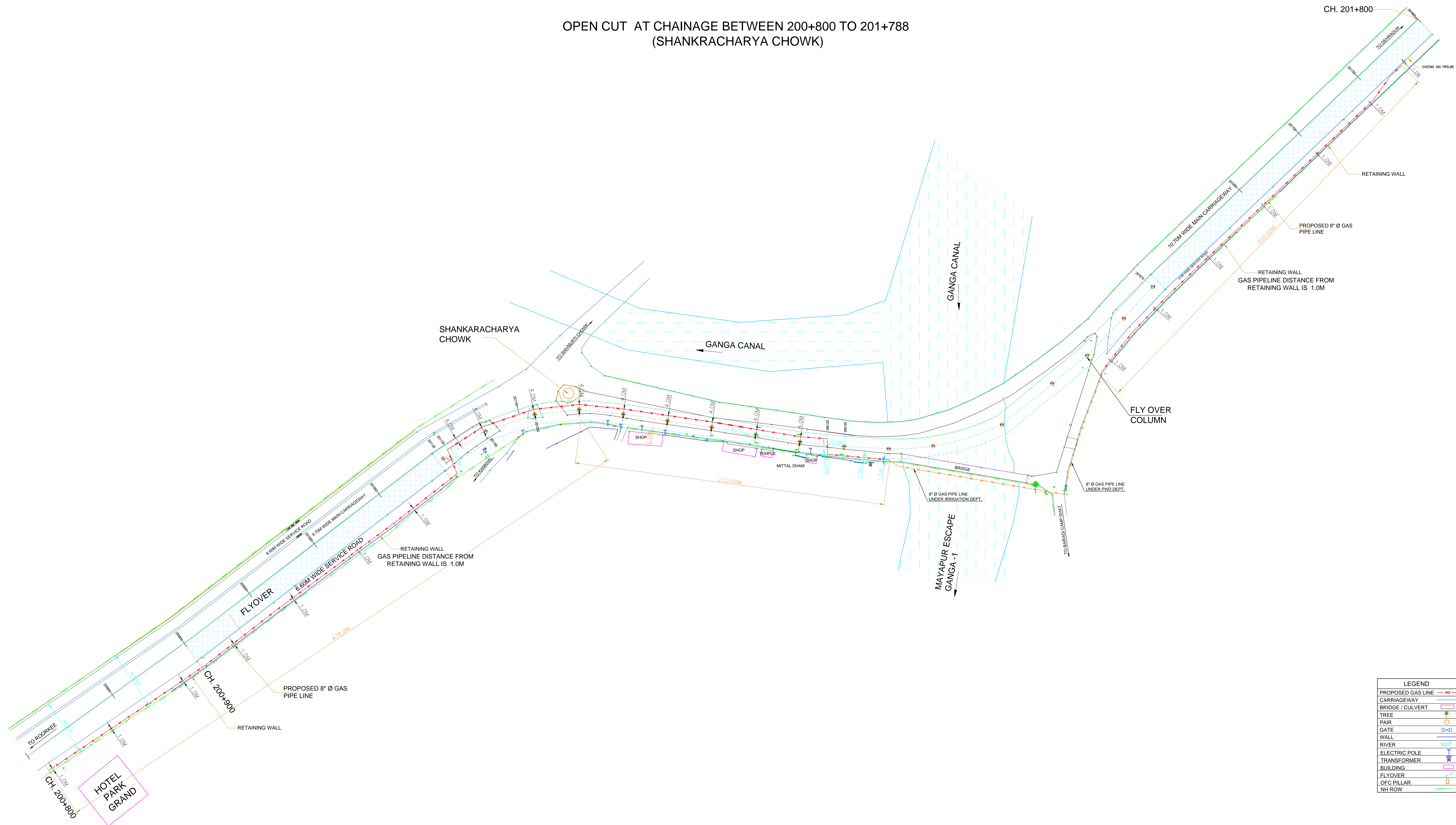
राजीव बनर्जी / RAJEEV BANERJEE  
परिचालक (PE) / Section Manager (PE)  
गैल (इण्डिया) लिमिटेड / GAIL (India) Limited  
Jubilee Tower, E 35 & 36  
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*Pradeep Singh*

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



OPEN CUT AT CHAINAGE BETWEEN 200+800 TO 201+788  
(SHANKRACHARYA CHOWK)



LEGEND	
PROPOSED GAS LINE	---
CARRIAGEWAY	---
BRIDGE / CULVERT	---
TREE	---
PAIR	---
GATE	---
WALL	---
RIVER	---
ELECTRIC POLE	---
TRANSFORMER	---
BUILDING	---
FLYOVER	---
OFC PILLAR	---
NH ROW	---

CLIENT:-  
GAIL (INDIA) LIMITED

TITLE:  
PROPOSED GAS PIPE LINE BETWEEN CH.  
200+800 TO CH. 201+788 AT SHANKRACHARYA  
CHOWK ON NH 58 (NEW NH 34)

NOTE :-  
1. ALL DIMENSIONS, LEVELS AND  
CHANGES ARE IN METERS.  
2. ONLY WRITTEN DIMENSION SHALL BE FOLLOWED.  
DO NOT SCALE THE DRAWING.  
3.- GAS PIPELINE DISTANCE FROM COLUMN CENTER IN  
MEDIAN IS 4.0M

PREPARED BY:  
TECHNICAL CONSULTANCY SERVICES  
14-C, ARAWALI ENCLAVE, GMS ROAD DEHRADUN,  
PH:0135-2720017,9997093347, Fax:- 2720018  
E-Mail: tcsdoon@gmail.com/tcsdoon@yahoo.com





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, रुड़की-247667

House No. 181, Shashtri Puram, Near Hotel Godawari, Roorkee-247656

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



NHAI/PIU-RRK/NH-58/11016/NOC/2021/ 6166

Date: 23.09.2022

To,

Regional Officer  
National Highways Authority of India  
58/37, Balbir Road,  
Dehradun - 248001

Sub:- Construction of 8" dia. & 50mm ofc/duct Haridwar to Dehradun gas pipeline - request to lay pipeline open cut method on the edge of Service Road (RHS) of NH-58 from Nirmal Bagh to Hotel Ganges Rivera area -reg.

- Ref:-
1. GAIL (India) Limited letter no. GAIL/HRDPL/PROJ/15/2022 dt. 12.09.2022
  2. This office letter no. NHAI/PIU-RRK/NH-58/11016/NOC/2021/6019 dt. 28.08.2022
  3. Supervision Consultant letter no. SQC0619/2022/NHAI-Mzf-Hdr/2143 dt. 24.08.2022
  4. This office letter no. NHAI/PIU-RRK/NH-58/11016/NOC/2021/5852 dt. 29.07.2022
  5. GAIL (India) Limited letter no. GAIL/HRDPL/PROJ/XXX/2019-21/02 dt. 14.07.2022

Sir,

This is in reference to the proposal submitted by GAIL (India) Limited vide letter no. GAIL/HRDPL/PROJ/XXX/2019-21/02 dt. 14.07.2022 for laying of "8" dia. & 50mm ofc/duct Haridwar to Dehradun gas pipeline - request to lay pipeline open cut method on the edge of Service Road (RHS) of NH-58 from Nirmal Bagh to Hotel Ganges Rivera area".

2. In this regard, the same was forwarded to Supervision Consultant vide this office letter cited at ref (4) to examine the proposal and submit comments/recommendations. Subsequently, Supervision Consultant vide letter no. SQC0619/2022/NHAI-Mzf-Hdr/2143 dt. 24.08.2022 has submitted its recommendations and same has been reviewed in this office. Accordingly, following is to be submitted:-

- A. It is to submit that joint site was conducted by representatives of PIU, Supervision Consultant and GAIL (India) Ltd. on 15.09.2022. Inspection Report is attached as Annexure-A.
- B. It is observed that due to built up area, encroachment and existing utilities no space is available for laying of pipeline in utility corridor.
- C. It is to be informed that GAIL (India) Limited has submitted proposal for laying of pipeline from Km. 199.198 to Km. 199.851 on the edge of the service road (RHS) by open trench method as underlying strata is full of gravels and boulders hence HDD is not possible at this location. The strip chart of the proposal is enclosed as Annexure-B.
- D. Further, GAIL (India) Ltd. has submitted information as tabulated below:

S. No	Proposed laying of pipeline From NH Km. To NH Km. (Side) Crossing may be indicated separately	Total Width of ROW (m)	Extent of Project Highway i/c its facilities (m) from centre of median		Offset from edge of ROW as well as centre line of proposed location of pipeline		Methodology of laying pipeline (to be mentioned specifically section wise)		Details of Issue encountered in earlier approved proposal	Is there any cross drainages structures present in this stretch, if yes methodology for crossing of same
			LHS	RHS	Earlier Approved	Now Proposed	Earlier Approved	Now Proposed		
1.	199+198 to 199+851 (RHS)	Approx. 48mtr	24	24	R.H.S	R.H.S	Open cut (In edge of NH ROW)	Open Cut (In Service road)	Space constraint due to other utilities and encroachments.	Open cut method

E. Further, Clause 2.6 of prevailing MoRT&H Circular No. RW/NH-33044/29/2015/S&R(R) dt. 22.11.2016 states that "In exceptional cases, where ROW is restricted the utility services can be allowed beneath the carriageway of service road, subject to the condition that the utility services be laid in concrete ducts, which will be designed to carry traffic on top. The width of the duct in such case shall not be less than one lane. In such cases, it also needs to be ensured that maintenance of the utility services

*shall not interfere with the safe and smooth flow of traffic. The cost of operation and maintenance will have to be borne by the Licensee as per the agreement".*

- F. Further, as informed by applicant that this project is to be inaugurated by Hon'ble Prime Minister in December, 2022. Hence, above mentioned methodology of work does not seem feasible as it is more time taking and cost consuming.
3. In the view of above, open trenching methods seems only feasible option and based on joint site visit it is proposed that open trenching on RHS of service road will be done for laying pipeline from Km. 199.198 to Km. 199.851.
4. In addition to above, it is to be stated that:
- (i) Pipeline will be laid at depth of greater than 1.8m.
  - (ii) Wherever open trenching at service road is carried out, backfilling will be done by sand followed by restoration of service road by DBM+BC/PQC.
  - (iii) Open trenching would be allowed in stages of 100m only. Subsequent to restoration of this 100m length, next section of open trenching will be done.
  - (iv) Further, since at a time 100m length of service road will be affected, existing bank guarantee amounting to Rs. 42,85,400/- may be sufficient. However, if required applicant can be asked to provide additional BG subsequent to in principle approval.

Therefore, seeing urgency and importance of this project, it is requested that in-principle approval may be granted to applicant.

Thanking you,

Yours Faithfully,



(Pradeep Singh Gusain)  
GM (Tech) cum Project Director  
PIU-Roorkee

## INSPECTION REPORT

Date: 15.09.2022

**Sub: - Construction of 8" dia. & 50mm ofc/duct Haridwar to Dehradun gas pipeline - request to lay pipeline open cut method on the edge of Service Road (RHS) of NH-58 from Nirmal Bagh to Hotel Ganges Rivera area -reg.**

GAIL (India) Limited has submitted proposal for laying of "8" dia. & 50mm ofc/duct Haridwar to Dehradun gas pipeline by open cut method on the edge of Service Road (RHS) of NH-58 from Nirmal Bagh to Hotel Ganges Rivera area". The same has been examined in accordance to the MoRT&H Circular No. RW/NH-33044/29/2015/S&R(R) dated 22.11.2016. Further, Joint site was conducted along with the representatives of Supervision Consultant and GAIL (India) Ltd. on 15.09.2022, based on joint site visit following is to be submitted:

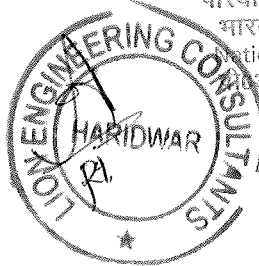
- (i) MoRT&H guidelines/norms at Clause 2.6 state that when utilities are laid below Service Road/Carriageway, it would be done through ducts. However, as informed by applicant, since project is to be inaugurated by Prime Minister in December, 2022, construction of utility duct is not feasible as it is more time consuming and will require longer traffic blockage.
- (ii) Laying of gas pipelines proposed is to be done with open trenching methods seems only feasible option and based on joint site visit it is proposed that open trenching on RHS of service road will be done for laying pipeline from Km. 199.198 to Km. 199.851.
- (iii) Pipeline will be laid at depth of greater than 1.8m.
- (iv) Wherever open trenching at service road is carried out, backfilling will be done by sand followed by restoration of service road by DBM+BC/PQC.
- (v) Open trenching would be allowed in stages of 100m only. Subsequent to restoration of this 100m length, next section of open trenching will be done.
- (vi) Further, traffic diversion will be managed by State Authorities and GAIL (India) Ltd. as discussed during DM, Haridwar meeting on 25.08.2022.



राघव त्रिपाठी / Raghav Tripathi  
उप प्रबंधक (तक0) / Dy.M(Tech)  
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण  
National Highway Authority of India  
पी0आई0यू0-रूड़की / PIU-Roorkee

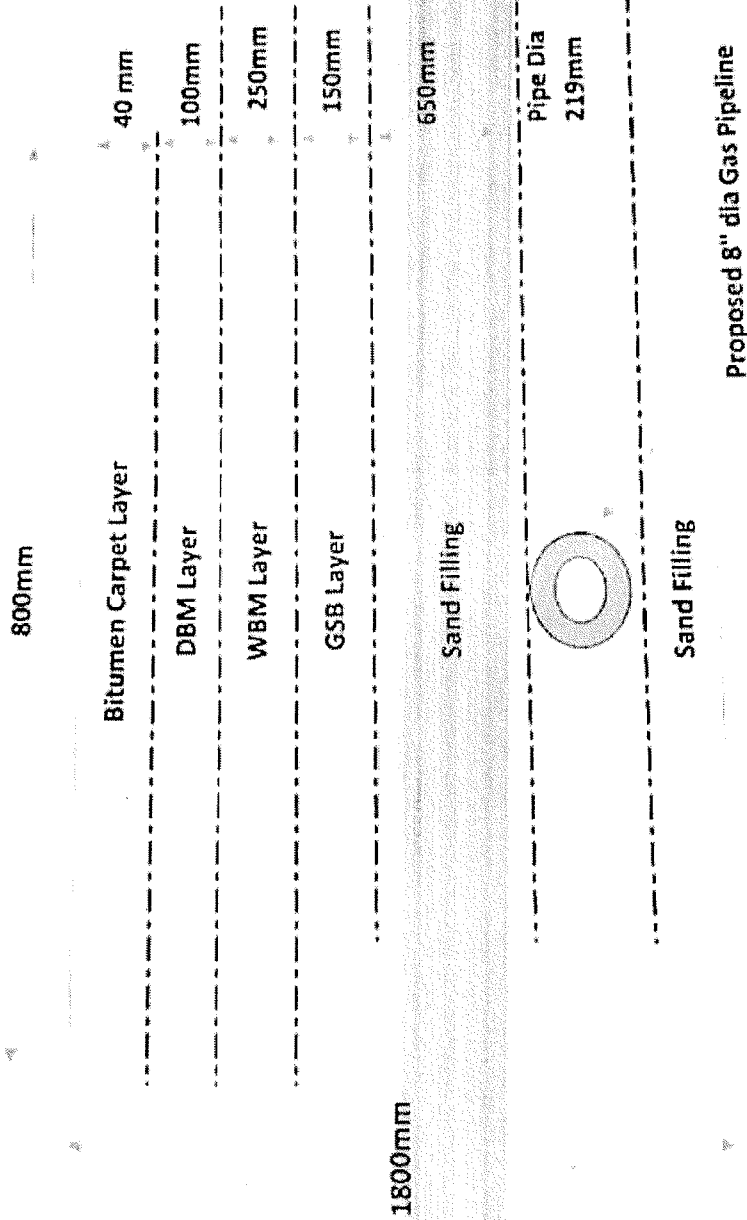


प्रदीप सिंह गुसाईं / Pradeep Singh Gusain  
परियोजना निदेशक / Project Director  
भारतीय राष्ट्रीय राजमार्ग प्राधिकरण  
National Highway Authority of India  
पी0आई0यू0-रूड़की / PIU-Roorkee

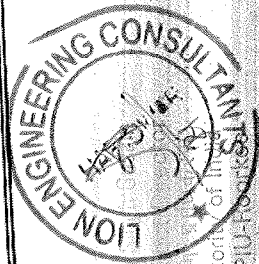


# **Project Name:- Haridwar Rishikesh Dehradun Gas Pipeline Project**

Cross Sectional view of Road Restoration Work at Proposed Open cut locations



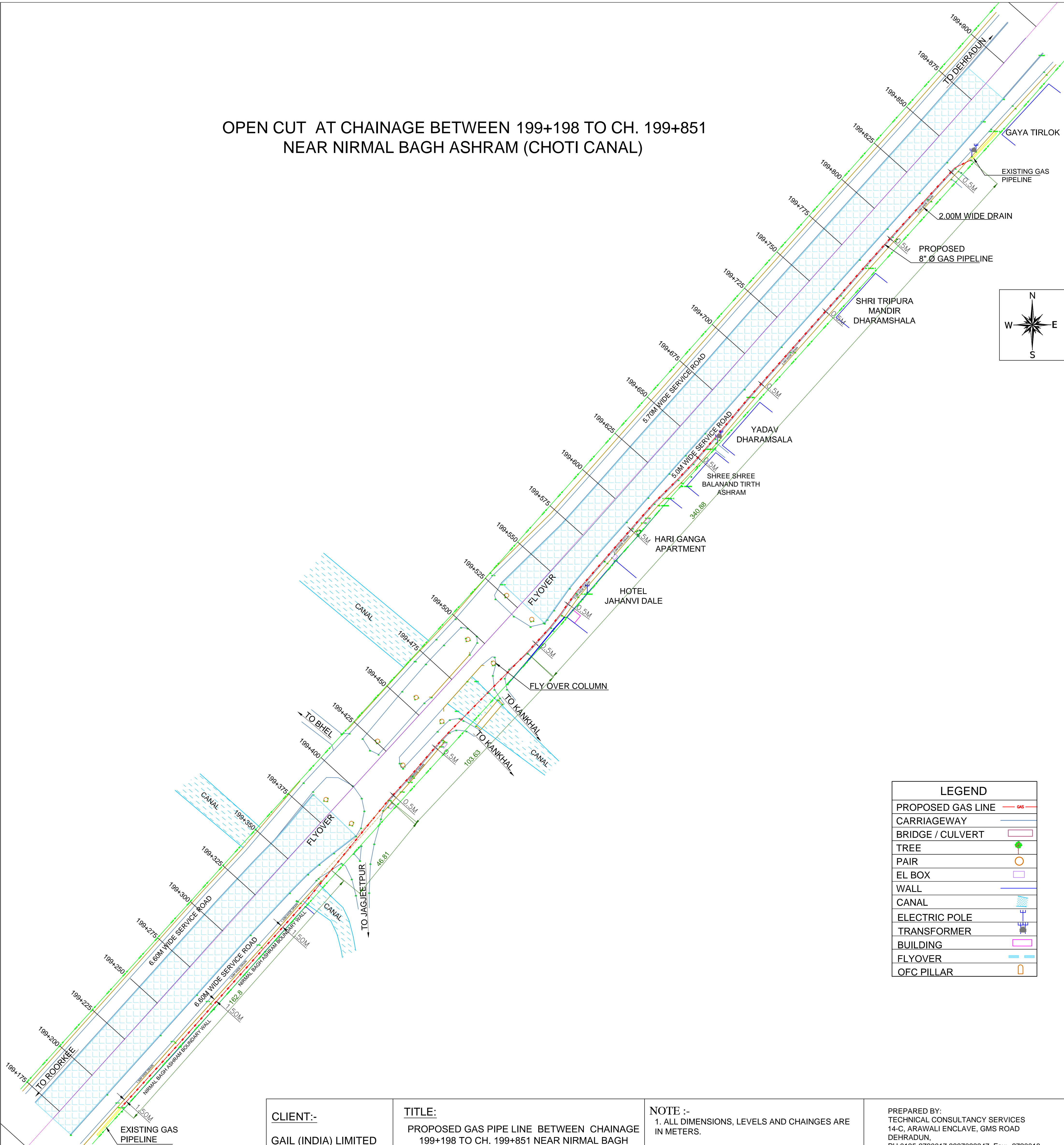
राज्जीव चैन (Rajeev Chai) / RAGHAV  
वरिष्ठ प्रबंधक (PE) / Senior Manager (PE)  
गल (इण्डिया) लिमिटेड (GAL (India) Limited)  
Jubilee Tower, B 35 & 36  
Sector-1 Noida (U.P.) 201301



राज्य विपरीत / Raghav  
उप प्रबंधक (सकल) / Dy  
भारतीय राष्ट्रीय राजमार्ग  
National Highway Authority  
भारतीय राष्ट्रीय राजमार्ग  
National Highway Authority  
भारतीय राष्ट्रीय राजमार्ग  
National Highway Authority



OPEN CUT AT CHAINAGE BETWEEN 199+198 TO CH. 199+851  
NEAR NIRMAL BAGH ASHRAM (CHOTI CANAL)



<b>CLIENT:-</b>  GAIL (INDIA) LIMITED	<b>TITLE:</b> PROPOSED GAS PIPE LINE BETWEEN CHAINAGE 199+198 TO CH. 199+851 NEAR NIRMAL BAGH ASHRAM (CHOTI CANAL) ON NH 58 (NEW NH 34)	<b>NOTE :-</b> 1. ALL DIMENSIONS, LEVELS AND CHAINGES ARE IN METERS. 2. 2. ONLY WRITTEN DIMENSION SHALL BE FOLLOWED. DO NOT SCALE THE DRAWING.	<b>PREPARED BY:</b> TECHNICAL CONSULTANCY SERVICES 14-C, ARAWALI ENCLAVE, GMS ROAD DEHRADUN, PH:0135-2720017,9997093347, Fax:- 2720018 E-Mail: tcsdoon@gmail.com/tcsdoon@yahoo.com
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