



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय)

**National Highways Authority of India**

(Ministry of Road Transport & Highways)

कार्यालय क्षेत्रीय अधिकारी, आंध्रप्रदेश क्षेत्र

**Office of the Regional Officer, Andhra Pradesh Region**

प्लॉट.क.२१, टीचर्स कॉलोनी, गुरुनानक नगर मार्ग, विजयवाड़ा-५२० ००८. आंध्रप्रदेश

Plot No. 21, Teachers' Colony, Gurunanak Nagar Road, Vijayawada-520 008. A.P.

दूरभाष / Tele : 0866-2483910

ई-मेल / E-mail : rovijayawada@nhai.org

nhairovja@gmail.com



**भारतमाला**  
प्रगति के पथ पर अग्रसर  
**BHARATMALA**  
ROAD TO PROSPERITY

Ref.No. NHAI/RO-VJA/12033-23/GAIL-988+832/NOC/2021-22/ 1246 Dt.09.06.2021

**INVITATION OF PUBLIC COMMENTS**


**Sub: RO - Vijayawada** - Grant of permission for laying 18" dia Natural Gas Pipeline by M/s. GAIL (India) Limited along with 6" dia OFC from Mortha to Tadepalli across National Highway NH-216A at Km.988+832 for a total length of 184m (92m x 2) at Kunchepalli Village of Tadepalligudem Mandal, West Godavari District in the State of Andhra Pradesh - **Public comments** - Reg.

The Project Director, PIU - Rajamahendravaram submitted a proposal of GAIL (India) Ltd. for laying of 18" dia Natural Gas Pipeline by M/s. GAIL (India) Limited along with 6" dia OFC from Mortha to Tadepalli across National Highway NH-216A at Km.988+832 for a total length of 184m (92m x 2) at Kunchepalli Village of Tadepalligudem Mandal, West Godavari District in the State of Andhra Pradesh.

As per MORTH guidelines vide letter No. RW/NH-33044/29/2015/S&R® dated 22<sup>nd</sup> November 2016, the Highway Administration will put out the application in the Ministry's website for 30 days seeking claims and objections (on grounds of public inconvenience, safety and general public interest).

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

**Regional Officer - Vijayawada,**  
**National Highways Authority of India,**  
**Plot No.21, Teachers' Colony, Gurunanak Nagar Road,**  
**Vijayawada, Andhra Pradesh. Pin: 520 008.**  
**Email: [rovijayawada@nhai.org](mailto:rovijayawada@nhai.org)**

  
**(R.K. Singh),**  
**Regional Officer**  
**RO - Vijayawada**



# भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय)

## National Highways Authority of India

(Ministry of Road Transport & Highways)

परियोजना कार्यान्वयन इकाई - PROJECT IMPLEMENTATION UNIT

टोयोटा बोरूम के बाजू, राजमार्ग 216ए, दिवान चेरुवु,  
राजमहेंद्रवरम - 533 102. आ.प्र.

Adjacent to Toyota Showroom, NH-216A, Diwancheruvu,  
Rajamahendravaram, Andhra Pradesh 533102.



भारतमाला  
प्रगति के पथ पर अग्रसर  
BHARATMALA  
ROAD TO PROSPERITY

दूरभाष / Phone: 0883 - 2431170

0883 - 2437832

ई-मेल / e-mail : raj@nhai.org

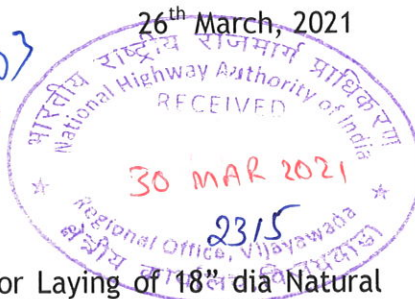
piurajahmundry@gmail.com

No: NHAI/PIU-RJY/GAIL-130m/2020/ 26725

26<sup>th</sup> March, 2021

To:

The Regional Officer,  
National Highways Authority of India,  
Regional Office, 21, Teachers' Colony,  
Gurunanak Nagar Road, Vijayawada-520 008.



Sub: NHAI, PIU, Rajamahendravaram - Permission for Laying of 18" dia Natural Gas Pipeline and 6" OFC from Mortha to Tadepalli across National Highway NH-16 (New NH-216A) at Km. 988.832 for a length of 184m (92m x 2) i.e., at Kunchenapalli Village of Tadepalligudem Mandal, West Godavari in the State of Andhra Pradesh through HDD Method as a part of PRP Phase - III Jobs - Proposal submitted - Certain observations - Compliance Report - Submitted - Approval - Reg.

Ref: 1. This office letter No. NHAI/PIU-RJY/GAIL-130m/2020/26050 Dt. 08.10.2020.  
2. RO, NHAI, Vijayawada Letter No. NHAI/RO-VJA/12033-23/2020-21/1349 Dt. 28.10.2020.  
3. Letter No. GAIL/KGB/CONST/PRP-III/NH/2021 Dt. 12.03.2021 of M/s. GAIL (I) Ltd., Rajamahendravaram.

Sir,

- In the reference 2<sup>nd</sup> cited, RO, NHAI, Vijayawada made certain observations on the recommendations submitted by this office vide reference 1<sup>st</sup> cited on the subject proposal.
- In this regard, the Agency, M/s. GAIL (I) Ltd., Rajamahendravaram vide reference 3<sup>rd</sup> cited submitted the Compliance Report on the observations made, the details are as below.

S. No.	Observations	Reply
(i)	The proposal has been signed by Shri M. Naga Sarath Chandra, Chief Manager (Construction), GAIL (India) Ltd., Rajahmundry. However, Power of Attorney in favour of Shri M. Naga Sarath Chandra for signing the proposal has not been submitted.	Copy of the Authorization Dt. 12.03.2021 issued by Shri. K.V.S. Rao, GM (O&M) & Officer-In-charge in the name of Shri M. Naga Sarath Chandra, was submitted by M/s. GAIL (India) Ltd., and the same is herewith enclosed.
(ii)	Grant of Authorization to the proposed Gas pipeline issued by Petroleum and Natural Gas Regulatory Board is not enclosed along with the proposal.	It was informed by M/s. GAIL (India) Ltd., that Mortha - Tadepalli pipeline section is a part of 18" Tatipaka - Kondepalli (Lanco) Pipeline which was commissioned in the year Jan-2002 (PESO approval enclosed) before the formation of PNGRB (Year-2006).

Building a Nation, Not Just Roads

निगमित कार्यालय जी-5 एवं 6, सेक्टर-10, द्वारका, नई दिल्ली - 110 075, वेब साइट : <http://www.nhai.org>

Corporate Office : G-5 & 6, Sector-10, Dwarka, NEW DELHI - 110 075, Website : <http://www.nhai.org>

26/3/21

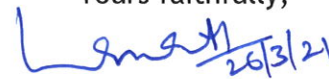


S. No.	Observations	Reply
		<p>The new 18" Mortha – Tadepalli Pipeline section laying is a replacement project and the existing 18" old pipeline section from Mortha – Tadepalli shall be abandoned once the replacement project is commissioned.</p> <p>Copy of permission for commissioning of 18" x 201 Kms., Natural Gas Pipeline from Tatipaka to Kondapalli (Lanco Kondapalli Pipeline Project) issued by Petroleum and Natural Gas Regulatory Board was submitted by M/s. GAIL (India) Ltd., and the same is herewith enclosed.</p>

- 2 In view of the above, approval of the Competent Authority may be accorded to the proposal submitted by M/s. GAIL (I) Ltd., Rajamahendravaram, seeking permission for Laying of 18" dia Natural Gas Pipeline and 6" OFC from Mortha to Tadepalli across National Highway NH-16 (New NH-216A) at Km. 988.832 for a length of 184m (92m x 2) at Kunchenapalli Village of Tadepalligudem Mandal, West Godavari in the State of Andhra Pradesh through HDD Method as a part of PRP Phase - III Jobs, as per the Revised MORT&H Circular / Guidelines Dt. 22.11.2016 and also as per the Revised Check List issued by MORT&H, Vijayawada Dt. 13.04.2017.

Thanking you,

Yours faithfully,

  
(D. Surendra Nath)  
Project Director

Encl: Copy of Reference Letter 3<sup>rd</sup> cited along with enclosures.



**गैल (इंडिया) लिमिटेड**

(भारत सरकार का उपक्रम - महारत्न कंपनी)

**GAIL (India) Limited**

(A Government of India Undertaking - A Maharatna Company)

**GAIL/KGB/CONST/PRP-III/NH/2021**

**To,**

The Project Director,  
National Highways Authority of India,  
PIU, Rajahmundry,  
Andhra Pradesh.

**Sub.:** Permission for laying of GAIL's 18" dia Natural Gas Pipeline along with OFC from Mortha to Tadepalli across National Highway NH-16(216A) through HDD method as a part of PRP Phase-III Jobs at Km 988.832 & Km 987.700

Ref: Your letter no. 1) NHAI/PIU-RJY/GAIL-PLC/2020/26168 dtd 10.11.2020  
2) NHAI/PIU-RJY/GAIL-PLC/2020/26169 dtd 10.11.2020

Dear Sir,

With reference to the above, it is to inform the following

1. The authorization dtd 04.09.2020 was already submitted along with the proposal. However, as GAIL - OIC has been changed, the new authorization is re-submitted.
2. Mortha - Tadepalli pipeline section is a part of 18" Tatipaka - Kondapalli (Lanco) Pipeline which was commissioned in the year Jan-2002 (PESO approval enclosed) before the formation of PNGRB (Year -2006).

The new 18" Mortha - Tadepalli Pipeline section laying is a replacement project and the existing 18" old pipeline section from Mortha - Tadepalli shall be abandoned once the replacement project is commissioned.

You are requested to grant permission for laying of the Pipeline along with OFC across NH-16(216A) at the earliest. Your early action in this regard is highly solicited.

Thanking You,

Yours Truly,

*M. N. Sarath Chandra*

**M. N. Sarath Chandra**  
Chief Manager (Const.)

**Encl.:-** As above

**Copy to :** 1) GM(O&M)/OIC, GAIL - Rajahmundry

पंजीकृत कार्यालय :  
16 भीकाएजी कामा प्लेस  
आर के पुरम  
नई दिल्ली-110066

REGD OFFICE :  
16, BHAIKAIJI CAMA PALACE

सीआईएन/CIN  
L40200DL1984GOI018976

www.gailonline.com

INWARD			
No:	57170		
Date:	12/03/2021		
Time:	4:40 PM		
PR:	MT		
PA:	IS		
MOU:	SE 1/II		
NHAI, PIU, RAJAHMUNDRAVARAM			

"गैल भवन" ए.वी. अप्पराव मार्ग  
राजमंड्री - 533 103  
जिला - पूर्व गोदावरी, आंध्र.

"GAIL BHAVAN", A.V. APPARAO ROAD  
RAJAHMUNDRI - 533 103  
DIST. - EAST GODAVARI A.P.

फोन नं./PHONE : +91 883 - 2400720-22

फैक्स/FAX : +91 11 26185941

**Date: 12.03.2021**

*12/3/21*

कार्यालयीन उद्देश्य के सभी पत्रादि "मुख्य विस्फोटक निरीक्षक" के पदनाम से भेजे जाएं, किसीके व्यक्तिगत नाम से नहीं।

All communication intended for the office should be addressed to the "Chief Controller of Explosives" and NOT by name.



भारत सरकार

GOVERNMENT OF INDIA

उद्योग एवं वाणिज्य मंत्रालय

MINISTRY OF COMMERCE & INDUSTRY

विस्फोटक विभाग

DEPARTMENT OF EXPLOSIVES

संख्या/No. :

P-2(4)403

दिनांक / Date :

18.01.2002

To,

M/s. Gas Authority of India Ltd.,  
(A Govt. of India Undertaking)  
B-34,36, Sector -I,  
Noida - 201 301.

JP  
18.01.02

Sub:- Permission for Commissioning of 18" x 201 Kms. Natural Gas Pipeline from Tatipaka to Kondapalle (Lanco Kondapalle pipeline project).

Dear Sir,

Please refer to letter No. GAIL/NOIDA/PROJ (Gas P/L)Lanco/018/2002/868 dated 16.01.2002.

Since the successful testing of the pipeline was carried out by M/s. EIL after completing the pipeline work as per approval accorded vide this office letter of even number dated 25.09.2001 this department therefore permits you to commission the subject pipeline

Yours faithfully

( R.H. BEALEKAR )  
Chief Controller of Explosives

Copy to the St. Chief Controller of Explosives, South Circle, Chennai.

Chief Controller of Explosives





# भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय)

## National Highways Authority of India

(Ministry of Road Transport & Highways)

परियोजना कार्यान्वयन इकाई - PROJECT IMPLEMENTATION UNIT

डोर नं. 78-14-21, श्यामला नगर, राजमहेन्द्रवरम - 533 103. आ.प्र.

Door No. : 78-14-21, Shyamala Nagar, RAJAMAHENDRAVARAM - 533 103, A.P.



भारतमाला  
प्रगति के पथ पर अग्रसर  
BHARATMALA  
ROAD TO PROSPERITY

दूरभाष / Phone: 0883 - 2431170

0883 - 2437832

ई-मेल / e-mail : raj@nhai.org

piurajahmundry@gmail.com

No: NHA/PIU-RJY/GAIL-184m/2020/ 26050

08<sup>th</sup> October, 2020

To:

The Regional Officer,  
National Highways Authority of India,  
Regional Office, 21, Teachers' Colony,  
Gurunanak Nagar Road, Vijayawada-520 008.



Sub: NHA, PIU, Rajamahendravaram - Permission for Laying of 18" dia Natural Gas Pipeline and 6" OFC from Mortha to Tadepalli across National Highway NH-16 (New NH-216A) at Km. 988.832 for a length of 184m (92m x 2) i.e., at Kunchenapalli Village of Tadepalligudem Mandal, West Godavari in the State of Andhra Pradesh through HDD Method as a part of PRP Phase - III Jobs - Submission of proposal for approval - Requested - Reg.

Ref: 1. Letter No. NIL Dt. 21.09.2020 of M/s. GAIL (I) Ltd., Rajamahendravaram.  
2. IE, M/s. Aarvee Associates Letter No. AA/TL/TOT/NHA/20-21/490 Dt. 24.09.2020.

Sir,

1. It is to submit that M/s. GAIL (I) Ltd., Rajamahendravaram vide reference 1<sup>st</sup> cited submitted a proposal seeking permission for Laying of 18" dia Natural Gas Pipeline and 6" OFC from Mortha to Tadepalli across National Highway NH-16 (New NH-216A) at Km. 988.832 for a length of 184m (92m x 2) at Kunchenapalli Village of Tadepalligudem Mandal, West Godavari in the State of Andhra Pradesh through HDD Method as a part of PRP Phase - III Jobs, as per the Revised MORT&H Circular / Guidelines Dt. 22.11.2016 and also as per the Revised Check List issued by MORT&H, Vijayawada Dt. 13.04.2017.
2. As per the above Revised Circular Guidelines, the Agency has agreed to submit Performance Bank Guarantee and also submitted an undertaking duly stating that they will submit Performance Bank Guarantee as demanded by NHA.
3. The above proposal has been forwarded to the TL, M/s. Aarvee Associates for verification and feasibility report. Accordingly, the Consultants vide reference 2<sup>nd</sup> cited recommended the same duly stating that the submitted drawings and documents are found in order. A copy of the report submitted by the IE is enclosed for ready reference.
4. The proposal has been verified by the Undersigned as per the MORT&H revised Circular / Guidelines Dt. 22.11.2016 and also as per the Revised Check Lit issued by the MORT&H, Vijayawada Dt. 13.04.2017 and found in order.

on file  
Jha  
19/10  
P. K. S.

28/10/2020

Building a Nation, Not Just Roads

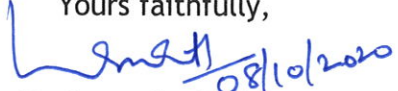
निगमित कार्यालय जी-5 एवं 6, सेक्टर-10, द्वारका, नई दिल्ली - 110 075, वेब साइट : <http://www.nhai.org>

Corporate Office : G-5 & 6, Sector-10, Dwarka, NEW DELHI - 110 075, Website : <http://www.nhai.org>

5. The Certificate in the prescribed format as per the MORTH Guidelines Dt. 22.11.2016 is enclosed herewith.
6. The Licence Fee for a total length of 184meters (55.2 Sq.ms) is worked out as Rs. 4,950/- for a period of Five (5) Years @ 33% (under category Public Utilities). The Specification Report along with Calculation Sheet is enclosed herewith.
7. The proposal submitted by the Agency is herewith submitted along with the following:

(1) Proposal along with enclosures	(2) Check List
(3) License Deed.	(4) Undertakings
(5) Methodology	(6) Diagrams
8. With the above, the proposal submitted by M/s. GAIL (I) Ltd., Rajamahendravaram, seeking permission for Laying of 18" dia Natural Gas Pipeline and 6" OFC from Mortha to Tadepalli across National Highway NH-16 (New NH-216A) at Km. 988.832 for a length of 184m (92m x 2) at Kunchenapalli Village of Tadepalligudem Mandal, West Godavari in the State of Andhra Pradesh through HDD Method as a part of PRP Phase - III Jobs, as per the Revised MORT&H Circular / Guidelines Dt. 22.11.2016 and also as per the Revised Check List issued by MORT&H, Vijayawada Dt. 13.04.2017 is herewith recommended for favourable consideration and according necessary approval.

Thanking you,

Yours faithfully,  
  
(D. Surendra Nath)  
Project Director

Encl: 2 files (1 Original +1 Duplicate)

## CERTIFICATE

1. Undersigned has examined the proposal of the applicant for Laying of 18" dia Natural Gas Pipeline and 6" OFC from Mortha to Tadepalli across National Highway NH-16 (New NH-216A) at Km. 988.832 for a length of 184m (92m x 2) at Kunchenapalli Village of Tadepalligudem Mandal, West Godavari in the State of Andhra Pradesh through HDD Method as a part of PRP Phase - III Jobs and confirm that all the standard conditions issued vide Ministry Circular No. RW/NH-33044/29/2015/S&(R) Dt. 22.11.2016 has been followed.
2. It is certified that any other location of utility line would be extremely difficult and unreasonable, costly and installation of utility line within ROW will not adversely affect the design, stability & traffic safety of the highway nor the likely future improvement such as widening of the carriageway easing of curve etc.
3. I will ensure through the Independent Engineer for the project for supervision of the work of laying of utility and ensure that the defects in road portion after laying of utility are corrected.
4. I will notify / forfeit the BG for claims for damages done / disruption in working, if any.
5. I will ensure that proposed permission is entered in the Register of Records.
6. The record of previous approval, if any has been considered and copy of the same is enclosed with the proposal.



(D. Surendra Nath)  
Project Director  
NHAI, PIU, Rajamahendravaram



# **LICENSE FEE ESTIMATE**

<u>Name of work:</u>	Towards license for Laying of 18" dia Natural Gas Pipeline and 6" OFC from Mortha to Tadepalli across National Highway NH-16 (New NH-216A) at Km. 988.832 for a length of 184m (92m x 2) i.e., at Kunchenapalli Village of Tadepalligudem Mandal, West Godavari in the State of Andhra Pradesh by M/S GAIL (I) Ltd., Rajamahendravaram.											
	Estimate - A											
	License Fee Charges											
	S.No	Description	No	Measurements			Quantity	Rate	Per	Amount		
1	2	3	L	B	D	Sqm	per sq.m					
			4	5	6	7	8	9	10			
1	18" Natural Gas Pipeline Across the Road at Km. 988.832	1	92.000	0.45	-	41.4	543.6313586	Sqm	22506			
2	6" OFC Across the Road at Km. 988.832	1	92.000	0.15	-	13.8	543.6313586	Sqm	7502			
									30008			
			License Fee (Rs/sqm/month) = $\frac{30008}{10 \times 12}$			250						
			License fee for 5 years= 5 X 12 X 250				15000					
			TOTAL				15000					
The License fee for public utilities shall be 33% of the fee prescribed for industrial utilities as point No.5 of MORTH guidelines vide letter Letter No. RW/NH/-33044/29/2015/SR dated 22nd NOV,2016										4950		

*[Signature]*

Project Director  
NHAI, PIU  
Rajamahendravaram

## SPECIFICATION REPORT

Specification report to accompain the estimate towards " License Fee" for Laying of 18" dia Natural Gas Pipeline and 6" OFC from Mortha to Tadepalli across National Highway NH-16 (New NH-216A) at Km. 988.832 for a length of 184m (92m x 2) i.e., at Kunchenapalli Village of Tadepalligudem Mandal, West Godavari in the State of Andhra Pradesh by M/S GAIL (I) Ltd., Rajamahendravaram.

Estimate Amount: 4950.00

The Sr. Manager (Construction), M/s. GAIL (I) Ltd., Rajahmundry vide his letter No. NIL Dt. 24.02.2020 have requested to issue permission for Laying of 18" dia Natural Gas Pipeline and 6" OFC from Mortha to Tadepalli across National Highway NH-16 (New NH-216A) at Km. 988.832 for a length of 184m (92m x 2) i.e., at Kunchenapalli Village of Tadepalligudem Mandal, West Godavari in the State of Andhra Pradesh

The rate of Land abutting NH / SH / ZPP / MPP obtained from the website of registration and stamp department , Government of Andra Pradesh is used for calculation of the License fee.The list of villages falling in the proposed stretch of road, corresponding chainages and breakup of village wise land rates are as follows.

S.no	Name of the village	Chainage (KMR)		Length (Km)	Rate of of Land Abutting NH	
		From	To		per Acre	per.Sq.m
1	Across the Road	988.832		0.184	2200000	543.6313586

The land rate corresponding to the chainage is used for calculation of license fee.

Hence the License Fee estimate is prepared as per MoRTH Circular Memo No. RW/NH/33044/29/2015/S&R(R) ,dated 22nd NOV,2016.

  
08/10/2020

Project Director,  
NHAI, PIU  
Rajamahendravaram



## CHECK - LIST

Guidelines for Project Director for processing the proposal for laying 18" Natural Gas Pipeline and 6" OFC Line in the land across National Highway -16(216A) vested with NHAI, Rajahmundry.

- Relevant circulars of Ministry of Road Transport and Highways:
  1. Circular No. RW/NH-33044/29/2015/S&R (R) dated 22.11.2016

Check list for getting approval for laying Gail India Limited Mortha-Tadepalli 18" Natural Gas Pipeline and 6" OFC Line across National Highway -16(216A).

Sr. No.	Item	Information / Status	Remarks
1	General Information	Laying pipeline across NH-16(216A) (Badampudi - Tanuku)	
1.1	Name and Address of the Applicant/Agency	Gail India Limited Gail Bhavan A.V. Apparao road Rajahmundry-533103 East Godavari Dist. Phone: +91883-2400720-22 Fax: +911126185941	
1.2	National Highway Number	NH-16(216A)	
1.3	State	Andhra Pradesh	
1.4	Location	Kunchanapalle	
1.5	(Chainage in km)	988.832 Kms	
1.6	Length in Meters	2X92m	
1.7	Width of available ROW	64 m	
	(a) Left side from center line towards increasing chainage/ km direction	988.800km (35m)	
	(b) Right side from center line towards increasing chainage/ km direction	988.865km (31m)	
1.8	Proposal to lay underground Natural Gas Product pipe	NA	
	(a) Left side from center line towards increasing chainage/ km direction	NA	
	(b) Right side from center line towards increasing chainage/ km direction	NA	
1.9	Proposal to acquire land		
	(a) Left side from center line	NA	
	(b) Right side from center line	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	
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).	4 Lanes	
1.13	Proposed Number of lanes (2 lanes with paved shoulders/4 / 6/8 lanes)	NA	
1.14	Service road existing or not	NO	

**Project Director**  
**NHAI-PIU**  
**RAJAMAHENDRAVARAM**

**M. NAGA SARATH CHANDRA**, Ch. Manager (Construction)  
सम. नाग शरत चंद्रा, मुख्य प्रबंधक (निर्माण)  
GAIL (India) Ltd., A.V.A. Road, Rajahmundry-3, A.P.  
गैल (इंडिया) लिमिटेड, ए.वी.ए. रोड, राजमहेंद्रपुर.

	If yes then which side		
	(a) Left side from center line		
	(b) Right side from center line		
1.15	Proposed Service road	NO	
	(a) Left side from center line		
	(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.	NA	
1.17	Whether carrying of sewages /gas pipeline has been proposed on highway Bridges If Yes then mention the methodology proposed for the same.	NO	
1.18	Whether carrying of sewages /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	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	Yes	
	(a)Whether existing drainage structures are allowed to carry utility pipe line	NA	
	(b) Is it on a line normal to NHAI	NA	
	(c) What is the distance of crossings the utility pipelines from the existing structures. Crossings shall not be too near the existing structures on the National Highway. The minimum distance being 15meter	NO	
	(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 Mention type of casing.	Crossings is done through HDD Method	
	(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 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. Mention the proposed details.	Yes (Below the NGL 5.0m )	
	(h) Mention the methodology proposed for crossing of road for the proposed Sewage/gas pipeline. Crossing shall be by boring method (HDD) (Trench less Technology) Specially. Where the existing road pavement is of cement concrete or dense bituminous concrete type.	The pipeline will be laid by Horizontal Directional Drilling (HDD)Method which is trenchless method.	

M.NAGA SARATH CHANDRA, Ch.Manager (Construction)

एम. नाग शरत चंद्रा, मुख्य प्रबंधक (निर्माण)

2 GAIL (India) Ltd., A.V.A. Road, Rajahmundry-3, A.P.

गैल (इंडिया) लिमिटेड, ए.वी.ए. रोड, राजमहेंद्रावरम-३, ए.पी.

Project Director

NHAI-PIU

RAJAMAHENDRAVARAM



	(i)The casing /conduit pipe shall be installed with an even bearing throughout its length and in such a manner as to prevent the information of a waterway along it.	NA	
2	<b>Document /Drawings to be enclosed with the proposal.</b>		
2.1	Cross section showing the size of trench for open trenching method (Is its normal size of 1.2m deep X 0.3m wide) (i)Should not be greater than 60 cm in 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 meters from the center – lined 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 have laid over the existing culverts and bridges. (iv)These should be so laid that their top is at least 0.6meter 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 cable for HDD method.	NA	
2.3	Strip plan/ Route Plan showing the pipe line, Chainage. width of ROW, distance of proposed, pipe line from the edge of ROW, important mile stone, intersections, cross drainage works etc.	Enclosed	
2.4	Methodology for laying of Gas product 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 trench.	N/A	
	(a)The trench width should be at least 30 Cm. but not more than 60cm wider than the outer diameter of the pipe	N/A	
	(b)For filling of 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 sill and rock edged should be excavated and replaced by selected material.	N/A	
	(c)The back fill 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.	N/A	
	(d)The side –fill shall consist of granular material laid in 15 cm layers each consolidated by mechanical tampering and controlled addition of moisture to 95% of the proctor's density, Overfill shall be compacted to the same density. Overfill	N/A	

Project Director  
NHAI-PIU

RAJAMAHENDRAVARAM

M. NAGASAKATH CHANDRA, Ch. Manager (Construction)

एम. नाग शरत चंद्रा, मुख्य प्रबंधक (निर्माण)

GAIL (India) Ltd., A.V.A. Road, Rajahmundry-3, A.P.

गैल (इंडिया) लिमिटेड, ए.वी.ए. रोड, राजमंड्री.

	shall be compacted to the same density as the material that had been removed. Consolidation by saturation or ponding will not be permitted.		
	(e)The road crust shall be built to the same strength as the existing crust on either side of the stretch care shall be taken to avoid the formation of a dip at the trench.	N/A	
	(f)The excavation shall be protected by flagman. Signs and barricades, and real lights during night hours.	N/A	
	(g)If required a diversion shall be constructed at the expense of agency owning the utility line.	N/A	
2.4.2	Horizontal Directional Drilling (HDD) Method	Yes	
2.4.3	Methodology for Laying of Petroleum product Pipe Line through CD works and method of laying. In cases where the carrying of pipe line on the bridge becomes inescapable.	N/A	-
3	Draft License Agreement signed by two witnesses	Enclosed	
3.1	The licensee fee estimates as per Ministry's guidelines issued vide circular No.RW/NH-33044/29/2015/S&R(R) dated 22.11.2016.	Gail Gas Pipeline agrees for the same as per requirement of NHAI	
4	Whether Performance Bank Guarantee as per Ministry's Circular no.RW.NH-33044/29/2015/S&(R) Dated 22.11.2016 is obtained	Gail Gas Pipeline agrees for the same as per requirement of NHAI	
4.1	Confirmation of BG has been obtained or not as per the MORTH/NHAI guidelines.	Gail Gas Pipeline agrees for the same as per requirement of NHAI	
5	Affidavit / Undertaking from the Applicant for the following is to be furnished	Enclosed	
5.1	Undertaking for Not to Damage to 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.	Will be done if necessary	
5.3	Undertaking for Confirming all standard condition of Ministry Circulars and NHAI's guidelines.	Yes	
5.4	Undertaking for indemnity against all damages and claims	Yes	
5.5	Undertaking for management of traffic movement during laying utility line without hampering the traffic.	Yes	
5.6	Undertaking that If any claim is raised by the Concessionaire then the same has to be paid by the applicant.	Yes	
5.7	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-way.	Yes	
5.8	Undertaking that expenditure. If any. incurred by NHAI for repairing any damage caused to the	Yes	

U. NAGARATH CHANDRA, Ch. Manager (Construction)

GAIL (India) Ltd., A.V.A. Road, Rajahmundry-3, A.P.

गेल (इंडिया) लिमिटेड, ए.वी.ए. रोड, राजमंड्री.

Project Director  
NHAI-PIO

RAJAMAHENDRAVARAM



	National Highway by the laying, maintenance or shifting of the utility line will be borne by the applicant agency owning the line.		
5.9	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 22.11.2016.	Yes	
5.10	Undertaking that the applicant has obtained various safety clearances from the representative authorities. Chief controller of Explosives. Petroleum and Explosive Safety Organization Industry Safety Directorate's/Central pollution control Board and any other authority clearance's applicable. before applying to Highway Administration	NA	
5.11	If 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 MoRTH/NHAI at the cost of the agency owning the utility line within a reasonable time (not exceeding 60 days) of the intimation given.	Yes	
5.12	Certificate from the applicant in the following format (i)Laying of Gas pipe line 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 granted within such time as will be stipulated by NHAI" for future six-lanning or any other development.	Yes	
6	Who will sign the agreement on behalf of Gas pipe line agency?	Chf. Manager (const.), Gail India.	
	Power of Attorney to sign the agreement is available or not	Enclosed	
7.	The Project Director. Will submit the following Certificates.		
7.1	Certificate from the proposal is confirming to all standard conditions issued vide Ministry's Circular No.RW/NH-33044/29/2015/S&R(R) dated 22.11.2016.	Yes	
7.2	Certificate from PD in the following format (i)It is certified that any other location of the Gas 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 not the likely future improvement such as widening of the carriageway. Casing of curve etc.' (ii)for 6-lanning (a) Where feasibility is available "I do certify that there will be no hindrance to	Enclosed	

M.NAGA SARATH CHANDRA, Ch.Manager (Construction)

म. नाग शरत चंद्रा, मुख्य प्रबंधक (निर्माण)


GAIL (India) Ltd., A.V.A. Road, Rajahmundry-3, A.P.

गेल (इंडिया) लिमिटेड, ए.वी.ए. रोड, राजमहेंद्रावरम-3, ए.पी.

	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 in is to be inserted in the agreement. "The permitted Highway on which Licensee has been granted the right to lay petroleum product Pipeline/duct has also been granted as a right of way to the concessionaire under the concession agreement for up-gradation of .....km section from Km..... to Km..... of NH-16(216A) on Build, Operate and Transfer Basis] and therefore, the licensee shall honor the same."	Enclosed	
9.	Who will supervise the work of laying of Gas Pipe Line product pipe line.		
	(a)On behalf of the Applicant	Chef. Manager (Construction) Gail India Limited, Rajahmundry	
	(b)On behalf of MORTH/NHAI	Project Director, NHAI, Rajahmundry.	
10	Who will ensure that the defects in road portion after laying of Petroleum product pipe line are corrected and if not corrected then what action will be taken.		
	(a)On behalf of the Applicant	Chef. Manager (Construction) Gail India Limited, Rajahmundry	
	(b)On behalf of NHAI	Project Director, NHAI, Rajahmundry.	
11	Who will pay the claims for damages done/disruption in working of Concessionaire if asked by the Concessionaire?		
	On behalf of the Applicant	Chef. Manager (Construction) Gail India Limited, Rajahmundry	
12	A certificate from Project Director, NHAI, Rajahmundry that he will enter the proposed permission in the register of records of the permissions in the prescribed Performa (copy enclosed).	Enclosed	
13	If any previous approval is accorded for laying of underground Pipe line then Photocopy of register of records of permissions accorded (as maintained by PD) then copy be enclosed.	N/A	

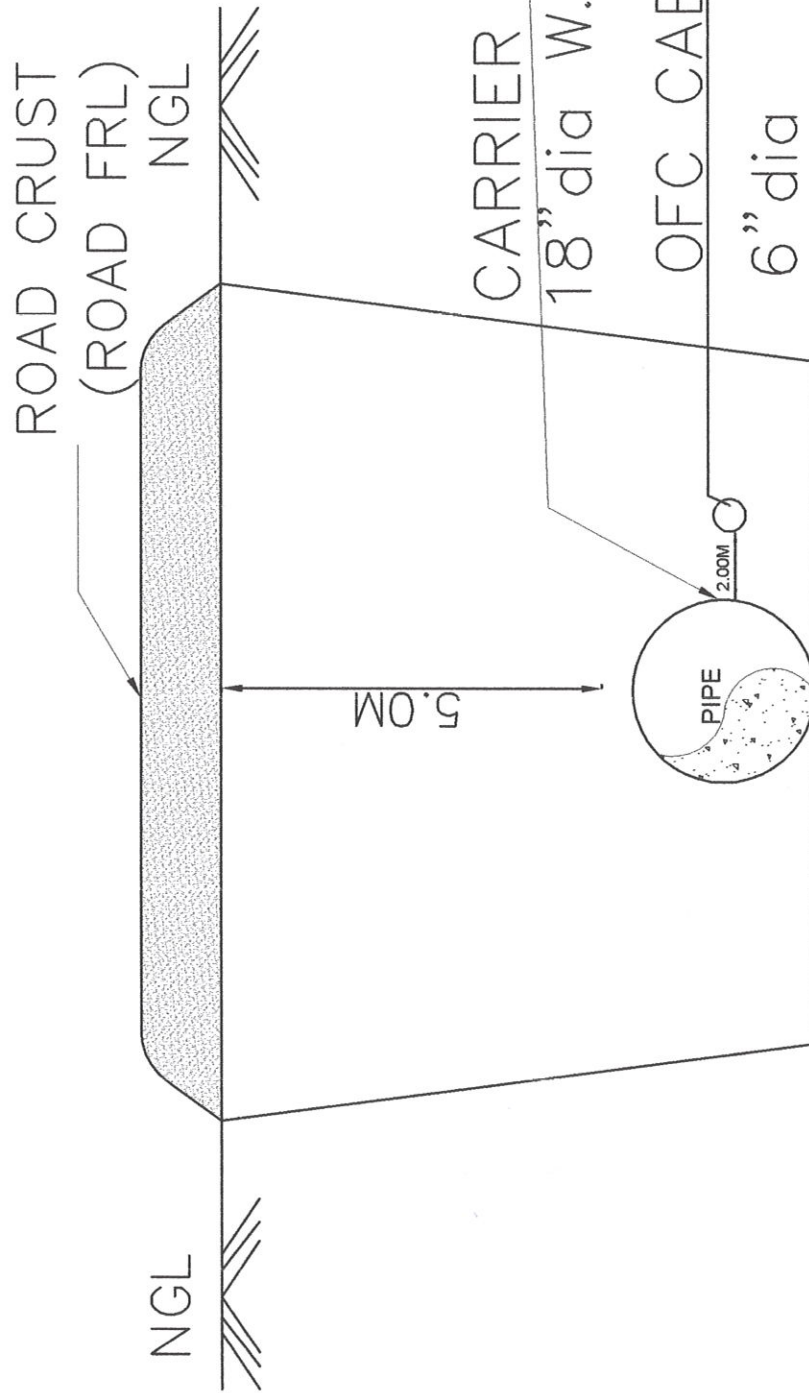
Very truly yours,

  
Project Director  
NHAI-PIU  
RAJAMAHENDRAVARAM

  
(M.N. Sarath Chandra)  
M.NAGA SARATH CHANDRA, Ch.Manager (Construction)  
एम. नाग शरत चंद्रा, मुख्य प्रबंधक (निर्माण)  
GAIL (India) Ltd., A.V.A. Road, Rajahmundry-3, A.P.  
गेल (इंडिया) लिमिटेड, ए.वी.ए. रोड, राजमहेंद्रपुर.




# METHODOLOGY OF CROSSING

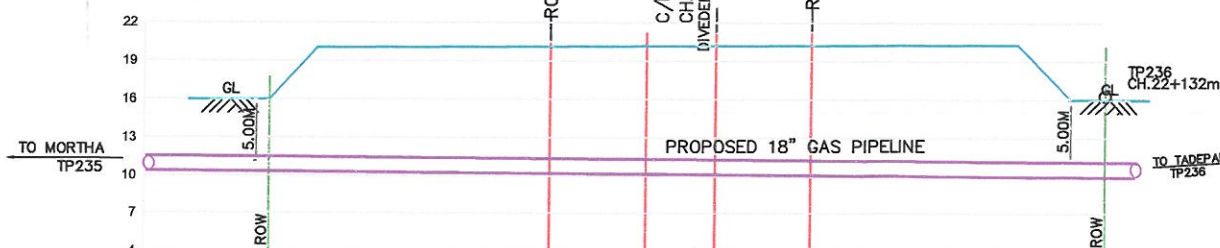


*[Signature]*  
Project Director  
NHAI-PIU  
RAJAMAHENDRAVARAM

*[Signature]*

<p>CLIENT</p> 	<p>GAIL (INDIA) LTD. (A Govt. of India Undertaking) RAJAHMUNDRY</p>
<p>MORTH-TADEPALLI NATURAL GAS PIPELINE NATIONAL HIGHWAY-16(16K) CROSSING AT CHAINAGE- 988.832 KM SECTION - ANDHRA PRADESH</p>	

*[Signature]*  
MANJUNATH CHANDRA, Ch. Manager (Construction)  
युम. नाग शरत चंद्रा, मुख्य प्रबंधक (निर्माण)  
GAIL (India) Ltd., A.V.A. Road Rajahmundry-3, A.P.  
गेल (इंडिया) लिमिटेड, ए.वी.ए. रोड राजहमण्ड्री-3, ए.पी.



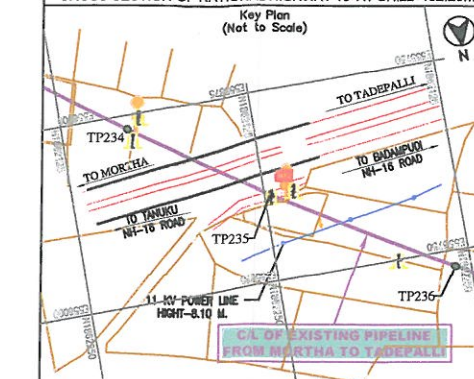
NOTES: -

- 1 ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE MENTIONED.  
2 ALL LEVELS ARE WITH RESPECT TO MEAN SEA LEVEL.

### GROUND PROFILE

REFERENCE DRAWINGS	
DRAWING TITLE	DRAWING NO
ROUTE MAP	GAIL-MSA-DES-MTPL-SHEET-01
ALIGNMENT SHEET	GAIL-MSA-DES-MTPL-ALG-13

CROSS-SECTION OF NATIONAL HIGHWAY-16 AT CH.22+132.20m



Sl No	PARTICULARS	DETAILS
1	Jurisdiction	NATIONAL HIGHWAY AUTHORITY OF INDIA
2	Origin—Destination	BADAMPUDI TO TANUKU
3	Name as per Authority	NATIONAL HIGHWAY-16 (216A)
4	Crossing Chainage as per Authority in 'km'	888.832KM
5	Nearest TP a) Before Crossing b) After Crossing	TP234 TP235
6	Crossing Angle	139°
7	WIDTH OF CROSSING <i>Length</i>	92.00M
8	Village Name & Crossing	KUNCHANAPALLE
9	Contact Person for Obtaining Permission Address & PH.	

**Project Director**  
**NHAI-PIU**  
**RAJAMAHENDRAVARAM**



**GAIL ( India ) LIMITED.**  
(A Govt. of India Undertaking)  
JUBILEE TOWER, 8 & 9 FLOOR, 8TH FLOOR,  
B-35, 36 SECTOR-1, NOIDA 201301, G.B. NAGAR (U.P.) India

**SURVEY AGENCY :**  **M.S.ASSOCIATES**  
(Survey and Engineering Consultancy Services)  
613, Raheja Arcade, Plot no 61 Sector-11 CBD Belapur  
Mob. 9323645092, 9323641397 & 8655599988  
E-mail: msassociatesmumbai@yahoo.com  
M.S.Associates

PROJECT	: SURVEY ARC GAIL 2019 - 2021
---------	-------------------------------

JOB NO.	: GAIL ARC-2019-21 (INT NO.10)	SHEET :	24 OF 25
---------	--------------------------------	---------	----------

DWG. TITLE : CROSS SECTION

SECTION	: EXISTING PIPELINE FROM MORTHA TO TADEPALLI
---------	--

AT	NATIONAL HIGHWAY-16 CROSSING : G CH 22+132 m. Road CH 888 822km
----	--

SCALE	DRAWING NO.	REV.
-------	-------------	------

SCALE	DRAWING NO.	REV.
1:200	GAIL MSA DES MTRL CS 024	04

M.N. NAGA SARATH CHANDRA, Ch. Manager (Construction)  
एम. नाग शरत चंद्रा, मुख्य प्रबंधक (निर्माण)  
GAIL (India) Ltd., A.V.A. Road, Rajahmundry-3, A.I.  
गैल (इंडिया) लिमिटेड, ए.वी.ए. रोड, राजमहमंडी-3, ए.आई.