



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय)

National Highways Authority of India

(Ministry of Road Transport & Highways)

कार्यालय क्षेत्रीय अधिकारी, आंध्र प्रदेश क्षेत्र

Office of the Regional Officer, Andhra Pradesh Region

प्लॉट.क्र.२१, टीचर्स कॉलोनी, गुरुनानक नगर मार्ग, विजयवाड़ा-५२० ००८. आंध्र प्रदेश
Plot No.21, Teacher's Colony, Gurunanak Nagar Road, Vijayawada-520 008. A.P.

टेली / Tele : 0866-2483910

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



भारतमाला
प्रगति के पथ पर अग्रसर
BHARATMALA
ROAD TO PROSPERITY

Lr.No NHAI/RO-VJA/11045/NOC/2020-21/ ०१

Dt.31.12.2020

INVITATION OF PUBLIC COMMENTS

Sub: RO - Vijayawada - Permission for the proposal of M/s. Andhra Pradesh Gas Distribution Corporation Limited, Visakhapatnam for laying 18" dia Natural Gas pipeline along with 6" dia Optical Fibre across NH-16 at Km.717.800 in Anandapuram - Visakhapatnam - Anakapalli Section for the City Gas Distribution of Visakhapatnam in the State of Andhra Pradesh - Public comments - Reg.

The Project Director, PIU - Visakhapatnam submitted a proposal of M/s. Andhra Pradesh Gas Distribution Corporation Limited, Visakhapatnam for laying 18" dia Natural Gas pipeline along with 6" dia Optical Fibre across NH-16 at Km.717.800 in Anandapuram - Visakhapatnam - Anakapalli Section for the City Gas Distribution of Visakhapatnam in the State of Andhra Pradesh.

2. As per MORTH guidelines vide letter No. RW/NH-33044/29/2015/S&R® dated 22nd 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).
3. 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

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



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण National Highways Authority of India

(सड़क परिवहन और राजमार्ग मंत्रालय)

(MINISTRY OF ROAD TRANSPORT & HIGHWAYS)

परियोजना कार्यान्वयन इकाई (जि क्यू), भा.रा.रा.पा. एन्क्लेव, कि.मी. 2/8 रा.रा. 5.,
Project Implementation Unit (GQ), NHAI Enclave, KM 2/8 NH-16

हनुमन्तवाका, विशाखपट्टणम - 530 040, ए.पि., भारत
Hanumanthavaka, Visakhapatnam - 530 040, A.P., India



भारतमाला
प्रगति के पथ पर अग्रसर
BHARATMALA
ROAD TO PROSPERITY

दूरभाष / Phone : 0891-2707600
2714119

फाक्स / Fax No. : 0891-2714118

ई-मेल / E-mail : vis@nhai.org
Date: 07.07.2020

NHAI/PIU-VSP/AFGDC/2019/ 5423

To

The Regional Officer,
National Highways Authority of India,
Regional Office, Gurunarak Nagar,
Teachers Colony,
VIJAYAWADA.

Sub: NHAI - PIU, Visakhapatnam - Permission for laying Application for permission for laying of 12"/8" Natural Gas pipeline along with Optical Fibre for the City Gas Distribution of Visakhapatnam District in the state of Andhra Pradesh - Approval request - Reg. .

Ref: 1. M/s. APGDC Lr No. APGDC/KSPL/TECH/6131-D/2019-20 dated 20.03.2020
2. Lr. No. NHAI/PIU - VSP/Permission-APGDC/2020/5092 Dated: 02.06.2020
3. Lr. No. MSV-Armange/O&M/NHAI-PIU-VSP/AFGDC/Crossing/2019-20/185
Date: 16.06.2020

Sir,

Vide letter 01st cited. M/s APGDC, has applied for Permission for crossing of Kakinada to Srikakulam Natural Gas Pipeline along with OFC duct across NH-16 at Km.717.800

The proposal has been inspected and verified by M/s MSV Armange Consultants and submitted their recommendations vide their letter under 1st reference (copy enclosed) as per the guidelines.

The following documents are submitted by the Agency duly complying provision for access permission for laying of utility services across the National Highways as per circular No.RW/NH-33044/29/2015/S&R(R) dt 22.11.2016

- Proposal letter.
- Check List.
- Licence fee estimate.
- Specification report.
- Licensed lease agreement.
- Undertaking Certificate.
- Certificate.
- Standard Technical Specifications for pipeline crossings using HDD (Horizontal Directional Drilling Method).
- Location plan.
- Typical profile for NH-16 crossing by HDD Method.
- Cadastral Map (Route from Kakinada to Srikakulam via Visakhapatnam section Anakapalli)

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, Dwaraka, NEW DELHI - 110 075, Website : <http://www.nhai.org>

The agency has submitted demand draft bearing No. 345788 dated 29.05.2020 for Rs.1/- drawn in favour of the Project Director, National Highways Authority of India.

In view of the above the proposal submitted by M/s APGDC, for laying of Natural Gas pipeline along with Optical Fibre for the City Gas Distribution is herewith recommended for communicating the approval of Competent Authority.

Encl: Proposal in two sets
(01 Original + 01 Duplicate)

Yours truly,

(P. Siva Sankar)
GM(T) & Project Director

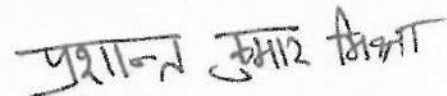
CERTIFICATE

This is to certify that the proposal for for laying 18" dia Natural Gas pipeline along with 6" dia Optical Fibre across NH-16 at Km 717.800 for the city gas distribution of Visakhapatnam in the State of Andhra Pradesh is confirming of all standard conditions issued vide Ministry's guidelines dated 22.11.2016.

It is certified that laying the Natural Gas Pipeline in another location would be extremely difficult and unreasonable costly and the installation of pipeline within ROW will not adversely affect the design, stability & traffic safety of the highway nor the likely future improvement such as widening of the carriageway, easing of curve etc.

It is certified that there will be no hindrance to proposed six-laning based on the feasibility report considering proposed structures at the said location" since the agency shall shift / relocate the utility as per Point No. 21 of the License deed which stipulates that *"The licensee shall shift the Utility services within 90 days (or as specified by the respective authority) from the date of issue of the notice by the concerned authority to shift / relocate the Utility Services, in case it is so required for the purpose of improvement / widening of the road / route / highway or construction of flyover / bridges and restore the road /land to its original conditions at his own cost and risk."*

GM (T) & Project Director



[Prashnt Kumar Mishra]

Dy. Manager (T)



No. APGDC/CROSSINGS/NHAI/VSP/6121D

Date: 17.11.2020

To
The Project Director
National Highway Authority of India,
PIU, NHAI Enclave, KM2/8 NH-16,
Hanumanthavaka,
Visakhapatnam – 530040



Sub: Permission for laying 18" dia Natural Gas Pipeline along with 6" dia Optical Fibre across NH-16 at Km 717.800 for the city gas distribution of Visakhapatnam in the state of Andhra Pradesh – Submission of required documents.

Ref: NHAI/PIU-VSP/Permission-APGDC-717.800/2020/6366 Dated: 11.11.2020.

Dear Sir,

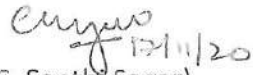
With reference to the letter cited above, we are forwarding herewith the desired documents for processing of our application NH crossing location mentioned in the subject:

1. Permissions obtained from Statutory authorities for laying Pipeline (Copy of the Construction permission received from PESO and copy of Consent Order from APPCB for laying the pipeline from Kakinada to Visakhapatnam is enclosed at Annexure-1)
2. Power of Attorney/Authorization in support of Authorized Signatory (enclosed at Annexure-2)
3. Cross section details showing the width of Pipeline & Cable proposed for laying (enclosed at Annexure-3).

We hope the above would suffice the requirements for processing our application for crossing permission. It is requested to accord the permission at the earliest as the construction activities have already started at VPT area. We anticipate your co-operation in early approval of the same.

Thanking you,

Yours Sincerely,


(C. Santhi Sagar)
DGM(Const.& HR)

Encl: as above

ANDHRA PRADESH GAS DISTRIBUTION CORPORATION LTD

#15-8-6/2 (1), 1st Floor, Ocean Park, Near Varun Beach, Maharani Peta, Visakhapatnam-530002.

Website: www.apgdc.in Ph No. 0891 2726605 CIN : U11100AP2011SGC106844

तार-त "विस्फोटक", नागपूर
Telegram: 'EXPLOSIVES', Nagpur
Website: <http://peso.gov.in>
Email: explosives@explosives.gov.in

दूरभाष/ Telephone : 0712-2510248

फैक्स/ FAX : 2510577

कार्यालयीन उद्देश्य के सभी पत्रादि
"मुख्य विस्फोटक नियंत्रक" के पदनाम से
भेजे जाए उनके व्यक्तिगत नाम से नहीं.

All communications intended for
this Office should be addressed to the
'Chief Controller of Explosives' and
NOT to him by name.



भारत सरकार

GOVERNMENT OF INDIA

पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन

Petroleum and Explosives Safety Organisation

(पूर्व नाम - विस्फोटक विभाग)

(Formerly- Department of Explosives)

"ए-ब्लॉक 4, पाँचवा तल, केन्द्रीय कार्यालय परिसर,

"A" Block, 5th Floor, CGO Complex,

सेमिनरी हिल्स, नागपूर - 440 006 (महा)

Seminary Hills, Nagpur- 440006

संख्या /No.: P-2(4)1160

दिनांक /Nagpur, dated:08/01/2019

To,

✓ M/s. Andhra Pradesh Gas Distribution Corporation Ltd.,
D.No. 13-1-51, 2nd Floor, Above Oriental Bank,
Surya Rao Peta, Main Road,
Kakinada-533 001.

Sub: - Approval for laying of 24", 18", 12", 8" & 4" dia x 178 Kms natural gas pipeline from Kakinada to Visakhapatnam under Manufacture, Storage & Import of Hazardous Chemicals (MSIHC) Rules, 1989- regarding.

Dear Sirs,

Please refer to your letter No. APGDC/PESO/KSPL/2018-19 dated 16/01/2018.

Your above proposal for laying of subject pipeline meets with the approval of this office and copies of the drawing are returned herewith duly endorsed in token of approval with the following condition:-

1. Detailed S.O.P. Scheme of patrolling of ROU and systems of continuous monitoring of pipeline is submitted for perusal and record of this office.
2. Precommissioning safety Audit shall be carried out by any reputed agency and compliance of the recommendations made there under shall be furnished.
3. HAZOP Study Report and Close Out report.
4. To submit your detailed plan for pipeline Integrity Management in future and also about protection of Right of Way from encroachment.
5. Pipeline Material Specification to be furnished.
6. Composition of Natural Gas to be furnished.

After completion of the entire stretch of pipeline and all associated facilities the same should be hydro tested according to the applicable code and detailed hydrotest report be submitted to this office together with four sets of "As built" drawings (without any ink/hand corrections) to enable this office to accord to commissioning permission of the pipeline as required under Manufacture, Storage & Import of Hazardous Chemicals (MSIHC) Rules, 1989.

Please also note that prior to commencing of laying of the pipeline the right of way shall have to be obtained by you. After installation, detailed drawing showing various segment of pipeline crossing, Surge Analysis Report, Risk Analysis Report, Clearance from Environment Ministry, ROW Notification, NOC/Permissions from NHAI, Railways and other agencies etc. & Hydrotest Report shall be forwarded to this office alongwith as built drawing to enable it to grant permission to commission the pipeline.

All due precautions shall be taken to prevent accidents.

This approval does not absolve you from obtaining necessary permission/clearances from other authorities or under other applicable.

Yours faithfully

(V.K.Mishra)

Dy. Chief Controller of Explosives
for Chief Controller of Explosives

C. Santhi Sagar
DGM (Constr.)
APGDC Ltd., Kakinada



ANDHRA PRADESH POLLUTION CONTROL BOARD
D.No. 33-26-14 D/2, Near Sunrise Hospital, Pushpa Hotel Centre,
Chalainalavari Street, Kasturibaipet, Vijayawada – 520010.

Website : www.appcb.ap.nic.in

CONSENT ORDER FOR ESTABLISHMENT

Order No. 319/APPCB/CFE/RO-KKD/HO/2018

Dt: 19.12.2018

Sub: APPCB – CFE - M/s. Andhra Pradesh Gas Distribution Corporation Limited (A Joint Venture of GAIL Gas & APGIC), East Godavari District – Consent for Establishment of the Board for Kakinada – Srikakulam Pipeline (KSPL) Project, Phase – 1 (Kakinada to Visakhapatnam) under Sec.25 of Water (P & C of P) Act, 1974 and under Sec 21 of Air (P&C of P) Act, 1981 - Issued - Reg

Ref: 1) Proponent's CFE application received through AP OCMMS on 22.11.2018.
2) R.O: Kakinada and Visakhapatnam reports dt. 26.11.2018 & 01.12.2018.
3) CFE Committee meeting held on 06.12.2018.
4) Proponent's Ir. dt. 13.12.2018.

1. In the reference 1st cited, an application was submitted to the Board seeking Consent for Establishment (CFE) to lay the pipeline as mentioned below with a project cost of Rs. 480 Crores.

- Natural Gas Transportation through Pipeline – 12 MMSCMD.
- APGDCL is proposed to implement the project in 2 phases. Under Phase – I, the pipeline is proposed to be laid from Kakinada to Visakhapatnam. The total length of the pipeline under Phase-I would be 173 Km.

East Godavari District: Site details

S. No	Station Description	Village	Mandal	Pipeline Chainage (Kms)	Survey No.s	Extent of Land	GPS Coordinates
1	Tap - off GAIL (India)	Nemam	Kakinada (Rural)	6.110	R.S. No.108/1 A & 108//2A	Ac 1.95 cts	17.04680347, 82.27503046
2	Intermediate Pigging(IP) Station - 1	Chebrolu	Gollaprolu	23.009	R.S. No. 432/8B & 432/9B	Ac 2.31 cts	17.18015095, 82.32808289
3	Sectionalizing Valve (S.V) Station -1	Pydikonda	Thondangi	47.129	R.S No. 1/1B, 1/2B & 1/3B	Ac 0.885 cts	17.286126, 82.500655

➤ 18" dia pipeline of length 55.75 km from GAIL Tap off point to Palteru village in Visakhapatnam District.

Visakhapatnam District: Site details

S. No	Station Description	Village	Mandal	Pipeline Chainage (Kms) from Kakinada	Survey No.s	Extent of Land	GPS Coordinates
1	3 V Station - 2	Gullipadu	Nakkapalli	69.73	187/18, 187/2A	0.81 Acres	17.39959592 & 82.63787994
2	Intermediate Pigging (IP) Station -2	Pulaparthi	Yolamanchili	90.86	125/1 A, 4 B, 5A & 1 B1	2.03 Acres	17.47672817 & 82.79034989
3.	Junction Point - 2 Station	Munagapaka	Munagapaka	123.325	522/181 to 522/1D2	1.60 Acres	17.62228 & 83.00114
4.	Junction Point - 3 Station	Amruthapuram	Sabbavaram	151.525	374/2	2.84 Acres	17.77107997 & 83.15071844
5.	IP-3 Station / RI Station	VPT Area	VPT Area	158.450	VPT area	2.471	17.716958 & 83.210984

- In Visakhapatnam region, the Pipeline enters at Palteru (V) of Payakaraopeta (M) to Visakhapatnam Port Trust area with an approximate length of 118.50 Km, consisting of 24"dia / 18"dia / 12"dia / 8"dia and 4"dia pipelines.
- The details of size and length of the pipelines are as below:

S. No.	Pipeline size	Length (Kms)	Villages covered
1.	18"dia	108	Palteru village to IP - 3 (VPT area)
2.	12"dia	2.5	IP - 3 (VPT area) to Receiving terminal at HPCL Refinery, Vizag.
3.	8"dia	6.0	Tap - off point for Essar steels to Essar Steels
4.	4"dia	2.0	Tap-off point for AP Petroleum to AP Petroleum
	Total	118.50	

- The above alignment was inspected by the officials of Regional Offices: Kakinada and Visakhapatnam, A.P. Pollution Control Board between 26.11.2018 and 30.11.2018 and submitted the reports. The pipeline passes through Kakinada and Srikakulam districts. The total length of the pipeline is 173 km out of which 55.75 km in East Godavari District and 118.50 km in Visakhapatnam District in Phase-I.
- The project proponent vide Ir. dt. 13.12.2018 committed that the pipeline does not pass through any eco-sensitive zones in Andhra Pradesh State. Hence, Environmental Clearance (EC) is not applicable as per the provisions laid under EIA Notification, 2006 and its amendments thereof.

4. The Board, after careful scrutiny of the application, verification reports of Regional Officers and recommendations of the C/L Committee hereby issues **CONSENT FOR ESTABLISHMENT** to the project under Section 25 of Water (Prevention & Control of Pollution) Act 1974 and Section 21 of Air (Prevention & Control of Pollution) Act, 1981 and the rules made there under. **This order is issued to the activity as mentioned at para (1) only.**
5. This Consent Order now issued is subject to the conditions mentioned in annexure.
6. This order is issued from pollution control point of view only. Zoning and other regulations are not considered
7. This order is valid for period of 7 years from the date of issue.

Encl: annexure

VIVEK
YADAV
MEMBER SECRETARY

Digitally signed
by VIVEK YADAV
Date: 2018.12.20
15:06:26 +05'30'

To

M/s. Andhra Pradesh Gas Distribution Corporation Limited
(A Joint Venture of GAIL Gas & APGIC)
D.No.70-14-5/1, Siddarth Nagar,
Near RTO Office, Kakinada,
East Godavari District.
csagars@gail.co.in

- Copy to: 1 The JCEE, Z.O: Visakhapatnam for information and necessary action.
2. The E.E., R.O: Kakinada and Visakhapatnam for information and necessary action.


C. Santhi Sagar
DGM (Consin.)
APGDC Ltd., Kakinada

ANNEXURE

1. The proponent shall obtain Consents for Operation (CFO) from APPCB, as required Under Sec 25/26 of the Water (P&C of P) Act, 1974 and under sec 21/22 of the Air (P&C of P) Act, 1981, before commencement of the activity
2. The rules and regulations notified by Ministry of Law and Justice, Govt, regarding the Public Liability Insurance Act, 1991 shall be followed.
3. Compensation is to be paid for any environmental damage caused by it, as fixed by the Collector and District Magistrate as civil liability.
4. The source of water is Ground water. The maximum permitted water consumption is as following:

East Godavari District:

S.No.	Purpose	Quantity (KLD)
1.	Fire fighting	Nil
2.	Domestic	

Visakhapatnam District:

Sl. No	Purpose	Quantity (KLD)
1.	For isolation of gas during emergency / Maintenance at Sectionalizing Valve (SV - 2)	0.20
2.	For cleaning & maintenance of pipeline at Intermediate Pigging (IP - 2)	0.50
3.	Tap off point for consumers (JP - 2)	0.20
4.	Intermediate Pigging (IP-3) RT Station at receiving terminal	2.00
Total		2.90

Separate meters with necessary pipe-line shall be provided for assessing the quantity of water used for each of the purposes mentioned above.

5. There shall not be any waste water generation from the proposed project.
6. Proponent shall take all necessary measures to protect soil and ground water from contamination due to Petroleum products leakage from the pipe line. The proponent has to provide SCADA system to detect the leakages.
7. Fire fighting facilities, leak detection system and fire alarm systems are to be provided at the pumping stations.
8. There are no air pollution sources in the activity.
9. There is no generation of solid waste in the activity.
10. Pipeline system shall be provided with pressure protection devises and thermal relief valves. Pressure sensors shall be provided along the pipeline.

11. The proponent shall take necessary measures like providing dust suppression system to control dust emissions generated during construction phase due to excavation and movement of the vehicles.
12. Ground patrolling shall be under taken on periodical basis along the pipeline.

Other Conditions:

13. The proponent to ensure that the alignment of pipeline route for transportation of Natural Gas shall not pass through national parks / sanctuaries / coral reefs / ecologically sensitive areas in East Godavari and Visakhapatnam Districts as committed vide Ir. dt. 13.12.2018. Hence, Environmental Clearance (EC) is not required as per the provisions laid under EIA Notification, 2006 and its amendments thereof.
14. The proponent to ensure that there shall not be any isolated storage of Petroleum Products at the proposed sites of Tap off /SV/IP of pipeline as committed vide Ir. dt. 13.12.2018.
15. The proponent shall obtain necessary CFE for the new isolated storage facility, if any, separately from the Board.
16. Pipeline shall be laid at suitable depth below the ground level as per OISD guidelines.
17. Necessary protective coatings & cathodic protection are to be provided for the pipelines against external corrosion.
18. The proponent shall take all the safety precautionary measures as per Disaster Management Plan submitted by the proponent including mitigation measures.
19. The proponent shall comply with the following precautionary measures.
 - i) Selection of the pipeline route shall be avoided to thickly populated area to the extent possible and shall be at a minimum distance from the village boundary as per OISD guidelines. Identification board of the pipeline shall be provided as a safety factor to the villagers. Further, the cover thickness shall be increased to prevent any unforeseen shock loads and emergency conditions.
 - ii) 100 % Radiographic inspection of welded joints using X-Rays and Gamma rays.
 - iii) The total length of the pipeline and its installations shall be hydrostatically tested as per OISD guidelines.
20. Project management shall inform to local bodies, surrounding land owners along the pipeline and others for not taking up excavation works over the pipeline and problems if they do so.



C. Santhi Sagar
DGM (Constn.)
APGDC Ltd., Kakinada

21. If the pipeline is to be laid near an existing pipeline like a water main/ sewer line / pipelines for various petroleum products / railway tracks, the minimum clear distance shall be maintained as per OISD guidelines.
22. The proponent shall maintain minimum distance from habitation and ecologically sensitive areas as per OISD guidelines and adequate precautionary measures shall be implemented for safety.
23. The proponent shall commission the pipeline only after receipt of approvals from the Chief Controller of Explosives.
24. The proponent has to strictly comply with safety provisions as per the CCOE approved pipeline route plan.
25. Concealing the factual data or submission of fabricated data and failure to comply with any of the conditions mentioned in this order attracts action under the provisions of relevant pollution control Acts.
26. Notwithstanding anything contained in this conditional letter or consent, the Board hereby reserves its right and power Under Sec 27(2) of Water (Prevention and Control of Pollution) Act, 1974 and Under Sec.21(4) of Air (Prevention and Control of Pollution) Act, 1981 to revoke the order, to review any or all the conditions imposed herein and to make such modifications as deemed fit and stipulate any additional conditions by the Board.
27. Any person aggrieved by an order made by the State Board under Section 25, Section 26, Section 27 of Water Act, 1974 or Section 21 of Air Act, 1981 may within thirty days from the date on which the order is communicated to him, prefer an appeal as per Andhra Pradesh Water Rules, 1976 and Air Rules, 1982, to such authority (hereinafter referred to as the Appellate Authority) constituted under Section 28 of Water (Prevention and Control of Pollution) Act, 1974 and Section 31 of the Air (Prevention and Control of Pollution) Act, 1981.

**VIVEK
YADAV**
MEMBER SECRETARY

Digitally signed
by VIVEK YADAV
Date: 2018.12.20
15:06:56 +05'30'

To

M/s. Andhra Pradesh Gas Distribution Corporation Limited
(A Joint Venture of GAIL Gas & APGIC)
D.No.70-14-5/1, Siddarth Nagar,
Near RTO Office, Kakinada,
East Godavari District.
csagars@gail.co.in


C. Santhi Sagar
DGM (Const.)
APGDC Ltd., Kakinada

Ref. APGDC/KSPL/TECH/6121D

Dt. 17.11.2020

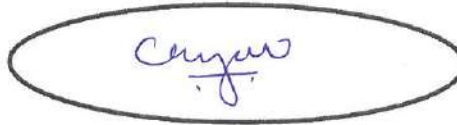
To

The Project Director,
NHAI, PIU Visakhapatnam,
Hanumanthavaka,
Visakhapatnam

Sub: Authorization for signing of documents for obtaining permissions from NHAI

Dear Sir,

This has reference to laying of 24"/18" dia. Natural Gas pipeline from Kakinada to Srikakulam for supplying Natural Gas to various customers in East Godavari, Visakhapatnam, Vizianagaram and Srikakulam Districts. I hereby authorize Mr. C. Santhi Sagar, DGM(Const.&HR) to sign the documents for submission to NHAI for obtaining crossing permissions on behalf of the undersigned and his signature is attested below:



This is for your information and records please.

Thanking you,

Yours faithfully



(G Varatharajan)

Managing Director

varatharajang@gail.co.in

10. (1350) C-14/14/22 50/202/23M 101 101

PLAN

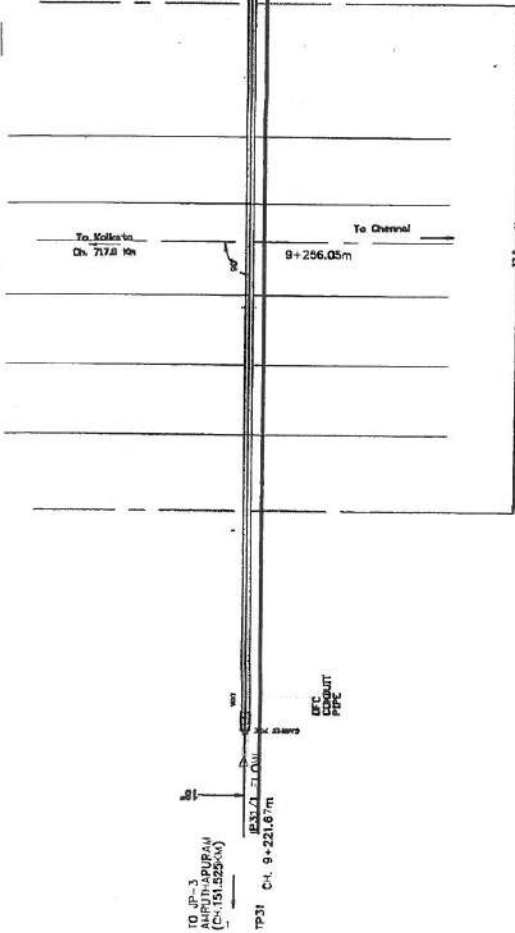
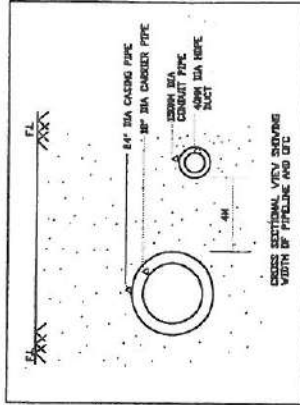
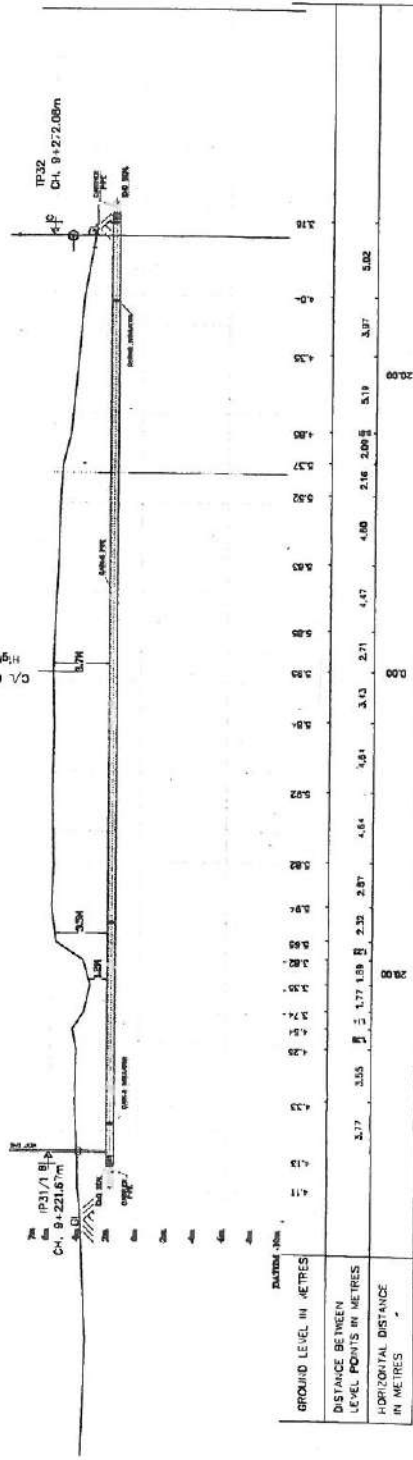


TABLE - 1

DESCRIPTION	MATERIAL	D/C	SIZE	THICKNESS
CONDUIT PIPE	3" x 10"	15"		



C/L of National Highway-16



FOR PERMISSION PURPOSE ONLY

ANDHRA PRADESH GAS DISTRIBUTION CORPORATION LTD

मेकॉन लिमिटेड

MECON LIMITED

KARNATAKA - BIRAKULAM PIPELINE PROJECT

TYPICAL CARRIED CROSSING PROFILE FOR 1H-18

C. Santhi Sagar DGM (Consin.) AGDC Ltd., Kakinada

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Ref : APGDC/KSPL/TECH/6121-D/2019-20

20.03.2020

To
The Project Director,
PIU – Visakhapatnam,
Hanumanthavaka,
Visakhapatnam - 530040.

Sub: NHAI, PIU Visakhapatnam : Kakinada – Application for crossing of Kakinada – Srikakulam Natural Gas Pipeline along with OFC Duct across NH-16 at Ch. 717.800 Kms.

Ref: Our letter no. APGDC/Crossings/NHAI/6121D/07 dated 16.09.2019
Your letter no. NHAI/PIUVSP/APGDC -718.580/2019/3325 dated 17.02.2020

Dear Sir,

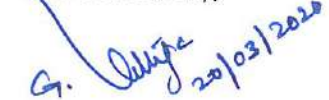
With reference to above, an application has been submitted for crossing permission NH-16 at Ch. 718.580 Km for laying Kakinada – Srikakulam Natural Gas Pipeline along with OFC duct. This crossing permission proposal has been returned due to the upcoming four lane connectivity project from Sabbavaram to Sheela nagar of NHAI.

In view of above, the pipeline route has been shifted from the current location and the proposed crossing location has been changed from Ch. 718.580 Km to Ch.717.800 Km of NH-16. We are submitting herewith all the required documents like, Check list, Undertaking, Agreement, License Fee, Crossing Drawings, etc. for processing our application for grant of crossing permission for laying Natural Gas Pipeline at Ch.717.800 Km of NH-16.

We solicit your kind cooperation for grant of crossing permission for laying Natural Gas Pipeline across NH-16.

Thanking you,

Yours sincerely,




(G Varatharajan)

Director (Commercial)

varatharajang@gail.co.in

1.16	Whether proposal to lay Gas Pipe line along with OFC is after the service road or between the service road and main carriageway.	NA	Pipeline along with OFC is proposed across NH16
1.17	Whether carrying of gas pipeline along with OFC has been proposed on highway Bridges. If Yes, then mention the methodology proposed for the same.	NA	
1.18	Whether carrying of gas pipeline along with OFC has been proposed on the parapet/ any part of bridges. If Yes, then mention the methodology proposed for the same.	NA	
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 Crossing is by Boring Method/Trenchless method encased in 24"inch dia. Casing pipe.	
	(a) Whether existing drainage structures are allowed to carry the utility pipelines.	NA	
	(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.	Yes, more than 15m	
	(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. <u>Mention type of casing.</u>	24"dia. Carbon steel pipe for 18" dia. Carrier pipe and 6" carbon steel pipe for OFC of grade IS:3589 or Eq.	
	(e) Ends of the casing/conduit pipe shall be sealed from the outside, so that it does not act as a drainage path.	Yes	
	(f) The casing/conduit pipe should, as minimum extend from drain to drain in cuts and toe of slope toe of slope in the fills.	Yes	
	(g) The top of the casing/conduit pipe should be at least 1.2 meter below the surface of the road subject to being at least 0.3 m below the drain inverts. <u>Mention the proposed details.</u>	Yes	The proposed depth is 3.7 m from existing road level

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Dgm (7)


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National Highways Authority of India
P.U. VISAKHAPATNAM


C. Santhi Nagar
DGM (Consin.)
APGDC Ltd., Kakinada

	(h) Mention the methodology proposed for crossing of road for proposed Sewage/Gas Pipeline along with OFC. 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.	HDD or Boring 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.	Yes	
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 deepX 0.3m wide) (i) Should not be greater than 60 Cm wider than the outer diameter of the pipe. (ii) Located as close to the extreme edge of the right-of-way as possible but not less than 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 so laid that their top is at least 0.6 meter below the ground level so as not to obstruct drainage of the road land.	NA	
2.2	Cross section showing the size of pit and location of cable for HDD method.	NA	Crossing is done by HDD or Boring Method.
2.3	Strip plan/ Route Plan showing Gas pipe line, Chainage, width of ROW. Distance of proposed, cable from the edge of ROW, important mile stone, intersections, cross drainage works etc.	Yes, Enclosed	
2.4	Methodology for laying of Sewage/Natural gas pipe line.	Yes, 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	NA	


Handwritten signature and initials in blue ink.

Project Director
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DGM (Constn.)
APGDC Ltd., Kakinada

	(a) The trench width should be at least 30 cm, but not more than 60 cm wider than the outer diameter of the pipe.	NA	
	(b) For filling of the trench, Bedding shall be to a depth of not less than 30 cm. It shall consist of granular material, free of lumps, clods and cobbles and graded to yield a firm surface without sudden change in the bearing value. Unsuitable soil and rock edged should be excavated and replaced by selected material.	NA	
	(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.	NA	
	d) The sidefill shall consist of granular material laid in 15 cm layers each consolidated by mechanical tampering and controlled addition of moisture to 95% of the Proctor's Density. Overfill shall be compacted to the same density as the material that had been removed. Consolidation by saturation or ponding will not be permitted.	NA	
	(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.	NA	
	(f) The excavation shall be protected by flagman. Signs and barricades, and red lights during night hours.	NA	
	(g) If required, a diversion shall be constructed at the expenses of agency owning the utilit line	NA	
2.4.2	Horizontal Directional Drilling (HDD) Method.	Yes, Enclosed	
2.4.3	Methodology for laying of Pipeline along with OFC through CD works and method of laying. Incase where the carrying of gas pipe line on the bridge becomes inescapable.	NA	
3	Draft License Agreement signed by two witnesses.	Yes, Enclosed	
3.1	The licensee fee estimate as per Ministry's guidelines issues vide circular No. RW/NH-33044/29/2015/S&R(R) dated 22.11.2016.	Yes, Enclosed	APGDC agrees for the same as per NHAI requirement.

22.11.2016
Dym (r)


Project Director
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P.O. VISAKHAPATNAM


C. Santhi Sagar
DGM (Constn.)
APGDC Ltd., Kakinada

4	Whether Performance Bank Guarantee as per Ministry's Circular no. RW/NH-33044/29/2015/ S&(R) dated 22.11.2016 is obtained.	Yes	APGDC agrees for the same as per NHAI requirement.
4.1	Confirmation of BG has been obtained or not as per MoRTH/NHAI guidelines	Yes	APGDC agrees for the same as per NHAI requirement.
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.	Yes, Enclosed	
5.2	Undertaking for Renewal of Bank Guarantee as and when asked by MoRTH/NHAI.	Yes	
5.3	Undertaking for Confirmation all standard condition of Ministry Circulars & NHAI's guideline	Yes	
5.4	Undertaking for indemnity against all damages and claims.	Yes	
5.5	Undertaking for management of traffic movement during laying of utility line without hampering the traffic.	Yes	
5.6	Undertaking if any claim is raised by the concessionaire/ contractor 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-ways.	Yes	
5.8	Undertaking that expenditure, if any, incurred by NHAI for repairing any damage caused to the National Highway by the laying, Maintenance or shifting of the utility line will be borne by the applicant agency owing the line.	Yes	
5.9	Undertaking that 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	

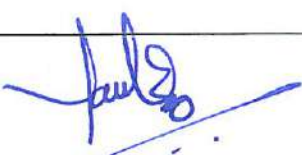
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Project Director
National Highways Authority of India
P.I.U. VISAKHAPATNAM

C. Santhi Sagar
DGM (Constn.)
APGDC Ltd., Kakinada

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 applicable, before applying to Highway Administration.	Yes	
5.11	If the MoRTH/NHAI considers it necessary in future to move the Gas Pipe line along with OFC for any work of improvement or repairs to the road, it will be carried out as desired by the NHAI at the cost of the agency owning the utility line within a reasonable time (not exceeding 60 days) of the intimation given.	Yes	
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 own cost not with standing the permission granted within such time as will be stipulated by NHAI for future six- lanning or an other development.	Yes, Enclosed	
6	Who will sign the agreement on behalf of Gas pipe line agency.	Director (Commercial), APGDC, Kakinada	
	Power of attorney to sign the agreement on behalf of Gas pipe line agency.	NA	
7	Certificate from the 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.	Yes, Enclosed	

प्रशान्त कुमार शिखा
Dym (7)


Project Director
National Highways Authority of India
P.I.U. VISAKHAPATNAM


C. Santhi Sagar
DGM (C)
APGDC Ltd., Kakinada

7.2	<p>Certificate from PD in the following format (Yes/No)</p> <p>(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 improvement such as widening of the carriageway, easing of curve etc".</p> <p>(ii) for 6 -laning</p> <p>(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".</p> <p>(b) In case feasibility report is not available "I do certify that sufficient ROW is available at site for accommodating proposed six-laning".</p>	Yes, Enclosed	
8	<p>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 up-gradation of [..... section from Km.....to Km..... of NH No.- man Build, Operate and Transfer Basis] and therefore, the licensee shall honour the same."</p>		APGDC agrees for the same as per NHAI requirement.
9	Who will supervise the work of laying of gas pipe line along with OFC.		
	(a) On Behalf of Applicant	Director (Commercial), APGDC	
	(b) On Behalf of MoRTH/NHAI	Project Director - NHAI, Visakhapatnam	


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Dym (7)

Project Director
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DGM (Constn.)
APGDC Ltd., Kakinada

10	Who will ensure that the defects in road portion after laying of gas pipe line along with OFC are corrected and if not corrected then what action will be taken.		
	(a) On Behalf of Applicant	Director (Commercial), APGDC	
	(b) On Behalf of MoRTH/NHAI	Project Director - NHAI, Visakhapatnam	
11	Who will pay the claims for damages done/disruption in working of Concessionaire if asked by the Concessionaire.	M/s. APGDC	
12	A certificate from PD that he will enter the proposed permission in the register of records of the permissions in the prescribed proforma (copy enclosed).	Yes	APGDC agrees for the same as per NHAI requirement.
13	If any previous approval is accorded for laying of underground Gas Supply Pipe line along with OFC then Photocopy of register of records of permissions accorded (as maintained by PD) then copy be enclosed.	Yes	Enclosed

प्रमाणित
DGM(7)


Project Director
National Highways Authority of India
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