



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)
National Highways Authority of India
(Ministry of Road Transport & Highways, Government of India)
क्षेत्रीय कार्यालय, मदुरै / Regional Office, Madurai

दूसरा व तीसरी तल, विजय कृष्ण प्लाजा, संख्या-1, लेक एरिया, मेलूर मेन रोड, माट्टुतावनी, मदुरै-625 107
2nd & 3rd Floor, Vijay Krishna Plaza, No.1, Lake Area, Melur Main Road, Mattuthavani, Madurai-625 107
दूरभाष / Tele : +91-452-258 8999 वेब / Website : www.nhai.gov.in ई-मेल / E-mail : romadurai@nhai.org



NHAI/15018/4.6/16/2023/RO Madurai/E:213144/1349

03rd August, 2023

INVITATION OF PUBLIC COMMENTS

विषय: भाराराप्रा - क्षे.का. मदुरै- पकाई, त्रिची - Trichy - Madurai section of NH 45B (New NH38)
- Permission for laying of 12.75'' (324mm)/125mm MDPE carbon steel pipeline with OFC cable in HDPE duct (40mm) along the road from km.123/900 to km.124/470 (LHS), km.124/470 to km.124/840 (RHS) and across at km.124/470 by M/s. IOCL CGD-Invitation of Public Comments - Reg.

प्रसंग: PD, Trichy Lr.No-NHAI/PD/TRY/Utility/Gas Pipeline/NH 38/T-M/2023/1381 dt.11.07.2023.

The proposal received from PD, Trichy vide Lr. No- NHAI/PD/TRY/Utility/Gas Pipeline/NH 38/T-M/2023/1381 dt.11.07.2023 there by requesting permission for laying of gas pipe line along the road from km.123/900 to km.124/470 (LHS), km.124/470 to km.124/840 (RHS) and across at km.124/470 by open trench & HDD method in the state of Tamil Nadu as proposed by Senior Manager (CGD), M/s. IOCL, Madurai.

Accordingly, as per Policy Guidelines issued by Ministry vide letter No. RW/NH-33044/29/2015/S&R(R) dated 22.11.2016, the application is being uploaded on public domain for 30 days for seeking claims and objections (on grounds of public inconvenience, safety and general public interest).

In view of the above, comments of the public on the above proposal is invited to the below mentioned address:

Regional Officer,
National Highways Authority of India,
No.2nd & 3rd Floor, Vijay Krishna Plaza,
No.1, Lake Area, Melur Main Road, Mattuthavani,
Madurai - 625 007.

महेन्द्र मीना
03/08/23

महेन्द्र मीना | MAHENDRA MEENA
उप प्रबंधक (तक) | DY. MGR (Tech)

संलग्न: As above

प्रतिलिपि:

1. The NIC, New Delhi - for uploading in the Ministry's website.
2. The PD, Trichy- for information.



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)
National Highways Authority of India
(Ministry of Road Transport & Highways, Government of India)
परियोजना कार्यान्वयन इकाई - तिरुच्ची / Project Implementation Unit - Trichy
नं. 6, (पुराना नं. 44), पहली मंजिल, III - मेन रोड, पानेनगर, तिरुचिरापल्लि - 620 001
No. 6, (Old No. 44), 1st Floor, III-Main Road, Ponnagar, Tiruchirapalli - 620 001
दूर / Tele : +91-431 2482959 वेब / Web : www.nhai.org ई-मेल / E-mail : tri@nhai.org, trichynhai@gmail.com



NHAI/PD/TRY/Utility/Gas Pipeline/NH 38/T-M/2023/138/ July 11, 2023

To

The Regional Officer,
National Highways Authority of India,
2nd & 3rd floor, Vijay Krishna Plaza,
No.1, Lake Area, Melur Main Road,
Mattuthavani, Madurai – 625 107.

Sub: NHAI – PIU, Trichy - Trichy – Madurai section of NH 45B (New NH38) – Permission for laying of 12.75” (324mm)/125mm MDPE carbon steel pipeline with OFC cable in HDPE duct (40mm) along the road from km.123/900 to km.124/470 (LHS), km.124/470 to km.124/840 (RHS) and across at km.124/470 by M/s. IOCL CGD – In principle approval – Requested - Reg

Ref: 1. Senior Manager (CGD), M/s. IOCL, Madurai letter no. SRPL/CGD/MDU/22/NH38/09/ dt.07.06.2023 (Received on 09.06.2023)
2. Team Leader, M/s. Upham, Trichy, letter no. UPHAM&SAC/TM/NH-38/2023/1006 dt.26.06.2023

Sir,

The Senior Manager (CGD), M/s. IOCL, Madurai submitted proposal vide reference dt.07.06.2023 seeking permission for laying of City Gas Distribution (CGD) pipeline along the road from km.123/900 to km.124/470 (LHS), km.124/470 to km.124/840 (RHS) and across at km.124/470 for a total length of 1050m in Trichy – Madurai section of NH 38 (Old NH 45B).

2. The Team Leader, M/s. Upham, Trichy along with representative of M/s. IOCL, Madurai conducted joint inspection and submitted their report 2nd cited above, has recommended the proposal subject to the following main conditions;

- i. Free flow of traffic on NH38 should be maintained while carrying out the work.
- ii. In case of improper restoration after laying, BG shall be forfeited.
- iii. The works shall be carried out strictly as per the drawing submitted by applicant
- iv. All the existing utilities are to be checked and verified by applicant before commencement of the work and ensure that no damage is caused to the existing utilities during the crossing at major intersections and along the road.
- v. No digging of the carriageway will be allowed and working pits, if any, shall be made outside the ROW.

H. Jay



- vi. The avenue plantations, rain water harvesting system and boundary stones are not disturbed. Damages if any caused, shall be got rectified by the applicant.
 - vii. NHAI has every right to cancel the permission given, without assigning any reason.
 - viii. The applicant shall shift the OFC at an alternate location whenever NHAI make a request for the shifting of the same within 90 days from the receipt for which a fresh undertaking may also be obtained in stamp paper.
 - ix. Wherever the live trees involved in the laying work of OFC and to be cut down only after obtaining permission from the Revenue Authority and valuation report from the forest department the trees to be cut in the presence of concessionaire / consultant
3. The laying gas pipeline along and across the road in the Trichy Madurai section of NH 38 as per the method detailed under:

Total length along the road -940Rm.

Total length across the road-110 Rm.

From km.123+900 to km.124+240 on LHS }	-340Rm (by Trench method)
From km.124+240to km.124+470 on LHS }	- 230Rm (by HDD method)

From km.123+900 to km.124+470 onRHS }	- 370 Rm (by HDD method)
Road Crossing	-110Rm (by HDD method)
Grand Total length	- 1050 Rm

4. The applicant has proposed laying of gas pipeline along the road from km.123/900 to km.124/470 (LHS), km.124/470 to km.124/840 (RHS) and across at km.124/470 for a total length of 1050m with dia of pipe indicated therein:

S.No.	From	To	Length in meter	Side	Dia of pipe	Laying of methodology
1	123.900	124.240	340	LHS	489	Open trench
2	124.240	124.470	230	LHS	489	HDD
3	124.470	-	110	Crossing	489	HDD
4	124.470	124.840	370	RHS	489	HDD
	Total		1050			

- a) NHAI shall not levy any charges from IOCL and its agencies for laying new gas / petroleum pipelines along and across National Highways in National Highways ROW in terms of para. (III) (2) (b) of Memorandum of Understanding entered between Indian Oil Corporation and National



Highways Authority of India on 07.06.2022. Hence license fees has not been levied.

b) For laying of pipeline the amount of performance BG has been calculated in line with the MoRT&H policy guidelines dt.22.11.2016 as detailed below:

Total area of land to be utilized (Route meter)	-	1050 Rm
upto 1000mm dia – Rs.250/-		
Rate of performance BG	-	Rs.250/-
Amount (1050*250)	-	Rs.2,62,500/-
(Crossing per km.-Rs.1,00,000/-)		
Crossing at km.124/470	-	Rs.1,00,000/-
Total	-	Rs.3,62,500/-

Performance BG towards restoration charges for Rs. 3,62,500/- as per Ministry circular shall be furnished by the applicant and the confirmation of BG shall also be obtained from the respective branch as per NHAI guidelines before entering into the agreement.

In view of the above, the proposal submitted by Senior Manager (CGD), M/s. IOCL, Madurai vide reference dt.07.06.2023 seeking permission for laying of City Gas Distribution (CGD) pipeline along the road from km.123/900 to km.124/470 (LHS), km.124/470 to km.124/840 (RHS) and across at km.124/470 for a total length of 1050m, may be considered for according in-Principle approval.

Yours faithfully,

Encl: Proposal – 3 Nos. (2 Original – 1 Copy)

M. Ganesh Kumar
 (M. Ganesh Kumar)

DGM (T) & Project Director

Copy to:

- The Team Leader, M/s. Upham, Trichy for information.
- Senior Manager (CGD), M/s. IOCL, Madurai for information

**CERTIFICATE**

Certified that, the proposed laying of underground Optical Fibre cable (OFC) is confirming of all standard condition issued vide Ministry Circular No. RW/NH-33044/29/2015/S&R (R) dt.22.11.2016

Certified that, any other location of the underground Optical Fibre cable (OFC) 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., There is no proposal pending for 6 laning.

(M. Ganesh Kumar)

DGM (T) & Project Director
PIU - Trichy

**CERTIFICATE**

Certified that, necessary entries have been made in the Register of permissions accorded for laying of City Gas Distribution (CGD) pipeline (public utility service) along the road from km.123/900 to km.124/470 (LHS), km.124/470 to km.124/840 (RHS) and across at km.124/470 for a total length of 1050m in Trichy – Madurai section of NH 38 respectively at Page no. 68 in S. no. 10

(M. Ganesh Kumar)

DGM (T) & Project Director
PIU - Trichy



UPHAM & SAC/TM/NH-38/2023/1006

Date:26.06.2023

To

**The Deputy General Manager (Tech) & Project Director,
National Highways Authority of India,
Office of the Project Director, PIU-Trichy,
New No.6 (Old No.44), First Floor,
III - Main Road, Ponnagar, Tiruchirappalli - 620 001**

NHAI, PID, TRICHY	
DATE	28 JUN 2023
DIARY NO	2483
PD	<i>net</i>

Project: Consultancy services for Supervision Consultants of Operation & Maintenance of Four Laning of Trichy Bypass -Tovarankurichi - Madurai section of NH-38 from Km.0/000 to Km.124/840 in the State of Tamil Nadu.

Subject: NHAI/PIU-Trichy - Issue of Permission for laying of City Gas Distribution (CGD) Pipeline (public utility service) with OFC cable through HDPE duct (40mm) along from km.123+900 to km.124+470 on LHS & km.123+470 to km.124+840 on RHS and Crossing at Km.124+470 of Trichy-Madurai section of NH-38 - Report Submitted - Reg.

Ref: 1.NHAI/PD/TRY/Utility/Gas Pipeline/NH 38/T-M/2023/1195 dt. 15.06.2023
2.SRPL/CGD/MDU/22/NH38/09 dt.07.06.2023

Dear Sir,

With reference to the above subject and vide ref.2 cited, the proposal has submitted by M/s. Indian Oil Corporation Limited, Madurai seeking Permission for laying of City Gas Distribution (CGD) Pipeline (Public utility service) with OFC cable through HDPE duct (40mm) along from km. 123+900 to km.124+470 on LHS & km.123+470 to km.124+840 on RHS and Crossing at Km.124+470 of Trichy-Madurai section of NH-38.

In this context, the site has jointly inspected by the Supervision Consultant along with Indian Oil Corporation Limited, Madurai representative and checked the site feasibility as well as drawing as per the Ministry Policy Guidelines No.RW/NH-33044/29/2015/S&R(R) dated 22.11.2016 and furnishing the comments/observations as follows,

1. The applicant has M/s. Indian Oil Corporation Limited, Madurai has submitted the proposal for seeking permission for laying of Public Utility- "City Gas Distribution (CDG)" Carbon Steel of 12.75" (324mm)/125mm MDPE carbon steel Pipeline with OFC cable in HDPE duct(40mm) along of Trichy - Madurai section of NH 38 (Old NH no. 45B).
2. The Proposed Carbon Steel and MDPE Pipeline with OFC along NH 38 from location Km.123+900(near Dwarka Palace) to Km.124+470 (@SivaGangai junction) on LHS and 123+470(@ sivagangai junction) to km.124+840(Project End point) on RHS and crossing at km.124+470(@SivaGangai junction) of the Project Highway.

3. The proposed Public Utility "City Gas Distribution (CGD)" Pipeline layout drawing is enclosed from km. 123+900 to km.124+470 on LHS & km.123+470 to km.124+840 on RHS and Crossing at Km.124+470 and verified.

4. The details as furnished below comes under Trichy - Madurai section of NH -38.

Total length along the road - 940Rm.

Total length across the road - 110 Rm.

From km. 123+900 to km.124+240 on LHS - 340 Rm (by Trench method)

From km. 124+240 to km.124+470 on LHS - 230 Rm (by HDD method)

From km. 123+900 to km.124+470 on RHS - 370 Rm (by HDD method)

Road Crossing - 110 Rm (by HDD method)

Grand Total length - 1050 Rm

In this regard, the above proposal is hereby recommended with the following conditions,

1. The entire pipe line laying works should be at the Extreme edge of NH-ROW as per the approved layout drawings.
2. The laying of pipe line along the road should be at the depth of minimum 1.65m below the ground level.
3. All crossing of pipe line should be done HDD method only at a minimum depth of 2.5m to 3m below the ground level.
4. No digging of MCW/Service Road/Avenue Road should be allowed.
5. No damage to the existing highway, road furniture's and other existing utilities. If any damages occurred to the Highway properties, the applicant shall restore at their own risk and cost.
6. Free flow of traffic should be maintained while carrying out the work.
7. Proper safety precautionary measures should be made available at site till the completion of work.
8. The work has to be carried out as per the approved drawing, methodology should be strictly followed as per the direction of NHAI/Supervision Consultant. If any deviation in the approved drawing should be informed to NHAI and get approval before execution of work.
9. Necessary permissions/Clearances and undertakings has to be carried out before commencement of work.
10. During the execution of work, utmost care should be taken and not to cause any damages to the road properties such as existing utilities (EB Lines, Water Line, OFC etc.,) drains, service roads, shoulders, sign boards etc.,
11. In case of any defects found, the bank guarantee will be forfeited & appropriate action would be taken.
12. Shifting of such pipe line shall be done by the Concern department with their own risk and cost as and when required by the NHAI for any improvement works in future.
13. Excavation work shall be carried out as per the instructions of concerned NHAI/consultant Representatives.



14. While Carrying work the Existing Avenue Plantation should be protected. If any damages occurred applicant should be restored 1:10 ratios of Plantation at their own cost.
15. During rainy season, extra care shall be taken to the excavated portions.
16. Necessary sign boards have to be provided in the working zone areas.
17. The excavated earth should be properly filled and consolidated to same condition as it was before digging.
18. All the construction work should be carried out as per MORTH specification and IRC/IS/policy guidelines.

Hence, the proposal of the laying of Public Utility "City Gas Distribution (CGD)" Carbon Steel MDPE Pipe line with OFC along and across in Trichy - Madurai section of NH38 may be considered for approval, the original proposal of the same is also enclosed herewith for further action.

This is for your kind information.

Thanks & Regards



(K. Raj Kumar)

Team Leader Cum Senior Highway Engineer
Upam with SAC, Trichy.

Encl: 1. Original Proposal Book.

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)
National Highways Authority of India
(Ministry of Road Transport & Highways, Government of India)
परियोजना कार्यान्वयन इकाई - तिरुच्ची / Project Implementation Unit - Trichy
नं.6, (पुराना नं.44), पहली मंजिल, III - मेन रोड, पानेनगर, तिरुचिरापल्लि - 620 001
No. 6, (Old No. 44), 1st Floor, III-Main Road, Ponnagar, Tiruchirapalli - 620 001
दूर / Tele: +91-431 2482959 वेब / Web: www.nhai.org ई-मेल / E-mail: tri@nhai.org, trichynhai@gmail.com



NHAI/PD/TRY/Utility/Gas Pipeline/NH 38/T-M/2023//95 June 15, 2023

To
Team Leader,
M/s.UPHAM International Corporation, (NH 38)
No.5 – Sakthi Nagar, 9th cross,
Karumandapam, Trichy – 620001

M/s. UPHAM International Corporation NH-45B	
Inward	4250
Date	20/6/2023
Received	

Sub:NHAI – PIU, Trichy - Trichy – Madurai section of NH 45B (New NH38) –
Permission for laying of a Public Utility – City Gas Distribution (CGD)
12.75” (324mm)/125mm MDPE carbon steel pipeline with OFC cable
in HDPE duct (40mm) along the road from km.123/900 to km.124/470
(LHS), km.124/470 to km.124/840 (RHS) and across at km.124/870 –
Report sought for - Reg.

Ref: Senior Manager (CGD), M/s. IOCL, Madurai letter no.
SRPL/CGD/MDU/22/NH38/09/ dt.07.06.2023 (Received on
09.06.2023)

Sir,

Please find enclosed herewith the copy of proposal of Senior Manager
(CGD), M/s. IOCL, Madurai, vide letter dt.07.06.2023 requesting Permission
for laying of a City Gas Distribution (CGD) 12.75” (324mm)/125mm MDPE
carbon steel pipeline with OFC cable in HDPE duct (40mm) along the road
from km.123/900 to km.124/470 (LHS), km.124/470 to km.124/840 (RHS)
and across at km.124/870 of Trichy – Madurai section of NH 38, for
inspection and submission of report.

In this context, it is requested to examine the same advert to site
condition, subsisting encumbrances of structures, trees, OFC etc., also with
reference to Checklist and drawing and offer your comments in accordance
with the Ministry circular dated 22.11.2016.

Encl: Proposal-1 No.

RE- 20/6/23

Yours faithfully,

M. Ganesh Kumar
(M. Ganesh Kumar)

DGM (T) & Project Director

Copy to:

- Senior Manager (CGD), M/s. IOCL, Madurai for information

इंडियन ऑयल कॉर्पोरेशन लिमिटेड

दक्षिण क्षेत्र पाइपलाइन्स

एन्नोर - तिरुवल्लूर - बेंगलूर - पुदुच्चेरी

- नागपट्टिनम - मदुरै - तूतिकोरिन पाइपलाइन

एफ - 10, वरप्रदा, वसुधारा अपार्टमेंट,

आण्डालपुरम, मदुरै- 625 003.

टेलीफोन :

Indian Oil Corporation Limited

Southern Region Pipelines

Ennoor - Tiruvallur - Bangalore - Puducherry

- Nagapattinam - Madurai - Tuticorin Pipeline

F-10, Varapradha, Vasudhara Apartments

Andalpuram, Madurai - 625 003.

Tele :



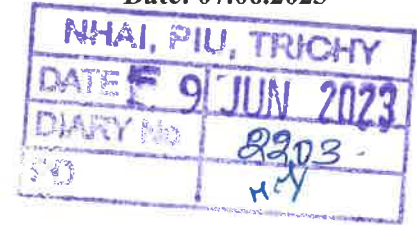
IndianOil

पाइपलाइन्स प्रभाग
Pipelines Division

SRPL/CGD/MDU/22/NH38/09

Date: 07.06.2023

To
The Project Director,
Office of the Project Director,
National Highways Authority of India,
Trichy.



Sub: **Permission for laying of a Public Utility - City Gas Distribution (CGD) 12.75" (324mm)/125mm MDPE Carbon Steel pipeline with OFC cable in HDPE duct (40mm) along NH-38 of increasing Chainage from km 123/900 to km 124/470 (LHS) , km 124/470 to km 124/840 (RHS) and Crossing(110mtr) at km 124/470 – Total length of 1.05Km**

Dear Sir,

M/s Indian Oil Corporation Limited, a Government of India Undertaking is operating about 15000 KMs of cross-country pipelines for transporting petroleum products, Natural gas and Liquefied Petroleum Gas (LPG) across the country. Under Southern Region Pipeline network, IOCL is operating 05 no. of petroleum pipelines, covering 1125 Km of pipeline network, catering the needs of Tamilnadu, Karnataka & Andhra Pradesh.

Government of India is in the process of promoting Natural gas consumption in the sectors of Transportation, Industrial, Commercial and Domestic for the economic growth of the country. Petroleum and Natural Gas Regulatory Board (PNGRB) vide its letter reference no. PNGRB/Auth/CGD(63)/2021/11.50 dated 23.03.2022, has authorized IOCL for laying, building and operating CGD network in Madurai Geographical area consisting of Madurai, Virudhunagar & Theni districts. Now, IOCL is in the process of laying steel pipelines along with OFC duct for supplying gas from Trunk line to Charge areas along the roads. The proposed steel pipeline/ 125mm MDPE and OFC duct traverses along NH-38 of Chainage from km 123/900 to km 124/470 (LHS) , km 124/470 to km 124/840 (RHS) and Crossing(110mtr) at km 124/470 – Total length of 1.05Km.

The proposed pipeline is Carbon steel pipe (API 5LX52Q PSL-2G grade), 12.75" (324mm) diameter and 6.4mm wall thickness, 3-layer polyethylene coated. Along with that, 125mm MDPE and OFC cable in HDPE duct of 40 mm will be laid in the same trench.

The pipeline along with OFC duct is proposed to be laid along the National Highways by open cut method along the NH-38 of increasing Chainage from Km 123/900 to Km 124/470 (LHS) , Km 124/470 to KM 124/840 (RHS) and Crossing(110mtr) at KM 124/470 from by open cut method

Page 1 of 2

रजिस्टर्ड कार्यालय : जी - ९, अलि यावर जंग मार्ग, बन्द्रा (पूर्व), मुम्बई - ४०० ०५१
Regd. Office : G - 9, Ali Yavar Jung Marg, Bandra (East), Mumbai - 400 051.

M. MANILA / एम. मणि
Sr. Manager (CGD) / वरिष्ठ प्रबंधक (सीजीडी)
Indian Oil Corporation Limited
इंडियन ऑयल कॉर्पोरेशन लिमिटेड
Southern Region Pipelines
City Gas Distribution Project Office
F-10, Varapradha, Vasudhara
Apartments, Andalpuram, Madurai-03

at the extreme end of ROW without touching the Black Top and HDD method is used during crossing of Road as per requirement on Left hand side (LHS). Adequate emphasis will be focused on safety besides ensuring no disturbance to the section, ongoing traffic and environment. The pipeline design and construction shall conform to all statutory norms, standards and practices as laid out in OISD- 226, International standard ASME B 31.8 etc. The laying of OFC cable adjacent to the pipeline is for operating Supervisory control and data acquisition for pipeline operation and maintenance alone and not for commercialization. The OFC cable will be laid along with the pipeline for usage within the organization only.

As per MoU between M/s IOCL and M/s NHAI dated 07.06.2022, in respect of laying new Gas line along NHAI, NHAI shall not levy any charges from IOCL. Also, NHAI shall issue NOC to IOCL for laying gas pipeline in NHAI ROW in 60 days from date of formal application by IOCL.

The following documents are enclosed along with this application to facilitate in according permission for laying gas pipelines.

- i) Authorized Signatory - Annexure-I
- ii) PNGRB authorization letter - Annexure-II
- iii) Standard trench Drawing for open cut - Annexure-III
- iv) HDD model drawing - Annexure-IV
- v) Laying Methodology - Annexure-V
- vi) Indemnity Bond - Annexure-VI
- vii) License deed - Annexure-VII
- viii) Undertakings I - Annexure-VIII
- ix) Road plan - Annexure-IX
- x) MoU copy between M/s IOCL and M/s NHAI - Annexure-X

It is requested to kindly accord permission for laying of Steel pipeline for CGD network along the above-mentioned National Highway.

Thanking you.

Yours faithfully,


(Manila M)

Senior Manager (CGD), Madurai

M. MANILA / एम. मणिमल
Sr. Manager (CGD) / वरिष्ठ प्रबंधक (सीजीडी)
Indian Oil Corporation Limited
इंडियन ऑयल कॉर्पोरेशन लिमिटेड
Southern Region Pipelines
City Gas Distribution Project Office
F-10, Varapradha, Vasudhara
Apartments, Andaipuram, Madurai-03

729749/2023/PIU-TRICHY

Application Details [20230608/1/12/18651/2885]	
Highway	NH45B [NH45B]
Name of Highway Authority	
Highway Administration Address	
Whether the Fuel Station is part of Rest-area complex	No
Name of Applicant/Oil Company	INDIAN OIL CORPORATION LIMITED Address: F10 , Varapradha , Vasudhara apartments, Andalpuram, Madurai 625003, MADURAI (TAMIL NADU), PIN: 625003 Phn: 7013513309 Email: cgdmdu@gmail.com
Application Category	Public Utility
Utility	Natural Gas
State	TAMIL NADU
Type	New
Remarks	Permission for laying of City Gas Distribution pipeline along NH38 from Km.123/900 to Km to 124/470 (LHS), Km 124/470 to Km. 124/840(RHS) and crossing at Km. 124/470
Submitted On	08 Jun 2023 11:29:06

M. MANILA / एम. मणि
Sr. Manager (CGD) / वरिष्ठ प्रबंधक (सीजीडी)
Indian Oil Corporation Limited
इंडियन ऑयल कॉर्पोरेशन लिमिटेड
Southern Region Pipelines
City Gas Distribution Project Office
F-10, Varapradha, Vasudhara
Apartments, Andalpuram, Madurai-03

Details		
1. Length in Meters *		1050
2. Width of available ROW		
I. Left side from center line towards increasing chainage OR km direction *		38-55
II. Right side from center line towards increasing chainage OR km direction *		38-55
3. Proposal to lay the utility		
I. Left side from center line towards increasing chainage OR km direction *		Ch.123/900 km to Ch 124/470 km (0.5mtr from extreme end of the RoW)
II. Right side from center line towards increasing chainage OR km direction *		Ch.124/470 km to Ch 124/840 km (0.5mtr from extreme end of the RoW)
4. Proposal to acquire the land		
I. Left side from center line *		NA
II. Right side from center line *		NA
5. Whether proposal is in the same side where land is not to be acquired *		Yes
If not then where to lay the cable *		NA
6. Details of already laid services if any along the proposed route *		NIL
7. Number of Existing lanes *		4 Lane
8. Proposed number of lanes *		4 Lane
9. Service road Exists *		Yes


DGM (T) & PROJECT DIRECTOR
NATIONAL HIGHWAYS AUTHORITY OF INDIA
PIU-TRICHY - 620 001.

M. MANILA / एम. मणि
Sr. Manager (CGD) / वरिष्ठ प्रबंधक (सीजी)
Indian Oil Corporation Limited
इंडियन ऑयल कॉर्पोरेशन लिमिटेड
Southern Region Pipelines
City Gas Distribution Project
F-10, Varapradha, Vasudhara
Apartments, Andalpuram, Madurai-03

729749/2023/PIU-TRICHY

10. Proposed Service road		
Left side from center line		NA
Right side from center line		NA
11. Whether proposal to lay cable is after the service road or between the service road and main carriageway *		NA
12. Whether carrying OFC Cable has been proposed on highway /bridges, If yes then mention the methodology proposed for the same *		NA
13. Is crossing of the road involved? If Yes, is shall be either encased in pipes or through structure of conduits specially built for the purpose at the expense of the agency owing the line *		YES - One Road Crossing by HDD at Ch. 124/470km.
I. Whether the existing drainage structures are allowed to carry utility pipeline. *		NA
II. Is it on a line normal to NH? *		Yes
III. What is the distance of crossing the utility pipelines from the existing structure? Crossings shall not be too near the existing structures on the National Highway, the minimum distance being 15 mtrs. *		20.00

DGM (T) & PROJECT DIRECTOR
NATIONAL HIGHWAYS AUTHORITY OF INDIA
PIU-TRICHY - 820 001.

M. MANILA / एम. मनिला
 Sr. Manager (OGD) / वरिष्ठ प्रबंधक (सीजीडी)
 Indian Oil Corporation Limited
 इंडियन ऑयल कॉर्पोरेशन लिमिटेड
 Southern Region Pipelines
 City Gas Distribution Project Office
 F-10, Varapradha, Vasudhara
 Apartments, Andalpuram, Madurai-625 011

729749/2023/PIU -TRICHY

IV. 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 casting. *		NA. Crossing shall be done by HDD (Trench less Method)
V. Ends of the casing/conduit pipe shall be sealed from outside, so that is does not act as a drainage path *		NA
VI. The casing/conduit pipe should be as minimum extend from drain in cuts toe of slope in fills. *		NA
VII. The installation of Casing pipe shall be as per attachment-1 of Ministry's Guidelines dated 22.11.2016 *		NA
VIII. Mention the methodology proposed for crossing of road for the proposed sewerage / gas pipeline crossing shall be boring method (HDD) (Trenchless Technology) specially where the existing road pavement is of cement concrete of dense bituminous concrete type. *		Crossing shall be done by HDD (Trench less Method)

14. Whether the proposal satisfies the following:

DGM (I) & PROJECT DIRECTOR
NATIONAL HIGHWAYS AUTHORITY OF INDIA
PIU-TRICHY - 620 001.

M. MANILA / एम. मनिला
 Sr. Manager (GSD) / प्रमुख, प्रबंधक (सीजीडी)
 Indian Oil Corporation Limited
 इंडियन ऑयल कॉर्पोरेशन लिमिटेड
 Southern Region Pipelines
 City Gas Distribution Project Office
 Madha, Vesudhara
 Apartments, Andalpuram, Madurai-625 009

729749/2023/PIU-TRICHY

V. Where land strip for utility corridor can't be conveniently earmarked (available ROW restricted to the toe of the embankment) for laying of cable/ducts, the permission may be refused. *		YES
15. Document/Drawings enclosed with the proposal *		Yes
I. Cross section showing the size of trench for open trenching method (is it normal size of 1.2m (min.) deep x 0.3 wide) *		Enclosed
II. Cross section showing the size of pit and location of cable for HDD method *		Enclosed
III. Strip plan/ Route plan showing the OFC, Chainage width of ROW, distance of proposed, cable from the edge of ROW, important mile stone, intersections, cross drainage works etc. *		Enclosed
IV. Methodology of laying of the Utility Pipeline/OFC *		Opencut/HDD
V. 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 of trench *		As per drawing enclosed. The trench will be restored to its original condition.


DGM (T) & PROJECT DIRECTOR
NATIONAL HIGHWAYS AUTHORITY OF INDIA
PIU-TRICHY - 620 001.

M. MANILA / एम. मनीला
 Sr. Manager (CGD) / वरिष्ठ प्रबंधक (संजीडी)
 Indian Oil Corporation Limited
 इंडियन ऑयल कॉर्पोरेशन लिमिटेड
 Southern Region Pipelines
 City Gas Distribution Project Office
 F-10, Varapradha, Vasudhara
 Apartments, Andalpuram, Madurai-03

729749/2023/PIU -TRICHY

I. Where the ROW is more than 45 M then the duct cable shall be laid at the edge of right of way within the utility corridor of 2 M width, duly keeping in view the future widening. *		YES
II. Where land is yet to be acquired for 4 laning and the position of new carriageway has been decided then the cable shall be laid at the edge of right of way within the utility corridor of 2 M width, on that side of existing carriageway where extra land is not proposed to be acquired for 4 laning. *		YES
III. Where the widening plan for 4 laning is not yet decided and available ROW is around 30 M or less, a judicious decision would need to be taken for permitting the laying of cable/duct. This could be within 1.5 M to 2m of utility corridor at the edge of existing ROW, duly keeping in view the possible widening plans. *		YES
IV. Where ROW is restricted and adequate only to accommodate the carriageway, central verge, shoulders and drains (e.g. Highways in cutting through hilly/rolling terrain), the cable shall be laid clear of the drain. *		YES


DGM (T) & PROJECT DIRECTOR
NATIONAL HIGHWAYS AUTHORITY OF INDIA
PIU-TRICHY - 620 001.

M. MANILA / एम. मनील
 Sr. Manager (CGD) / वरिष्ठ प्रबंधक
 Indian Oil Corporation Limited
 इंडियन ऑयल कॉर्पोरेशन लिमिटेड
 Southern Region Pipeline
 City Gas Distribution Project
 F-10, Varapradha, Vasudhara
 Apartments, Andalpuram, Madurai

729749/2023/PIU-TRICHY

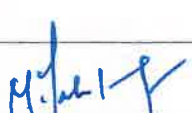

(a) The trench width should be at least 30 cms but not more than 60 cms wider than the outer diameter of the pipe *		YES
(b) For filling of the trench, bedding shall be to a depth of not less than 30 cms. It shall consist of granular material, free of lumps, clods, cobbles and graded to yiled firm surface without sudden change in the bearing value, unsuitable soil and rock edges should be excavated and replaced by selected material *		YES
(c) The backfill shall be completed in two stages, i) Side fill to the level of the top of the pipe and ii) Overfill to the bottom of the road crust *		YES
(d) The side fill shall consist of granular material laid in 15 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. *		YES


DGM (T) & PROJECT DIRECTOR
NATIONAL HIGHWAYS AUTHORITY OF INDIA
PIU-TRICHY - 620 001.

M. MANILA / एम. मनिला
 Sr. Manager (CGD) / वरिष्ठ प्रबंधक (सीजीडी)
 Indian Oil Corporation Limited
 इंडियन ऑयल कॉर्पोरेशन लिमिटेड
 Southern Region Pipelines
 City Gas Distribution Project Office
 F-10, Varapradha, Vasudhara
 Apartments, Andalpuram, Madurai-03



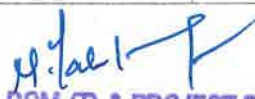
729749/2023/PIU -TRICHY

(e) The road crust shall be built to the same strength as existing crust on either side of the trench. Care shall be taken to avoid the formation of a dip at the trench. *		YES
(f) The excavation shall be protected by flagman, signs and barricades and red lights during night hours. *		YES
(g) If required, a diversion shall be constructed at the expense of agency owing the utility line. *		YES
VI. Horizontal Directional Drilling (HDD) Method *		Yes , as shown in the drawing
VII. Laying OFC through CD Works and Method of laying (Whether to be hung outside parapet). *		NA
16. Draft license Agreement signed by two witnesses. *		NA. As per MoU dated 07.06.2022 , clause no.2(b) , license fee is not applicable for IOCL
I. The license fee estimate as per Ministry's guidelines issued vide circular no. RW/NH/33044/29/2015/S&R dated 22.11.2016. *		NA. As per MoU dated 07.06.2022 , clause no.2(b) , license fee is not applicable for IOCL
17. Whether Performance Bank Guarantee is as per Ministry's guidelines issued vide circular no. RW/NH/33044/29/2015/S&R, dated 22.11.2016. *		Yes
I. Confirmation of BG has been obtained as per MoRTH guidelines *	 DGM (T) & PROJECT DIRECTOR NATIONAL HIGHWAYS AUTHORITY OF INDIA PIU-TRICHY - 620 001.	Yes  M. MANILA / एम. मनीला Sr. Manager (CGD) / वरिष्ठ प्रबंधक (सी) Indian Oil Corporation Limited इंडियन ऑयल कॉर्पोरेशन लिमिटेड Southern Region Pipelines City Gas Distribution Project F-10, Varapradha, Vasudha Apartments, Andalpuram, Madurai

729749/2023/PIU -TRICHY

18. Affidavit/Undertaking from the Applicant for following is to be furnished

a) Undertaking not to Damage to other utility, if damage then to pay the losses either to NHAI or the concerned agency. *		Yes
b) Undertaking Renewal of Bank Guarantee as and when asked by MoRTH. *		Yes
c) Undertaking Confirming all standard condition of Ministry's guidelines. *		Yes
d) Undertaking for indemnity against all damages and claims *		Yes
e) Undertaking for management of traffic movement during laying of utility line without hampering the traffic *		Yes
f) Undertaking that if any claim is raised by the concessionaire/ contractor then the same has to be paid by the applicant. *		Yes
g) Undertaking that prior approval of the NHAI shall be obtained before undertaking any work of installation, shifting or repairs, or alteration to the utility located in the National Highway Right of Ways. *		Yes


DGM (T) & PROJECT DIRECTOR
NATIONAL HIGHWAYS AUTHORITY OF INDIA
PIU-TRICHY - 620 001.

8/11



M. MANILA / एम. मणिता
 Sr. Manager (CGD) / वरिष्ठ प्रबंधक (सीजीडी)
 Indian Oil Corporation Limited
 इंडियन ऑयल कॉर्पोरेशन लिमिटेड
 Southern Region Pipelines
 City Gas Distribution Project Office
 F-10, Varapredha, Vasudhara
 Apartments, Andalpuram, Madurai-03

h) Undertaking that expenditure is any incurred by NHAI for repairing any damage cause to the NH by laying, maintenance of shifting of the utility line will be borne by the applicant agency owing the line. *		Yes
i) Undertaking that text of the license deal is as per verbatim of format issued by MoRTH vide circular no. RW/NH/33044/29/2015/S&R dated 22.11.2016 *		Yes
j) Undertaking for shifting of utility as and when asked by MoRTH/ NHAI. *		Yes
k) Certificate from the applicant in the following format		
l) We do undertake that I/we will relocate service road/approach road/utilities at my/our own cost not withstanding the permission granted within such time us will be stipulated by NHAI for future six laning or/any other development		
19. Who will sign the agreement on behalf of Applicant agency? Power of Attorney to sign the agreement is available or not. *		Senior Manganer (CGD) ,Madurai
20. The Power of Attorney is in favour of authorized signatory? *		Yes

M. Manila
DGM (T) & PROJECT DIRECTOR
NATIONAL HIGHWAYS AUTHORITY OF INDIA
PIU-TRICHY - 620 001.

9/11

M. Manila

M. MANILA / एम. मनीला
Sr. Manager (CGD) / वरिष्ठ प्रबंधक (सीजीडी)
Indian Oil Corporation Limited
इंडियन ऑयल कॉर्पोरेशन लिमिटेड
Southern Region Pipelines
City Gas Distribution Project Office
F-10, Varapradha, Vasudhara
Apartments, Andalpura, Madurai-03

Locations						
Sno	State	District	Highway /Stretch	Start Point	End Point	View
1	TAMIL NADU	MADURAI	NH45B [NH45B] (0.000-264.000) From Km: 0 To Km: 264	Chainage Point: 123.9 Lat: 9.934 Lng: 78.169	Chainage Point: 124.84 Lat: 9.926 Lng: 78.169	View

Documents				
Sno	Stage	Document	Mandatory	Action
1	Under Submission	Layout and Drawings	Yes	View
2	Under Submission	Any Other Supporting Document	No	View
3	Under Submission	Any Document to indicate commercial activities are allowed on the land.	No	--
4	Under Submission	Safety Clearance from Directorate of Electricity	No	--
5	Under Submission	Safety Clearance from Chief Controller of Explosives	No	--
6	Under Submission	Safety Clearance from Petroleum and Explosives Safety Organisation	No	--
7	Under Submission	Safety Clearance from Oil Industry Safety Directorate	No	--
8	Under Submission	Safety Clearance from State/Central Pollution Control Board	No	--
9	Under Submission	Any Other Statutory Clearance as applicable	No	--

Applicable Fee Details					
Sno	Fee Head	Stage	Fee	Amount	Status
1	Utility Fees	Technical Approval	License Fees	202055.41	

M. MANILA / एम. मनिला
Sr. Manager (CGD) / वरिष्ठ प्रबंधक (सीजीड)
Indian Oil Corporation Limited
इंडियन ऑयल कॉर्पोरेशन लिमिटेड
Southern Region Pipelines
City Gas Distribution Project Office
F-10, Varapradha, Vasudhara
Apartments, Andalpuram, Madurai-03

इंडियन ऑयल कॉर्पोरेशन लिमिटेड

दक्षिण क्षेत्र पाइपलाइन्स

एन्नोर - तिरुवल्लूर - बेंगलूर - पुदुच्चेरी

- नागपट्टिनम - मदुरै - तूतिकोरिन पाइपलाइन

एफ - 10, वसुधरा, वसुधरा अपार्टमेंट,

आण्डालपुरम, मदुरै- 625 003.

टेलीफोन :

Indian Oil Corporation Limited

Southern Region Pipelines

Ennoor - Tiruvallur - Bangalore - Puducherry

- Nagapattinam - Madurai - Tuticorin Pipeline

F-10, Varapradha, Vasudhara Apartments

Andalpuram, Madurai - 625 003.

Tele :



IndianOil

पाइपलाइन्स प्रभाग
Pipelines Division

SRPL/CGD/MDU/22/MISC/12

Date:05.07.2022

TO WHOMSOEVER IT MAY CONCERN**Sub: Power of Attorney of the Authorized Signatory**

This is to certify that **Ms. M. Manila, SM(CGD)**, Southern Region Pipelines, Madurai is authorized to sign & submit applications on behalf of Indian Oil Corporation Ltd., Southern Region Pipelines for obtaining various permissions for establishing steel, MDPE and CNG network including but not limited to NH/NHAI, Railways, Municipal Corporation, PWD, Forest, Urban development authorities and similar Central & State Government Authorities in Madurai Geographical Area for City Gas distribution project (CGD project).

Specimen Signature:

M.Manila

Senior Manager (CGD)

(Shailesh Tiwari)

Executive Director

Southern Region Pipelines

शैलेश तिवारी / SHAILESH TIWARI
एग्जिक्यूटिव डायरेक्टर / Executive Director
इंडियन ऑयल कॉर्पोरेशन लिमिटेड
Indian Oil Corporation Limited
Southern Region Pipelines



पेट्रोलियम एवं प्राकृतिक गैस विनियामक बोर्ड
Petroleum and Natural Gas Regulatory Board
 प्रथम-तल, वर्ल्ड ट्रेड सेंटर, बाबर रोड, नयी दिल्ली 110001

1st Floor, World Trade Centre, Babar Road, New Delhi – 110001

फैक्सनं./Fax No. 91 11 23709151; E-mail: contact@pngrb.gov.in

PNGRB/Auth/CGD(63)/2021/11.50

23rd March, 2022

To

Shri S. K. Sharma
Executive Director (CGD)
 Indian Oil Corporation Limited
 Pipeline Division,
 A-1 Udyog Marg,
 Sector-1 Noida- 201301
 Uttar Pradesh

Subject: Grant of Authorization to Indian Oil Corporation Limited for development of City Gas Distribution Network in the Geographical Area of Madurai, Theni and Virudhnagar districts

Sir,

With reference to submission of Performance Bank Guarantee for Rs. 50 crore vide your letter dated 16.02.2022, as per the requirement under Regulation 10 (1) of the Petroleum and Natural Gas Regulatory Board (Authorizing Entities to Lay, Build, Operate or Expand City or Local Natural Gas Distribution Networks) Regulations, 2008, please find enclosed authorization in Schedule D for the GA of **Madurai, Theni and Virudhnagar districts** in duplicate.

2. You are requested to put your stamp & signature on each page of the document and return one copy, within 7 days of receipt of this communication, to the PNGRB for records.
3. The enclosed authorization issues with the approval of the Board.

Yours faithfully

Encl: As above

Vandana Sharma
 (Vandana Sharma)

Secretary

वन्दना शर्मा / VANDANA SHARMA
 सचिव / Secretary

पेट्रोलियम और प्राकृतिक गैस विनियामक बोर्ड
 Petroleum & Natural Gas Regulatory Board
 प्रथम तल, वर्ल्ड ट्रेड सेंटर,
 1st Floor, World Trade Centre,
 बाबर रोड, नयी दिल्ली-110001
 Ushar Road, New Delhi-110001

Schedule D**Grant of authorisation for laying, building, operating or expanding CGD network**

To

Shri S. K. Sharma
Executive Director (CGD)
 Indian Oil Corporation Limited
 Pipeline Division,
 A-1 Udyog Marg,
 Sector-1 Noida- 201301
 Uttar Pradesh

Subject: Grant of Authorization for laying, building, operating or expanding CGD network in the authorized area of Madurai, Theni and Virudhnagar districts in the State of Tamil Nadu under the Petroleum and Natural Gas Regulatory Board (Authorising Entities to Lay, Build, Operate or Expand City or Local Natural Gas Distribution Networks) Regulations, 2008

Sir,

With reference to your application-cum-bid for grant of authorisation for laying, building, operating or expanding the City Gas Distribution (CGD) network in **GA-11.50 Madurai, Theni and Virudhnagar districts** in the State of **Tamil Nadu**, it has been decided to grant you the authorisation subject to the Petroleum and Natural Gas Regulatory Board (Authorising Entities to Lay, Build, Operate or Expand City or Local Natural Gas Distribution Networks) Regulations, 2008 and the following terms and conditions, namely:-

1. The Authorised Area for laying, building, operating or expanding the proposed CGD Network shall cover the following Charge Areas, as depicted in indicative and not to scale drawing or map,

S. no.	District Name	Charge Area Name
1	Madurai	Melur, Madurai East, Madurai North, Madurai South & Madurai West
2		Kalligudi, Thirumangalam & Thirupparankundram
3		Usilampatti, Peraiyur & Vadipatti
4	Theni	Bodinayakanur, Periyakulam & Theni
5		Andipatti & Uthamapalayam
6	Virudhnagar	Kariapatti & Tiruchuli
7		Aruppukkottai
8		Virudhunagar, Rajapalayam & Srivilliputhur
9		Sattur, Sivakasi, Vembakottai & Watrap

Vandana Sharma
 Director (CGD)
 Petroleum & Natural Gas Regulatory Board
 1st Floor, World Trade Centre,
 Babar Road, New Delhi-110001

2. The activities of laying, building, operating or expansion of the CGD Network shall commence immediately after the issuance of this authorisation.

3. The activities permitted above shall have to be completed as per the work programme mentioned below, namely: -

Serial Number	Description of work	Numbers
1	Number of CNG Stations (Online and Daughter Booster stations) to be installed within 8 contract years from the date of authorisation	201
2	Number of domestic Piped Natural Gas connections to be achieved within 8 contract years from the date of authorisation	2846696
3	Inch-km of steel pipeline to be laid within 8 contract years from the date of authorisation	2001

The entity shall be required to achieve the year-wise work programme within 8 contract years as per details given below:

PNG Connections (cumulative)		CNG Stations (cumulative)		Inch-km of steel pipeline (cumulative)	
By the end of contract year	% of work program	By the end of contract year	% of work program	By the end of contract year	% of work program
1 st	Nil	1 st	Nil	1 st	5
2 nd	10	2 nd	15	2 nd	20
3 rd	20	3 rd	30	3 rd	40
4 th	30	4 th	45	4 th	60
5 th	40	5 th	60	5 th	70
6 th	60	6 th	75	6 th	80
7 th	80	7 th	90	7 th	90
8 th	100	8 th	100	8 th	100

Note - In case derived numbers are in fraction, the same shall be rounded off to the nearest whole number and 0.5 shall be rounded off to next higher whole number.

4. Any failure on the part of the entity in complying with the milestones prescribed in the work programme shall lead to consequences as specified under regulation 16.

5. The entity shall design and install an optimal size of the infrastructure in terms of pipelines of various types including steel belting of the authorised area, online compressors of adequate capacity for compressing of natural gas into CNG, allied equipment and facilities in the CGD network depending upon the potential demand for natural gas. The infrastructure in the CGD network should be adequate to maintain uninterrupted flow of

Vandana Sharma
 Secretary
 Ministry of Petroleum and Natural Gas
 Petroleum & Natural Gas Regulatory Board
 1st Floor, World Trade Centre,
 Sector 17, Gurgaon-122001
 Babel Road, New Delhi-110001

natural gas in the pipelines and be also able to maintain supplies at adequate pressure to online CNG stations.

6. The entity shall maintain an uninterrupted supply of natural gas to all categories of customers in the CGD network. In the event of any disruption in the supply of natural gas in the CGD Network, first priority shall be accorded to restoration of supplies to domestic PNG customers. In case of disruption of supply to domestic PNG customers for more than twelve hours, the entity shall compensate the domestic customer on the following manner, namely: -

- (a) the normative volume of natural gas consumption for the first domestic PNG connection for cooking requirements based on last three months weighted average consumption per day to be applied for each day's disruption and multiplied by ten;
- (b) normative value of natural gas consumption shall be based on last three months' weighted average billing price of natural gas for supplies to the first domestic PNG connection for cooking requirements; and
- (c) the value of compensation shall be equal to normative volume of natural gas consumption as per clause (a) above multiplied by normative value as per clause (b) and shall be adjusted by allowing a credit to the domestic PNG Customer in the next billing cycle or in the next pre-paid smart card in case of smart card metering.

In case the disruption of supplies is attributed to any fault of the domestic PNG customer, no compensation shall be payable by the entity.

7. The entity is allowed an exclusivity period under the Petroleum and Natural Gas Regulatory Board (Exclusivity for City or Local Natural Gas Distribution Networks) Regulations, 2008, in respect of the following, namely:

- (a) 300 months from the date of issue of this communication for laying, building and expansion of the CGD network; and
- (b) 96 months from the date of issue of this communication in terms of an exemption from the purview of common carrier or contract carrier for the CGD network:

Provided that the entity meets the obligations in line with the Petroleum and Natural Gas Regulatory Board (Exclusivity for City or Local Natural Gas Distribution Networks) Regulations, 2008:

Provided further that the period of exclusivity allowed under sub-clause (a) or sub-clause (b) may be terminated before the expiry of the period mentioned above in line with the

Vandana Sharma
 SECRETARY
 PETROLEUM AND NATURAL GAS REGULATORY BOARD
 1st Floor, World Trade Centre,
 Saket, New Delhi-110001

provisions under Petroleum and Natural Gas Regulatory Board (Exclusivity for City or Local Natural Gas Distribution Networks) Regulations, 2008.

8. The authorised entity shall be required to take prior approval from the Board for creation of any lien, charge or hypothecation of the CGD network to secure finances for the project and furnish details of utilisation of funds. And, in case of raising funds from any financial institution or bank, the entity will be required to only inform the Board of the sanction of the funds within a period of seven days.

9. The entity shall submit a detailed and clear financial closure report to the Board within a period of two hundred and seventy days from the date of authorisation issued by the Board under regulation 10.

10. The entity shall publish on its website the transportation rate for CGD and transportation rate for CNG in the authorised area as per the following table namely: -

Serial Number	Description	Rate
1	Transportation rate for CGD - in rupees per million British Thermal Unit (Rs./MMBTU) for the first contract year	30
2	Transportation rate for CNG - in rupees per kilogram (Rs. /kg) for the first contract year	2
Note - Annual escalation shall be considered from the second contract year and onwards based on the "Wholesale Price Index (WPI) Data (2011-12 = 100)" for "All Group / Commodity", as normally available on the website of the Office of the Economic Adviser, Government of India, Ministry of Commerce and Industry, Department of Industrial Policy and Promotion (DIPP) on the link " http://eaindustry.nic.in/home.asp ."		

11. The entity shall publish the applicable retail selling price of PNG for all categories of customers and also for the purpose of invoicing in Rs. / MMBTU.

12. The entity shall publish and display the retail selling price of natural gas for the purpose of invoicing to CNG customers in Rs. / Kg at all natural gas dispensing stations.

13. The furnishing of performance bond of Rs. 500 Million is a guarantee for timely commissioning of the project as per the prescribed work programme in the bid and for meeting the service obligations during the operating phase of the project.

14. The entity shall comply with the applicable provisions under the Petroleum and Natural Gas Regulatory Board (Authorising Entities to Lay, Build, Operate or Expand City or Local Natural Gas Distribution Networks) Regulations, 2008, the Petroleum and Natural Gas Regulatory Board (Exclusivity for City or Local Natural Gas Distribution Networks) Regulations, 2008, relevant regulations for technical standards and specifications, including safety standards, any other regulations as may be applicable and the provisions of the Act.

Vandana Sharma
 Secretary
 Petroleum and Natural Gas Regulatory Board
 1st Floor, World Trade Centre,
 Bahar Road, New Delhi-110001

15. In case the authorisation of the entity is terminated, the Board may assign the rights and obligations of the entity to any agency or another entity on such terms and conditions, as it may deem fit. Further, the entity may be required, as per the directions of the Board, to continue the operations of the CGD network at the same level till another agency or entity appointed by the Board takes over the full control of the CGD network.

16. The entity shall comply with any other term or condition which may be notified by the Board in public interest from time to time.

You are requested to confirm your acceptance by filling-in the acceptance of the grant of authorisation provided below and return the same in original.

Yours faithfully

Dated: 23-03-2022

Vandana Sharma.

Name and Designation of Officer
On behalf of the PNGRB

मन्वत शर्मा / VANDANA SHARMA
अधीन /
Official Seal
पेट्रोलियम और प्राकृतिक गैस विनियामक बोर्ड
Petroleum & Natural Gas Regulatory Board
1st Floor, World Trade Centre,
बाबर रोड, नई दिल्ली-110001
Babar Road, New Delhi-110001

Acceptance of the Grant of Authorisation

I / We hereby accept the grant of authorisation issued by the PNGRB vide letter ref. PNGRB/Auth/CGD(63)/2021/11.50 dated _____ and agree to comply with all the terms and conditions subject to which I/ We have been granted the authorisation for laying, building, operating or expanding city or local natural gas distribution network in the authorised area of GA-11.50 (Madurai, Theni and Virudhnagar districts) in the State of Tamil Nadu.

Date:

Place:

Signature of the Entity or Authorised Signatory
Name and Official Seal

Bid No.: PNGRB/Auth/CGD(63)/2021/11.50

पेट्रोलियम एवं प्राकृतिक गैस विनियामक बोर्ड
Petroleum and Natural Gas Regulatory Board

GEOGRAPHICAL AREA : 11.50

MADURAI, THENI AND
VIRUDHNAGAR DISTRICTS

No. of Charge Areas : 9

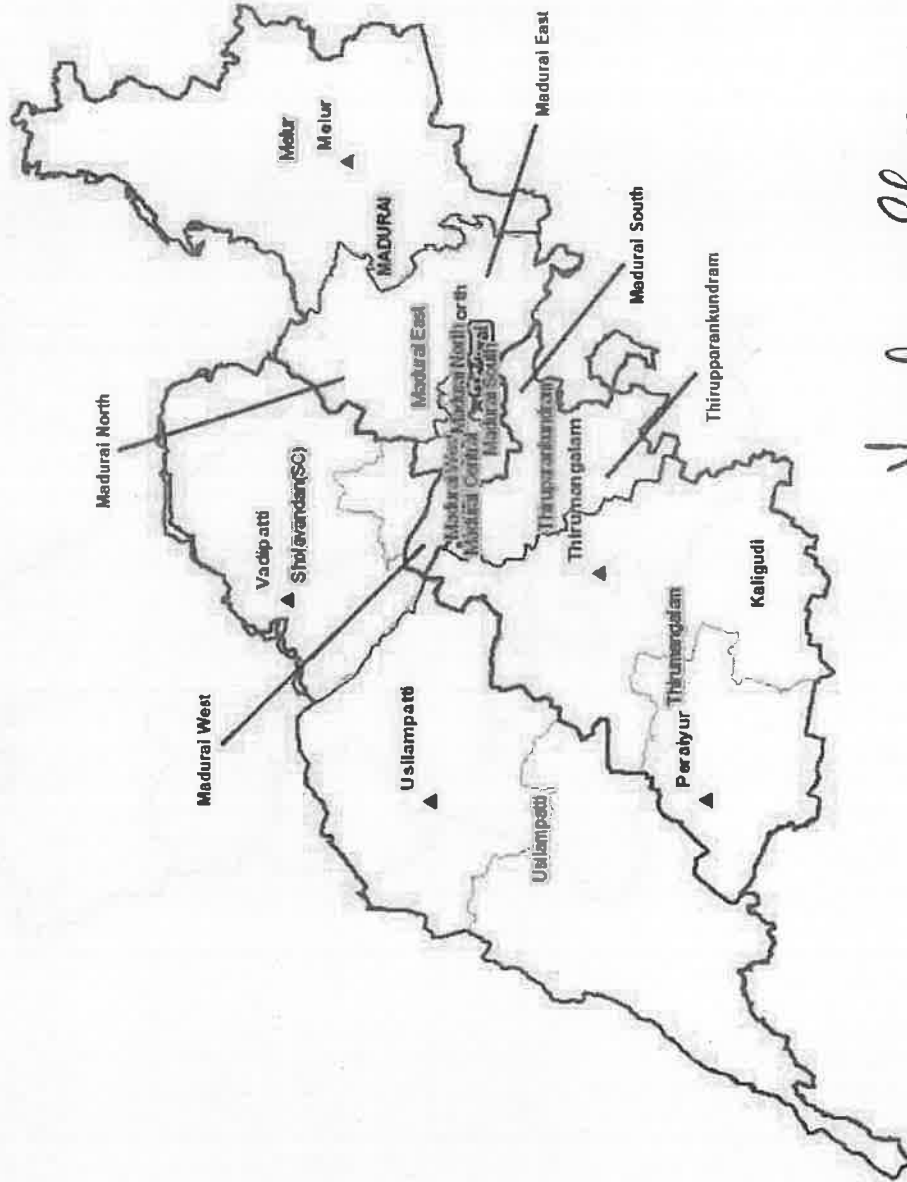
MAP (1 of 3)

DISTRICT: MADURAI

Charge Area No.	Charge Area
1	Melur, Madurai East, Madurai North, Madurai South & Madurai West
2	Kalligudi, Thirumangalam & Thirupparankundram
3	Usilampatti, Peraiyur & Vadipatti

Remarks :

1. Map is indicative, non GIS and not to scale.
2. Source : https://statgisportal.nic.in/statgisportal/Tamilnadu_BharatMaps/map.aspx




Vandana Sharma

अवकाश रमि / VANDANA SHARMA

पेट्रोलियम एवं प्राकृतिक गैस विनियामक बोर्ड
Petroleum and Natural Gas Regulatory Board
1st Floor, World Trade Centre
52001 Road, New Delhi-110001

Bid No.: PNGRB/Auth/CGD(63)/2021/11.50



पेट्रोलियम एवं प्राकृतिक गैस विनियामक बोर्ड
Petroleum and Natural Gas Regulatory Board

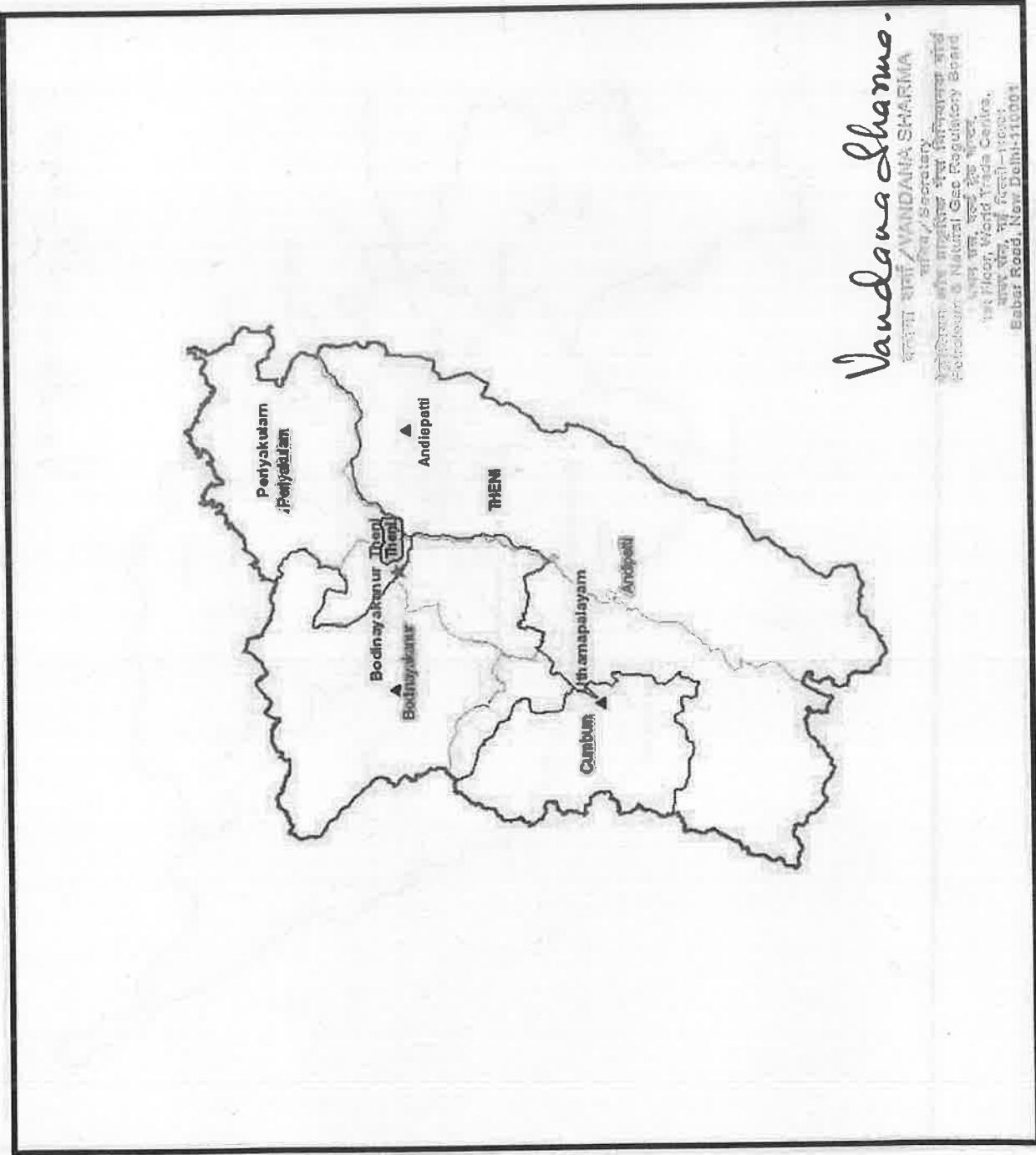
GEOGRAPHICAL AREA : 11.50
MADURAI, THENI AND
VIRUDHNAGAR DISTRICTS
No. of Charge Areas : 9
MAP (2 of 3)

DISTRICT: THENI	
Charge Area No.	Charge Area
4	Bodinayakanur, Periyakulam & Theni
5	Andipatti & Uthamapalayam

Remarks :

1. Map is indicative, non GIS and not to scale.

2. Source : https://stateregportal.nic.in/stateregportal/Tamilnadu_BharatMaps/map.aspx



Bid No.: PNGRB/Auth/CGD(63)/2021/11.50

पेट्रोलियम एवं प्राकृतिक गैस विनियामक बोर्ड
Petroleum and Natural Gas Regulatory Board

GEOGRAPHICAL AREA : 11.50

MADURAI, THENI AND
VIRUDHUNAGAR DISTRICTS

No. of Charge Areas : 9

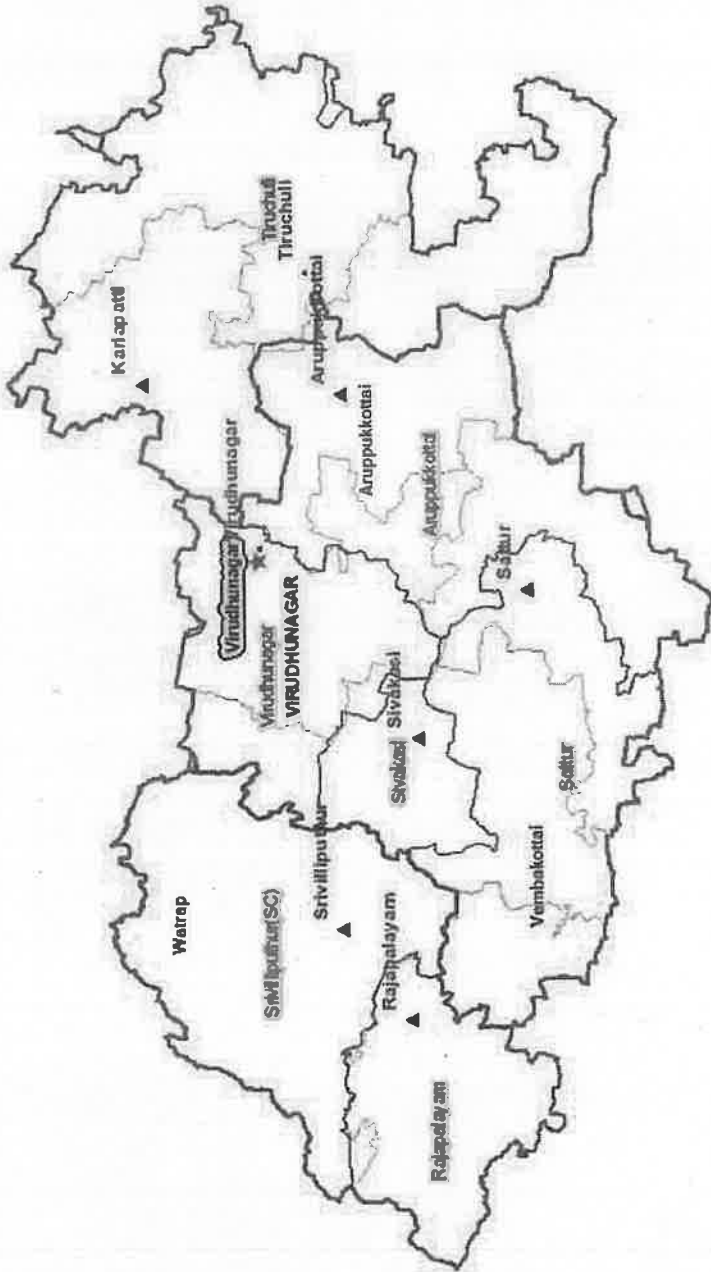
MAP (3 of 3)

DISTRICT: VIRUDHUNAGAR

Charge Area No.	Charge Area
6	Kariapatti & Tiruchuli
7	Aruppukkottai
8	Virudhunagar, Rajapalayam & Srivilliputhur
9	Sattur, Sivakasi, Vembakottai & Watrap

Remarks :

1. Map is indicative, non GIS and not to scale.
2. Source : https://statgisportal.nic.in/statgisportal/Tamilnadu_BharatMaps/map.aspx



Vandana Sharma.

Secretary, Petroleum and Natural Gas Regulatory Board

1st Floor, World Trade Centre,

1st Floor, World Trade Centre,


1st Floor, World Trade Centre,

1st Floor, World Trade Centre,

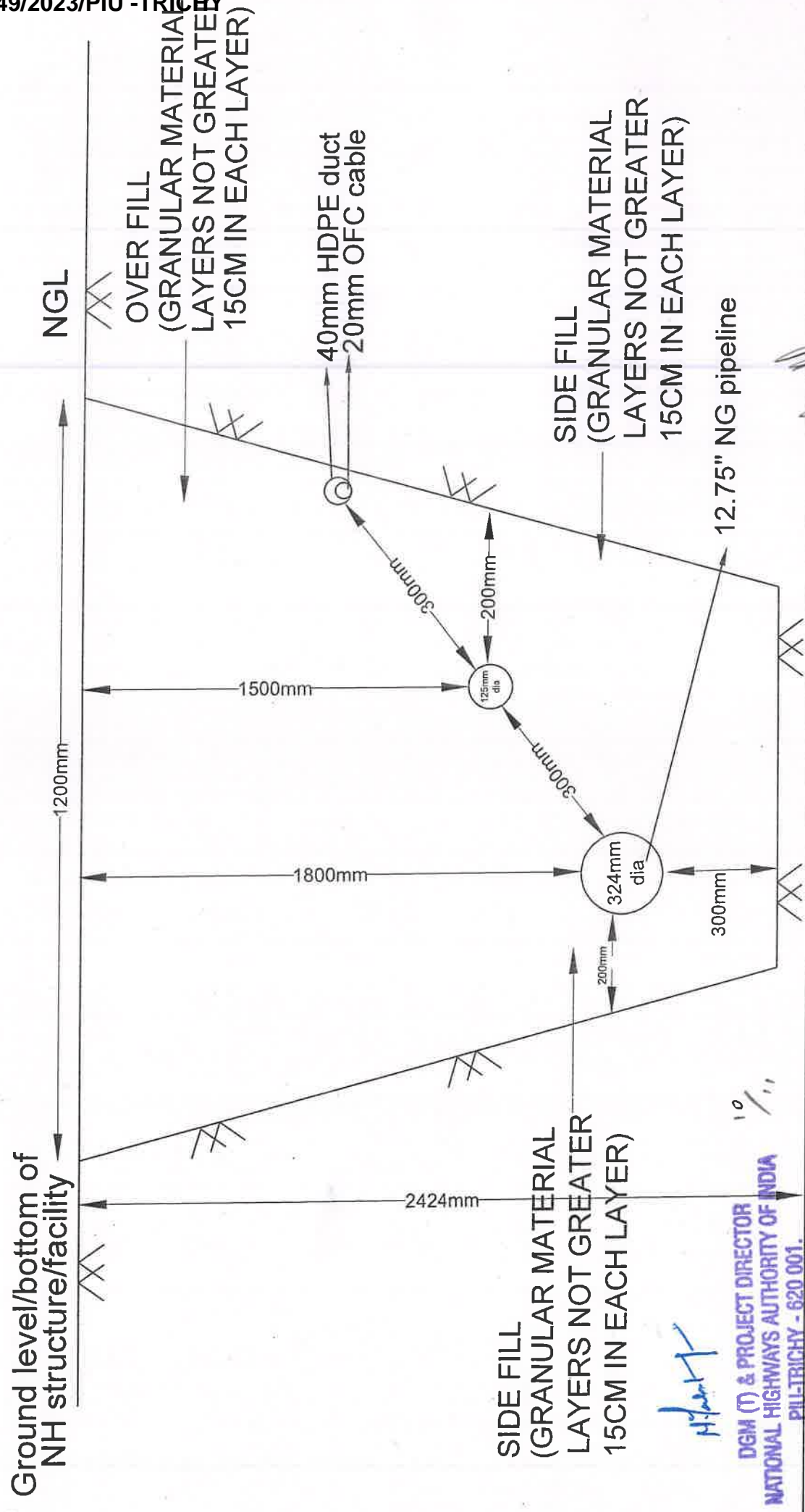
1st Floor, World Trade Centre,

1st Floor, World Trade Centre,

NH-38 Chainage Details									
S.No	Chainage		Steel Pipeline dia (in mm)	MDPE Diameter of pipeline (in mm)	HDPE dia (in mm)	Width (Total dia in mm)	Laying Side	Laying Methodology (Along NH38)	Length (in m)
	From	To							
1	123.900	124.240	324	125	40	489	LHS	Open cut	340
2	124.240	124.470	324	125	40	489	LHS	HDD	230
3	124.470	124.470	324	125	40	489	Crossing	HDD crossing	110
4	124.470	124.840	324	125	40	489	RHS	HDD	370
Total length							1050		


 M. MANILA / एम. मनिला
 Sr. Manager (CGD) / सीनियर प्रबंधक (सीजीडी)
 Indian Oil Corporation Limited
 इंडियन ऑयल कॉर्पोरेशन लिमिटेड
 Southern Region Pipelines
 City Gas Distribution Project Office
 F-10, Varaprasanna, Vasuchara
 Apartments, Andalpuram, Madurai-03

Annexure - IV



M. MANILA / Sr. Engineer
Sr. Manager (OSD) / Sr. Manager (Project Office)
Indian Oil Corporation Limited
Project Office
CGD MADURAI
Asurghara
Madurai

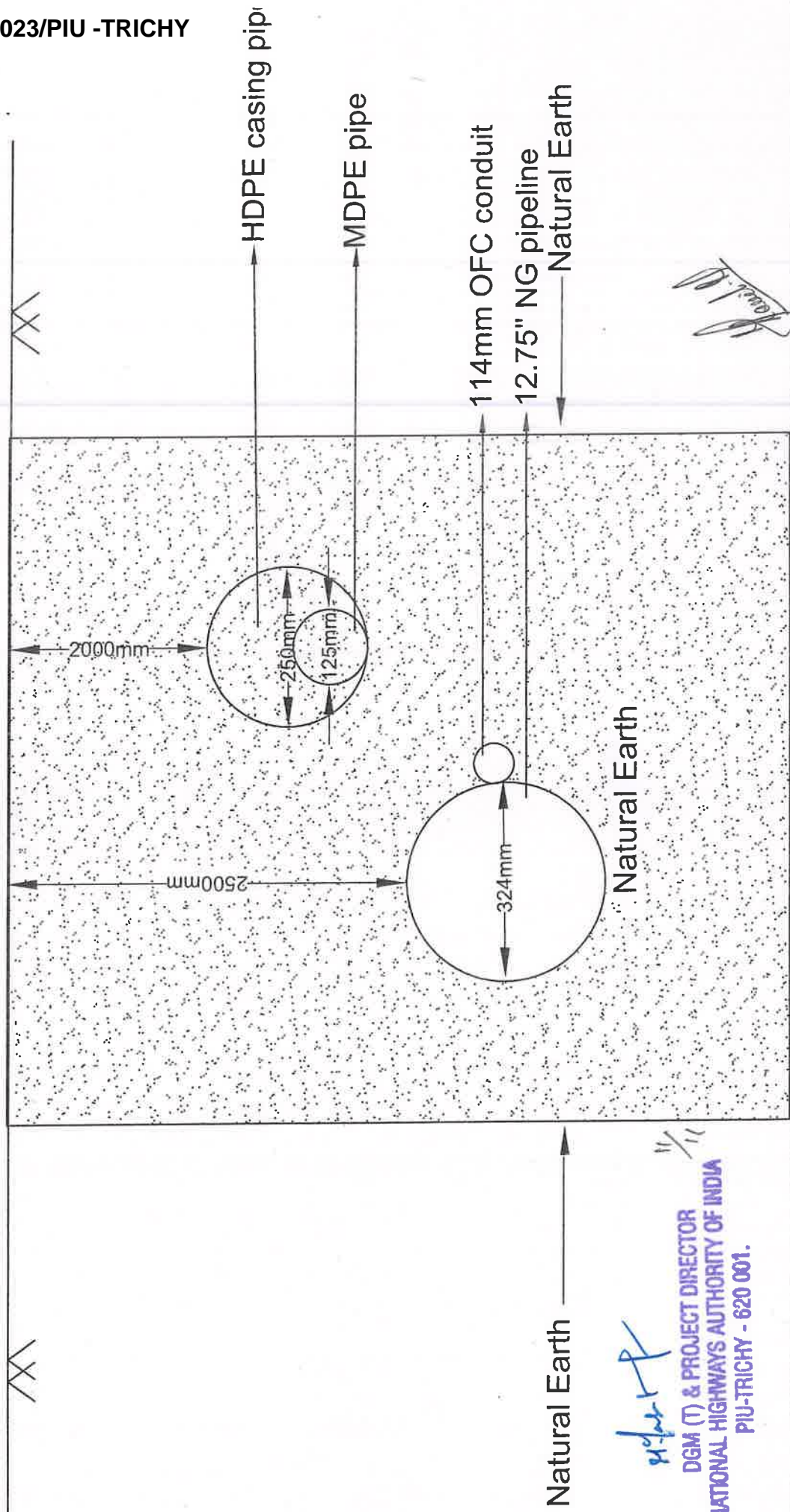
APPLICANT:

INDIAN OIL CORPORATION LIMITED
CGD MADURAI
CHAINAGE: 123/900 km to 124/240 km

TITLE:

Installation of carrier pipe
12.75" along with 125mm MDPE Natural gas
pipeline and 40mm HDPE pipe (Trench Method)

Ground level/bottom of NH structure/facility



TITLE: Cross section of HDD crossing at Ch. 124/470 km
Installation of steel carrier pipe
12.75" Natural gas pipeline along with 125mm MDPE and HDPE pipe (Trenchless HDD Method)

- NOTES:**
- 1. ALL DIMENSIONS ARE IN METER
 - 2. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED. DO NOT SCALE THE DRAWING
 - 3. DRAWING NOT TO SCALE

APPLICANT:
INDIAN OIL CORPORATION LIMITED
CGD MADURAI
F-10, Varapradha, Vasudhara
Aparthanna, Andalapuram, Madurai-03

Methodology of Laying Pipes –Open Trenching &Trenchless (HDD)

1. Trenching Method:

Laying of Pipe along the mentioned route will be done by conventional method/manual and machine Trenching method. The Dimension of the Trench will be 1.5m in depth and 1.0m in width .The pipe laying work will be carried out in phased manner in such a way that after the Pipes are laid, the trench will be restored to its Original surface. Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m, from top of pipe including getting out the excavated soil and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 500m.

2. Trench Filling Method:

As a measure of abundant precaution against future settlement and other allied problems, only selected granular material will be used in filling restoration of trenches. The entire depth of cutting will be filled either with coarse sand or the excavated material, compacted in layers not exceeding 20cm when compacted by ordinary power roller/plate compacter. Special compaction equipment like plate compacter, frog hammer will be utilized besides ordinary power roller.

3. Trenchless Crossing: HDD Method

Horizontal Directional Drilling (HDD) is a Technique for installing product pipes, including utility lines, below ground using a surface-mounted drill rig that launches and places and drill string at a shallow angle to the surface and has tracking and steering capabilities. In recent years HDD has been the preferred methodology due to several government policies conducive to infrastructure growth. Major crossings on the Route will be done by Horizontal Directional Drilling method without disturbing the road surface. Slurry liquid used in HDD will be disposed -off at suitable locations.



(Manila M)

Senior Manager (CGD), Madurai

M. MANILA / एम. मनीला
Sr. Manager (CGD) / वरिष्ठ प्रबंधक (सीजीडी)
Indian Oil Corporation Limited
इंडियन ऑयल कॉर्पोरेशन लिमिटेड
Southern Region Pipelines
City Gas Distribution Project Office
F-10, Varapradha, Vasanthara
Apartments, Andalpuram, Madurai-03



தமிழ்நாடு தமிழ்நாடு TAMILNADU

IOC CGD
MADURAI

CV 113639

முத்திரைத்தாள் ஒப்பினைப்பாளர்
4ஏ. நடன கோபால நாயகி 2வது தெரு
திருநகர் 5வது ஸ்டாப் மதுரை-625006
உரிமம் எண்.13/மதுரை தெற்கு/2021

INDEMNITY BOND

Name of Work: Permission for laying of City Gas Distribution (CGD) pipeline (public utility service) along NH-38 from Chainage km.123/900 to km.124/470 (LHS), km.124/470 to km.124/840 (RHS)

Indemnity against all damages and claims

We Indian Oil Corporation, Pipelines Division, CGD, Madurai, do hereby Indemnify to Project Director, NHAI, PIU, binding ourselves to all the losses and claims in respect of laying city gas distribution pipeline network along NH-38 from km.123/900 to km.124/470 (LHS), km.124/470 to km.124/840 (RHS) and across NH-38 at Ch. 124.470 km for a total length of 1.05 km in Madurai district

Or maintenance, thereof and against all claims, proceedings damages costs, charges and expenses whosoever in respect thereof, in relation there to, failing such payments of claims in the above work, we abide in accepting for recovery of such claims affected from any of our assets.

M. MANILA / एम. मनिলা
Sr. Manager (CGD) / सीनियर प्रबंधक (सीजीडी)
Indian Oil Corporation Limited
Sewerage & Drainage Division
City Gas Distribution Project Office
F-10, Vasupada Vasudhara
Apartments, Andalputam, Madurai-03



தமிழ்நாடு தமில்நாடு TAMILNADU

CV 113641

06.06.2023

IOC CGD
MADURAI

முத்திரைதான் விற்பனையாளர்
4ஏ, நடன கோபால் நாயகி 2வது தெரு
திருநகர் 5வது ஸ்டாப் மதுரை-625006
உரிமம் எண்.13/மதுரை தெற்கு/2021



AGREEMENT REGARDING GRANTING RIGHT OF WAY PERMISSIONS FOR LAYING OF UTILITY SERVICES ON NATIONAL HIGHWAYS AUTHORITY OF INDIA

Agreement to lay Underground Steel and MDPE pipelines with OFC along National Highway – NH -38 from Chainage KM 123/900 to KM 124/470 (LHS), KM 124/470 to KM 124/840 (RHS) and Crossing at KM 124/470 for Indian Oil Corporation Limited, Madurai City Gas Distribution project, Southern Region Pipelines by Open Cut method.

AN AGREEMENT made this..... day of.....month of..... between the NATIONAL HIGHWAYS AUTHORITY OF INDIA (hereinafter called the "Authority" which expression shall, unless excluded by or repugnant to the context, include his successors in office and assigns of the one part and INDIAN OIL CORPORATION LIMITED, SOUTHERN REGION PIPELINES, MADURAI (hereinafter called the 'Licensee' which expression shall, unless excluded by or repugnant to the context, include his successors/ administrator assignees on the second Part.

WHEREAS, the Authority is responsible, inter-alia, for development and maintenance of lands in increasing Chainage KM 123/900 to KM 124/470 (LHS), KM 124/470 to KM 124/840 (RHS) and Crossing at KM 124/470

WHEREAS, the licensee proposes to lay Steel & MDPE Pipelines along with OFC cable referred to as utility services in subsequent paras. Whereas the licensee has applied to the Authority for permission to

M. MANILA / எம். மனிலா

Manager (CGD) / வரிசைப் பரவக (சீஜிடி)

Indian Oil Corporation Limited

தமிழ்நாடு எண்ணெய் கம்பெனி லிமிடெட்

Southern Region Pipelines

City Gas Distribution Project Office

P-10, Vasepradha, Vasudhara

Apartham, Andaluram, Madurai-625006

lay utility services from highway Chainage KM 123/900 to KM 124/470 (LHS), KM 124/470 to KM 124/840 (RHS) and Crossing at KM 124/470 for City gas distribution (CGD) project.

AND WHEREAS, the Authority has agreed to grant such permission for way leave on the NH RoW as per terms and conditions hereinafter mentioned.

Now this Agreement witness that, in consideration of the conditions hereinafter contained and on the part of the Licensee to be observed and performed, the Authority hereby grants to the licensee permission to lay utility services (underground Natural gas steel pipeline for City gas distribution network) as per the approved drawing attached hereto subject to the following conditions, namely:-

1. RoW permissions are only enabling in nature. The purpose of extending the way leave facility on National Highway RoW is not for enhancing the scope of activity of a utility service provider, either by content or by intent. Further, enforceability of the permission so granted shall be restricted only to the extent of provisions/scope of activities defined in the license agreement and for the purpose for which it is granted.
2. No licensee shall claim exclusive right on the Row and any subsequent user will be permitted to use the RoW, either above or below or by side of the utilities laid by the first user subject to technical requirements being fulfilled. Decision of the Authority in relation to fulfillment of technical requirements shall be final and binding on all concerned parties. In case any disruption/damage is caused to any existing user by the subsequent user, the Authority shall not be held accountable or liable in any manner.
3. The Licensee shall be responsible for undertaking all activities including but not limited to site identification, survey, design, Engineering, arranging finance, Project Management, obtaining regulatory approvals & necessary clearances, supply of equipment, material, construction, erection, testing and commissioning, maintenance and operation and all other activities essential or required for efficient functioning of their own utility/industrial infrastructure facilities.
4. The licensee shall pay license fees @ Rs _____/sqm/Month to the Authority. The license fee shall become payable from the date of handing over of RoW land the Licensee, for laying of utilities/ Cables/Conduits/pipelines for infrastructure/service provider. As regards Tariff and Terms and conditions for providing common utility ducts along National highways, there shall be separate agreement regime.
5. Fee shall have to be paid in advance for the period for which permission is granted for entering in to a license agreement. In case of renewal, rate prevailing at the time of renewal shall be charged. Delay in deposition of fee shall attract interest @ 15% per annum compounded annually.
6. Present policy of the MoRT&H is to provide a 2.00m wide utility corridor on either side of the extreme edge of RoW. In cases where utility ducts with sufficient space are already available along NH, The utility services shall be laid in such ducts subject to technical requirements being fulfilled.
7. The utility services shall be laid at the edge of the RoW. In case of restricted width of RoW, which may be adequate only to accommodate the carriage way, central verge, shoulders, slopes

M. MANILA / एम. मनिला
 Manager (CGD) / वरिष्ठ प्रबंधक (सीजीडी)
 Indian Oil Corporation Limited
 सॉल्यूशन ऑफिस कॉर्पोरेशन लिमिटेड
 Southern Region Pipelines
 City Gas Distribution Project Office
 F-10, Varapradha, Vasudhara
 Apartment

of embankment, drains, other road side furniture etc: the utility services shall be laid beyond the toe line of the embankments and clear of the drain.

8. The Licensee shall make his own arrangement for crossing of cross drainage structures, rivers, etc. below the bed. In case this is not feasible, the utility services may be carried outside the railings/parapets and the bridge superstructure. The fixing and supporting arrangement with all details shall be required to be approved in advance from the concerned Highway Administration. Additional cost on account of fixing and supporting arrangement as assessed by the Authority shall be payable by the licensee.
9. In exceptional case where RoW is restricted the utility services can be allowed beneath the carriage way of the service road if available, subject to the condition that the utility services be laid in concrete ducts, which shall be designed to carry traffic on top. The width of the duct shall not be less than one lane. In such cases, it is also needs to ensure the 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.
10. It is to be ensured that at no time there is interference with drainage of the road land and maintenance of the National Highways. Towards this the top of the utility services shall be at least 0.6 meter below the ground level. However, any structure above ground shall be aesthetically provided for /landscaped with required safety measures as directed by the concerned authority.
11. The utility services shall be permitted to cross National Highways wither through structure or conduits specially built for that purpose. The casing/ conduit pipe should, as minimum extend from drain to drain in cuts and toe of slope to toe of slope in the fills and shall be designed in accordance with the provision of IRC and executed following the specifications of Ministry.
12. Existing drainage structures shall not be allowed to carry the lines across.
13. The top of the casing/conduit pipe containing the utility services to cross the road shall be at least 1.2m below the top of the subgrade or the existing ground level whichever is lower subject to being at least 0.3m below the drain inverts. A typical sketch showing the clearances is given in the attachment-I.
14. The utility services shall cross the National Highway preferable on a line normal to it or as nearly as practicable.
15. The casing/conduit pipe for crossing the road may be installed under the road embankment either by boring or digging a trench. Installation by boring method shall be preferred.
16. In case of trenching the sides of the trench should be done as nearly vertical as possible. The trench width should be at least 30cm but not more than 60cms wider than the outer diameter of pipe. Filling of the trench shall conform to the specifications contained herein below or as supplied by the Highway Authority.
 - a. Bedding shall be to a depth 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 edges should be excavated and replaced by selected material.
- b. The backfill shall be completed in two stages (1) side fill to the level of the top of the pipe (2) overfill to the bottom of the road crust.
 - c. The side fill shall consist of granular material laid in 15cm. Layers each consolidated by mechanical tamping and controlled addition of moisture to 95% of Proctor density. Overall, shall be compacted to the same density as a material that has been removed consolidation by saturation or ponding will not be permitted.
 - d. The road crust shall be built to the same strength as the existing crust on either side of the trench or to thickness and specifications stipulated by the highway authority
17. The licensee shall ensure making good the excavated trench for laying utility services by the proper filling and compaction, so as to restore the land in to the same condition as it was before digging the trench, clearing debris/ loose earth produced due to execution of trenching at least 50m away from the edge of the right of way
 18. All required restoration works subsequent to laying of the cable shall be required to be undertaken by the licensee at its cost either by itself or through its authorized representative in consultation with the authority as per predetermined time schedule and quality standards.
 19. Prior to commencement of any work on the ground a performance bank guarantee @Rs. -----per route metre/ Rs.----- Per Sq.m with a validity of one year initially (extendable if required till satisfactory completion of work) shall have to be furnished by the licensee to the Authority/ its designated agency as a security against improper restoration of ground in terms of filling/ unsatisfactory compaction damages caused to other underground installations/ utility services & interference, interruption, disruption or failure caused thereof to any services etc. In case of the licensee failing to discharge the obligation of making good of the excavated trench/ other restoration work, the Authority shall have a right to make good the damages caused by excavation, at the cost of the licensee and recover the amount by forfeiture of the Bank Guarantee.
 20. In case, the Performance Bank Guarantee is invoked as mentioned above, the Licensee shall be required to replenish and reinstate the required Performance Bank Guarantee within one month of such invoking. In case the work contemplated herein is not completed to the satisfaction of the Authority, which has granted the permission, within a period of one year. Notwithstanding this, the licensee shall be liable to pay full compensation to the aggrieved Authority/ its designated agency for any damage sustained by them by reason of the exercise of the RoW facility.
 21. The licensee shall shift the utility service within 90days (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/ bridge and restore the road/ land to its original conditions at his own cost and risk.
 22. The Licensee shall be responsible to ascertain from the respective agency in coordination with Authority, regarding the location of other utilities/ underground installations/ facilities etc. The Licensee shall ensure the safety and security of already existing underground installations/

M. MANILA / एम. मनिला

Sr. Manager (CSC) / सेंटि प्रबंधक (सीजीडी)

Indian Oil Corporation Limited

इंडियन ऑयल कॉर्पोरेशन लिमिटेड

Southern Region Pipelines

City Gas Distribution Project Office

F-10, Varapadha, Vasudhara

Apartments, Andajipuram, Madurai-625 009

utilities/ facilities etc. before commencement of the excavation/ using the existing cable ducts. The Licensee shall procure insurance from a reputed insurance company against damages to already existing underground installations/ Utilities/ facilities etc.

23. The Licensee shall be solely responsible/ liable for full compensation/ indemnification of concerned agency/ aggrieved Authority for any direct, indirect or consequential damage caused to them/ claims or replacements sought for, at the cost and risk of the Licensee. The concerned agency in coordination with Authority shall also have a right make good such damages/ recover the claims by forfeiture of Bank Guarantee.
24. If the Licensee fails to comply with any condition to the satisfaction of the Authority, the same shall be executed by the Authority at the cost and risk of the Licensee.
25. Grant of License is subject to the Licensee satisfying (a) minimum disruption of traffic and (b) no damage to the highways. As far as possible, the Licensee should avoid cutting of the road for crossing highway, and other roads and try to carry out the work by trenchless technology. In case any damage is caused to the road pavement in this process, the Licensee will be required to restore the road to the original condition at its cost. If due to unavoidable reasons the road needs to be cut for crossing or laying utility services, the Licensee has to execute the restoration work in a time bound manner at its cost either by itself or through its authorized representative in consultation with the Authority as per predetermined time schedule and quality standards. In case of the Licensee failing to discharge the obligation of making good of the damages caused by excavation, at the cost of the Licensee and recover the amount by forfeiture of the Bank Guarantee.
26. The Licensee shall inform/ give a notice to the concerned agency designated by the authority at-least 15 day in advance with route details prior to digging trenches, for fresh or maintenance/ repair works. A separate Performance Bank Guarantee for maintenance/ repair works shall have to be furnished by the licensee.
27. Each day the extent of digging the trenches should be strictly regulated so that utility services is laid and trenches filled up before the close of the work that day. Filling should be completed to the satisfaction of the concerned agency designated by the authority.
28. The Licensee shall indemnify the concern agency in coordination with Authority against all damages and claims if any due to the digging of trenches for laying cables/ ducts.
29. The Permission for laying utility services is granted maximum for 5 years at a time, which can thereafter be considered for renewal. On payment of additional fee at the time of renewal, the permission shall automatically be renewed, unless default exits. In case of renewal, rate prevailing at the time of renewal shall be charged. Delay in deposition of fee shall attract interest @15% per annum compounded annually.
30. The permission shall be valid only for the period it is issued and fee deposited. However, the Authority also has a right to terminate the permission or to extend the period of Agreement.

M. MANIJA एन. मनिजा
Sr. Manager (City Gas Distribution) (सीजीडी)
Indian Oil Corporation Limited
इंडियन ऑयल कॉर्पोरेशन लिमिटेड
Southern Region Pipelines
City Gas Distribution Project Office
F-10, Vasupragada, Vasudhara

31. That the Licensee shall not undertake any work of shifting, repairs or alterations to the utility services without prior written permission of the concerned agency in coordination with the Authority.
32. The permission granted shall not in any way be deemed to convey to the Licensee any ownership right or any interest in route/ road/highway land/ property, other than what is herein expressly granted. No use of NH RoW will be permitted for any other than that specified in the Agreement.
33. During the subsistence of this Agreement, the utility services located in highway land/ property shall be deemed to have been constructed and continued only by the consent and permission of the Authority so that the right of the licensee to the use thereof shall not become absolute and indefeasible by lapse of time.
34. The Licensee shall bear the stamp duty charged on this agreement.
35. Three copies of "as laid drawings" of the utilities (hard and soft copies) with geo-tagged photographs and geo-tagged video recordings of laying of cables in the trench (with respect to NH) and after complete restoration shall be submitted to the Authority for verification and record within a month of completion of works.
36. The Licensee shall allow the free access to the Site at all times to the authorized representatives of Authority to inspect the project facilities and to investigate any matter within their Authority, and upon reasonable notice, shall provide reasonable assistance necessary to carry out their respective duties and functions.
37. The utility services shall not be made operational by the Licensee unless a completion certificate to the effect that the utility services has been laid in accordance with the approved specifications and drawings and the trenches have been filled up to the satisfaction of the concerned agency in coordination with the Authority has been obtained. Notwithstanding anything contained herein, this agreement may be cancelled at any time by the Authority for the breach of any condition of the same and the Licensee shall neither be entitled to any compensation for any loss caused to it by such cancellation nor shall it be absolved from any liability already incurred.
38. The Licensee shall ensure adherence to relevant Indian Standards and follow the best industry practices, methods and standards for the purpose of ensuring the safe, efficient and economic design, construction, commissioning, operation, repair and maintenance of any part of the utility lines/Industrial infrastructure facilities and which practices, methods and standards shall be adjusted as necessary to take account of
 - a) Operation, repair and maintenance guidelines given by the manufacturers,
 - b) The requirements of Law
 - c) The physical conditions at the site and
 - d) The Safety of operating personnel and human beings.
39. The Licensee shall have to provide safety measures like barricading, danger lighting and other necessary caution boards while executing the work.



M. MANILA / एम. मनिला
Sr. Manager (CGD) / वरिष्ठ प्रबंधक (सीजीडी)

Indian Oil Corporation Limited
इंडियन ऑयल कॉर्पोरेशन लिमिटेड
Southern Region Pipelines
City Gas Distribution Project Office
F-10, Varaprasada, Veaudhars
Andhra Pradesh, India

40. While laying utility services, at least one lane of road shall be kept open to traffic at all times. In case of single lane roads, a diversion shall be constructed. If any traffic diversion works are found necessary during the working period such diversion shall be provided at the cost of the Licensee.
41. After the termination /expiry of the agreement, the Licensee shall remove the utility services within 90 days and the site shall be brought back to the original condition failing which the Licensee will lose the right to remove the utility services. However before taking up the work of removal of the utility services the Licensee shall furnish a Bank guarantee to the Authority for a period of one year for an amount assessed by the Authority as a security for making good the excavated trench by proper filling and compaction, clearing debris, loose earth, produced due to excavation of trenching at least 50m away from the edge of the RoW.
42. Any disputes in interpretation of the terms and conditions of this agreement or their implementation shall be referred to the redress mechanism prevailing in the Ministry and the decision of the redress mechanism shall be final and binding on all.
43. For PPP projects, in case of any loss incurred by the respective project concessionaries due to such laying/shifting of utility services by the licensee, compensation for the same shall be required to be borne by the licensee in mutual agreement with the respective project concessionaries. MoRT&H/NHAI/implementing authorities for the project shall not be liable to the concessionaire in any way in this regard.

This agreement has been made in duplicate on a stamp paper, each party to this agreement has retained one stamped copy each.

IN WITNESS WHEREOF THE PARTIES HERETO HAVE CAUSED THIS AGREEMENT TO BE EXECUTED THROUGH THEIR RESPECTIVE AUTHORISED REPRESENTATIVES THE DAY AND THE YEAR FIRST ABOVE WRITTEN.

SIGNED SEALED AND DELIVERED FOR ON BEHALF OF AUTHORITY.

BY SHRI _____

SIGNED ON BEHALF OF M/s INDIA OIL CORPORATION LIMITED (LICENSEE)

BY Ms. _____

HOLDER OF GENERAL POWER OF ATTORNEY DATED _____

EXECUTED IN ACCORDANCE WITH RESOLUTION NO. _____ DATED _____

PASSED BY THE BOARD OF DIRECTORS IN THE MEETING HELD ON _____

IN THE PRESENCE OF (WITNESS):

1.

2.



தமிழ்நாடு தமிழ்நாடு TAMILNADU

CV 113640

06.06.2023

IOC CGD
MADURAI

முத்திரைத்தாள் சம்பந்தமையானவர்
4ஏ, நடன கோட்டால் நாயகி 2வது தெரு
திருநகர் 5வது ஸ்டாப் மதுரை-625006
உரிமம் எண்.13/மதுரை தெற்கு/2021



UNDERTAKING FOR LAYING OF UNDERGROUND STEEL AND MDPE PIPELINES ALONG NATIONAL HIGHWAY - NH -38 INCREASING CHAINAGE KM 123/900 to KM 124/470 (LHS), KM 124/470 to KM 124/840 (RHS) AND CROSSING AT 124/470 FOR INDIAN OIL CORPORATION LIMITED, CITY GAS DISTRIBUTION PROJECT, SOUTHERN REGION PIPELINES, MADURAI

1. Indian Oil Corporation Limited, Pipelines Division, City Gas Distribution, Madurai shall be responsible for safety of all other underground facilities, such as electric lines, pipe of water supply and gas sewage lines etc., during trenching.
2. The Indian Oil Corporation Limited, Pipelines Division, City Gas Distribution, Madurai shall inform the concerned officer of NHAI appointed at least 15 days in advance before starting of work.
3. The Indian Oil Corporation Limited, Pipelines Division, City Gas Distribution, Madurai shall not, without the prior permission in writing to the concerned officer of NHAI undertake any work of shifting, repairs or alternations to the laid Indian Oil Corporation Limited, Pipelines Division, City Gas Distribution, Madurai.
4. NHAI shall not be responsible for any damage caused to the underground CGD pipeline or by any activity of NHAI on the permitted highway. The parties are agreed that the Indian Oil Corporation Limited, Pipelines Division, City Gas Distribution,

[Signature]

Madurai is laying underground CGD NG pipeline across the permitted highway at its own cost.

5. The Indian Oil Corporation Limited, Pipelines Division, City Gas Distribution, Madurai shall make good excavated trench for laying underground CGD NG pipeline by proper filling and compaction, so as to restore the land in the same condition as it was before digging trench and shall clear the debris /loose earth produced from the execution of trenching to the satisfaction of NHAI.
6. In any accident occurs during the execution or completion of work by the agency, the complete responsibility will be fully on the head or agency.
7. The Indian Oil Corporation Limited, Pipelines Division, City Gas Distribution, Madurai agrees to abide by the directions of the concerned officer of NHAI appointed in accordance with the National Highways act 1956 and rules in force.
8. We do undertake that we will relocate service/ approach road/ utilities at our own cost notwithstanding the permission granter within such times as will be stipulated by NHAI.
9. Indian Oil Corporation Limited, Pipelines Division, City Gas Distribution, Madurai agrees not to damage to other utility. If damages then to pay losses either to NHAI or to the concerned agency.
10. We do indemnity against all damages.
11. We do if any claim is raised by the concessionaire, then the same has to be paid by the applicant.
12. We do expenditure, if any incurred by NHAI for repairing any damage caused to the NHAI by the laying, maintenance or shifting of the underground CGD NG pipeline will be borne by the agency owning the line.
13. Indian Oil Corporation Limited, Pipelines Division, City Gas Distribution, Madurai agrees if the NHAI considers it is necessary in future to move the utility line for any work of improvement or repairs to the road, it will be carried out as desired by the NHAI at the cost of the agency owning the utility line within a reasonable time (not exceeding 60 days) of the intimation given.
14. Laying of underground CGD NG pipeline will not have deleterious effects of any of the bridge components and roadway safety for traffic.
15. For 6-laning "we do undertake that I will relocate service road/approach road /utilities at my own cost notwithstanding the permission granted within such time as will be stipulated by NHAI for future six laning or any other development".



M. MANILA / एम. मनिला
Sr. Manager (CGD) / सీनियर प्रबंधक (सीजीडी)
Indian Oil Corporation Limited
इंडियन ऑयल कॉर्पोरेशन लिमिटेड
Southern Region Pipelines
City Gas Distribution Project Office
F-10, Varadpradha, Vasudhara

16. All the restoration work will be carried out by Indian Oil Corporation Limited, Southern Region Pipelines, City Gas Distribution, Madurai up to the satisfaction of NHAI.
17. The Licensee shall make his own arrangement for crossing of cross drainage structures, rivers, etc. below the bed. In case this is not feasible, the utility services may be carried outside the railings/parapets and the bridge superstructure. The fixing and supporting arrangement with all details shall be required to be approved in advance from the concerned Highway Administration. Additional cost on account of fixing and supporting arrangement as assessed by the Authority shall be payable by the licensee.



(Manila M)

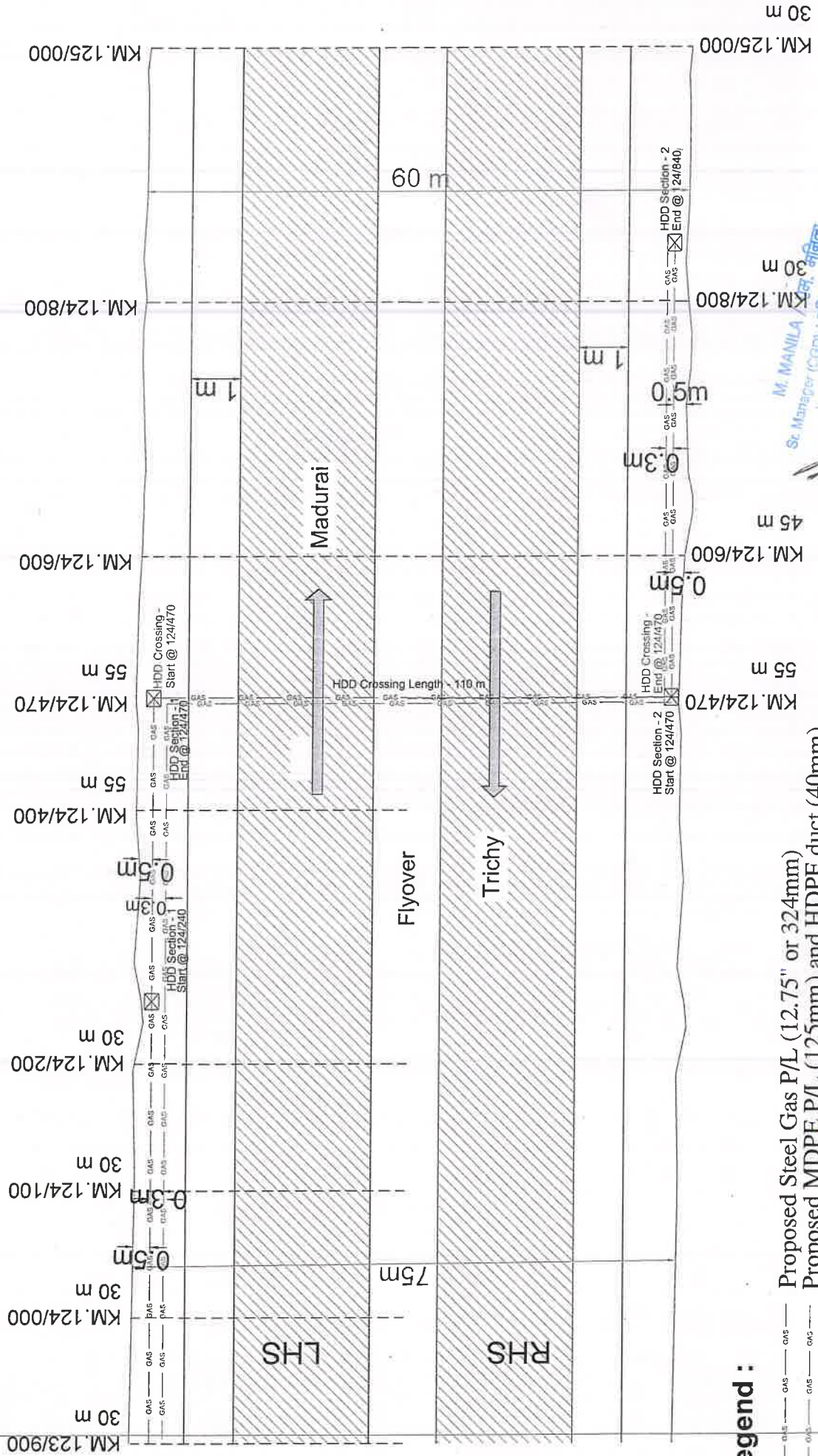
Senior Manager (CGD), Madurai

M. MANILA / एम. मनिला
Sr. Manager (CGD) / वरिष्ठ पबंधक (सीजीडी)
Indian Oil Corporation Limited
इंडियन ऑयल कॉर्पोरेशन लिमिटेड
Southern Region Pipelines
City Gas Distribution Project Office
F-10, Vasudhara, Vasudhara
Apartments, Andalpuram, Madurai-03

Annexure - X

Proposed Steel Gas Pipeline

Along National Highway - 38 Road from CH:KM.123/900 to KM.124/840



Proposed Steel Gas P/L (12.75" or 324mm)
Proposed MDPE P/L (125mm) and HDPE duct (40mm)

Legend :

- Proposed Steel Gas P/L (12.75" or 324mm)
- Proposed MDPE P/L (125mm) and HDPE duct (40mm)

Legend :

- Proposed Steel Gas P/L (12.75" or 324mm)
- Proposed MDPE P/L (125mm) and HDPE duct (40mm)

Legend :

- Proposed Steel Gas P/L (12.75" or 324mm)
- Proposed MDPE P/L (125mm) and HDPE duct (40mm)

Legend :

- Proposed Steel Gas P/L (12.75" or 324mm)
- Proposed MDPE P/L (125mm) and HDPE duct (40mm)



सत्यमेव जयते

INDIA NON JUDICIAL

Government of National Capital Territory of Delhi**e-Stamp**

Certificate No.	: IN-DL43131039471235U
Certificate Issued Date	: 07-Jun-2022 11:13 AM
Account Reference	: IMPACC (SH)/ dlshimp17/ SUPREME COURT/ DL-DLH
Unique Doc. Reference	: SUBIN-DLDSLHIMP1770917717202787U
Purchased by	: INDIAN OIL CORPORATION LIMITED
Description of Document	: Article 5 General Agreement
Property Description	: Not Applicable
Consideration Price (Rs.)	: 0 (Zero)
First Party	: INDIAN OIL CORPORATION LIMITED
Second Party	: Not Applicable
Stamp Duty Paid By	: INDIAN OIL CORPORATION LIMITED
Stamp Duty Amount(Rs.)	: 100 (One Hundred only)



Please write or type below this line

MEMORANDUM OF UNDERSTANDING**BETWEEN****INDIAN OIL CORPORATION LIMITED****AND****NATIONAL HIGHWAY AUTHORITY OF INDIA (NHAI)**

Page 1 of 10

Statutory Mark:

1. The authenticity of this Stamp certificate should be verified at www.shodasstamp.com or using e-Stamp Mobile App of Stock Holding Company of India.
 Any discrepancy in the details on this Certificate and as available on the website / Mobile App renders it invalid.
 The onus of checking the legitimacy is on the users of the certificate.

This Memorandum of Understanding (hereinafter referred to as "MoU") made at **NHAI, G-3, Sector-10, Dwarka, New Delhi** on this **8th of June 2022** ("Effective Date"),

by and between:

INDIAN OIL CORPORATION LIMITED, a company duly incorporated under the Companies Act, 1956 and having its registered office at G-9, Ali Yavar Jung Marg, Bandra (East), Mumbai – 400 051 (hereinafter referred to as "IOCL" which expression shall, unless repugnant to the context or meaning thereof, be deemed to include its successors and permitted assigns) of the First Part.

And

NATIONAL HIGHWAY AUTHORITY OF INDIA (hereinafter called NHAI) an autonomous Authority constituted by Act of Parliament, having its registered office at Sector 10, Dwarka, New Delhi - 110075, India, which expression shall, unless the context required otherwise, include its legal successors and permitted assigns (hereinafter referred to as "NHAI") of the Second Part.

IOCL and **NHAI** are individually referred to as "Party" and collectively as "Parties".

RECITALS:

WHEREAS; IOCL, a Maharatna Central Public Sector Undertaking under the administrative control of Ministry of Petroleum and Natural Gas (MoPNG), Government of India and is India's flagship national oil company with business interests straddling the entire hydrocarbon value chain – from refining, pipeline transportation and marketing of petroleum products to natural gas and petrochemicals.

WHEREAS; NHAI, is an autonomous agency of the Government of India under the Ministry of Road Transport and Highways (MoRTH) for development, maintenance, and management of National Highways across the country.

WHEREAS; In ever expanding networks of cross-country pipelines of IOCL and National Highways of NHAI, interfacing of these two structures and many locations is unavoidable.

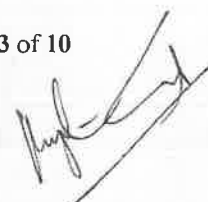
WHEREAS: Parties are desirous of simplification of the process of obtaining crossing permissions, optimization of the expenditure on the crossings and bringing about uniformity of such proceedings across the country.

WHEREAS; in furtherance of the same, NOW THEREFORE, it is understood between the parties as under:

- I. SCOPE AND APPLICABILITY:** The terms and conditions mentioned in this MoU will be applicable for complete network of NHAI's National Highways in National Highways Right of Way and IOCL's gas/ petroleum pipeline(s) across the country.
- II. DESCRIPTION OF PURPOSE:** This MOU is an understanding between the parties to express the mutual interest of the parties, within the framework of this MoU for amicable mutual interface for laying of gas/ petroleum pipeline(s) along and across National Highways Corridors and vice versa.
- III. OBLIGATIONS, DUTIES AND UNDERTAKINGS OF NHAI**

1. In respect of already laid gas/ petroleum pipeline(s):

- a. Wherever, the alignment of a National Highway ("NH") crosses an already laid gas/ petroleum pipeline(s) (i.e., pipeline(s) existing prior to declaration of said National Highway vide relevant Notification), NHAI shall either construct portal structure(s) over the existing pipeline (as per **Annexure-A**) or cause shifting of such operating pipeline(s) at NHAI's cost under supervision of IOCL.
- b. NHAI will inform IOCL regarding upcoming alignment of National Highways over IOCL's existing gas/ petroleum pipeline(s) as soon as NHAI becomes aware of such operating pipeline(s) to expedite the interface related formalities. However, NHAI may explore possibilities of expediting the information to IOCL regarding crossing of National Highways to IOCL's existing gas/ petroleum pipeline(s) during the land acquisition stage to expedite the crossing related formalities.



- c. NHAI will try to maximize the crossing angle i.e., near to 90 Deg to IOCL's gas/ petroleum pipeline(s).
- d. For crossing length exceeding 30m, NHAI to provide rectangular vent of minimum size, 3ft x 3ft in the RCC portal structure.
- e. NHAI will extend all possible support to IOCL during any exigency in IOCL's gas/ petroleum pipeline(s).
- f. Wherever, the alignment of an existing National Highway ("NH") crosses an already laid gas/ petroleum pipeline(s) (i.e., pipeline(s) laid after declaration of said National Highway vide relevant Notification), NHAI will allow IOCL to either shift or take suitable measures to protect its pipeline(s) at IOCL's cost within mutually agreed period of time upon receipt of notice from NHAI, if such pipeline obstructs the upgradation of the National Highway(s).

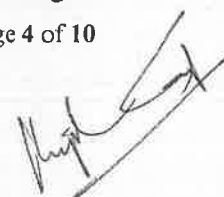
2. In respect of laying of new gas/ petroleum pipeline(s):

- a. NHAI will issue NOC to IOCL for laying gas/ petroleum pipeline(s) along and across National Highways in National Highways land (Right of Way) in 60 days period from the date of formal application by IOCL. Beyond this period of 60 days, it is understood by both the parties that the NOC stands issued.
- b. NHAI shall not levy any charges from IOCL and its agencies for laying new gas/ petroleum pipeline(s) along or across National Highways in National Highways Right of Way.
- c. NHAI will obtain Performance Security from IOCL before issuance of permission for laying gas/ petroleum pipeline(s) along and across National Highways in National Highways land (Right of Way).
- d. NHAI will extend all possible support during any exigency in IOCL's gas/ petroleum pipeline(s) at crossing location of NHAI to IOCL.

IV. OBLIGATIONS, DUTIES AND UNDERTAKINGS OF IOCL

1. In respect of already laid gas/ petroleum pipeline(s):

- a. Wherever, the alignment of a National Highway ("NH") crosses an already laid gas/



petroleum pipeline(s) (i.e., pipeline(s) existing prior to declaration of said National Highway vide relevant Notification), IOCL will allow NHAI to either construct portal structures over the existing pipeline (as per **Annexure-A**) or cause shifting of such operating pipeline(s) at NHAI's cost under supervision of IOCL.

- b. Wherever, the alignment of an existing National Highway ("NH") crosses an already laid gas/ petroleum pipeline(s) (i.e., pipeline(s) laid after declaration of said National Highway vide relevant Notification), IOCL to either shift or take suitable measures to protect its pipeline(s) at IOCL's cost within mutually agreed time period upon receipt of notice by NHAI, if such pipeline obstructs the upgradation of the National Highway(s).
- c. IOCL will not levy any charges on NHAI for constructing National Highways over their already laid gas/ petroleum pipeline(s).
- d. IOCL will obtain Insurance Cover from NHAI before allowing construction of National Highways over their already laid gas/ petroleum pipeline(s).
- e. IOCL will issue NOC to NHAI whenever under construction National Highway crosses over an already laid gas/ petroleum pipeline(s) (i.e. pipeline(s) existing prior to declaration of said National Highway vide Notification) in 60 days period from the date of formal application by NHAI. Beyond this period of 60 days, it is understood by both the parties that the NOC stands issued.
- f. IOCL will extend all possible support during any exigency in NHAI's National Highways in National Highways Right of Way at crossing location of IOCL to NHAI.

2. In respect of laying of new gas/ petroleum pipeline(s):

- a. IOCL, while laying gas / petroleum pipeline(s) across already constructed National Highways, will adopt Trenchless method throughout National Highways land (Right of Way) with the depth of topmost point of pipeline being at-least 1.5m below ground level/ bottom of any National Highway structure/ facility.
- b. IOCL shall bear all cost for laying of new pipeline along or across existing NH land (Right of Way).

- c. IOCL will try to maximize the crossing angle i.e., near to 90 Deg to NHAI's National Highways in National Highways Right of Way.
- d. IOCL will inform NHAI regarding crossing of IOCL's pipeline to National Highways during the land acquisition stage to expedite the crossing related formalities.
- e. IOCL will extend all possible support during any exigency in NHAI's National Highways in National Highways Right of Way at crossing location of IOCL to NHAI.

V. DEFINITIVE AGREEMENT:

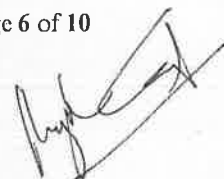
1. The Parties may enter into separate agreement(s) in terms of this MoU on specific work association of the parties for crossing permissions and shall identify inter alia the methodology of crossing, division of their individual scope of work, division of responsibilities and respective liabilities, expenses etc.
2. Such definitive agreements would be binding on the parties and would be entered into generally as per the understanding contained in this MoU, upon approval by competent authorities of the parties.
3. In case of any contradiction/ discrepancy in any of the clauses of MoU and the definitive agreement(s), the definitive agreement shall prevail. However, clauses of the definitive crossing agreement (s) to be made in line with this MoU conditions for both the parties.

VI. NON-EXCLUSIVITY:

The understanding between the Parties under this MoU shall be initially on non-exclusive basis. However, the understanding shall be on exclusive basis contingent upon parties entering into definitive agreement as stipulated above.

VII. BINDING UNDERSTANDING:

1. The Parties undertake to act in good faith with respect to each other's rights and obligations under the objectives of this MoU,



2. The Parties recognize the impracticality of providing for every contingency, which may arise during or after the expiry of the MoU and hereby agree to operate fairly and without detriment to the interests of either of them,
3. Subject to any definitive agreements entered into, this MoU is binding in nature, and is a definite expression and record of the purpose and intention of the Parties concerned.

VIII. TRANSFER AND ASSIGNMENT

1. None of the Parties shall assign or transfer this MoU or any of its respective rights or obligations hereunder, to any other third party without the prior written consent of the other.
2. This consent requirement shall not apply in the event that a Party shall change its corporate name.

IX. DISPUTE RESOLUTION AND GOVERNING LAW:

1. This MoU will be construed and governed by the laws of India.
2. Any dispute arising out of this MoU shall be amicably resolved in first instance, through discussions in good faith with a view to expeditiously resolve such differences or disputes in a spirit of mutual understanding and cooperation.
3. In the event of any dispute or difference relating to the interpretation and application of the provisions of this agreement, such dispute or difference shall be taken up by either party for resolution through AMRCD as mentioned in DPE OM No. 4(1)/2013-DPE (GM)/FTS-1835 dated 22.05.2018 issued by Ministry of Heavy Industries and Public Enterprises.

X. DURATION AND TERMINATION OF THIS MOU:

1. This MoU shall enter into force on the Effective Date.
2. This MoU shall remain in force for a period of three (3) years from the Effective Date (i.e. the date on which this MoU is signed).
3. The Parties may elect to extend the period of this MoU for an additional period of time or multiple periods of time as may be mutually agreed upon by the Parties in writing.
4. Each party has a right to terminate the MoU at any time during the validity of this MoU,



in writing, with at least one (1) month notice of such intention to the other party. However, the termination of this MoU shall not affect the actions that may have been formalized during its operation.

XI. CONFIDENTIALITY

1. The Parties hereto agree that they will not at any time during the Term of this MoU, without the prior written consent of the other Party, disclose the existence of, or the terms and conditions set forth in this MoU unless otherwise required by law or regulation.
2. Only those individuals and representatives of the Parties, and their respective legal and financial advisors, with a need to know and for the sole basis of advising the respective Parties concerning the transactions contemplated hereby, shall be permitted to receive knowledge of the information contained herein.

XII. AMENDMENT

1. This MoU may be amended in writing by mutual agreement between the Parties.
2. Any such amendment shall enter into force from the date agreed to by the Parties.

XIII. NOTICES

1. Notices in connection with this MOU must:
 - a) Be in writing, in the English language.
 - b) All notices or other information required or deemed necessary to be given to:

i. For NHAI:

Name: Chairperson, NHAI

Address: NHAI 2nd Office Building, G-3, Sector-10, Dwarka, New Delhi-110075

Email Id: chairman@nhai.org, chairperson@nhai.org

ii. For IOCL

Name: Executive Director (Operations), PLHO

Address: Indian Oil Bhavan, A-1, Udyog Marg, Sector 1, Noida (UP)-
201301Email Id: edoplho@indianoil.in

- c) Notices shall be delivered by courier or hand or sent by email to the respective addresses and email which are specified above or if the addressee specifies another address or email, in writing, then to that address or email.

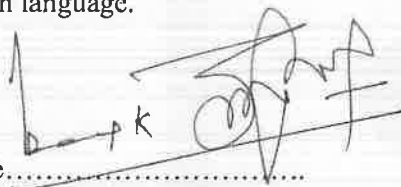
XIV. COUNTER PARTS

This MoU shall be executed in two counterparts. Both Parties shall each have one counterpart of this MoU. Both counterparts shall constitute one and the same MoU.

In witness whereof, the undersigned being duly authorized thereto, by their respective parties, have signed this MoU.

Signed at **NHAI, G-3, Sector 10, Dwarka, New Delhi** on **8th June 2022** in two originals text in English language.

Signature.....



Signed by: **Udeep K Singhal**
General Manager (Tech.) &
Regional Officer, Delhi

For and on behalf of;
National Highway Authority of India

Signature.....



Signed by: **Rajesh Gupta**
Executive Director (Const.)
PLHO, Noida

For and on behalf of;
Indian Oil Corporation Limited

Witnesses:

Signature.....



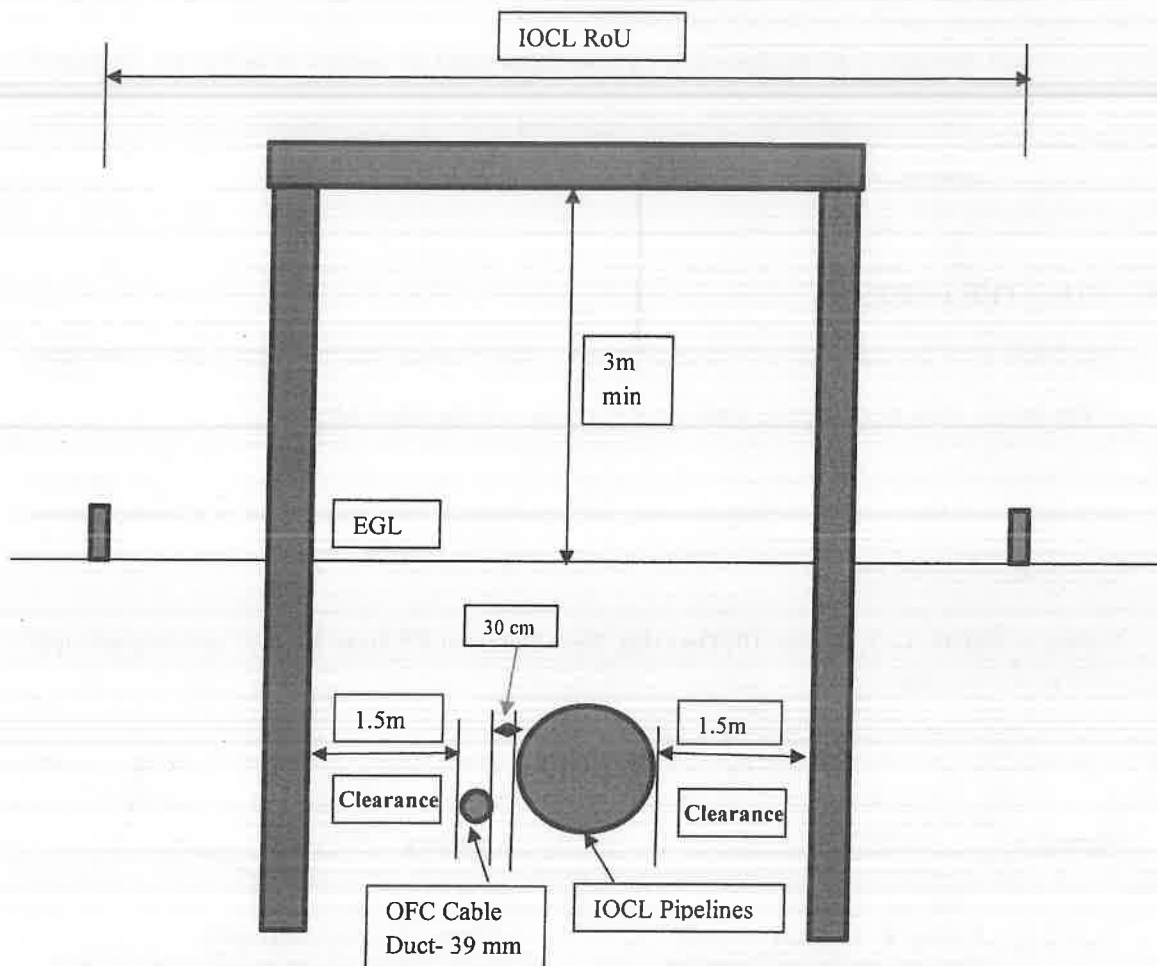
Signed by **Manoj Kumar**
Member (P)
NHAI

Signature.....



Signed by **S.S. Sawant**
ED (Operations)
PLHO, Noida

Annexure A

**PROPOSED RCC PORTAL STRUCTURE ACROSS IOCL'S ROU**

Note:

- i. EGL- Existing Ground Level
- ii. Clearance of minimum 1.5 meter to be kept from outside edges of Pipeline and OFC as shown above
- iii. In case of multiple pipelines in the same ROU, single portal or more than one portal as per site condition can be built with minimum distance of 1.5-meter from outside edges of Pipeline and OFC as shown above