



सत्यमेव जयते

**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 तीसरा तल, विजय कृष्ण प्लाज़ा, संख्या-1, लेक एरिया, मेलूर मेन रोड, मादुतावनी, मदुरै-625 107  
2<sup>nd</sup> & 3<sup>rd</sup> Floor, Vijay Krishna Plaza, No.1, Lake Area, Melur Main Road, Mattuthavani, Madurai-625 107  
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NHA/15018/4.7/02/2024/RO Madurai/E-258219/1252

27<sup>th</sup> August, 2024

**INVITATION OF PUBLIC COMMENTS**

**विषय: भाराराम्रा - क्षे.का. मदुरै- पकाई, तूतीकोरिन** - Six Lanning of Tuticorin Port Road section of NH-7A (New NH-138) from Km 0/000 to Km 6/140 Effective Length - 5.16 km - Proposal for laying of gas pipe lines by M/s IOCL - SRPL along the road from Km 2/200 to Km 6/200 (RHS) and across the road at Km 2/225, Km 3/168 and Km 6/200 by using HDD method of NH-138 - Invitation of Public Comments -Reg.

**प्रसंग :** PD, Tuticorin Lr. No.11012/NHAI/PIU/TUT/IOCL/2024/651 dated 16.08.2024. (received on 23.08.2024)

The Proposal is regarding permission for laying of gas pipe lines by M/s IOCL - SRPL along the road from Km 2/200 to Km 6/200 (RHS) and across the road at Km 2/225, Km 3/168 and Km 6/200 by using HDD method in Tuticorin - Tutnelveli section of NH-138 in the State of Tamil Nadu by Senior Manager (CGD), SRPL, Tuticorin has been submitted to this office by the PD, Tuticorin Lr. No.11012/NHAI/PIU/TUT/IOCL/2024/651 dated 16.08.2024 in accordance with Ministry's latest guidelines dated 22.11.2016.

2) The alignment proposed by Senior Manager (CGD), SRPL, Tuticorin for laying of gas pipe lines by M/s IOCL - SRPL along the road from Km 2/200 to Km 6/200 (RHS) and across the road at Km 2/225, Km 3/168 and Km 6/200 by using HDD method in Tuticorin - Tutnelveli section of NH-138 is as detailed under:

Stretch in Km	Length in Meters	Dia of pipe	Available ROW (in Meter)	Remarks
Along NH- 138: Km 2/200 to Km 6/200	4000	12.75" Dia Carbon steel pipe with 6.4mm thickness & 89mm HDPE pipe for OFC	45-60	Laying of pipe line along the extreme edge of ROW at a distance of 1.0m from ROW edge.
Across NH - 138: Km 2/225	60		60	Laying of pipe line across by HDD Method at minimum depth of 3.0 m from top of the subgrade.
Km 3/168	45		45	
Km 6/200	45		45	

3) The Right of Way is 45-60 m in the aforesaid stretch. Senior Manager (CGD), SRPL, Tuticorin has proposed for laying of gas pipe lines by M/s IOCL - SRPL along the road from Km 2/200 to Km 6/200 (RHS) and across the road at Km 2/225, Km 3/168 and Km 6/200 by using HDD method in Tuticorin - Tutnelveli section of NH-138 in the State of Tamil Nadu which is in conformity with Ministry's guidelines dated 22.11.2016.

4) Senior Manager (CGD), SRPL, Tuticorin has furnished an Undertaking to the effect that the applicant will move the laid gas pipeline in future if required by NHAI at any time for expansion of the NH at their own cost without claiming any compensation from NHAI. Further, mentioned that Senior Manager (CGD), SRPL, Tuticorin will also undertake that laying of gas pipeline will not have deleterious effects on any of the bridge components and roadway safety for traffic.

5) As per the guidelines issued by the Ministry vide letter No.RW/NH-33044/29/2015/ S&R(R) dated 22.11.2016 the proposal submitted by the applicant will be made available for public comments and the comments is invited within 30 days from the day of uploading.

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.

भवदीय



(एम चंद्रशेखर) M Chandrasekhar

उप महाप्रबंधक (तक) | Dy. General Manager (Tech)

क्षे.का. मदुरै | RO-Madurai

**संलग्न:** As above

**प्रतिलिपि:**

1. The NIC, New Delhi - for uploading in the Ministry's website.
2. The PD, Tuticorin - 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 - तूतीकोरिन / Project Implementation Unit - Tuticorin  
तूतीकोरिन-तिरुनेलवेली NH-138, थट्टपारई विलक्कु, पुदुकोट्टई पी.ओ., तूतीकोरिन - 628 103  
Tuticorin-Tirunelveli NH-138, Thattaparai Vilakku, Pudukottai P.O., Tuticorin - 628 103  
दूर/Tele: 0461 2340968 ई मेल/E mail: piututynhai@gmail.com, tuticorin@nhai.org वेब/ Web: www.nhai.gov.in

Ref:11012/NHAI/PIU/TUT/IOCL/2024/ 651

Date:16.08.2024

सेवामें | To

The Regional Officer,  
National Highways Authority of India,  
2<sup>nd</sup> & 3<sup>rd</sup> Floor, Vijay Krishna Plaza,  
No.1, Lake Area, Melur Main Road,  
Mattuthavani, Madurai - 625 107.

**विषय | SUB:भाराराप्रा- पकाई- तूतीकोरिन - NHAI-PIU-TUTICORIN-** "Six Lanning of Tuticorin Port Road section of NH-7A (New NH-138) from Km 0.000 to Km 6.140 Effective Length - 5.16 km - Proposal for laying of gas pipe lines along the road from Km.2/200 to Km.6/200 (RHS) and across the road at Km.2/225, Km.3/168 and Km.6/200 by using HDD method of NH-138 - Permission Requested - Reg.

**प्रसंग | Ref:** 1.The Senior Manager(CGD), SRPL, Tuticorin Lr.No.220 Dated: 18.07.2024.

**महोदय | Sir,**

It is to submit that the Senior Manager(CGD), SRPL, Tuticorin vide reference 1st cited has submitted the proposal for seeking permission for gas pipe lines along the road from Km.2/200 to Km.6/200 (RHS) and across the road at Km.2/225, Km.3/168 and Km.6/200 by using HDD method in Tuticorin-Tirunelveli Section of NH 7A (New NH138).

2. In this regard, the proposal was examined by this office as well as authority's engineer as per Ministry's Circular No. RW- NH/33024/29/2015/S&R ® dated 22.11.2016 and subsequent Amendment dated 17.04.2023 other circulars and the following points are made:

- The Senior Manager(CGD), SRPL, Tuticorin has proposed for gas pipe lines along the road from Km.2/200 to Km.6/200 (RHS) and across the road at Km.2/225, Km.3/168 and Km.6/200 by using HDD method in Tuticorin-Tirunelveli Section of NH 7A (New NH138).
- The said proposal has been submitted in MoRTH NOC Portal and its application no. 20240801/1/12/18638/9441.
- The Senior Manager(CGD), SRPL, Tuticorin has given undertaking on non-judicial stamp paper, that they will pay the fee / rent as mentioned in the MoRTH&H Guidelines / Circular No.RW/NH-33044/29/ 2015/S&R (R) dated 22.11.2016 and subsequent Amendment dated 17.04.2023 as when asked by NHAI.

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- iv. The track rent and restoration charges to be collected from the agency are calculated as per the MoRT&H Guidelines / Circular No.RW/NH-33044/29/2015/S&R (R) dated 22.11.2016.
- v. The cost of restoration charges for the laying of gas pipe line is worked out as **Rs.13,00,000 /- (Rupees Thirteen Lakh only)** for which the applicant is required to furnish the BG having validity upto one (1) year. The calculations are attached as annexure 1
- vi. As per the MoU signed between the IOCL and NHAI dated 8<sup>th</sup> June 2022, the IOCL need not remit any license fee for laying of the pipelines in the NHAI stretch. Hence no license fee is proposed for this proposal.
- vii. In addition to the above bank guarantee, as an on-going project is in progress in the stretch, the following matters has to be ardently followed by the utility owning agency without fail. The proposal has also been concurred by the existing EPC contractor via letter no 171 dated 19/07/2024 , but with the following conditions.
  - The proposed pipeline installation shall be executed along a length of 6.140 km on the right-hand side (RHS), commencing at km 2.820, and extending beyond the boundaries of the stormwater drain.
  - It is imperative that appropriate signage is prominently displayed within the construction zone.
  - Throughout the execution of the work, utmost diligence must be exercised to prevent any damage to road infrastructure, including drains, electrical poles, shoulders, avenue plantations, and existing utilities or optical fiber cables (OFC) already in place.
  - Excavation activities are to be conducted strictly in accordance with the directives provided by the contractor or the Assistant Engineer (AE) Representative.
  - The use of heavy machinery, such as JCBs, excavators, and cranes, is strictly prohibited on both the main carriageway and the service road.
  - Uninterrupted traffic flow must be maintained for the entire duration of the project.
  - The applicant is hereby informed that the Project Highway must remain undisturbed. Should any damages occur to any section of the project highway within the Right of Way (ROW) due to the movement of transportation vehicles, materials, or machinery, it shall be the applicant's sole responsibility to rectify such damages at their own expense.



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- The applicant is required to notify the National Highways Authority of India (NHAI), the Authority's Engineer (AE), and the Engineering, Procurement, and Construction (EPC) Contractor prior to commencing work and to provide daily progress reports throughout the duration of the project.
  - The applicant may be requested to submit a drone video survey conducted before and after the completion of the work.
  - For ensuring that, the pipe lining works are not interfering/ causing any damage to the already constructed drain or any other structural component of the 6 laning work, an additional bank guarantee of Rs 20 Lakhs is proposed to be demanded from the IOCL. The same shall be released to the agency after satisfactory completion of the work.
- viii. It shall be the responsibility of the agency (applicant) to ensure the safety of the Highway traffic against the hazards of the high voltage lines. The proposed site shall be open for inspection of NHAI, and the instructions imparted by officials of NHAI has to be followed by the agency and the Ministry shall not be responsible for any financial liability on this account.
- ix. Prior approval of the Highways Authority shall be shifting or repairs, or alterations, to be obtained before undertaking any work of installation, utility lines located in the National Highway right-of-ways (ROW).
- x. Expenditure, if any, incurred by the Highway Authority for repairing any damage caused to the National Highways by the laying, maintenance of shifting of the utility line will be borne by the agency owning the line.
- xi. If NHAI considers it necessary in future to move the utility line for any work of improvement or repairs to the road, it will be carried out as desired by the Highway Authority at the cost of the agency owning the utility line within a reasonable time (not exceeding 60 days) of the intimation given. Also the road land shall be restored to its original condition by agency when required to do so by the Govt. of India or any person authorized on its behalf and agency shall not be entitled to any compensation on account of such removal or restoration.
- xii. The road shall be kept in traffic worthy condition during construction/laying period and the traffic should continuously move safety and without hindrance move safety and without hindrance.
- xiii. In case of laying along the NH, many cross-road junctions shall be encountered. At all such locations laying shall be done through HDD/overhead crossing (by fulfilling minimum clearance criteria) and no dismantling of cross-road shall be allowed in any case, as these junction has been developed by NHAI and thus any damage to





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the same shall not be allowed in any case. Further, in locations of bus lay bye/truck lay bye/bus shelters, the laying shall be done toward the extreme edge of ROW, and no damage shall be caused to these assets and no laying shall be done underneath the Bituminous Concrete.

- xiv. Laying along the NH ROW shall be allowed beyond the toe line of the embankment and drains, as close to the extreme edge of the Row as possible.
- xv. No utility service shall be laid over existing culverts and bridges except through the utility ducts where such provision exists. In case of absence of such provisions, the Licensee shall make his own arrangement for crossing of cross drainage structure, rivers, etc. below the bed. As an additional measure all such location of minor bridges and Major Bridges has already been deleted from the proposal and applicant shall be required to ensure laying at own arrangement after seeking necessary approval from Concerned Department, as may be applicable. The safety precaution for carrying out HDD shall be ensured by the Applicant as brought out in MoRTH Policy dated 17.04.2023.
- xvi. No laying shall be allowed underneath/over the drain or service road of the NH in any case. No additional distribution lines shall be laid without specific approval of the Competent Authority.
- xvii. It shall be the responsibility of the applicant, to ensure clearance from all statutory departments such as Forest Department, Water Resource Department etc as may be applicable and as mandated by law.
- xviii. No damage shall be caused to NH asset such as drain, embankment, carriageway or any road furniture on the NH for this proposed laying along/across the NH ROW. The Utility shall be laid at edge of NH ROW and Removal of Encroachment if any shall be the responsibility of the applicant.
- xix. While laying the line, the applicant must ensure that the extent of digging of the trenches should be strictly regulated so that utility services are laid, and trenches filled up before the close of the work that day. The filling should be completed to the satisfaction of the Engineer of Project/NHAI and Concessionaire on daily basis.
- xx. The crossing of the pipe lines has to be laid as proposed in the drawing without disturbing the foundation of the existing VUP structures/ fly over structures.
- xxi. In the section under consideration, the plantation has been carried out by the Forest Department, however If any plantation of the NHAI being maintained by the Concessionaire is disturbed/damaged/removed, then the applicant shall be liable to



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pay damages Rs 2500/- Per plant and in case of failure of agency to deposit the same, it shall be recovered from the BG submitted by the applicant.

- xxii. The bank guarantee is submitted as a security against (1) Improper restoration of ground in terms of filling/unsatisfactory compaction (1) damages caused to any asset of NHAI (inter alia including plantation) (i) damage caused to any other underground installations/utility services (v) interference, interruption, disruption or failure caused thereof to any services etc. The BG can be forfeited by the Authority in case the work is not carried out as per the conditions imposed by the Approving Authority, the conditions of working permission and executed licence deed for which the Licensee shall not have any right to make objections/claim in the matter.
- xxiii. In case of any damage caused to any asset if Authority (inter alfa including plantation), the working permission shall be withdrawal till proper restoration to the satisfaction of Authority and in case of failure of applicant to ensure proper rectification, the amount shall be forfeited by the Authority from the Bank Guarantee submitted by the applicant for which the Licensee shall not have any right to make objections/claims.
- xxiv. 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 failing which the permission may be cancelled by the Highway Administrator for which the Licensee shall neither be entitled to any claims, nor shall it be absolved from any liability already incurred. The Licensee shall be liable to pay full compensation to the Authority (as assessed by the Authority) for any damage sustained by the Authority by reason of the exercise of the Row facility by the applicant.
- xxv. The Licensee shall ensure the safety and security of already existing underground installations/utilities/ facilities etc. before commencement of the excavation/using the existing cable ducts and the Licensee shall procure insurance from a reputed Insurance company against damages to already existing underground installations/utilities/facilities etc. 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.
- xxvi. In terms of clause-7 of MORTH Guideline dated 22.11.2016, the utility services shall be made operational by the Licensee only after a completion certificate to the



effect is issued by the Highway Administration that the utility services has been laid in accordance with the approved specifications and drawings and the trenches and HDD method have been filled up to the satisfaction of the concerned agency in co-ordination with the Authority.

- xxvii. For the purpose of completion certificate, three copies of 'as laid drawings of utilities (hard) and soft copies) with geo-tagged photographs (@every 100m interval and at each crossing) and geo-tagged video recordings (Date wise) of laying of cables in the trench and HDD method (with respect to the NH) shall be submitted after complete restoration shall be submitted to the Authority for verification/record within a month of completion of works.
- xxviii. The Bank Guarantee shall be returned only after issuance of completion certificate by the Highway Administration.
- xxix. The permission can be cancelled at any time by Authority for breach of any condition brought out above and for any condition imposed by Competent Authority while granting approval and working permission or licence agreement. Licensee shall not be entitled to any compensation for any loss caused to it by such cancellation not shall it be absolved from any liability already incurred.
- xxx. Applicant shall ensure videography during the execution of the work and the same shall be compulsorily submitted to this office within 24 hrs, after completion of the work.
- xxxi. The strip plan showing the details of proposed for laying of gas pipe line and necessary checklist are furnished along with the proposal.
- xxxii. The Senior Manager(CGD), SRPL, Tuticorin has given undertaking that they will relocate gas pipe lines / utilities at their own cost notwithstanding the permission granted within such time as stipulated by NHAI for future 4 laning or any other development.
- xxxiii. The site will be restored to the original condition by the utility department itself.
- xxxiv. The amount of Bank Gaurantee / License fee is tabulated below for ready reference.

SN	Purpose	Amount
1	Bank Gaurantee as per circular	Rs 13,00,000/-
2	Bank Gaurantee to ensure the safety of ongoing constructions	Rs 20,00,000/-
	Total	Rs 33,00,000 /-





## National Highways Authority of India

4. In view of the above, it is requested that the necessary permission may please be granted to the Senior Manager (CGD), SRPL, Tuticorin for laying of gas pipe lines along the road from Km.2/200 to Km.6/200 (RHS) and across the road at Km.2/225, Km.3/168 and Km.6/200 of NH-138 in the state of Tamil Nadu at an early date.

Enclosure: 2 No Proposals and references.

भवदीय | With Regards,

परियोजनानिदेशक | PROJECT DIRECTOR  
पकाई- तूतीकोरिन | PIU - TUTICORIN

List of Correspondences							
Receipt No. / Issue No.	Subject	Type	Marked As	Attached On	Issued On	Pages	Remarks
1040635/2024/PIU - TUTICORIN	IOCL - NH 138	Receipt		16/08/2024 02:26 PM		1-31	for submission



## इंडियन ऑयल कॉर्पोरेशन लिमिटेड

दक्षिणी क्षेत्र पाइपलाइन्स  
सिटी गैस वितरण परियोजना  
प्रथम तल (दक्षिण), जे जे सेंटर,  
4/7/5, एट्टायपुरम रोड, तूतुकुडि - 628 002, टीएन  
फोन : 0461-2355919

**Indian Oil Corporation Limited**

Southern Region Pipelines

City Gas Distribution Project

1st Floor (South) J.J. Centre,

4/7/5, Ettayapuram Road, Tuticorin - 628 002. TN.

Phone : 0461-2355919 , Website : www.iocl.com



**IndianOil**

इपलाइन्स प्रभाग  
ipelines Division

SRPL/TUTI/CGD/NHAI/220

NHAI PIU - TUTICORIN			
DY. NO. 3212		PROJECT	
DATE: 22.07.24		PROJECT	
M(T): AMK:	SE/AKS:	SE/VRM:	
LO/RS:	LO/NR:	Acct/D:	
CO/VJ:	CO/SK:	ITE/GD:	

18.07.2024

To  
The Project Director  
Project Implementation Unit  
National Highways Authority of India  
Thoothukudi

Subject: Application seeking permission for laying of steel pipe of 12"Dia & 89mm HDPE pipe for Optical Fiber Cables networks along NH-138 from Ch.2/000 to Ch.6/000 km as a part of City Gas Distribution project in Thoothukudi District

Ref: 1) SRPL/TUTI/CGD/NHAI/220 dated 04.11.2023

Respected Sir,

Indian Oil Corporation Limited (IOCL), a Government of India (GoI) undertaking corporation has been authorized by Petroleum and Natural Gas Regulatory Board (PNGRB) vide PNGRB/Auth/CGD (64)/2021/11.50 dated 23.03.2022 for laying, building, operating and expanding City Gas Distribution network and Compressed Natural Gas (CNG) outlets in authorized Geographical area of Thoothukudi comprising Thoothukudi, Tirunelveli, Tenkasi and Kanyakumari districts.

As a part of this project, IOCL is in process of establishing Gas pipeline network along the Highways and roads within the city and between cities in the Geographical area to establish domestic connections for households, industries and CNG stations for transport sector.

The proposed pipeline is planned in NH-138 from Tiruchendur Road and Harbour road Intersection Bridge Ch.2/200km (RHS) to District Collector Office Bridge Ch.6/200 km (RHS) for a length of around 4km. The proposed gas pipeline shall be laid through open cut methodology and Trenchless technique across crossings as per the standards/procedures recommended by Petroleum and Natural Gas Regulatory Board (PNGRB) without causing any traffic disruption & inconvenience to public at large.

The following documents (draft copy) are enclosed along with this application for your perusal.

1. Drawing showing the proposed Steel Pipe route along NH-138. (Annexure-A)
2. Checklist (Annexure-B)
3. Agreement (Annexure-C)
4. Undertaking 1 (Annexure-D)
5. Undertaking 2 (Annexure-E)
6. Certificate (Annexure-F)
7. Indemnity bond (Annexure-G)



*[Signature]*  
18/07/2024

पंजीकृत कार्यालय : इंडियन ऑयल भवन, जी-9, अली यावर जंग मार्ग, बान्द्रा (पूर्व), मुम्बई - 400 051. महाराष्ट्र (भारत)

File No. PBO/2606/24/5/2024/PIU Tuticorin (Computer No. APY06)  
Regd. Office: Indian Oil Bhawan, G-9, Ali Yavar Jung Marg, Bandra (East) Mumbai - 400 051. Maharashtra (India)

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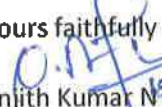
CIN No.: L23201MH1959G011388

Considering the ever expanding IOCL pipeline network and National Highways of NHAI, interfacing of these two structures at many locations is unavoidable. In this regard, a Memorandum of Understanding (MoU) dated 08.06.2022 has been signed between National Highways Authority of India (NHAI) and Indian Oil Corporation Limited (IOCL) incorporating framework for crossing permissions, optimization of the expenditure on the crossings and bringing about uniformity in issuing permissions to either of parties (NHAI and IOCL) at crossing locations. Copy of MoU is attached as **Annexure-H**.

As the project is in public interest and beneficial to environment and citizens of Thoothukudi district at large, IOCL request you to provide kind support and grant us permission in line with the MoU dated 08.06.2022 for laying Natural Gas pipeline as above at the earliest.

Thanking you,



Yours faithfully  
  
Ranjith Kumar N  
Senior Manager(CGD)  
SRPL Thoothukudi

**CHECK - LIST**

Guidelines for Project Directors for processing the proposal of laying 12.75" & 4.5" Carbon Steel Natural gas pipeline along with 89mm HDPE pipes for OFC by IOCL Pipelines division in the land along National Highway NH-138 vested with NHAI.

• Relevant circulars

1) MoRTH Circular No: RW/NH-33044/29/2015/S&R(R) Dated: 22-11-2016

Check list for getting approval for laying of 12.75" Carbon steel Natural Gas Pipelines along with 89mm HDPE pipes for OFC on NHAI land

Sl. No.	Item	Information/ Status	Remarks
<b>1</b>	<b>General Information</b>		
1.1	Name and Address of the Applicant	Sh. N Ranjith kumar Senior Manager (CGD) Indian Oil Corporation Limited, Southern Region Pipelines, City Gas Distribution(CGD) Project Office, 1 <sup>st</sup> Floor, JJ Center, No. 4/7/5, Ettayapuram Road, Sankaraperi Village, Thoothukudi – 628005.	Authoriz ation attached
1.2	National Highway Number	NH-138	
1.3	State	Tamilnadu	
1.4	Location	Tirunelveli District Collector Office Bridge to Tiruchendur road - harbor road junction (SH-176)	
1.5	(Chainage in km)	Increasing Chainage from KM 2/200 to KM 6/200	
1.6	Length in Meters	4000 mtrs (Approx)	
1.7	Width of available ROW		
	(a) Left side from center line towards increasing Chainage/ km direction	35 -45 M	
	(b) Right side from center line towards increasing chainage/ km direction	30 -35 M	
1.8	Proposal to lay underground Gas Pipeline along with OFC		
	(a) Left side from center line towards increasing chainage/ km direction	NA	
	(b) Right side from center line towards increasing chainage/ km direction	Increasing Chainage from KM 2/200 to KM 6/200	
1.9	Proposal to acquire land		
	(a) Left side from center line	NA	
	(b) Right side from center line	NA	
1.10	Whether proposal is in the same side where land is	Yes	

Senior Manager  
IOCL CGD Thoothukudi



For AGICL in JV WITH GDRPL

4

KRISHNA K. CHATURVEDI

TEAM LEADER CUM SR. HIGHWAY ENGINEER

Project Director  
National Highways Authority of India  
NHAI, Thoothukudi

Manager (M)



Sl. No.	Item	Information/ Status	Remarks
	not to be acquired		
	If not then where to lay the Pipeline	NA	
1.11	Details of already laid services, if any, along the proposed route	NA	
1.12	Number of lanes (2/4 / 6/8 lanes) existing	4 Lanes	
1.13	Proposed Number of lanes (2 lane with paved shoulders/4 / 6/8 lanes)	6 Lanes	
1.14	Service road existing or not	Yes	
	If yes then which side		
	(a) Left side from center line	Yes, mentioned in Drawing	
	(b) Right side from center line	Yes, mentioned in Drawing	
1.15	Proposed Service road	NA	
	(a) Left side from center line	NA	
	(b) Right side from center line	NA	
1.16	Whether proposal to lay pipe is after the service road or between the service road and main carriageway	It is proposed to lay the pipeline after the service road and in the space available between the concrete drain and the edge of ROW.	RHS
1.17	Whether carrying of sewage/gas pipeline has been proposed on highway bridge If "Yes", then mention the methodology proposed for the same.	NA	
1.18	Whether carrying of sewage/gas pipeline has been proposed on the parapet/any part of the bridge. If "Yes", then the methodology proposed for the same.	NA	
1.19	If crossing of the road involved If "Yes", then it shall be encased in pipes or through the structure or conduit specially built for that purpose at the expenses of agency owning the line.	Yes, 12.75" OD pipe along with 89mm MS conduit crossing NH-138 at Ch.2/225, Ch.6/200 km and 4.5" OD pipe along with 89mm MS conduit across NH-138 at Chainage KM 3/168 through Horizontal Directional Drilling (HDD) Technique.	
	a) whether existing structure allowed to carry sewage/gas pipeline	No	
	b) It is in the line normal to NHAI	Yes	
	c) What is the distance of crossing the sewage/gas pipeline from the existing structure Crossing should not be too near to existing structure on National Highway, the minimum distance should be 15 meters	Minimum distance of 16mtr to 18 mtr will be maintained.	
	d) The casing pipe (or conduit pipe in the case of electric cable) carrying the utility line shall steel, cast iron or reinforce cement concrete and having adequate strength and be large enough to permit ready withdrawal of carrier pipe/cable.	Not applicable, as crossing will be executed through HDD Technique	

Senior Manager  
IOCL CGD Thoothukudi



K.K. CHATURVEDI  
TL, G.M. S. Hw. Fr.



Project Director  
National Highway Authority of India  
Project Director  
NHAI, Thoothukudi

Akhillesh MK  
Manager (T)  
PIU - Tuticorin

Sl. No.	Item	Information/ Status	Remarks
	Mention type of casing		
	e) End of the casing/conduit shall be sealed from the outside, so that it does not act as drainage path	Not applicable	
	f) The casing/conduit should, as minimum extended minimum drain to drain curs and toes of slope in the fills	Not applicable	
	g) The top of the casing/conduit should be at least 1.2 meters below the surface of the road subject to being at least 0.3meter below the drain invert. Mention the proposed details	Not applicable	
	h) Mention the methodology for crossing of road for the proposed <del>sewage</del> /gas pipeline. Crossing shall be by boring machine (HDD)[TRENCHLESS TECHNOLOGY], specially, where the existing road pavement is of cement concrete or dense bitumen concrete type.	Through HDD Technique	
	i) the casing/conduit pipe shall be installed with an even bearing throughout its length and in such a manner as to prevent the formation of waterway along it	Not applicable, as crossing will be executed through HDD Technique	
2	Document / Drawings enclosed with the proposal	Enclosed	
2.1	Cross section showing the size of trench for open trenching method (Is it normal size of 1.2m deep X 0.3m wide) a) Should not be greater than 60cm wider than the outer diameter of pipe b) Located as close to the extreme edge of the ROW as possible but not less than 15 meter from the centre lines of the nearest carriage way c) Shall not be permitted to run along the national highway when the road formation is situated in double cutting, nor shall be laid over existing culverts and bridge d) It should be laid so that their top is at least 0.6 meter below the ground level so as the obstruct of the road land.	Underground pipe trench cross section showing steel and HDPE pipes is attached. a) Noted & Complied b) It is proposed to lay the underground gas pipeline in the 2 mtr corridor from the edge of NHAI ROW. c) Noted & Complied. d) Minimum 1.2 mtr Pipe cover is proposed	
2.2	Cross section showing the size of pit and location of cable for HDD method	Enclosed	
2.3	Strip plan/ Route Plan showing the natural gas pipeline, Chainage, width of ROW, distance of proposed, cable from the edge of ROW, important mile stone, intersections, cross drainage works etc.	Enclosed	
2.4	Methodology for laying of pipe		

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Project Director  
National Highways Authority of India  
Project Director  
NHAI, Thoothukudi

Sl. No.	Item	Information/ Status	Remarks
2.4.1	Open trenching method. (May be allowed in utility corridor only where pavement is neither cement concrete nor dense bituminous concrete type.) If Yes, what is the methodology of refilling of trench.	Excavate the area 1.6m (Depth) x 1.0m(Width), place the pipe inside and refill the trench with the excavated soil in layers not exceeding 150mm and compaction will be done	
	a) The trench width should be at least 30cm, but not more than 60cm wider than outer diameter of the pipe.	Yes, noted for compliance	
	b) For the filling of the trench, bedding shall be to a depth of not less than 60cm. It shall consist of granular material, free of lumps, clods and cobbles and graded to yield a firm surface without sudden change in the bearing value. Unsuitable soil and rock edged should be excavated and replace by selected material	Yes, noted for compliance	
	c) The backfill shall be completed in two stages 1. sidefill to the level of the top of the pipe and overall to the bottom of the road crust.	Yes, noted for compliance	
	d) The side fill shall consist of granular material laid in 15cm layer each consolidated by mechanical tampering and controlled addition to moisture to 95% of the proctor's density. Overfill shall be compacted to the same density as material has been removed. Consolidation by saturation or pounding will not be permitted.	Yes, noted for compliance	
	e) The road crust shall be built to the same strength as existing crunch of either side of the trench. Care shall be taken to avoid formation of dip at trench.	Yes, noted for compliance	
	f) The excavation shall be protected by flagman, signs and barricades, and red light during night hours.	Noted for compliance	
	g) If required, diversion shall be constructed at the expenses of agency owing utility line.	Noted for compliance	
2.4.2	Horizontal Directional Drilling (HDD) Method	Total 600 m (approx) for crossing Pipeline/concrete Culverts, roads. Cross Section drawing attached.	Cross Section drawing enclosed
2.4.3	Laying Natural gas pipeline through CD works and method of laying. In case where the carrying of natural gas pipeline on bridge becomes inescapable.	NA	
3	Draft License Agreement signed by two witnesses	Enclosed	
4	Performance Bank guarantee in favor of NHAI has to be obtained at Rs.100/- per running meter (parallel to NH) and Rs. 1, 00,000/-per crossing of NH, for period of one year initially (extendable if require till satisfactory completion of work) as a security for	Security amount to be deposited in the form of Performance BG is calculated as per MoRT&H policy guidelines dt/22.11.2016 and attached herewith.	

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Project Director  
National Highways Authority of India  
NHAI Thoothukudi

Ashish MK  
Manager



Sl. No.	Item	Information/ Status	Remarks
	ensuring/making good excavated trench for laying gas pipeline/duct filling and compaction, clearing debris/loose earth produced due to execution of trenching at least 50m away from the edge of ROW. No payment shall be payable by NHAI to the licensee for clearing debris/loose earth. Performance BG as per above is to be obtained.		
4.1	Confirmation of BG has been obtained as per NH guidelines	Noted for compliance	
5	Affidavit / Undertaking from the Applicant for the following is to be furnished		
5.1	Not to Damage to other utility, if damaged then to pay the losses either to NH or to the concerned agency	Undertaking enclosed	
5.2	Renewal of Bank Guarantee	Undertaking enclosed	
5.3	Confirming all standard condition of NH's guideline and ministry circular	Undertaking enclosed	
5.4	Shifting of Natural gas pipeline as and when required by NHAI	Undertaking enclosed	
5.5	Shifting of Natural gas pipeline due to 6 lanning / widening of NHAI	Undertaking enclosed	
5.6	Indemnity against all damages and claims clause (xxiv)	Undertaking enclosed	
5.7	Traffic movement during laying of Natural gas pipeline to be managed by the applicant.	Undertaking enclosed	
5.8	If any claim is raised by the Concessionaire then the same has to be paid by the applicant	Undertaking enclosed	
5.9	Prior approval of NHAI shall be obtained before taking any work of installation, shifting or repair or alternative to Natural gas pipeline/any other utility located in national Highway ROW	Undertaking enclosed	
5.10	Expenditure, If any, incurred by NHAI for repairing any damage cause to NH by the laying, maintenance or shifting of Natural gas pipeline borne by applicant agency owning the line.	Undertaking enclosed	
5.11	If NHAI consider it necessary in future to move the utility line for any work of improvement or repairs to the road, it will be carried out as desired by the NHAI at the cost of agency owning utility line.	Undertaking enclosed	
5.12	Certificate from applicant in following format 1. Laying of Natural gas pipeline will not having any deleterious effect on any of the bridge component and roadway safety of traffic. 2. "We do undertake that I/we will relocate service road/approach road/utility 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	Enclosed	

Senior Manager  
IOCL CGD Thoothukudi



K.K. CHATURVEDI  
T.L. GUM Sr. Hw. En



Project Director  
National Highways Authority of India  
Project Director  
NHAI, Thoothukudi

Akhilesh MK  
Manager

Sl. No.	Item	Information/ Status	Remarks
	work		
6	Who will sign the agreement on behalf of Natural gas pipeline agency	Senior Manager (CGD) Thoothukudi	
	Power of Attorney to sign the agreement is available or not.	Yes, enclosed	
7.1	Certificate of conforming all standard condition issued vide Ministry of Road Transport and Highway, Circular no. NHAI-III/P/66/76 DATED 18/19.11.1976, RW/NH-III/P/66/76 DATED 11.05.1982, RW/NH-11037/1/86 DOI (ii) DATED 28.07.1993, RW/NH/34066/2/95/S&R DATED 25.10.1999 and Circular no. RW/NH-34066/7/2003/S&R(B) DATED 17.09.2003	Enclosed	
7.2	Certificate from PD in following format a) "It is certified that any other location of the Natural gas pipeline would be extremely difficult and unreasonably costly and installation of Natural gas pipeline within ROW will not adversely affect the design, stability & traffic safety of the highway nor the likely future improvement such as widening the carriage way, easing the curve etc.  b) For 6-laning  i. Where feasibility is available "I do certify that there will be no hindrance to proposed 6-laning based of feasibility report considering proposed structures at the said location".  ii. In case of feasibility not available " I do certify that sufficient ROW is available at site for accommodating proposed 6-laning"	Yes	
8	If NH section proposed to be taken up by NHAI on BOT basis - a clause in para 17 to be inserted in the agreement. <i>"The permitted Highway on which Licensee has been granted the ROW to the concessionaire under the concession agreement for up-gradation of (.....Section from Km...to Km.....of NH No....On Build, Operate and Transfer Basis) and therefore, the licensee shall honor the same."</i>	Noted for compliance	
9	Who will supervise work of laying Natural gas pipeline?  a) On behalf of applicant  b) On behalf of NHAI	Senior Manager (CGD) Thoothukudi  PD, NHAI, Thoothukudi.	
10	Who will ensure that the defects in road portion		

Senior Manager  
IOCL CGD Thoothukudi



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T.L. Chm Sr. Hw. Er.

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Project Director  
National Highways Authority of India  
Project Director  
NHAI, Thoothukudi

Akhilesh MK  
Manager (M)



Sl. No.	Item	Information/ Status	Remarks
	after laying of Natural gas pipeline are corrected and if not corrected then what action will be taken.  a) On behalf of applicant  b) On behalf of NHAI	Yes  Senior Manager (EGD) Thoothukudi  PD, NHAI, Thoothukudi.	
11	Who will pay the claims for damages done/disruption in working of Concessionaire if asked by the Concessionaire?  On behalf of applicant	Senior Manager (CGD) Thoothukudi	
12	A certificate from PD that he will enter the proposed permission in the register of records of the permissions in the prescribed proforma (copy enclosed)	Enclosed	
13	If any previous approval is accorded for laying of Natural gas pipeline then Photocopy of register of records of permissions accorded as maintained by PD (copy enclosed).	Enclosed	

Senior Manager  
IOCL CGD Thoothukudi



K.K. CHATURVEDI  
T.L. CUM Sr. Hw. Er.

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Akhilesh MK  
Manager (H)

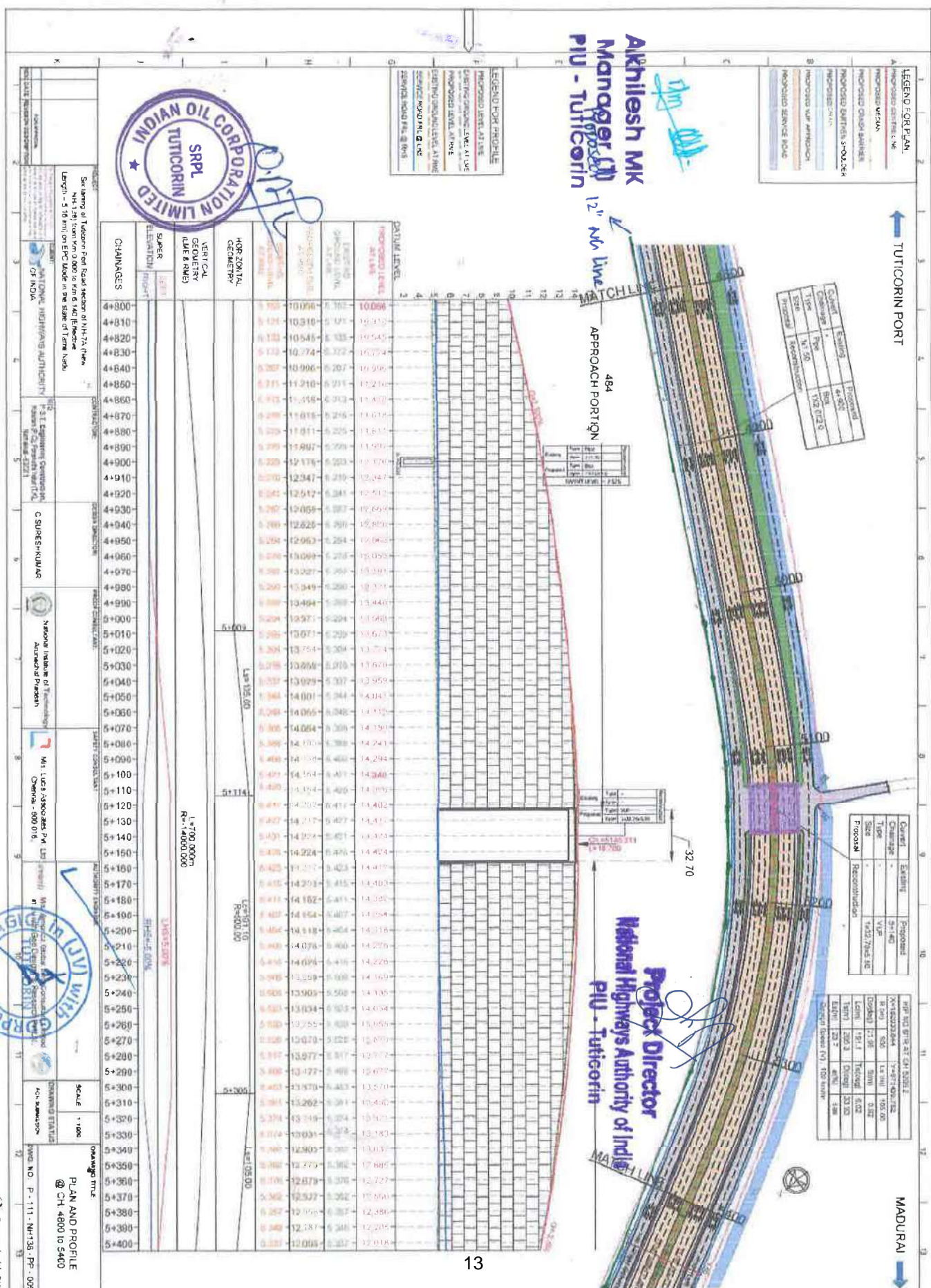
Project Director  
National Highways Authority of India  
Project Director  
NHAI, Thoothukudi



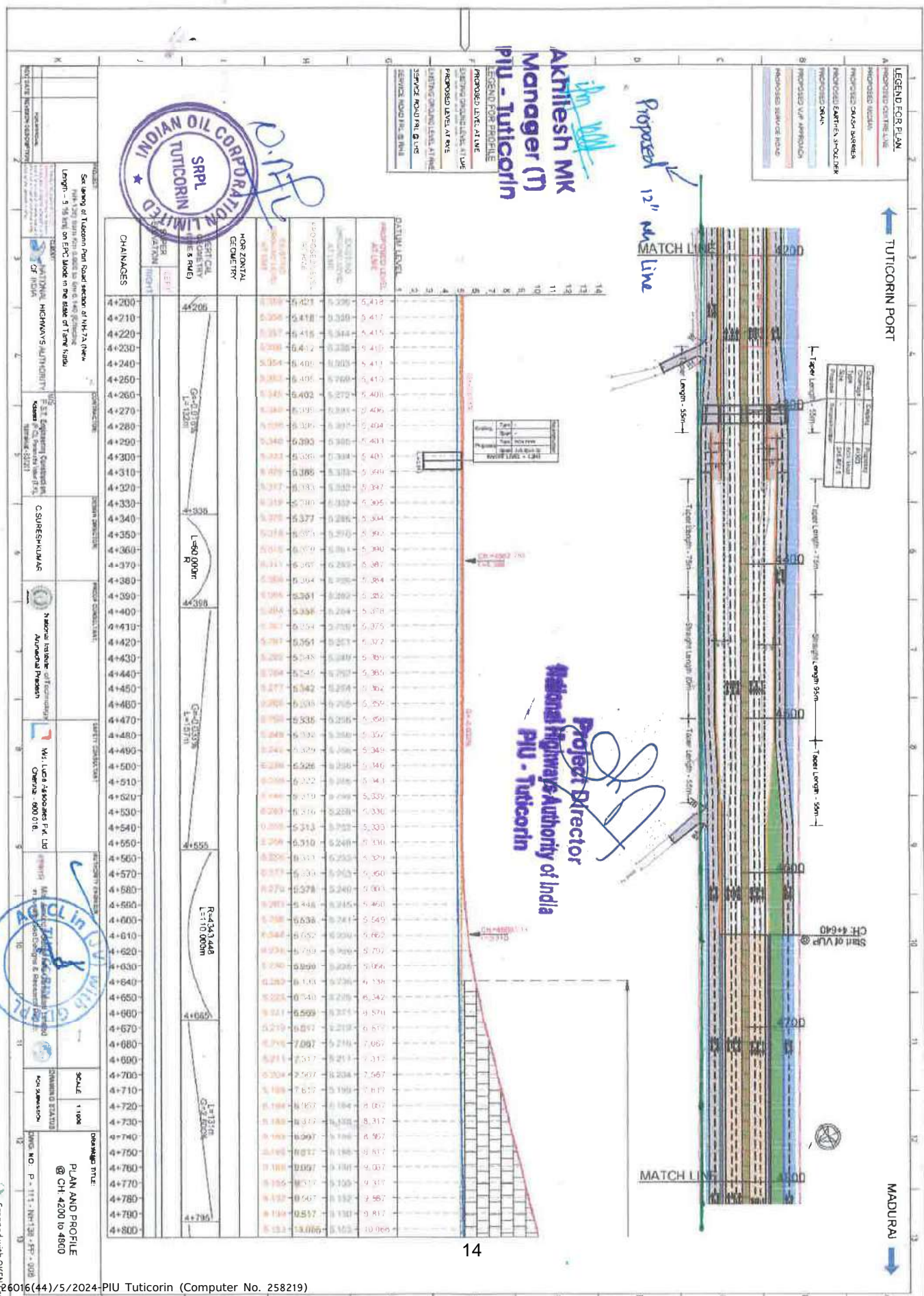




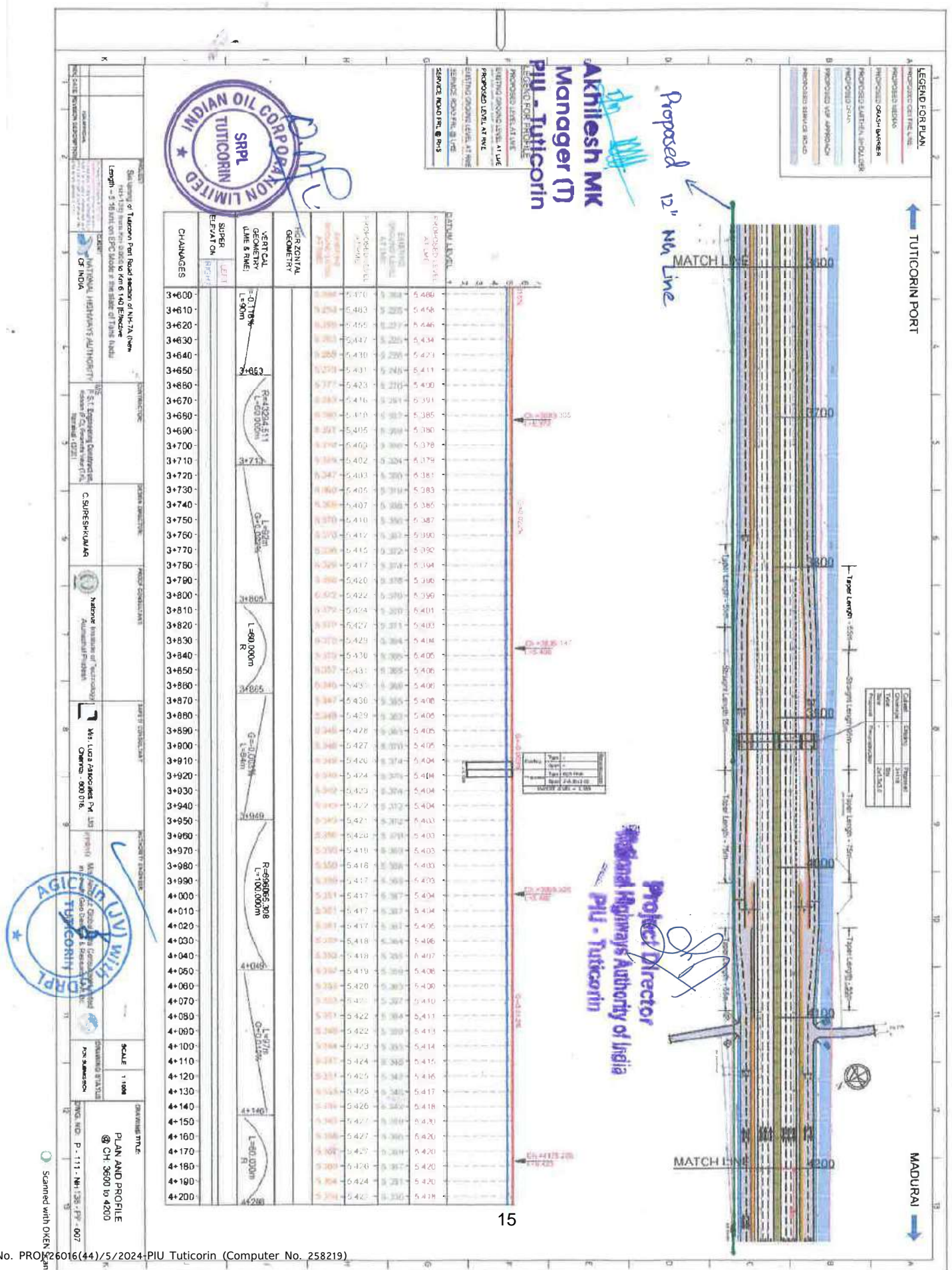






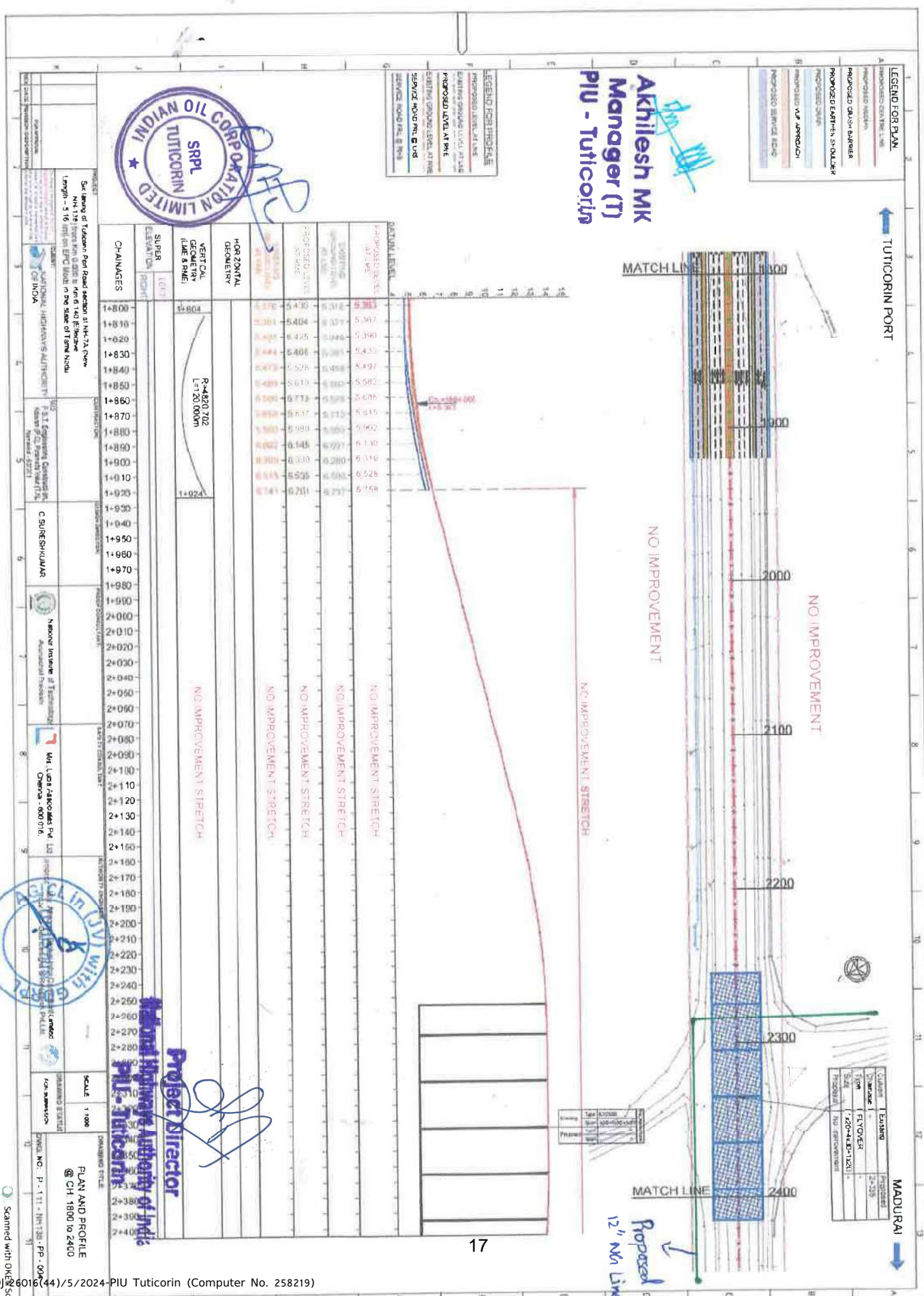






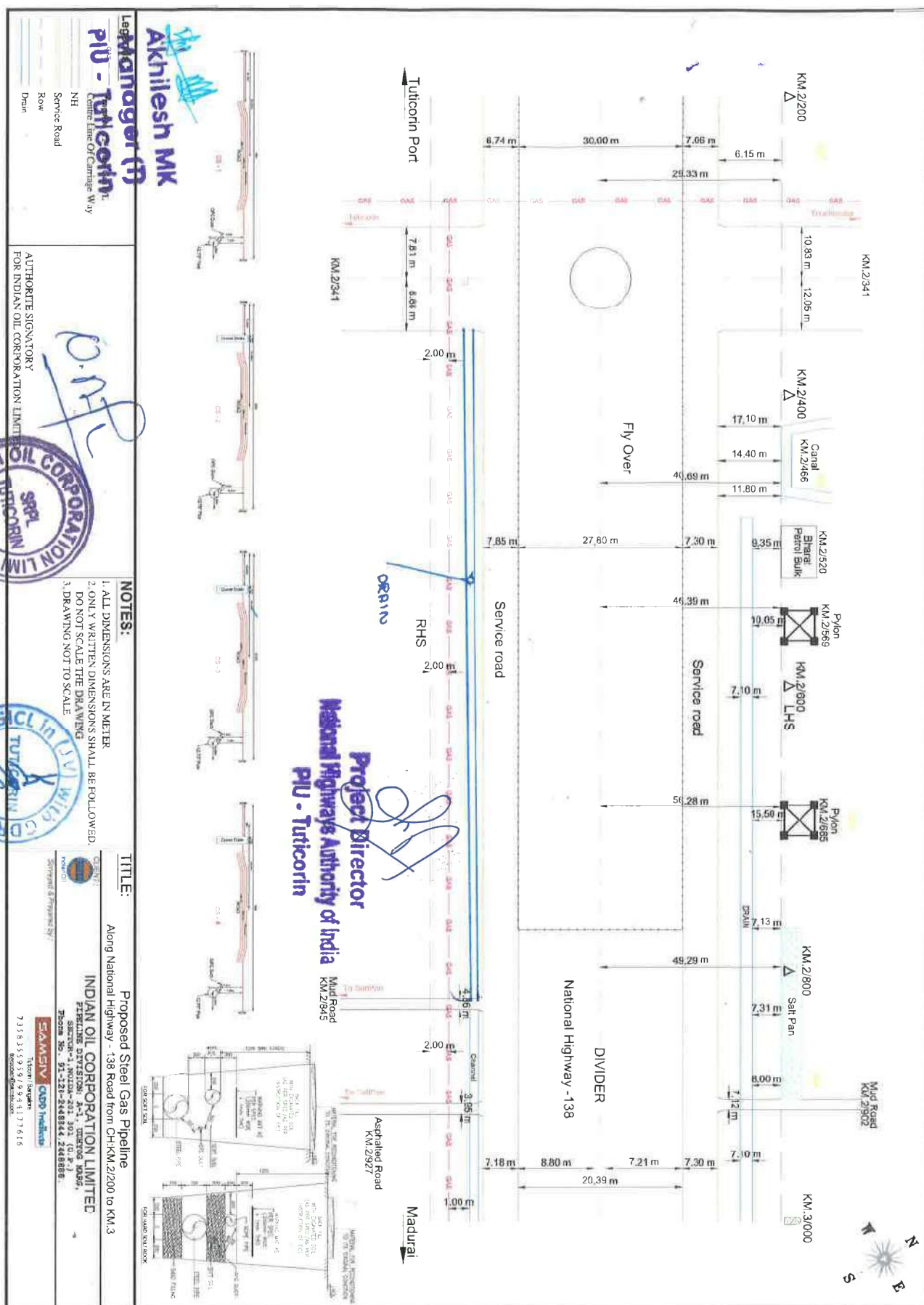












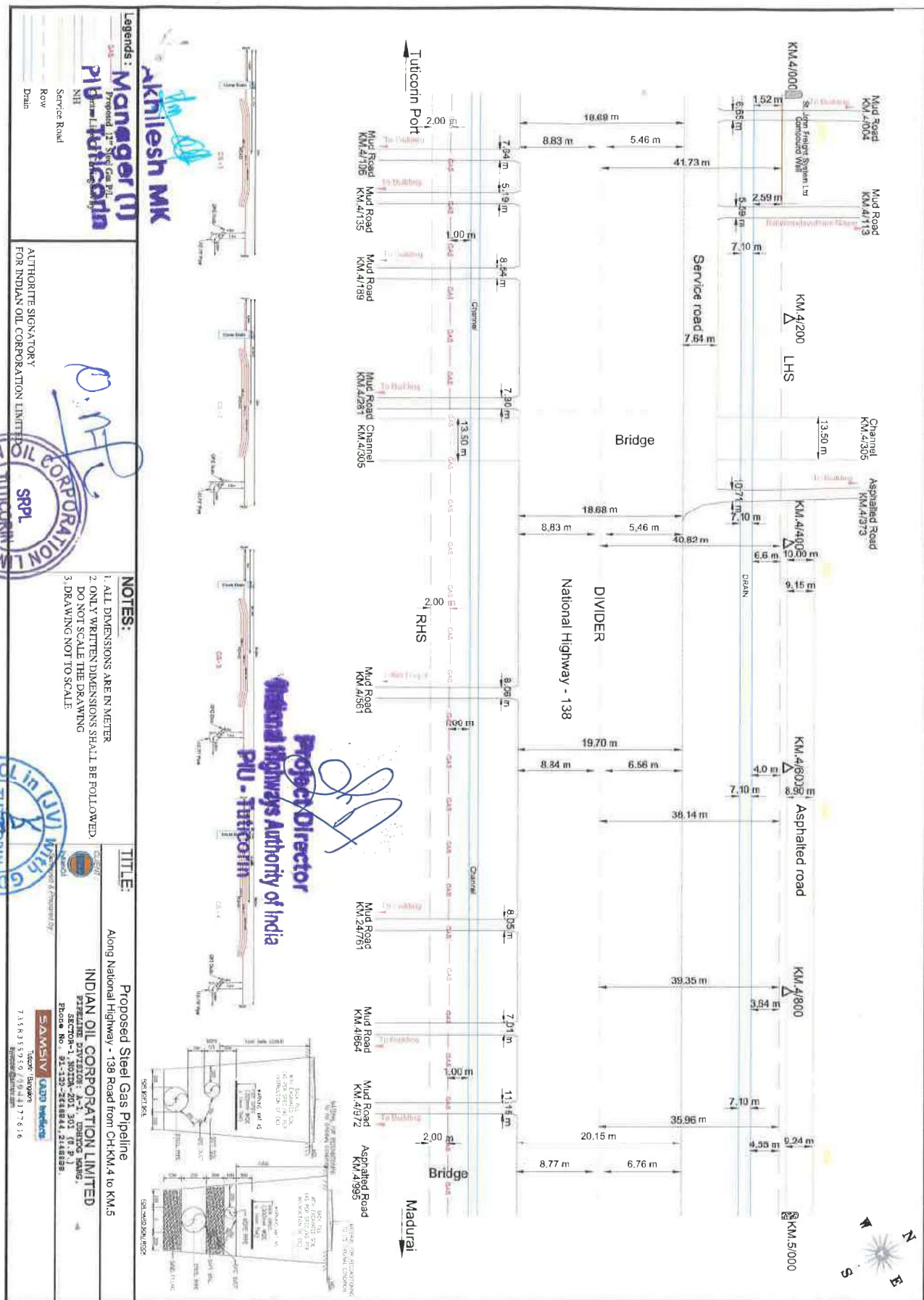




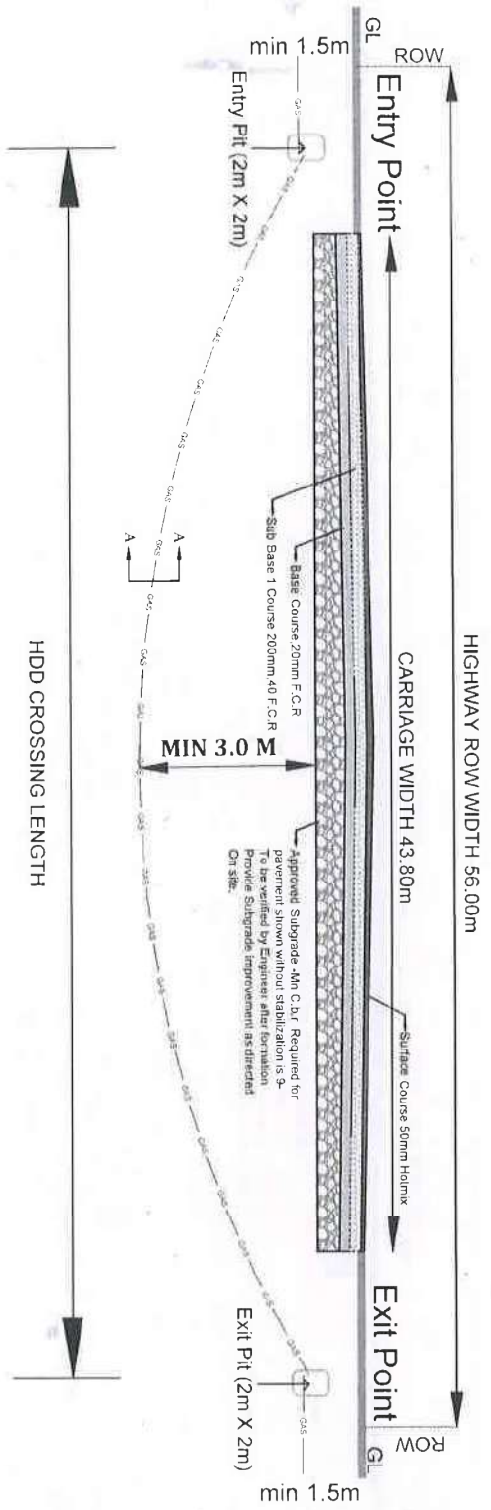




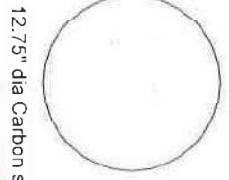




CROSS SECTION DRAWING OF ROAD CROSSING AT KM 2/225 BY HDD METHOD



89 mm OD HDPE  
OFC Cable



12.75" dia Carbon steel Pipe (API 5L-X-52 grade) 6.4 mm wall thickness

Project Director  
General Highway Authority of India  
PIU - Tuticorin

**Akhilash MK**  
**Manager (M)**  
**PIU - Tuticorin**

AUTHORITE SIGNATORY  
FOR INDIAN OIL CORPORATION LIMITED

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

**TITLE:**  
CROSS SECTION DRAWING OF NH 132 ROAD CROSSING AT KM 2/225 BY HDD METHOD

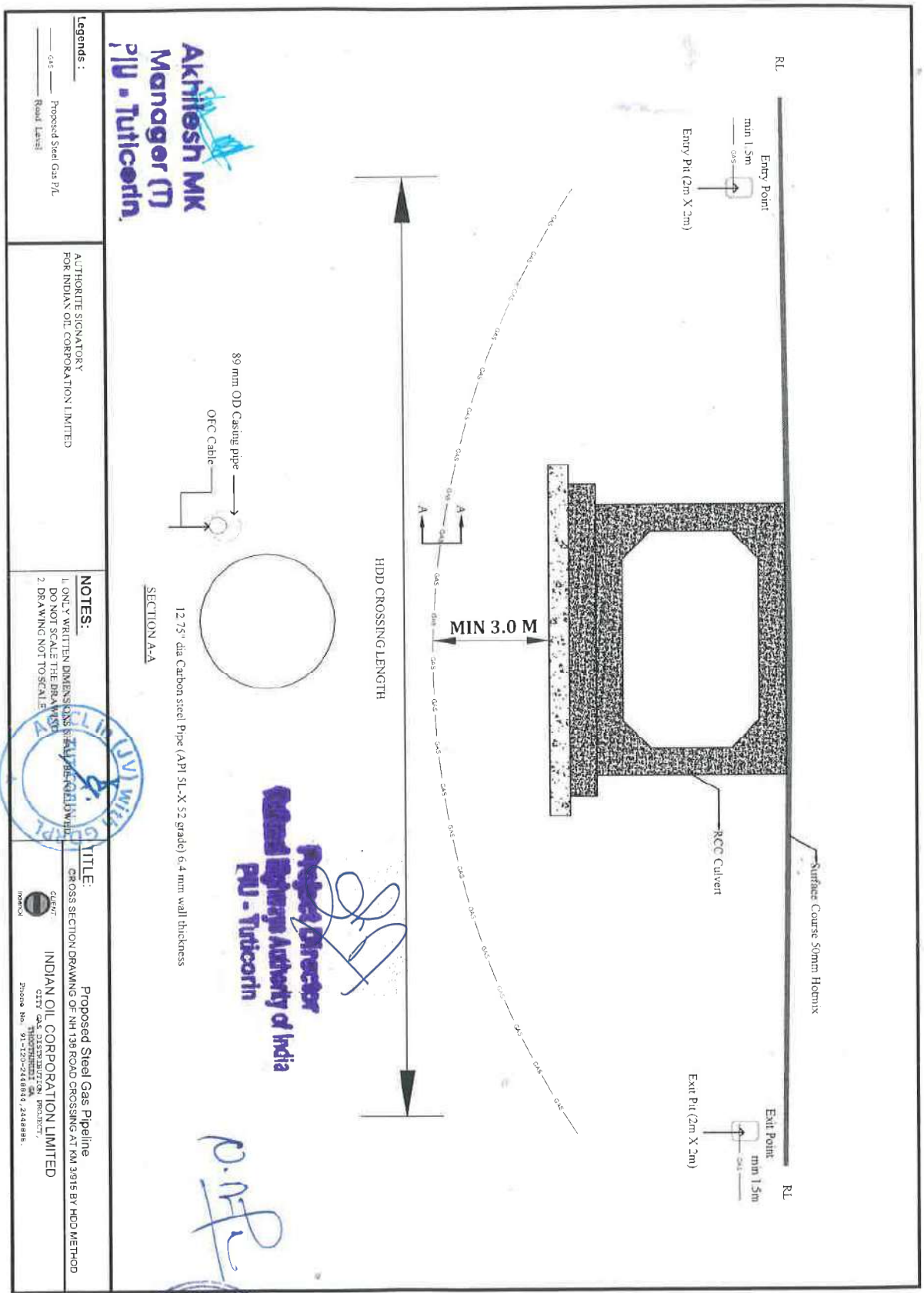
Proposed Steel Gas Pipeline  
INDIAN OIL CORPORATION LIMITED  
CITY GAS DISTRIBUTION PROJECT  
Phone No. 91-22-246804, 244898.



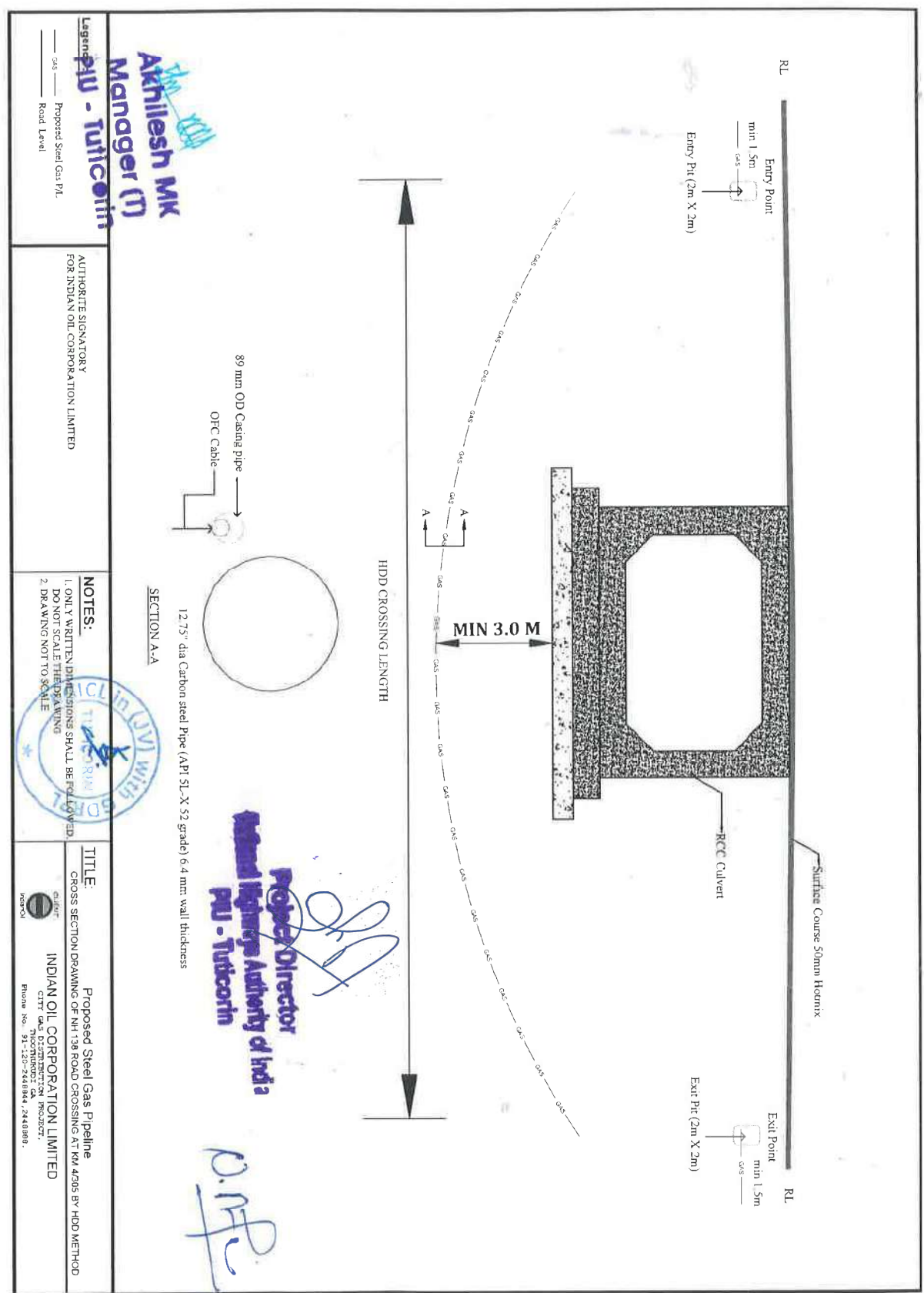




CROSS SECTION DRAWING OF CULVERT CROSSING AT KM 3/915 BY HDD METHOD

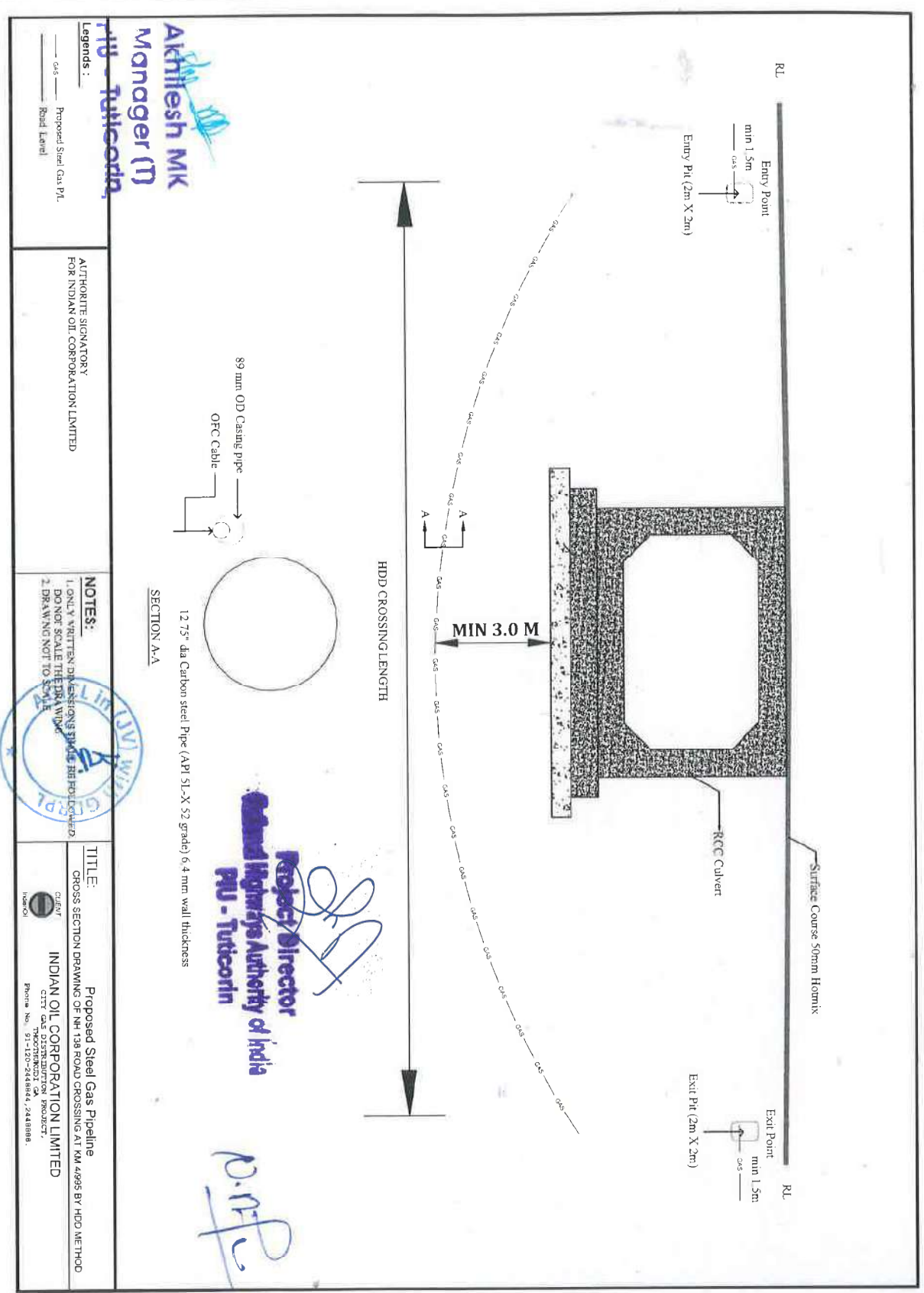


CROSS SECTION DRAWING OF CULVERT CROSSING AT KM 4/305 BY HDD METHOD



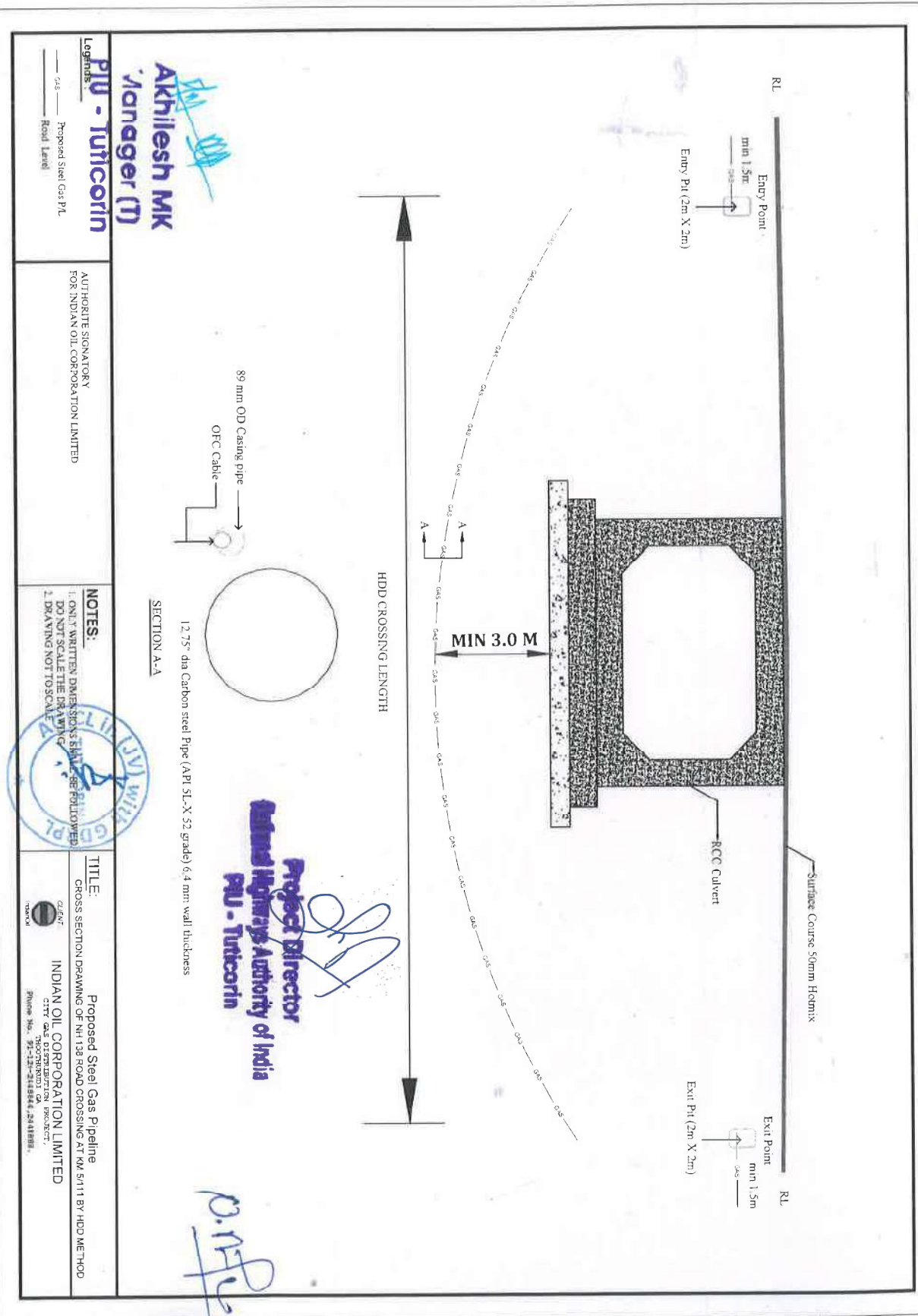


CROSS SECTION DRAWING OF CULVERT CROSSING AT KM 4/995 BY HDD METHOD

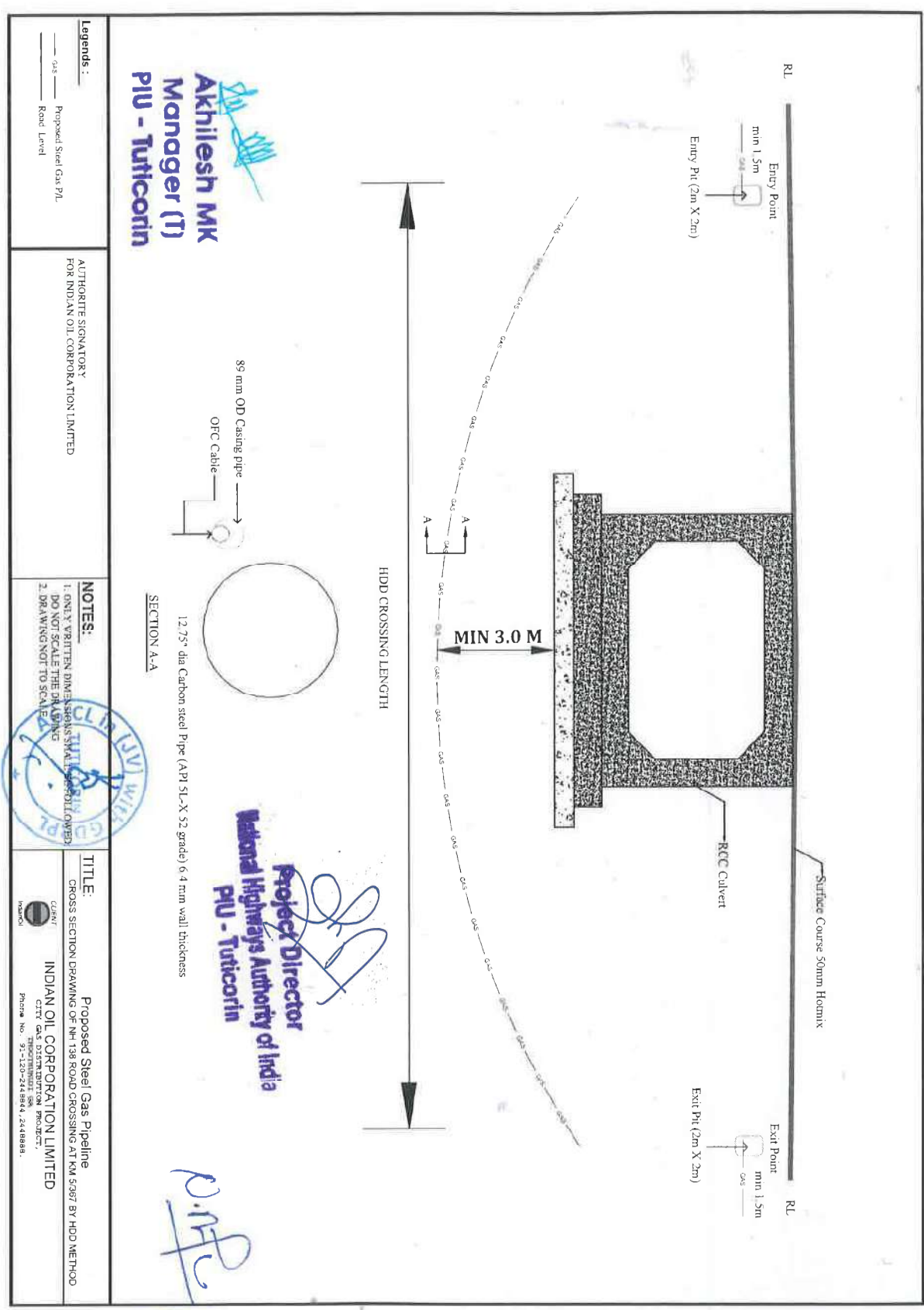




CROSS SECTION DRAWING OF CULVERT CROSSING AT KM 5/11 BY HDD METHOD



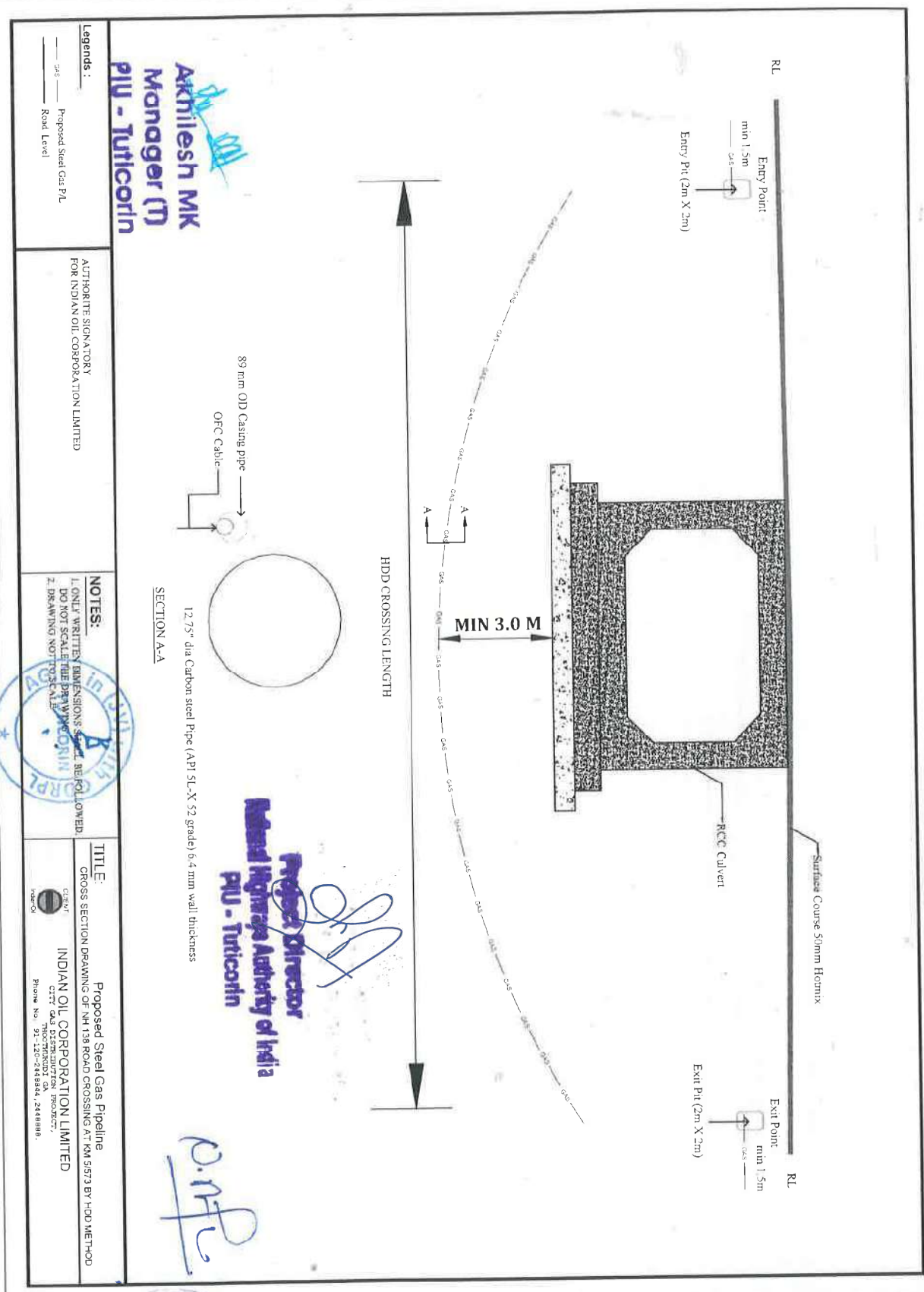
CROSS SECTION DRAWING OF CULVERT CROSSING AT KM 5/367 BY HDD METHOD



<b>Legends :</b> — Gas — Proposed Steel Gas PL — Road Level	<b>NOTES:</b> 1. ONE X WRITTEN DIMENSIONS SHALL BE FOLLOWED. 2. DRAWING NOT TO SCALE.	<b>TITLE:</b> CROSS SECTION DRAWING OF NH 138 ROAD CROSSING AT KM 5/367 BY HDD METHOD <b>Proposed Steel Gas Pipeline</b> INDIAN OIL CORPORATION LIMITED CITY GAS DISTRIBUTION PROJECT. Phone No. 91-120-2448844, 2448889.
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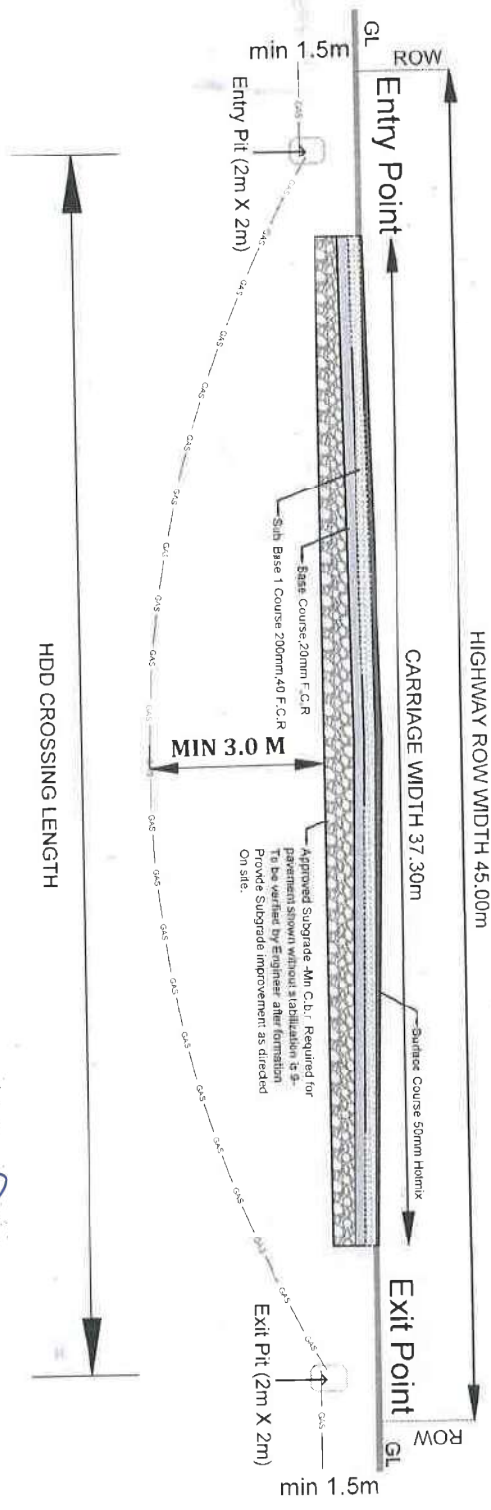


CROSS SECTION DRAWING OF CULVERT CROSSING AT KM 5/573 BY HDD METHOD





CROSS SECTION DRAWING OF ROAD CROSSING AT KM 6/200 BY HDD METHOD



**Akhilesh MK**  
**Manager (T)**  
**PIU - Tuticorin**

**Legends :**

- Proposed Steel Gas P/L
- NH ROW
- Ground Profile

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**NOTES:**

1. ALL DIMENSIONS ARE IN METRE
2. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. DO NOT SCALE THE DRAWING
3. DRAWING NOT TO SCALE

**TITLE:**

CROSS SECTION DRAWING OF NH 138 ROAD CROSSING AT KM 6/200 BY HDD METHOD  
INDIAN OIL CORPORATION LIMITED  
CITY GAS DISTRIBUTION PROJECT  
PROPOSEDUT CA  
Phone No. 91-120-248844, 248888

**Project Director**  
**National Highways Authority of India**  
**PIU - Tuticorin**

