



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय)

National Highways Authority of India

(Ministry of Road Transport & Highways)

कार्यालय क्षेत्रीय अधिकारी, आंध्रप्रदेश क्षेत्र

Office of the Regional Officer, Andhra Pradesh Region

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

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

दूरभाष / Tele : 0866-2483910

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



भारतमाला
प्रगति के पथ पर अग्रसर
BHARATMALA
ROAD TO PROSPERITY

Lr.No NHAI/RO-VJA/11045/NOC/2021-22/ 1319

Dt.17.06.2021

INVITATION OF PUBLIC COMMENTS

Sub: RO - Vijayawada - Grant of permission for laying of 12.75" dia Natural Gas Pipeline by M/s. IOCL with 89mm dia OFC along NH-16 from Km.733.885 to Km.741.256 for a length of 7371mt - Reg.

The Project Director, PIU - Visakhapatnam submitted a proposal of IOCL for laying of 12.75" dia Natural Gas Pipeline by M/s. IOCL with 89mm dia OFC along NH-16 from Km.733.885 to Km.741.256 for a length of 7371mt.

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

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

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

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



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण National Highways Authority of India

(सड़क परिवहन और राजमार्ग मंत्रालय)

(MINISTRY OF ROAD TRANSPORT & HIGHWAYS)

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

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



भारतमाला
प्रगति के पथ पर अग्रसर
BHARATMALA
ROAD TO PROSPERITY

दूरभाष / Phone : 0891-2707600

2714119

फाक्स / Fax No. : 0891-2714118

ई-मेल / E-mail : vis@nhai.org

NHAI/PIU-VSP/Permission-IOCL/2020/

Date: 23.03.2021

To

The Regional Officer,
National Highways Authority of India,
Regional Office, Gurunanak Nagar,
Teachers Colony,
Vijayawada.

7427
23/03/21
MQV



Sub: NHAI, PIU Visakhapatnam: Permission for layig of 12.75" natural gas Pipelines along with Optical Fibre Cable for City Gas Distribution of Vizag Along NH - 16 between Km Stone 733 and 742 (from 733/885 Km to 741/256Km) - Request for issuing of NOC - Reg.

Ref: (1) Letter No. Nil dated 15.12.2020 PJ-CGD/VIZAG/008, M/s. Indian oil Corporation Limited, Visakhapatnam.
(2) This office Letter No. NHAI/PIU-VSP/Permission - IOCL/20206791 dated 31.12.2020.
(3) Lr NO. MSV.Armenge/O&M/NHAI-PIU-VSP/IOCL Permission/2020-21/295 dated 08.02.2021.
(4) This office Lr No. NHAI/PIU-VSP/Permission-IOCL-PHPL/2020/7108 dated 13.02.2021.
(5) Letter No. Nil dated 08.03.2021 M/s IOCL Letter No., PJ-CGD/VIZAG/008, M/s. Indian Corporation Limited, Visakhapatnam.

Sir,

Vide letter 01st cited, the CCM-PJ (CGD), Indian Oil Corporation Limited Paradip - Hyderabad Pipeline Project has submitted a proposal for seeking Permission for laying of 12.75" natural gas Pipelines along with Optical Fibre Cable for City Gas Distribution of Vizag Along NH - 16 between Km Stone 733 and 742 (from 733/885 Km to 741/256Km).

The proposal has been inspected and verified by M/s MSV Armenge Consultants and certain observations were communicated vide reference to 2 and 3 cited. The same were informed to the agency and the agency has submitted the revised proposal vide this office letter 4th and 5th cited.

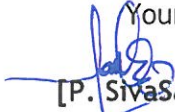
Keeping in view of the recommendations of the Consultants, the proposal submitted by M/s IOCL, Visakhapatnam, for permission for layig of 12.75" natural gas Pipelines along with Optical Fibre Cable for City Gas Distribution of Vizag Along NH - 16 between Km Stone 733 and

Building a Nation, Not Just Roads

निगमित कार्यालय : जी-5, एवं.6, सेक्टर-10, द्वारका, नई दिल्ली-110 075. वेब साइट : <http://www.nhai.org>
Corporate Office : G-5 & 6, Sector-10, Dwaraka, NEW DELHI - 110 075, Website : <http://www.nhai.org>

Keeping in view of the recommendations of the Consultants, the proposal submitted by M/s IOCL, Visakhapatnam, for permission for laying of 12.75" natural gas Pipelines along with Optical Fibre Cable for City Gas Distribution of Vizag Along NH - 16 between Km Stone 733 and 742 (from 733/885 Km to 741/256Km is herewith recommended for communicating the approval of Competent Authority.

Encl: Proposal 02 sets.
(01 Original + 01 Duplicate)

Yours truly,

[P. Sivasankar]
G.M (T) & Project Director

Copy to:

The Authorized Signatory, M/s Indian Oil Corporation Limited, Paradip - Hyderabad Pipeline Project, 04th Floor, LIC Annexe Building, Thikkanna (Diamond Park) Road, Near RTC Complex, Visakhapatnam.

31/05
DGM & HH




ms file plan
Gue
07/28
phmnp

CERTIFICATE

1. Permission for laying of 12.75" natural gas Pipelines along with Optical Fibre Cable for City Gas Distribution of Vizag Along NH – 16 between Km Stone 733 and 742 (from 733/885 Km to 741/256Km) in Visakhapatnam district in the state of Andhra Pradesh" is confirming of all the standard conditions / guidelines issued vide Ministry circular No. RW/NH-33044/29/2015/S&R(R) dt. 22.11.2016.
2. It is certified that there will be no hindrance to proposed six laning based on feasibility report considering proposed structures at the said location.
3. It is certified that sufficient RoW is available at site for accommodating proposed six laning.
3. It is certified that the details of the proposed permission shall be entered in the Register of Records of the Permission maintained by PIU.


GM (T) & Project Director


Manager (Tech)



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण National Highways Authority of India

(सड़क परिवहन और राजमार्ग मंत्रालय)

(MINISTRY OF ROAD TRANSPORT & HIGHWAYS)

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

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



भारतमाला
प्रगति के पथ पर आगरा
BHARATMALA
ROAD TO PROSPERITY

दूरभाष / Phone : 0891-2707600

2714119

फैक्स / Fax No. : 0891-2714118

ई-मेल / E-mail : vis@nhai.org

Date: 23.03.2021

NHAI/PIU-VSP/Permission-IOCL/2020/

7427

To

The Regional Officer,
National Highways Authority of India,
Regional Office, Gurunanak Nagar,
Teachers Colony,
Vijayawada.

Sub: NHAI, PIU Visakhapatnam: Permission for laying of 12.75" natural gas Pipelines along with Optical Fibre Cable for City Gas Distribution of Vizag Along NH - 16 between Km Stone 733 and 742 (from 733/885 Km to 741/256Km) - Request for issuing of NOC - Reg.

- Ref: (1) Letter No. Nil dated 15.12.2020 PJ-CGD/VIZAG/008, M/s. Indian oil Corporation Limited, Visakhapatnam.
(2) This office Letter No. NHAI/PIU-VSP/Permission - IOCL/20206791 dated 31.12.2020.
(3) Lr NO. MSV.Armenge/O&M/NHAI-PIU-VSP/IOCL Permission/2020-21/295 dated 08.02.2021.
(4) This office Lr No. NHAI/PIU-VSP/Permission-IOCL-PHPL/2020/7108 dated 13.02.2021.
(5) Letter No. Nil dated 08.03.2021 M/s IOCL Letter No., PJ-CGD/VIZAG/008, M/s. Indian Corporation Limited, Visakhapatnam.

Sir,

Vide letter 01st cited, the CCM-PJ (CGD), Indian Oil Corporation Limited Paradip - Hyderabad Pipeline Project has submitted a proposal for seeking Permission for laying of 12.75" natural gas Pipelines along with Optical Fibre Cable for City Gas Distribution of Vizag Along NH - 16 between Km Stone 733 and 742 (from 733/885 Km to 741/256Km).

The proposal has been inspected and verified by M/s MSV Armenge Consultants and certain observations were communicated vide reference to 2 and 3 cited. The same were informed to the agency and the agency has submitted the revised proposal vide this office letter 4th and 5th cited.

Keeping in view of the recommendations of the Consultants, the proposal submitted by M/s IOCL, Visakhapatnam, for permission for laying of 12.75" natural gas Pipelines along with Optical Fibre Cable for City Gas Distribution of Vizag Along NH - 16 between Km Stone 733 and

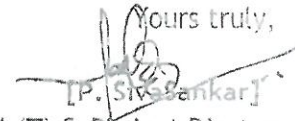
Building a Nation, Not Just Roads

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

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

Keeping in view of the recommendations of the Consultants, the proposal submitted by M/s IOCL, Visakhapatnam, for permission for laying of 12.75" natural gas Pipelines along with Optical Fibre Cable for City Gas Distribution of Vizag Along NH - 16 between Km Stone 733 and 742 (from 733/885 Km to 741/256Km is herewith recommended for communicating the approval of Competent Authority.

Encl: Proposal 02 sets.
(01 Original + 01 Duplicate)

Yours truly,

[P. Sivabankar]
G.M (T) & Project Director

Copy to:

The Authorized Signatory, M/s Indian Oil Corporation Limited, Paradip - Hyderabad Pipeline Project, 04th Floor, LIC Annexe Building, Thikkanna (Diamond Park) Road, Near RTC Complex, Visakhapatnam.



ISO 9001: 2015
Certified Company

MSV INTERNATIONAL INC.

In Association with

**ARMENGE ENGINEERING AND
MANAGEMENT CONSULTANTS PVT. LTD.**

MSV International, Inc.
Project Office
2nd Floor, D. No: 1-55/9, Shipyard Layout
Bindra Nagar, Madhurawada
Visakhapatnam - 530048
Email:
msvarmenge.ranasthalam@gmail.com

CONSULTANCY SERVICES FOR THE IE SERVICES FOR S/LANING OF RANASTHALAM-ANANDAPURAM OF NH-16 IN THE STATE OF ANDHRA PRADESH

Lr. No. MSV.Armenge/O&M/NHAI-PIU-VSP/IOCL Permission/2020-21/295

Date: 08.02.2021

To
The Project Director
National Highways Authority of India
PIU, NHAI Enclave
Hanumantawaka Jn.,
Visakhapatnam - 530 040

Sub.: NHAI Works- Consultancy Services for supervision of short Term Improvement and routine Maintenance of a) Anandapuram- Visakhapatnam - Anakapalli section from Km 682.980 to 741.256 (length - 58.276 Kms) of NH-16 (NH-5); b) Visakhapatnam Port connectivity Project corridor in the state of Andhra Pradesh - **Report on permission for laying of 12.75" Natural Gas pipe line along with Optical Fibre Cable for city Gas distribution of Vizag along NH-16 between Km 733 and 742 (from Km 733.885 to Km 741.256) - in Visakhapatnam district in the state of Andhra Pradesh - Reg.**

Ref: 1) Your office Lr. No. NHAI/PIU - VSP/Permission - IOCL/2020/6791
2) M/s IOCL Letter No.P J-CGD/VIZAG/008 Dated.15.12.2020

Dated: 31.12.2020.

With reference to the above letter, the proposal has been inspected along with IOCL officials and submitting the report herewith.

- i) The proposed location for laying of 12.75" diameter, Carbon Steel, API 5L Gr X52, Natural Gas pipe line along with Optical Fibre cable is intended along the National Highway at locations described below in Vizag along NH-16 From 733/885 KM to 741/256 KM (Between KM 733 and 742).
- (ii) The proposal has submitted as per the latest guidelines RW/NH-33044/29/2015/S&R(R) dated 22.11.2016.

IOCL has submitted the following documents:-

- (i) Proposal letter addressed to PD/NHAI/PIU, Visakhapatnam.
- (ii) Specification Report and License Fee Estimate
- (iii) Checklist
- (iv) Authorization for signing and execution of documents.(General Power of Attorney).
- (v) Grant of authorization issued by Petroleum and Natural gas Regulatory Board to IOCL for development of city gas distribution network in the geographical area of Srikakulam, Vizianagaram and Visakhapatnam Districts.
- (vi) Methodology of laying of pipes for HDD methods.
- (vii) Cross Section for laying of 12.75", Carbon Steel, API 5L Gr X52, Natural Gas pipe line along with Optical Fire.
- (viii) Plan and Profile for laying of 12.75", Carbon Steel, API 5L Gr X52, Natural Gas pipe line along with Optical Fire .
- (ix) Design Calculation of Pipe laying submitted.

Continued on page.....2



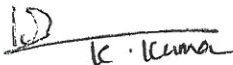
- (x) Affidavit.
- (xi) Licensed Lease Agreement (Agreement regarding grant of ROW permission for laying utility services (laying of 12.75", Carbon Steel, API 5L Gr X52, Natural Gas pipe line along with Optical Fire) along and across National Highway land.
- (xii) Undertaking for submission of Performance Bank Guarantee.
- (xiii) Undertaking for not to damage any other Utility, if any and if damaged then to pay the losses either to NHAI or to the concerned agency. (From 5.1 to 5.12 in Check List)
- (xiv) Certification for undertaking for relocates service road/approach road/utilities (laying of 12.75", Carbon Steel, API 5L Gr X52, Natural Gas pipe line along with Optical Fire) at his own cost.
- (xv) Format of maintaining records of Right of way Permission Granting for laying of 12.75", Carbon Steel, API 5L Gr X52, Natural Gas pipe line along with Optical Fiber cable.
- (xvi) Route Map

The following are should be followed by the Agency:-

- a. The top casing / conduit pipe should be at least 1.2 mtrs below the surface of the road. But it was shown in the drawing as 1mtr. To be corrected in the drawing and should followed at the site.
- b. The Existing and Proposed features should be indicated in the Plan, but not shown in the submitted plan. Built up area also not shown in the plan.
- c. In addition to the documents submitted above there is a ROW restriction in the locations between Km 733.885 to Km 737.550 wherein the ROW (RCW) width available is between 23 to 24 meters. So, the agency has to submit and provide the action plan how they will be executing the work at these locations wherein the ROW width is not sufficient.
- d. In the above mentioned locations other agencies like Jio, Indian Navy ,BSNL and other OFC cables are already laid, so how will the agency execute the work without given any hindrance to the earlier executed work.
- e. There is a Built-up Area from Lankelapalem Jn. i.e from Km.733.885 to Salpuvanipalem i.e Km.735.200 and Maredupudi village i.e. Km 736.400 to Koppaka Junction i.e. Km 739.500, so the Agency should come with action plan how will the agency execute the work without disturbing the existing road.

Keeping in view of the above we are of the opinion that the agency M/S IOCL should come up with a detailed action plan keeping in mind the above factors mentioned in points (a.to e) along with proposal for laying of 12.75", Carbon Steel, API 5L Gr X52, Natural Gas pipe line along with Optical Fibre cable for the city Gas distribution of Visakhapatnam district is along NH-16 from Km.733.885 to Km.741.256 (7.371 Kms length) in the state of Andhra Pradesh.

Thanking you,
Yours faithfully,


K. Kumar

MSV ARMENGE Engineering and Management Consultants Pvt. Ltd.
Kiran kumar
Highway Maintenance Engineer



इंडियन ऑयल कॉर्पोरेशन लिमिटेड

सिटी गैस वितरण परियोजना
चौथी मंजिल, एल.आई.सी. एनेक्सी भवन, थिक्कना (डायमंड पार्क) रोड,
आर.टी.सी. कॉम्प्लेक्स के पास, विशाखापट्टणम-530 004

फोन : 0891-2595104

Indian Oil Corporation Limited

City Gas Distribution Project

4th Floor, LIC Annexe Building, Thikkanna (Diamond Park) Road,

Near RTC Complex, Visakhapatnam-530004

Phone : 0891-2595104



IndianOil

A Maharatna
Company

पाइपलाइन्स प्रभाग
Pipelines Division

Ref.No: PJ-CGD/VIZAG/008

To

Project Director

National Highway Authority of India

Project Implementation unit (GQ),

NHAI Enclave, KM 2/8 NH-16,

Hanumanthawaka, Visakhapatnam - 530040, A.P.

NHAI PIU	VSP
Mgr (T)	
Dy.M (T)	
PS(MLN)	
PA(RVG)	
ACCTS	
SE-1	
SE-2	
SE-3	

Date: 08.03.2021



Sub: Permission for laying of 12.75" natural gas Pipelines along with Optical Fibre Cable for City Gas Distribution of Vizag Along NH-16 between KM Stone 733 and 742 (From 733/885 Km to 741/256 Km).

Ref: 1. Letter No. PJ-CGD/VIZAG/008 Dt. 15.12.2020.

2. Letter No: NHAI/PIU-VSP/Permission-IOCL-PHPL/2020/7108 Dt. 13.02.2021.

Vide reference stated above, the detailed action plan for the observations / Queries received from NHAI-PIU, Visakhapatnam have been answered / clarified as per attachment.

Since this is a time bound project of National importance, contributing to national prosperity, we solicit your most expeditious action to grant NOC for laying the pipeline along with optical fibre cable under National Highway-16.

Thanking you,

Yours sincerely,

V.Sudhakar,
CM-PJ(CGD), Vizag

मुख्यालय : ए-1, उद्योग मार्ग, सेक्टर-1, नोएडा-201 301

● Head Office : A-1, Udyog Marg, Sector-1, Noida-201 301

पंजीकृत कार्यालय : जी-9, अलि यावर जंग मार्ग, बांद्रा (पूर्व) मुम्बई-400 051 (भारत) ● Regd. Office : G-9, Ali Yavar Jung Marg, Bandra (East) Mumbai-400 051. (India)

सी.आई.एन. नं. / C I N No. : L23201MH1959GOI011388

S.No.	Query	Clarification
1	The top casing / conduit pipe should be at least 1.2 m below the surface of the road. But it was shown in the drawing as 1 mtr. To be corrected in the drawing and should followed at the site.	In the drawing, it was shown as either 1 mtr or As per OISD / T4S / Local Authority. As per OISD STD 226, the minimum clearance from the top of pipeline to the surface of road is 1.2Mtr. We will be maintaining atleast 1.2Mts below the surface of the road.
2	The Existing and Proposed features should be indicated in the plan, but not shown in the submitted plan. Built up area also not shown in the plan.	New plan showing existing features and proposed features along with built up area attached.
3	In addition to the documents submitted above there is a ROW restriction in the locations between km 733.885 to km 737.550 wherein the ROW (RCW) width available is between 23 to 24 meters. So, the agency has to submit and provide the action plan how they will be executing the work at these locations wherein the ROW width is not sufficient.	Plan attached. We propose HDD at locations where open cut is not feasible.
4	In the above mentioned locations other agencies like Jio, Indian Navy, BSNL and other OFC cables are already laid, so how will the agency execute the work without given any hindrance to the earlier executed work.	We will be laying after informing other agencies and ensuring that their existing features are not disturbed.
5	There is a Built-up Area from Lankalapalem Jn. i.e from Km.733.885 to Salpuvanipalem i.e Km.735.200 and Maredupudi village i.e Km 736.400 to Koppaka Junction i.e Km 739.500, so the Agency should come with action plan how will the agency execute the work without disturbing the existing road.	Drawing and detailed Plan are attached showing proposed HDD in the built up area locations.






OISD – STD – 226
NATURAL GAS TRANSMISSION PIPELINES AND CITY GAS
DISTRIBUTION NETWORKS

Page No. 27

10.2 Pipeline Cover

10.2.1 Gas pipelines shall be buried with a minimum cover as specified in Table 5 unless above ground construction is desirable due to technical, economic or topographical reasons.

10.2.2 In rocky areas and areas with hard soils / gravels, minimum 150 mm thick padding of soft soil / sand shall be provided all around the pipe. If required protective layer of rock-shield / rock guard or concrete coating may be provided to prevent damage to coating / steel pipe during installation and testing in place of soft padding.

10.2.3 No dwellings shall be permitted within ROU.

Table 5
Minimum Cover Requirements for Pipelines

Sl No.	Locations	Minimum Cover In Mtr
i)	Areas of agricultural, horticultural activity, limited or no human activity, Industrial, commercial and residential area	1.0
ii)	Rocky terrain	1.0
iii)	Drainage, ditches at roads/railway crossing	1.0
iv)	Minor river crossings/canal /drain/nala/ditches	1.5
v)	Major river crossings (below scour level)	2.5
vi)	River with rocky bed (below scour level)	1.5
vii)	Area under influence of tides	1.5
viii)	Cased/Uncased road crossing	1.2
ix)	Cased railway crossing	1.7

NOTES:

- (i) The depth of cover shall be measured from the top of the pipe coating to the top of the undisturbed surface of soil or the top of graded working strip, whichever is lower. The fill material in the working strip shall not be considered in the depth of cover;
- (ii) The cover shall be measured from the top of road or top of rail, as the case may be;
- (iii) For river/watercourses that are prone to scour and erosion, adequate safe cover shall be provided below the predicted scour profile expected during the life time of the pipeline;
- (iv) When scour level is not known, an additional cover of at least 1 m shall be provided from the existing bed of the river/water course except in case of rocky river bed;

"OISD hereby expressly disclaims any liability or responsibility for loss or damage resulting from the use of OISD Standards/Guidelines."



12" ROU DETAILS ALONG NH-16

	HDD	HDD	OT	OT	OT	OT	HDD	OT	OT	OT
NHAI-REF	733.855-734.155	734.155-734.580	734.580-734.700	734.700-734.780	734.780-734.900	734.900-735.100	735.100-735.200	735.200-735.630	735.630-735.683	
Chainage										
OT			120MTRS	80MTRS	120MTRS	200MTRS		430MTRS	53MTRS	
HDD	300MTRS	425MTRS					100MTRS			

	OT	OT	OT	HDD	HDD	OT	HDD	HDD	OT	OT
NHAI-REF	735.683-736.000	736.000-736.200	736.200-736.362	736.362-736.500	736.500-736.580	736.580-736.640	736.640-736.740	736.740-736.950	736.950-737.100	
Chainage										
OT	317MTRS	200MTRS	162MTRS			60MTRS			150MTRS	
HDD				138MTRS	80MTRS		100MTRS	210MTRS		

	HDD	HDD	HDD	OT	HDD	OT	HDD	HDD	HDD	HDD
NHAI-REF	737.100-737.500	737.500-737.635	737.635-737.900	737.900-737.950	737.950-738.125	738.125-738.240	738.240-738.500	738.500-738.700	738.700-738.800	
Chainage										
OT				50MTRS		115MTRS				
HDD	400MTRS	135MTRS	265MTRS		175MTRS		260MTRS	200MTRS	100MTRS	

	OT	HDD	HDD	HDD	OT	OT	HDD	OT	OT	OT
NHAI-REF	738.800-739.200	739.200-739.500	739.500-739.686	739.686-739.750	739.750-740	740-740.300	740.300-740.650	740.650-740.850	740.850-741.256	
Chainage										
OT	400MTRS				250MTRS	300MTRS		200MTRS	406MTRS	
HDD		300MTRS	186MTRS	64MTRS			350MTRS			





इंडियन ऑयल कॉर्पोरेशन लिमिटेड

पारादीप-हैदराबाद पाइपलाइन परियोजना
चौथी मंजिल, एल.आई.सी. एनेक्सी भवन, थिक्कना (डायमंड पार्क) रोड,
आर.टी.सी. कॉम्प्लेक्स के पास, विशाखापट्टणम-530 004
फोन : 0891-2595104



IndianOil

A Maharatna
Company

Indian Oil Corporation Limited

Paradip-Hyderabad Pipeline Project
4th Floor, LIC Annexe Building, Thikkanna (Diamond Park) Road,
Near RTC Complex, Visakhapatnam-530004
Phone : 0891-2595104

पाइपलाइन्स प्रभाग
Pipelines Division

Ref.No: PJ-CGD/VIZAG/008

Date: 15.12.2020

To
The Project Director,
National Highway Authority of India,
Project Implementation Unit,
Visakhapatnam (Andhra Pradesh).



Sub: Permission for laying of 12.75" Natural Gas Pipeline along with Optical Fibre Cable for City Gas Distribution of Vizag at following locations:

1. Along NH-16 between KM Stone 733 and 742 (From 733/885 KM to 741/256 KM)

Dear Sir,

Indian Oil Corporation Limited, a Govt. of India Enterprise, leading company in Oil and Gas sector is operating and maintaining more than 13000 Km of underground crude, product, LPG and Natural Gas pipelines across India. IOCL got authorization to implement City Gas Distribution of Vizag, Srikakulam and Vizianagaram from Petroleum and Natural Gas Regulatory Board (PNGRB) vide PNGRB/CGD/BID/9/2018/01/Andhra Pradesh DT 01.03.2019.

The proposed 12.75" diameter, Carbon steel, API 5L Gr X52, pipeline along with optical fibre cable is intended along the National Highway at locations described below in Vizag:

- 1) Along NH-16 From 733/885 KM to 741/256 KM (Between Km 733 and 742)

We are hereby submitting the proposal in compliance with the guidelines (F.No. RW/NH-33044/29/2015/S&R(R) dated 22.11.2016).

Since this is a time bound project of National importance, contributing to national prosperity, we solicit your most expeditious action to grant NOC for laying the pipeline along with optical fibre cable under National Highway-16.

Thanking you,

Yours sincerely,


V. Sudhakar
V.Sudhakar,
CCM-PJ(CGD), Vizag

Encl:

1. License Agreement on Non-Judicial stamp paper, Power of attorney of authorized Signature
2. Checklist, Affidavit as per NHAI, Methodology of laying, undertaking, certificate
3. PNGRB Authorization
4. Strip-Sheet, Open-cut and HDD drawings
5. Stress / Design calculations

CHECK LIST	
Guidelines for processing the proposal for laying Natural Gas pipeline in the land across National Highway vested with NHAI	
Relevant circulars	
1.	Ministry circular No. NH-41(58)/68 dated 31-01-1969
2.	Ministry circular No. NH-III/P/66/76 dated 18-11-1976
3.	Ministry circular No. RW-NJ-III/P/66/76 dated 01-05-1982
4.	Ministry circular No. RW/NH-11037/1/86-DOI(II) dated 28-07-1993
5.	Ministry circular No. RW/NH-11037/1/86-DOI dated 19-01-1995
6.	Ministry Circular No. RW/NH-34066/2/95/S&R dated 25-10-1999
7.	Ministry Circular No. RW/NH-34066/7/2003 S&R (B) dated 17-09-2003
8.	Ministry Circular No. RW/NH-33044/29/2015/S&R(R) dated 22.11.2016

Checklist for getting approval for laying of Natural Gas pipeline on NH land

S.No.	Item	Information/Status	Remarks
1	General Information		
1.1	Name and address of the Applicant/Agency	Indian Oil Corporation Limited (Pipelines Division) Paradip-Hyderabad Pipeline Project, 4 th Floor, LIC Annexe Building, Thikkanna (Diamond Park) Road, Near RTC Complex, Visakhapatnam-530004	
1.2	National Highway Number	NH-16	
1.3	State	Andhra Pradesh	
1.4	Location	KM 733/885 to KM 741/256	
1.5	(Chainage in km)	KM 733/885 to KM 741/256	
1.6	Length in Kilometres	7371 meters	
1.7	Width of available ROW	59 to 66 Mts.	
	(a) Left side from centre line towards increasing chainage/km direction	30-36Mts	
	(b) Right side from centre line towards increasing chainage/km direction	23-30Mts	
1.8	Proposal to lay underground petroleum pipeline for supply of petroleum products		
	(a) Left side from centre line towards increasing chainage/km direction	N/A	 Project Director National Highways Authority of India P.I.U. VISAKHAPATNAM
	(i) Right side from centre line towards increasing chainage/km direction	KM 733/885 to KM 741/256	
1.9	Proposal to acquire land		
	(a) Left side from center line	N.A	
	(b) Right side from center line	N.A	



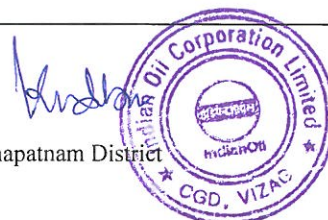
1.10	Whether proposal is in the same side where land is not to be acquired	Yes	
	If not then where to lay the cable.	At the edge of available ROW	
1.11	Details of already laid services, if any along the proposed route	Attached.	
1.12	Number of existing lanes (2/4/6/8 lanes).	4 lanes	
1.13	Proposed number of lanes (2 lane with paved shoulders/4/6/8 lanes).	4 lane	
1.14	Service road existing or not	No	
	If yes then which side		
	(a) Left side from center line	N.A	
	(b) Right side from center line	N.A	
1.15	Proposed service road		
	(a) Left side from center line	N.A	
	(c) Right side from center line	N.A	
1.16	Whether proposal to lay the petroleum pipeline is after the service road or between the service road and main carriageway	Pipeline shall be laid after the truck lay byes/ Bus bays as the case may be	
1.17	Whether carrying of sewage/gas pipeline has been proposed on highway Bridges. If yes, then mention the methodology proposed for the same.	No pipeline is proposed on bridges.	
1.18	Whether carrying of sewage/gas pipeline has been proposed on the parapet/ any part of the bridges. If Yes, then mention the methodology proposed for the same.	No pipeline is proposed on parapet/any part of bridge.	
1.19	If crossings of the road involved If yes, it shall be either encased in pipes or through structure or conduits specially built for the purpose at the expenses of the agency owing the line	No Crossings are involved	
	(a) Whether existing drainage structures are allowed to carry petroleum pipeline	NA	
	(b) It is on a line normal to NH	NA	
	(c) What is the distance of crossing the petroleum pipelines from the existing structures. Crossings shall not be too near the existing structures on the National Highway, minimum distance being 15 meter.	NA	
	(d) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum line shall be of steel, cast iron, or reinforced cement concrete and have adequate strength and be large enough to permit ready	NA	

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



	withdrawal of the carrier pipe/cable. Mention type of casing.		
	(e) Ends of casing /conduit pipe shall be sealed from the outside, so that it does not act as a drainage path.	NA	
	(f) The casing/conduit pipe should, as minimum extend from drain to drain in cuts and toe of slope in the fills.	NA	
	(g) The top of the casing/conduit pipe should be at least 1.2 meters below the surface of the road subject to being at least 0.3 m below the drain inverts. Mention the proposed details.	NA	
	(h) Mention the methodology proposed for crossings of road for the proposed Sewage/gas pipe line. Crossings shall be by boring method (HDD) (Trenchless Technology), specially, where the existing road pavement is of cement concrete or dense bituminous concrete type.	NA	
	(i) The casing/conduit pipe shall be installed with an even bearing throughout its length and in such a manner as to prevent the formation of a waterway along it.	NA	
2	Document/Drawings to be enclosed with the proposal		
2.1	Cross section showing the size of trench for open trenching method (Is it normal size of 1.65m deep *0.5m wide) i. Should not be greater than 60cm wider than the outer diameter of the pipe ii. Located as close to the extreme edge of the right of way as possible but not less than 15m from the centre lines of the nearest carriageway iii. Shall not be permitted to run along the National Highways when the road formation is	Yes, Upon trenching cross section attached.	Annex-1

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

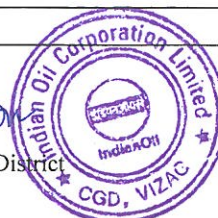



	<p>situated in double cutting. Nor shall be laid over the existing culverts and bridges.</p> <p>iv. These should be so laid that their top is least 0.6m below the ground level so as not to obstruct drainage of the road land.</p>		
2.2	Cross section showing the size of pit and location of pipeline for HDD method	Yes, Enclosed	Annex-2
2.3	Strip plan/Route plan showing the Gas pipe line, chainage, width of ROW, distance of proposed pipe line from the edge of ROW, important mile stone, intersections, cross drainage works etc.	Strip Plan showing all the details is attached.	Annex-3
2.4	Methodology for lying of the petroleum pipe line.	Yes, Enclosed.	Annex-4
2.4.1	Open trenching method. (May be allowed in the petroleum corridor only where pavement is neither cement concrete nor dense bituminous concrete type. If yes, what is the methodology of refilling of trench?	Yes, Backfilling shall be done with granules material. Compaction shall be done in layers of 15cm each. The trench shall be filled upto the required height of 1.65m (measured from top of ducts as per trench cross section drawing attached in the proposal). A crown of 250mm shall be made at the top of backfilled trench to cater for soil settlement.	
	(a) The trench width should be at least 30cm, but not more than 60 cm wider than the outer diameter of the pipe.	Yes	
	(b) For filling of the trench, bedding shall be at a depth of not less than 30cm. it shall consist of granular material, free of lumps, clods and cobbles and graded to yield a firm surface without a sudden change in the bearing value. Unsuitable soil and rock edged should be excavated and replaced by selected material.	Yes	
	(c) The backfill shall be completed in two stages (i) side fill to 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 15cm layers each consolidated by mechanical tempering and controlled addition of moisture to 95% of the proctor's density.	Yes	

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

	Overfill shall be compacted to the same density as the material that has been removed. Consolidation by saturation or ponding will not be permitted		
	(e) The road crust shall be built to the same strength as the existing crust on either side of the 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 petroleum line.	Yes	
2.4.2	Horizontal directional drilling (HDD) method.	Yes	
2.4.3	Methodology for laying of pipe line through CD works and method of laying. In cases where the carrying of gas pipe line on the bridge becomes inescapable.	No CD works are involved in laying of pipeline	
3	Draft license Agreement is signed by two witnesses	Yes, Enclosed	
3.1	The license fee estimate as per Ministry's guidelines issued vide circular no. RW/NH-33044/29/2015/S&R(R) dated 22.11.2016	Enclosed	Annex-5
4	Whether performance Bank guarantee as per Ministry's circular no. RW/NH-33044/29/2015/S&R(R) dated 22.11.2016 is obtained	Undertaking for submission of BG has been obtained from M/s. IOCL	
4.1	Confirmation of BG has been obtained or not as per MoRTH/NHAI guidelines	Confirmation of BG shall be obtained after BG Submission by M/s. IOCL	
5	Affidavit/ Undertaking from the Applicant for the following is to be furnished		
5.1	Undertaking for not to damage any other utility, if damaged then to pay the losses either to NHAI or to the concerned agency.	Yes, Enclosed	
5.2	Undertaking for Renewal of bank guarantee as and when asked by MoRTH/NHAI.	Yes, Enclosed	
5.3	Undertaking for confirming all standard condition of Ministry circulars and NHAI's guidelines.	Yes, Enclosed	
5.4	Undertaking for Indemnity against all damages and claims.	Yes, Enclosed	
5.5	Undertaking for management of traffic	Yes, Enclosed	

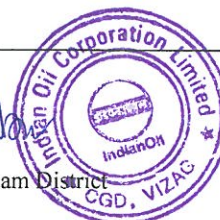
Project Director
National Highways Authority of India
P.U. VISAKHAPATNAM




	movement during laying of petroleum line without hampering the traffic		
5.6	Undertaking that if any claim is raised by the concessionaire/contractor then the same has to be paid by the applicant.	Yes, Enclosed	
5.7	Undertaking that prior approval of the NHAI shall be obtained before undertaking any work for installation, shifting or repairs, or alterations to the petroleum located in the National Highway right-of-ways.	Yes, Enclosed	
5.8	Undertaking that expenditure, if any, incurred by NHAI for repairing any damage caused to the National Highway by the laying, maintenance or shifting of the petroleum line will be borne by the applicant agency owing the line.	Yes, Enclosed	
5.9	Undertaking that text of the license deed is as per verbatim of MoRTH format (issued vide Ministry's circular no. RW/NH-33044/29/2015/S&R(R) dated 22.11.2016	Yes, Enclosed	
5.10	Undertaking that the applicant has obtained various safety clearances from the representative authorities such as Directorate of Electricity, Chief controller of Explosives, Petroleum and Explosive safety Organization, Oil Industry safety Directorate, State/Central pollution control board and any other statutory clearances as applicable, before applying to Highway Administration	Petroleum and Explosives Safety Organization (PESO) approval for the Steel network can be applied to Chief Controller of Explosives only after mechanical completion and Hydrostatic testing of the line but before commissioning, as Hydro-testing report will be part of the submittal for obtaining PESO clearance. The approval will be submitted to NHAI after obtaining it. Electricity, OISD and PCB clearances are not applicable. Undertaking is being submitted. The construction of the Steel Network is done as per the T4S guideline of PNGRB and as per OISD 226 guidelines.	
5.11	If the MoRTH/NHAI consider it necessary in future to move the petroleum line for any work of improvement or repairs to the road, it will be carried out as desired by the MoRTH/NHAI at the cost of the agency owing the petroleum line within a reasonable time (not exceeding 60 days) of the intimation given.	Yes, Enclosed	
5.12	Certificate from the applicant in the following format (i) Laying of Gas pipe line will not have any deleterious effects on any of the bridge components and roadway safety	Enclosed	 Project Director National Highways Authority of India F.T.U. VISAKHAPATNAM

	for traffic. (ii) "We do undertake that I/we will relocate service road/approach road/utilities at my/our own cost notwithstanding the permission granted within such time as will be stipulated by NHAI" for future six-lanning or any other development."		
6	Who will sign the agreement on behalf of Gas pipe line agency.	CM(PJ-CGD), Indian Oil Corporation Limited (pipelines division) City Gas Distribution project, Visakhapatnam.	
	Power of Attorney to sign the agreement is available or not	Yes, Enclosed	
7	The project Director will submit the following Certificates		
7.1	Certificate that the proposal is confirming to all standard conditions issued vide Ministry's circular No: RW/NH-33044/29/2015/S&(R) dated 22.11.2016	Yes, Enclosed.	
7.2	Certificate from PD in the following format (i)" It is certified that any other location of the Gas pipe line would be extremely difficult and unreasonable costly and the installation of Gas pipe line within ROW will not adversely affect the design, stability & traffic safety of the Highway nor the likely future improvement such as widening of the carriageway, easing of curve etc." (ii)for 6-lanning (a) Where feasibility is available "I do certify that there will be no hindrance to proposed six-laning based on the feasibility report considering proposed structures at the said location". (b) In case feasibility report is not available "I do certify that sufficient ROW is available at site for accommodating proposed six-lining".	Yes, Enclosed	
8	If NH section proposed to be taken up by NHAI on BOT basis – a clause is to be inserted in the agreement. "The permitted Highway on which License has	N.A	

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



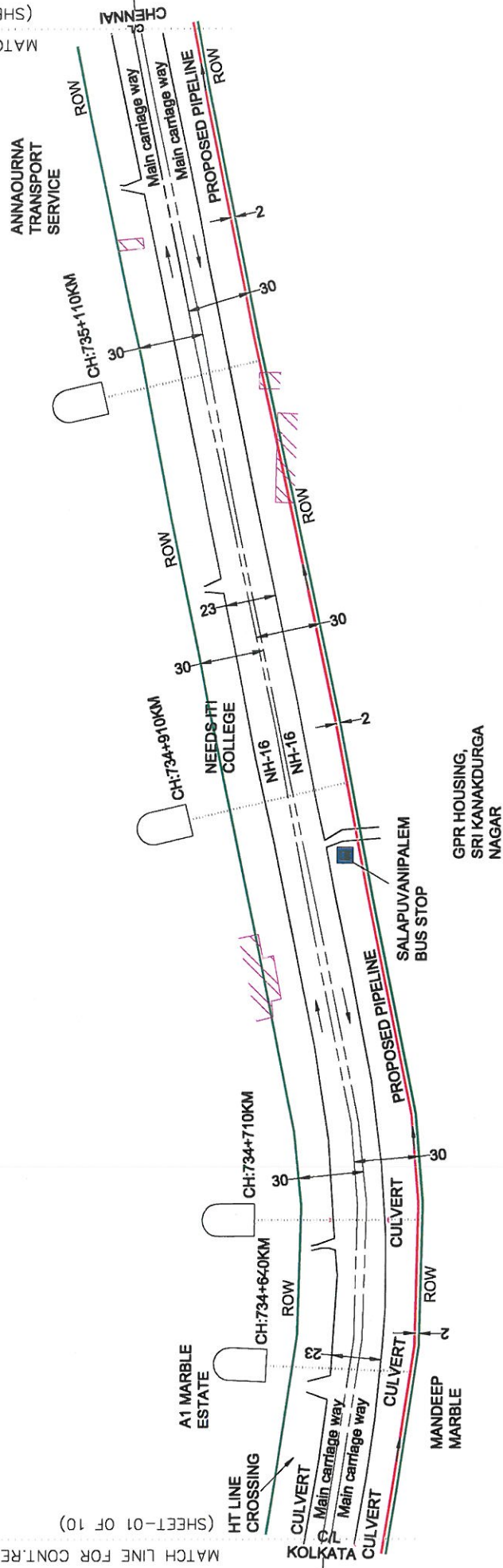
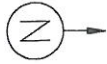
	been granted the right to lay Gas Pipeline/duct has also been granted as a right of way to the concessionaire under the concession agreement for up-gradation of [-----section from Km-----to km-----of NH no.----- on Build: operate and transfer basis] and therefore, the license shall honour the same."		
9	Who will supervise the work of laying of Gas pipe line		
	(a) On behalf of the Applicant	CM(PJ-CGD), Indian Oil Corporation Limited (pipelines division) City Gas Distribution Project, Visakhapatnam.	
	(b) On behalf of the MoRTH/NHAI	Project Director, NHAI, Visakhapatnam	
10	Who will ensure that the defects in road portion after laying of Gas pipe line are corrected and if not corrected then what action will be taken.		
	(a) On behalf of the applicant	CM(PJ-CGD), Indian Oil Corporation Limited (pipelines division) City Gas Distribution Project, Visakhapatnam.	
	(b) On behalf of NHAI	Project Director, NHAI, Visakhapatnam	
11	Who will pay the claims for damage done/disruption in working of concessionaire if asked by the concessionaire		
	On behalf of the applicant	Indian Oil Corporation Limited (Pipelines Division) City Gas Distribution Project, Visakhapatnam	
12	A certificate from PD that he will enter the proposed permission in the register of record of the permission in the prescribed proforma (copy enclosed)	Yes, Enclosed	
13	If any various approvals are accorded for laying of underground Gas pipe line then Photocopy of register of records of permission accorded (as maintained by PD) be enclosed.	Yes. PNGRB Authorization enclosed.	Annex-6


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

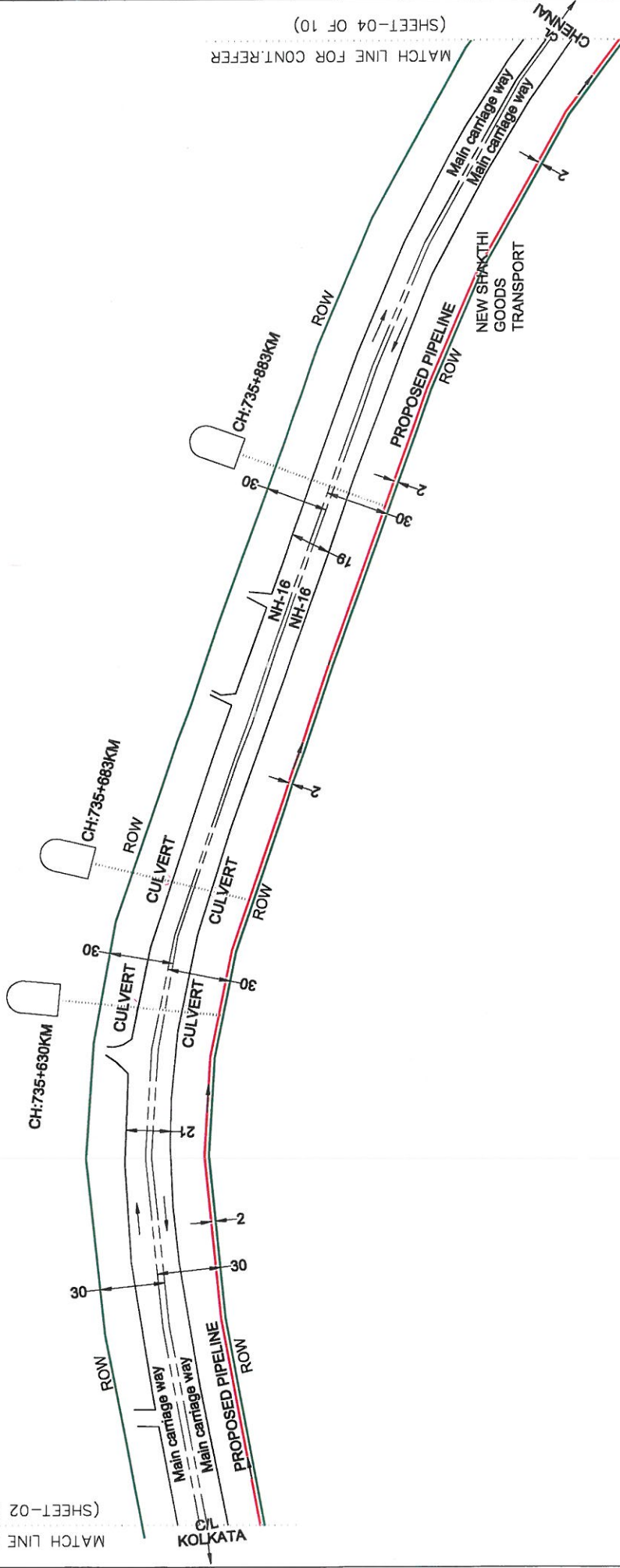




Handwritten signature: *Arden*



MATCH LINE FOR CONT.REFER
(SHEET-02 OF 10)

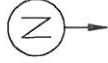


MATCH LINE FOR CONT.REFER
(SHEET-04 OF 10)

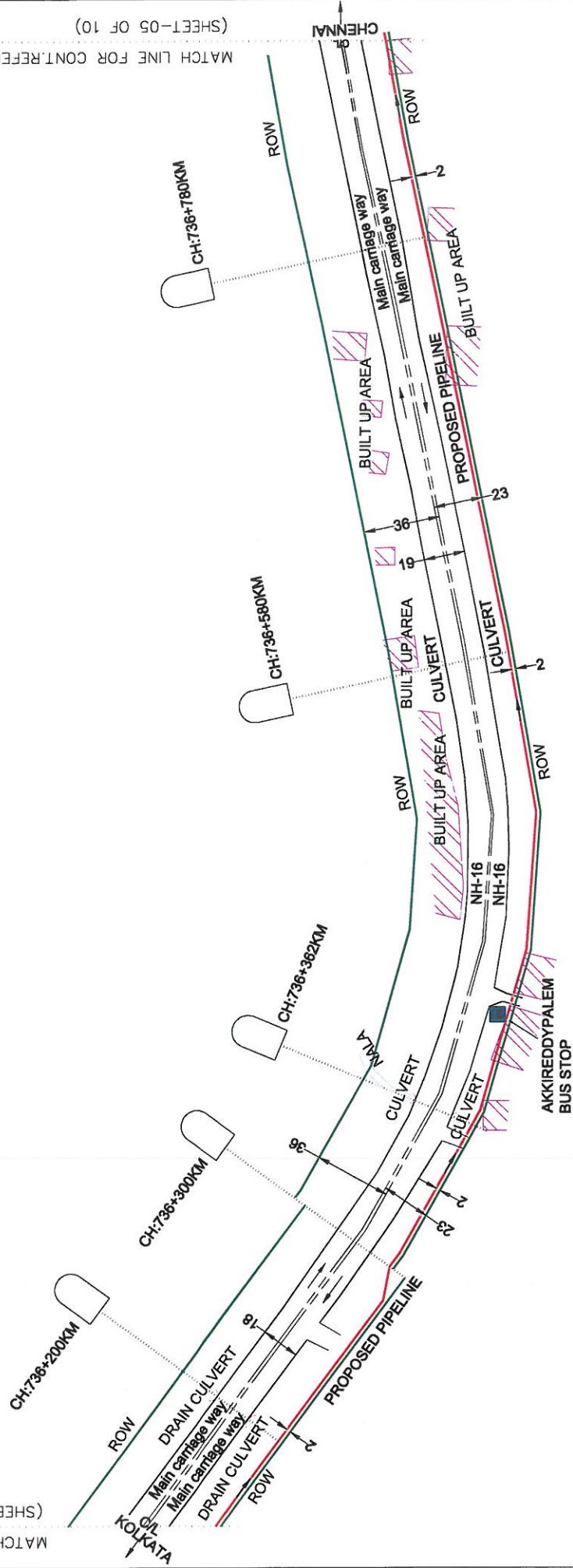


Handwritten signature

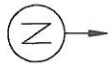
MATCH LINE FOR CONT.REFER
(SHEET-03 OF 10)



MATCH LINE FOR CONT.REFER
(SHEET-05 OF 10)

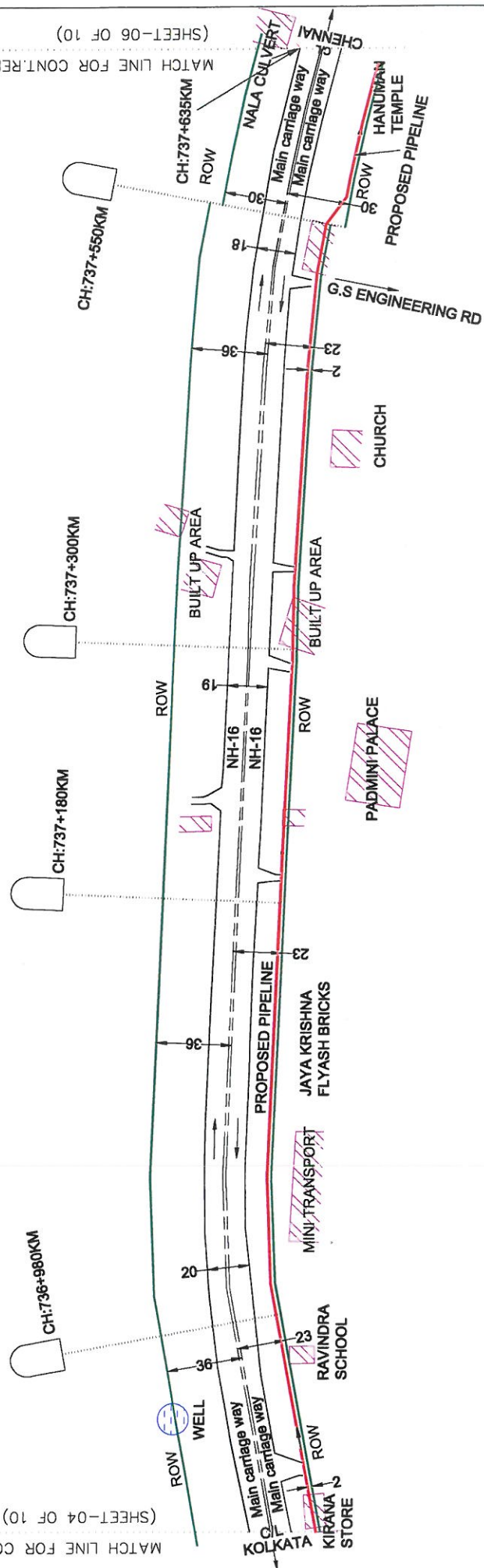


Handwritten signature



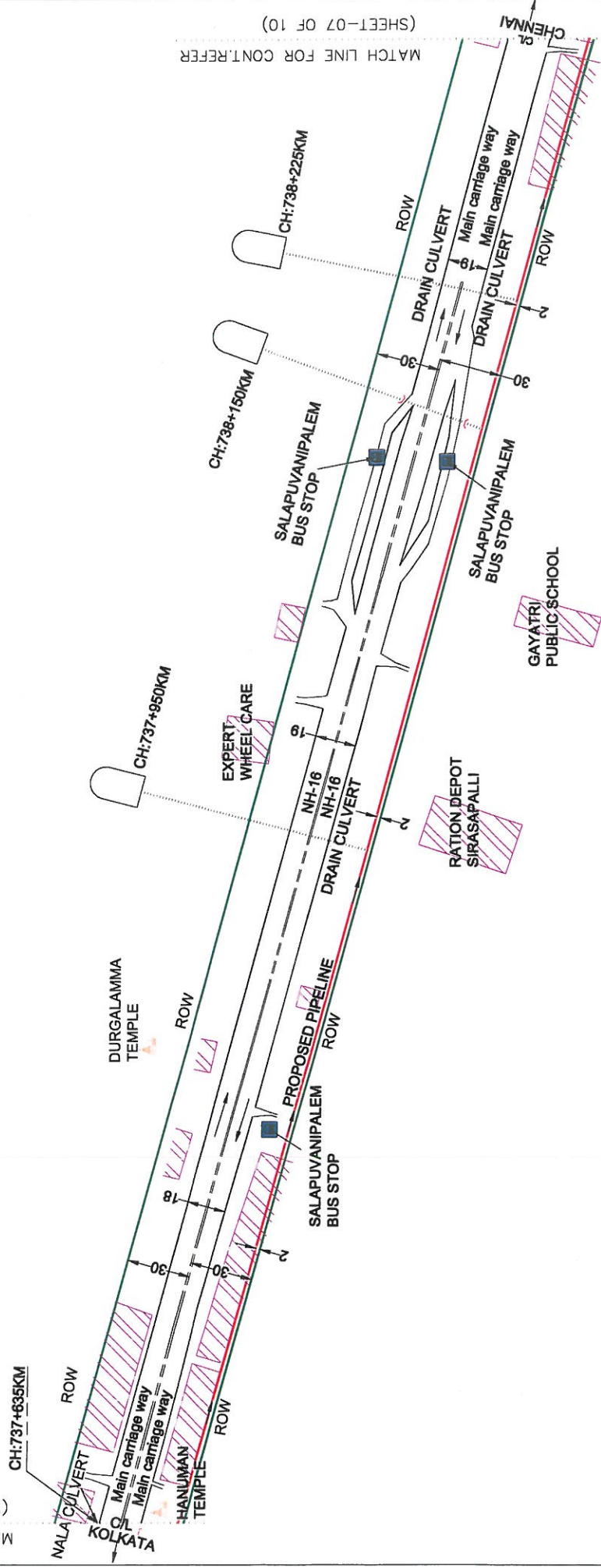
MATCH LINE FOR CONT.REFER
(SHEET-04 OF 10)

MATCH LINE FOR CONT.REFER
(SHEET-06 OF 10)

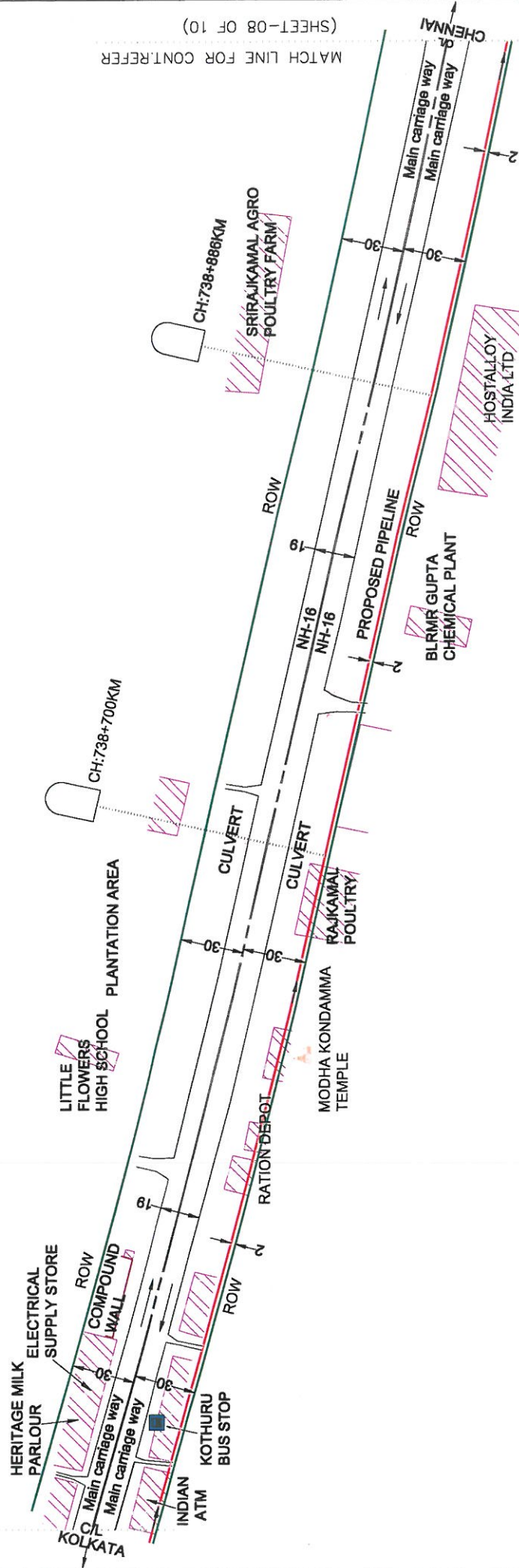
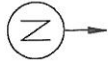


Handwritten signature

MATCH LINE FOR CONT. REFER (SHEET-05 OF 10)



MATCH LINE FOR CONT.REFER
(SHEET-06 OF 10)



MATCH LINE FOR CONT.REFER
(SHEET-08 OF 10)

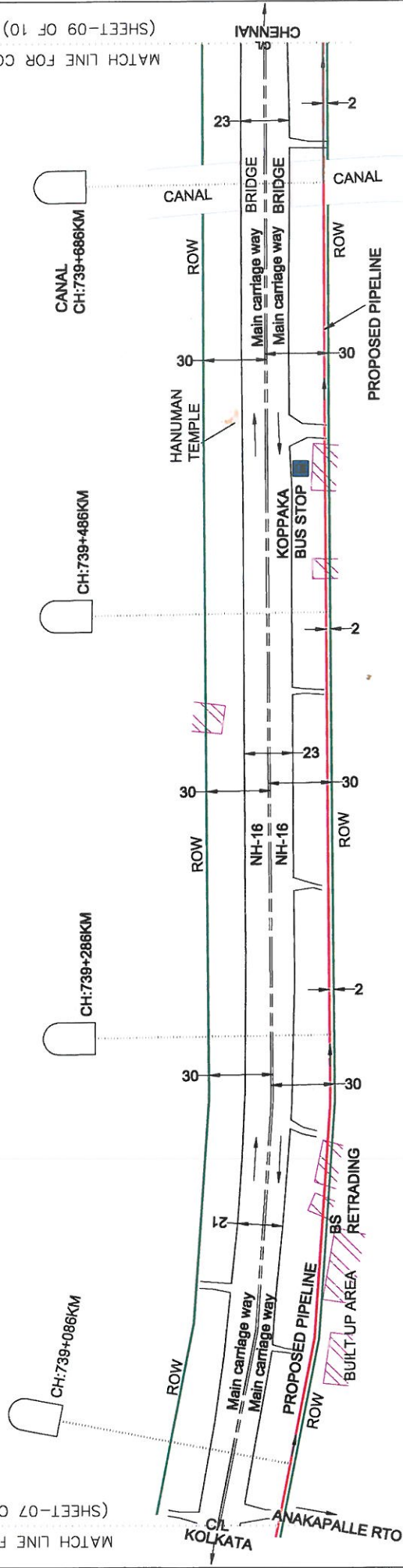
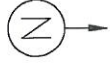


Handwritten signature in blue ink.

KONDA KOPPAKA

MATCH LINE FOR CONT.REFER
(SHEET-07 OF 10)

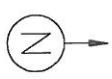
MATCH LINE FOR CONT.REFER
(SHEET-09 OF 10)



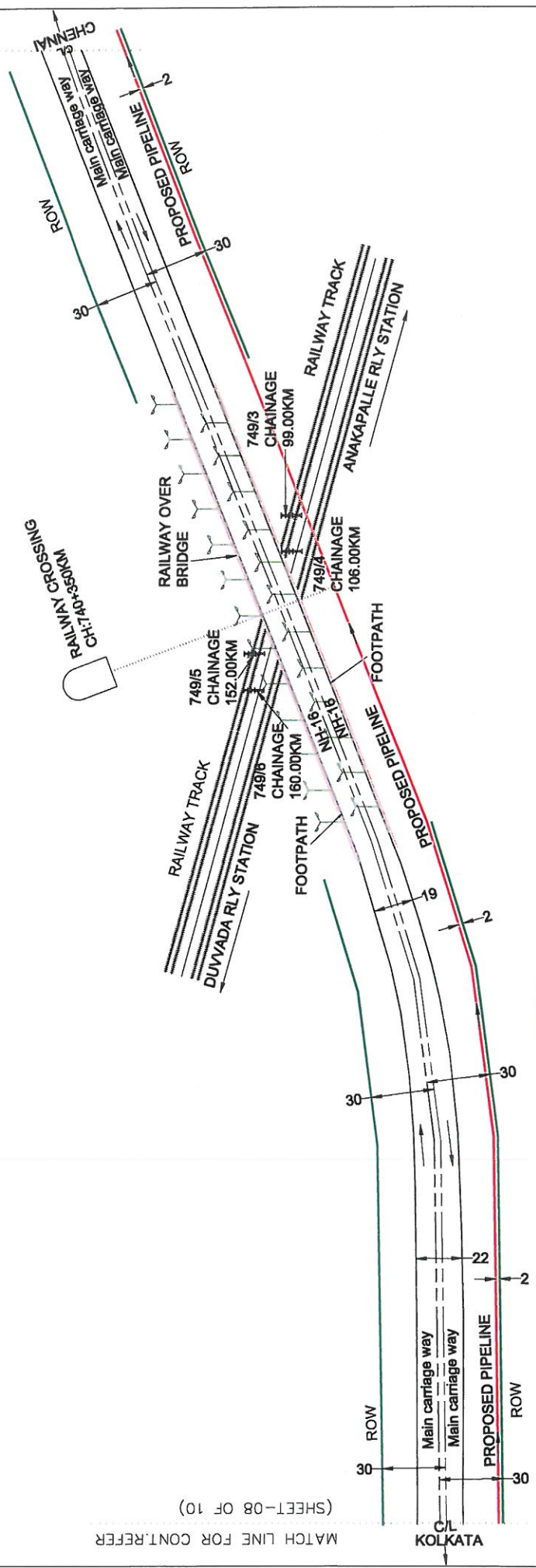


● GOPALPURAM

MATCH LINE FOR CONT. REFER
(SHEET-10 OF 10)



MATCH LINE FOR CONT. REFER
(SHEET-08 OF 10)





[Signature]