भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
(सडक परिवहन और राजमार्ग मंत्रालय, भारत सरकार)
National Highways Authority of India
(Ministry of Road Transport and Highways, Government of India)
श्रेत्रीय कार्यालय : 41-29-45A, सर्वे नं: 373/2A, कोदंडरामालयम्,चलसानी नगर,
रानीगारीतोटा, कृष्णालंका, विजयावाडा - 520 013, आन्ध्र प्रदेश
Regional Office: D.No. 41-29-45A, RS.No. : 373/2A, Kodandaramalayam, Chalasani Nagar,
Ranigari Thota, Krishna Lanka, Vijayawada - 520 013, Andhra Pradesh.
फोन / Tel : 0866-2483910, ई-मैल/e-mail: rovijayawada@nhai.org, nhairovja@gmail.com
वेब/ web: www.nhai.gov.in

Ref: NHAI/RO-VJA/IOCL/NH-16/713.300-718.345/2023-24/1741 **May 03, 2023**

INVITATION OF PUBLIC COMMENTS

Sub: RO - Vijayawada - Permission for laying of 12.5" Natural Gas Pipeline along with Optical Fibre Cable for city Gas Distribution of Vizag along NH-16 between Km 715.300 to Km 718.345 and also road crossings at Km 715.300, 717.850, 719.874, 716.444 & 723.355 totalling to a length of 3385 mts through HDD methodology in Visakhapatnam District, Andhra Pradesh - Public comments - Reg.

The Project Director, PIU - Visakhapatnam submitted a proposal of M/s. Indian Oil Corporation Limited for laying of 12.5" Natural Gas Pipeline along with Optical Fibre Cable for city Gas Distribution of Vizag along NH-16 between Km 715.300 to Km 718.345 and also road crossings at Km 715.300, 717.850, 719.874, 716.444 & 723.355 totalling to a length of 3385 mts in Visakhapatnam District of Andhra Pradesh.

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,
Regional Office, Dr. No.41-29-45A, R. S. No.373/2A
Near Kodandaramalayam, Chalasani Nagar,
Ranigarithota, Krishnalanka, Vijayawada - 520 013.
Email: rovijayawada@nhai.org

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

e:\ro correspondence\noc\vsp\ofc\act ofc optical\iocl 12.75 gas pipeline 715.300 - 718.345.docx

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
(सड़क परिवहन और राजमार्ग मंत्रालय भारत सरकार)
National Highways Authority of India
(Ministry of Road Transport and Highways, Government of India)
परियोजना कार्यलयन इकाई (जि वयू), भा.रा.रा.पा.एन्कलेव, कि.मी. 2/8 रा.रा.-16
हनुमन्तवाका, विशाखपट्टणम - 530 040, ए.पि., भारत
Project Implementation Unit (GQ), NHAI Enclave, KM 2/8 NH-16
Hanumanthavaka, Visakhapatnam - 530 040, A.P., India
फोन / Tel : 0891-2707600, 2714119
ई-मेइल/ E-mail : vis@nhai.org, nhaipiuvsp@gmail.com वेब : www.nhai.gov.in

सत्यमेव जयते

NHAI-PIU-VSP/IOCL 715.300 /2022-23/ 1691

Date: 06.04.2023

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण National Highway Authority of India
RECEIVED
10 APR 2023
2899
Regional Office, Vijayawada
क्षेत्रीय कार्यालय, विजयवाड़ा

PA/Madhav

To

The Regional officer,
National Highways Authority of India,
Regional Office, Gurunanak Nagar,
Teachers Colony,

Sub: **NHAI, PIU Visakhapatnam: NH permission for issue of NOC for laying of** 12.75" Natural Gas Pipeline along with Optical Fibre Cable for City Gas Distribution of Vizag along NH-16 between KM Stone 715/300 km to 718/345 Km) also crossing at Km 715.300, 717.850, 719.874, 716.444 & 723.355 Through HDD methodology in Visakhapatnam, Visakhapatnam District, Andhra Pradesh State. **-Reg.**

Ref:
1) M/S IOCL Letter No. PJ-CGD/VIZAG/008,dated: 28.09.2022. received on 29.09.2022.
2) NHAI/PIU-VSP/city limits /2022-23/787,Dt:03.10.2022.
3) 01041123/IE/02/AVA-PC/0112, Dt: 19.11.2022.
4) NHAI/PIU-VSP/IOCL/715.300/2022.23/1138, 28.12.2022.
5) NHAI/RO-VJA/11045/IOCL-715.300/2022-23/144, 06.01.2023.
6) To IOCL: E-mail, 09.01.2023.
7) M/S IOCL Letter No. PJ-CGD/VIZAG/008,dated: 27.03.2023.

Sir,

Vide ref.04 cited above, this office has submitted the proposal to RO Vijayawada for approval of Competent Authority. Vide ref.05 cited above, RO Vijayawada has made certain observations on the subject proposal for the Permission for laying of 12.75" Natural Gas Pipeline along with Optical Fibre Cable for City Gas Distribution of Vizag along NH-16 between KM Stone 715/300 km to 718/345 Km) also crossing at Km 715.300, 717.850, 719.874, 716.444 & 723.355 Through HDD methodology in visakhapatnam,Visakhapatnam District, Andhra Pradesh State, details are mentioned below:

The observations and compliances are tabulated below:

S.no	RO Observations	PIU Compliance
1.	Annexure-1, as per clause 1.11 of	Checklist along with the proposal is

	check list.	already enclosed. However, PIU copy is enclosed for your reference.
2.	As per Clause 3 of Checklist, the witness signatures are not signed.	Noted and enclosed the same.
3.	As per Clause 13 of Checklist, PD has to furnish the copy of the register of records of permission accorded, which is not enclosed.	Noted and enclosed the same.
4.	Company resolution for issuing Power of Attorney.	Power of Attorney already submitted along with the proposal. However, PIU copy is enclosed for your reference.
5.	Concessionaire consent for laying of the pipe line is not enclosed.	For BOT/HAM/OMT/TOT consent is required. The proposal is in "CITY LIMITS" of NH-16 which is under routine operation and maintenance contract. So consent for this proposal is not necessary.

In view of the above, the proposal submitted by M/s IOCL vide ref.07 cited above, duly complying the observations made by RO Vijayawada is herewith submitted for approval of Competent Authority.

Yours faithfully,

[P. Siva Sankar] 6/4/23
G.M (T) & Project Diretor

Encl: As above mentioned from sl.no.1-5.

इंडियन ऑयल कॉर्पोरेशन लिमिटेड
सिटी गैस वितरण परियोजना
चौथी मंजिल, एल.आई.सी. एनेक्सी भवन, थिक्कना (डायमंड पार्क) रोड,
आर.टी.सी. कॉम्पलेक्स 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

स्वच्छ भारत
एक कदम स्वच्छता की ओर

पाइपलाइन्स प्रभाग
Pipelines Division

27 MAR 2023

Ref.No: PJ-CGD/VIZAG/008 **Date: 27.03.2023**

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 along NH-16 between KM 715/300 Km to 718/345 Km and crossing at Km 715/300, Km 717/850, KM 719/874, Km 716/444 and Km 723/355 through HDD methodology.

Ref: NHAI/RO-VJA/11045/IOCL-715.300/2022-23/144, January 06, 2023.

Dear Sir,

Vide ref cited above, the documents which are missed with the proposal of Laying 12.75" pipeline along with Optical cable are enclosed here for further action.

1.1 Annexure-1, as per clause 1.11 of checklist.
1.2 As per Clause 3 of checklist, the witness signatures are signed.
1.3 Delegation of Powers by Director (Pipelines) to officers in Grade I to A.

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,

Dushyant Mani,
SM (CGD), Vizag.

NHAI PIU	VSP
[illegible]	
[illegible]	
[illegible]	
[illegible]	
ACCTS	
[illegible]	
[illegible]	

Gmail

NHAI-PIU VISAKHAPATNAM <nhaipiuvsp@gmail.com>

NHAI PIU Visakhapatnam- "laying of 12.75" diameter Natural Gas Pipeline along with Optical Fibre Cable (OFC) for city Gas distribution of Vizag at two locations: a) Along NH -16 between from 715/300 Km to 718/345 Km LHS and b) crossing at Km 715/300,Km-719/874 and Km 723/355 onNH-16" through HDD methodology Request in Visakhapatnam District- Observations – Reg.

1 message

NHAI-PIU VISAKHAPATNAM <nhaipiuvsp@gmail.com> 9 Jan 2023 at 11:28
To: anilkpm@indianoil.in

To
Dushyant Mani,SM-PJ(CGD),
Indian Oil Corporation Limited
City Gas Distribution Project
4th floor,LIC Annexe Building,
Thikkanna Road,Near RTC Complex,
Visakhapatnam-530004.

Sir,

This has reference to the Lr.No. PJ-CGD/VIZAG/008, dated 28.09.2022. vide which proposal for issuance of NOC for M/s. IOCL at NH -16 between 715/300 Km and 718/345 Km LHS, crossing at Km 715/300, Km 719/874 and Km 723/355 through HDD method in Visakhapatnam District, Andhra Pradesh, has been submitted to this office.

The proposal has been examined by RO Vijayawada, vide ref. NHAI/RO-VJA/11045/10CL-715.300/2022-23/1414 Dt.06.01.2023 and made an observation i.e, (i) Annexure-I, as per clause 1.11 of the checklist (ii) As per clause 3 of checklist, witness signature are not signed. (iii) Company resolution for issuing power of Attorney.

In view of the above, it is requested to submit a proposal duly complying with the above observations.

--
Regards,

National Highways Authority of India
PIU- Visakhapatnam,
NHAI Enclave, NH16, Near VIMS Hospital,
Hanumanthavaka Junction, Visakhapatnam,
Andhra Pradesh, 530040.
Ph No: 089127 07600

IOCL 715 RO Observations.pdf
97K

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)
National Highways Authority of India
(Ministry of Road Transport and Highways, Government of India)
श्रेत्रीय कार्यालय : 41-29-45A, सर्वे नं: 373/2A, कोदंडरामालयम्,चलसानी नगर,
रानीगारीतोटा, कृष्णालंका, विजयवाडा - 520 013, आन्ध्र प्रदेश
Regional Office : D.No. 41-29-45A, RS No : 373/2A, Kodandaramalayam, Chalasani Nagar,
Ranigari Thota, Krishna Lanka, Vijayawada - 520 013, Andhra Pradesh.
फोन / Tel : 0866-2483910, ई-मैल/e-mail: rovijayawada@nhai.org, nhairovja@gmail.com
वेब/ web: www.nhai.gov.in

Ref: NHAI/RO-VJA/11045/ IOCL-715.300/2022-23/ 1144 January 06, 2023.

To

The Project Director,
National Highways Authority of India,
Project Implementation Unit,
Visakhapatnam.

Sub: RO, NHAI, Vijayawada - **Permission for laying of 12.5" Natural Gas Pipeline along with OFC for city Gas Diusribution of Vizag along NH-16 between Km 715.300 to Km 718.345 and road crossings at Km 715.300, 717.850, 719.874, 716.444 & 723.355 through HDD methodology in Visakhapatnam district - Request for issuing NOC** - Reg.

Ref.
1. M/s. IOCL letter No. PJ-CGD/VIZAG/008 Dt. 28.09.2022.
2. PD letter No. NHAI/PIU-VSP/city limits/2022-3/787 dated 03.10.2022.
3. IE letter No. 01041123/IE/02/AVA-PC/0112 dated 19.11.2022
4. PD letter No. NHAI/PIU-VSP/IOCL/715.300/2022-3/1138 dated 28.12.2022.

Sir,

Please refer to your letter cited under reference 4th above, requesting permission for the proposal submitted by M/s. Indian Oil Corporation Limited for laying of 12.5" diameter Natural Gas Pipeline along with Optical Fibre Cable along NH-16 from Km 715/300 to Km 718/345 LHS and crossing at Km 715/300, 717.850, 719.874, 716.444 and Km 723.355 (Kolkata - Chennai Section) through HDD method total 3285m in Visakhapatnam district in the State of Andhra Pradesh.

2. The proposal has been examined and it is observed that the following documents are not enclosed with the proposal due to which proposal cannot be examined:

2.1 Annexure-I, as per clause 1.11 of checklist. ✓

2.2 As per Clause 3 of Checklist, the witness signatures are not signed. ✓

2.3 As per Clause 13 of Checklist, PD has to furnish the copy of the register of records of permission accorded, which is not enclosed.

2.4 Company resolution for issuing Power of Attorney. ✓

2.5 Concessionaire consent for the proposal. ✗

3. In view of the above, it is requested to submit the above documents for taking further necessary action.

Yours faithfully,

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

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2.1
Encl-1

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
9. Memorandum of understanding between IOCL and NHAI dated: 08.06.2022

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, 4th 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	SheelaNagar to KakaniNagar (715/300 KM to 718/345 KM), crossings at KM715/300, KM719/874, KM716/444, KM717/855 and KM723/345	
1.5	(Chainage in km)	KM715/300 to KM718/345	
1.6	Length in Kilometres	3385 meters	
1.7	Width of available ROW	60 to 80 Mts.	
	(a) Left side from centre line towards increasing chainage/km direction	30-50Mts	
	(b) Right side from centre line towards increasing chainage/km direction	30Mts	
1.8	Proposal to lay underground gas pipeline for supply of natural gas		
	(a) Left side from centre line towards increasing chainage/km direction	KM 715/300 to KM 716/444	
	(i) Right side from centre line towards increasing chainage/km	KM 716/444 to KM 718/345	

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

दुष्यंत मणि / DUSHYANT MANI
वरिष्ठ परियोजना प्रबंधक (सी जी डी) / Senior Project Manager (CGD)
इंडियन ऑयल कॉर्पोरेशन लिमिटेड
Indian Oil Corporation Limited
सिटी गैस डिस्ट्रीब्यूशन प्रोजेक्ट
City Gas Distribution Project
विशाग / Vizag

	direction		
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.	Annex-1 & 2
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 gas pipeline is after the service road or between the service road and main carriageway	N.A	
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	Yes, HDD Method. HDD is latest trenchless method without casing. It is safest and has no impact on surroundings. This method is being implemented for crossings of NH/NHAI by pipelines all over the country. It has long life compared to cased crossing and is more reliable.	
	(a) Whether existing drainage structures are allowed to carry petroleum pipeline	No	
	(b) It is on a line normal to NH	Yes	
	(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.	Complied	
	(d) The casing pipe(or conduit pipe	NA	

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

दुष्यंत मान / DUSHYANT MAN
वरिष्ठ परियोजना प्रबंधक (सी जी डी) / Senior Project Manager (CGD)
इंडियन ऑयल कॉर्पोरेशन लिमिटेड
Indian Oil Corporation Limited
सिटी गैस डिस्ट्रीब्यूशन प्रोजेक्ट
City Gas Distribution Project
वैजाग / Vizag

	in the case of electric cable) carrying the gas pipeline shall be of steel, cast iron, or reinforced cement concrete and have adequate strength and be large enough to permit ready withdrawal of the carrier pipe/cable. Mention type of casing.		
	(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.	Pipeline crossing will be done by HDD Method (which is trenchless method without the need for casing). It is safest and has no impact on surroundings. This method is being implemented for crossings of NH/NHAI by pipelines all over the country. It has long life compared to cased crossing and is more reliable.	Annex-5
	(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	Yes, Upon trenching cross section drawing attached.	Annex-3

Project Director
National Highways Authority of India
VISAKHAPATNAM

दुष्यंत मणि / DUSHYANT MANI
वरिष्ठ परियोजना प्रबंधक (सी जी डी) / Senior Project Manager (CGD)
इंडियन ऑयल कॉर्पोरेशन लिमिटेड
Indian Oil Corporation Limited
सिटी गैस डिस्ट्रीब्यूशन प्रोजेक्ट
City Gas Distribution Project
वैजाग / Vizag

	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 situated in double cutting. Nor shall be laid over the existing culverts and bridges. 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.		
2.2	Cross section showing the size of pit and location of pipeline for HDD method	Yes, Enclosed	Annex-4
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-2
2.4	Methodology for lying of the natural gas pipeline.	Yes, Enclosed.	Annex-6
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	

दुष्यंत मणि / DUSHYANT MANI
वरिष्ठ परियोजना प्रबंधक (सी जी डी) / Senior Project Manager (CGD)
इंडियन ऑयल कॉर्पोरेशन लिमिटेड
Indian Oil Corporation Limited
सिटी गैस डिस्ट्रीब्यूशन प्रोजेक्ट
City Gas Distribution Project
वैजाग / Vizag

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

	(d) The side fill shall consist of granular material laid in15cm layers each consolidated by mechanical tempering and controlled addition of moisture to95% of the proctor's density. Overfill shall be compacted to the same density as the material that has been removed. Consolidation by saturation or ponding will not be permitted	Yes	
	(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 natural gas pipeline.	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	NA (As per MOU between IOCL and NHAI dated: 08.06.2022)	Annex-7
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 BG will be obtained from M/s. IOCL after approval accorded from the NHAI	
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	Yes, Enclosed	

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	MoRTH/NHAI.		
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 movement during laying of gas pipeline without hampering the traffic	Yes, Enclosed	
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 gas pipeline 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 gas pipeline 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	Yes, Enclosed	

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	reasonable time (not exceeding 60 days) of the intimation given.		
5.12	Certificate from the applicant in the following format (i) Laying of Gas pipe line will not have any deleterious effects on any of the bridge components and roadway safety for traffic. (ii) "We do undertake that I/we will relocate service road/approach road/utilities at my/our own cost notwithstanding the permission granted within such time as will be stipulated by NHAI" for future six-lanning or any other development."	Enclosed	
6	Who will sign the agreement on behalf of Gas pipe line agency.	SM (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	N.A	

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	inserted in the agreement. "The permitted Highway on which License has 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	SM (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	SM (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-8 & 9

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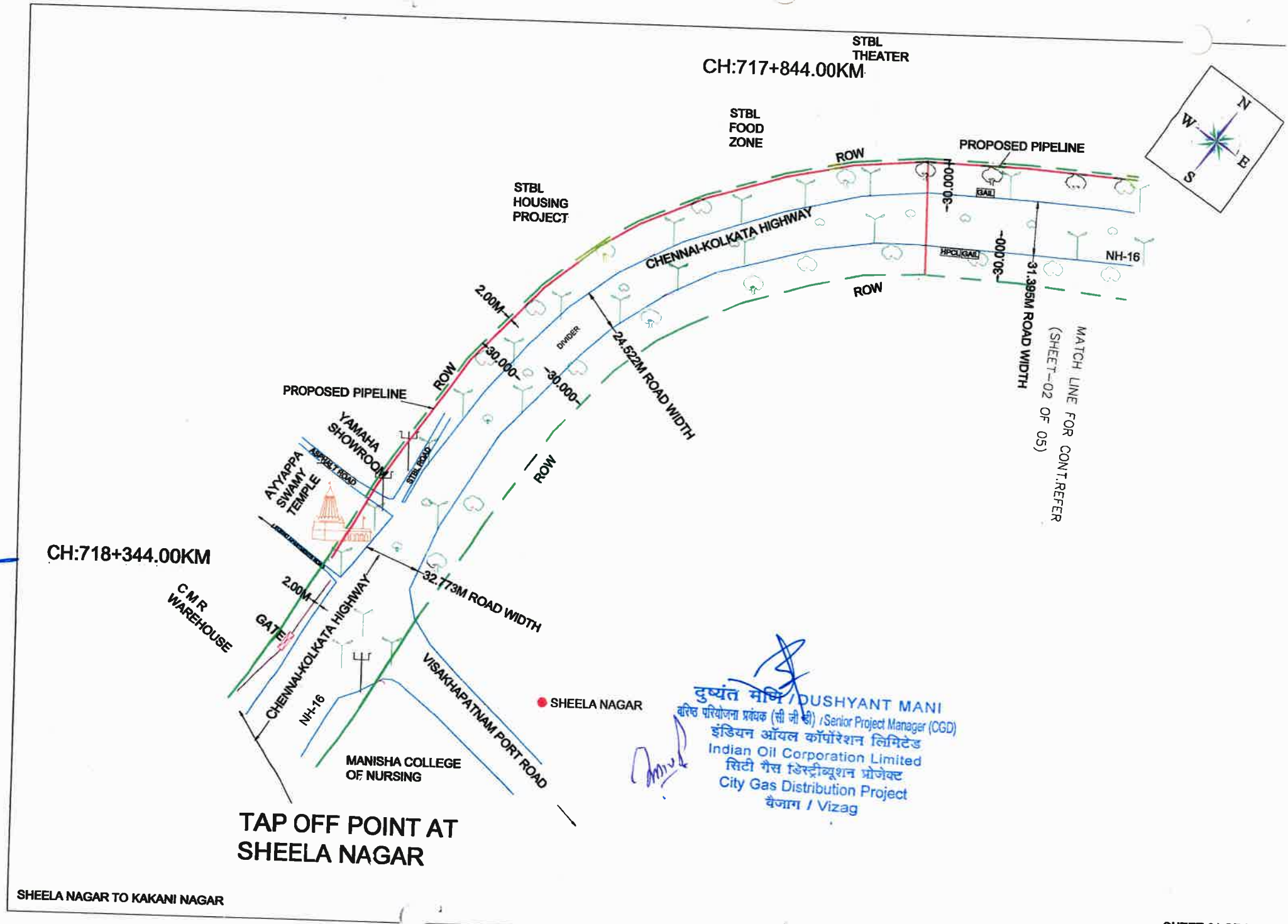

SHEELA NAGAR TO KAKANI NAGAR

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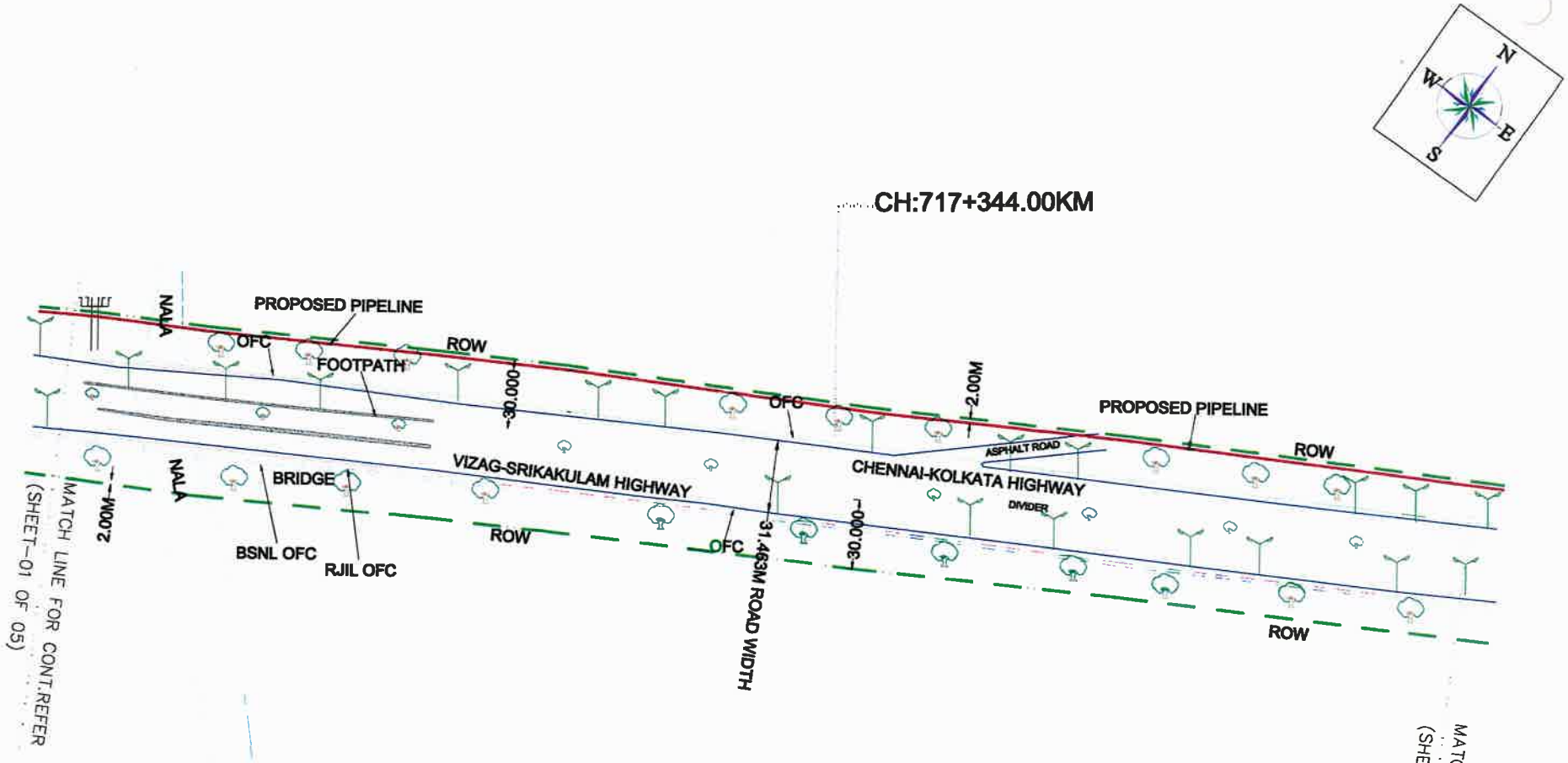

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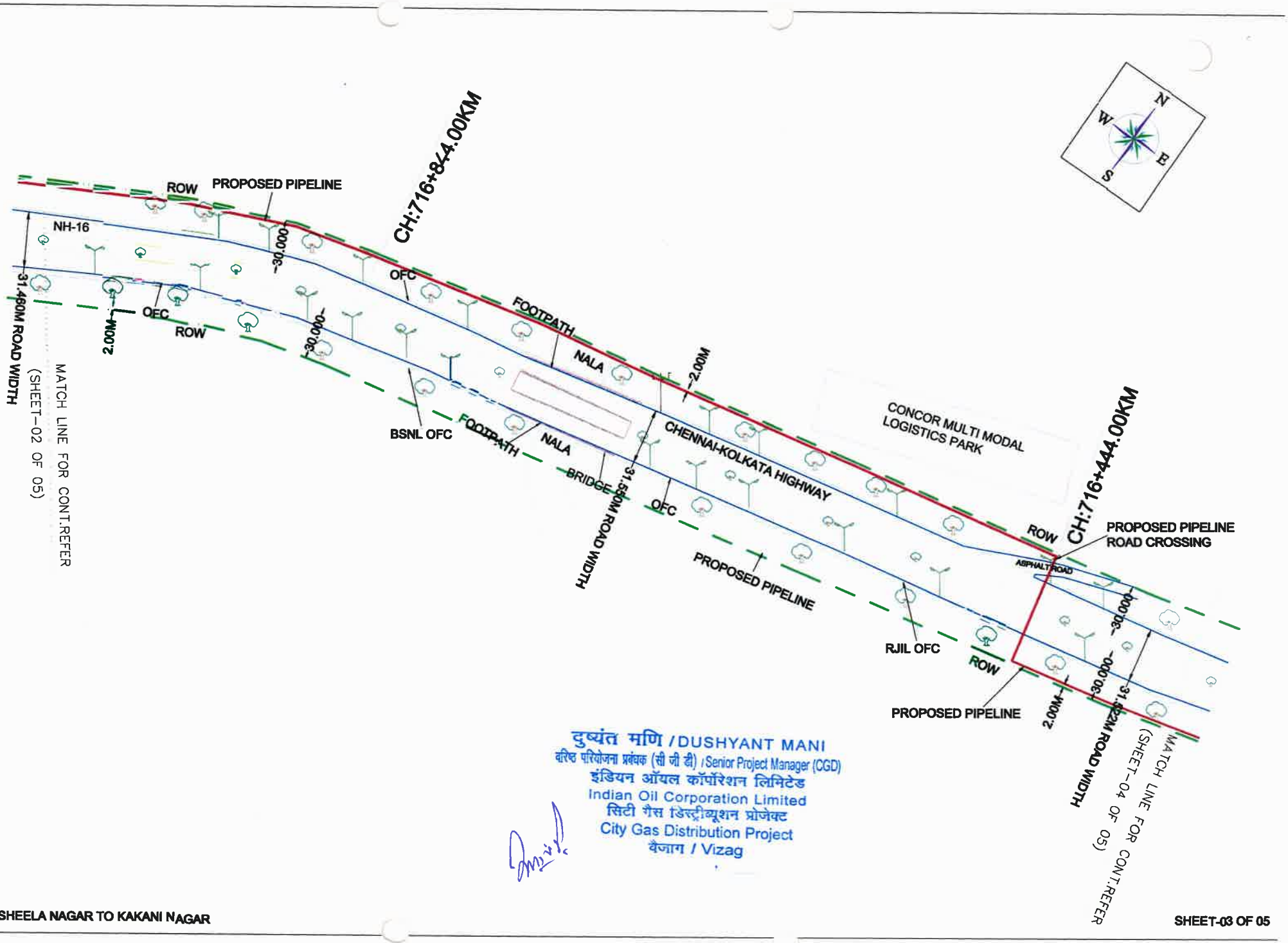
SHEELA NAGAR TO KAKANI NAGAR

SHEET-02 OF 05



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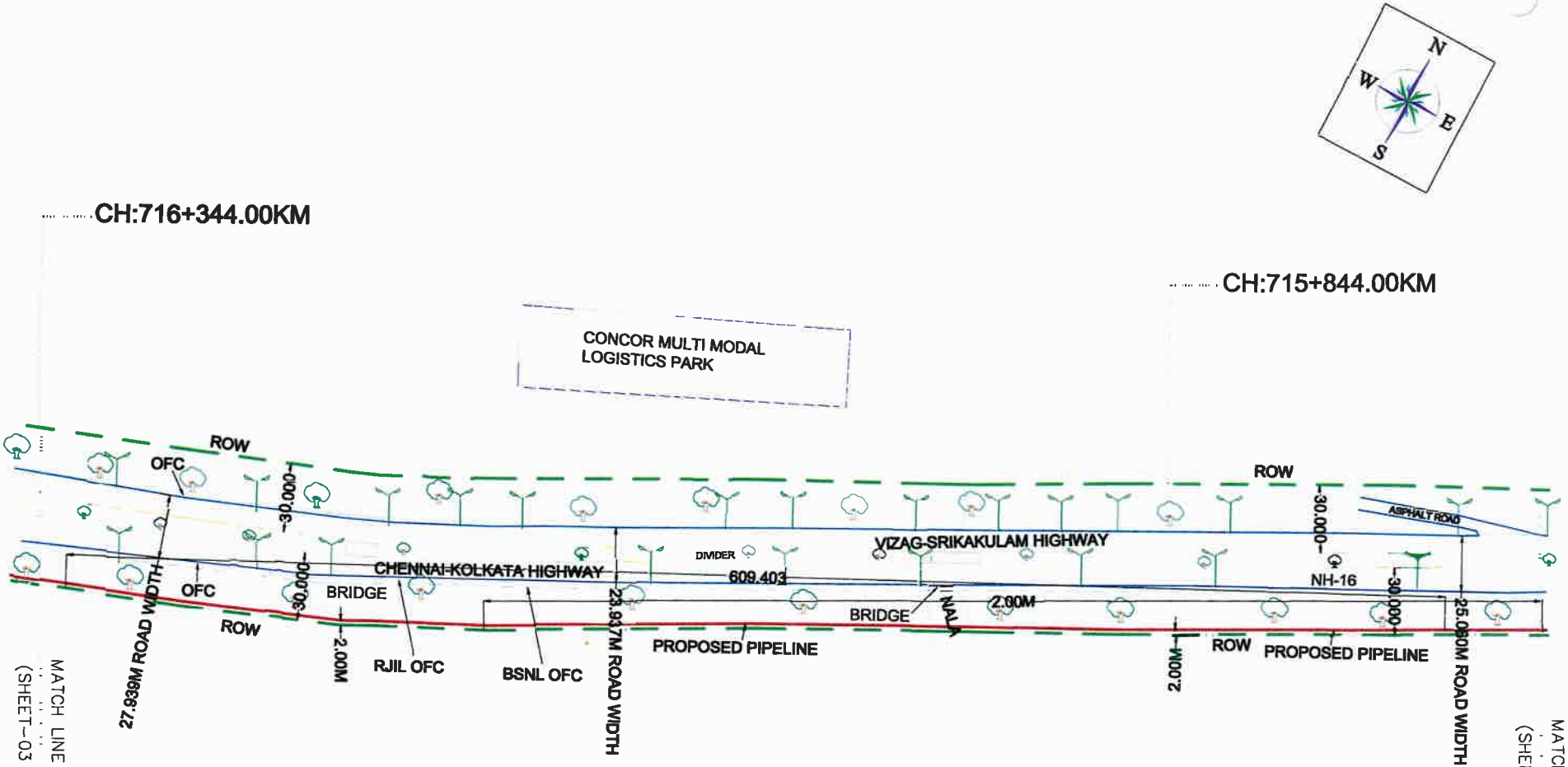
SHEELA NAGAR TO KAKANI NAGAR

SHEET-03 OF 05



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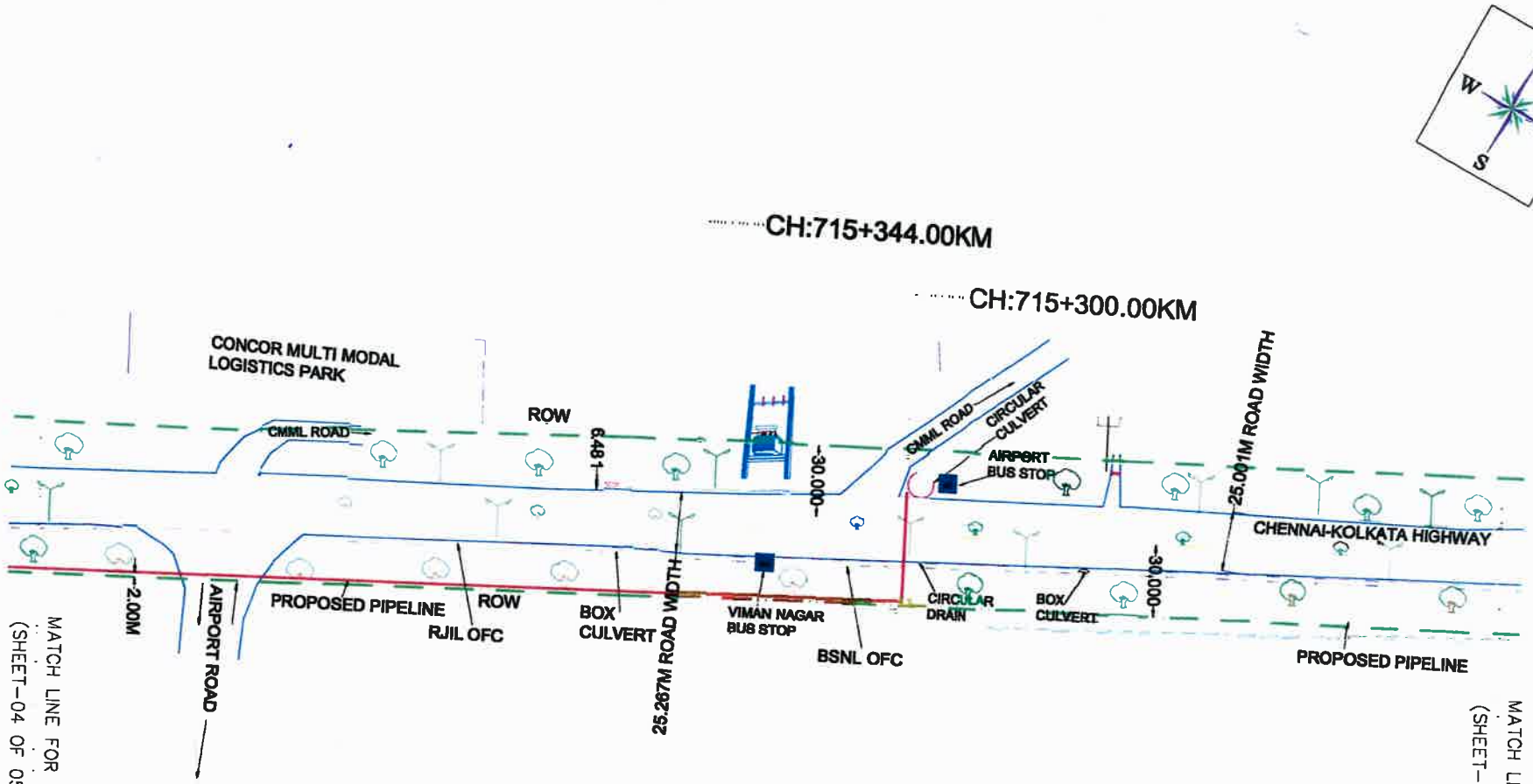
SHEELA NAGAR TO KAKANI NAGAR

SHEET-04 OF 05



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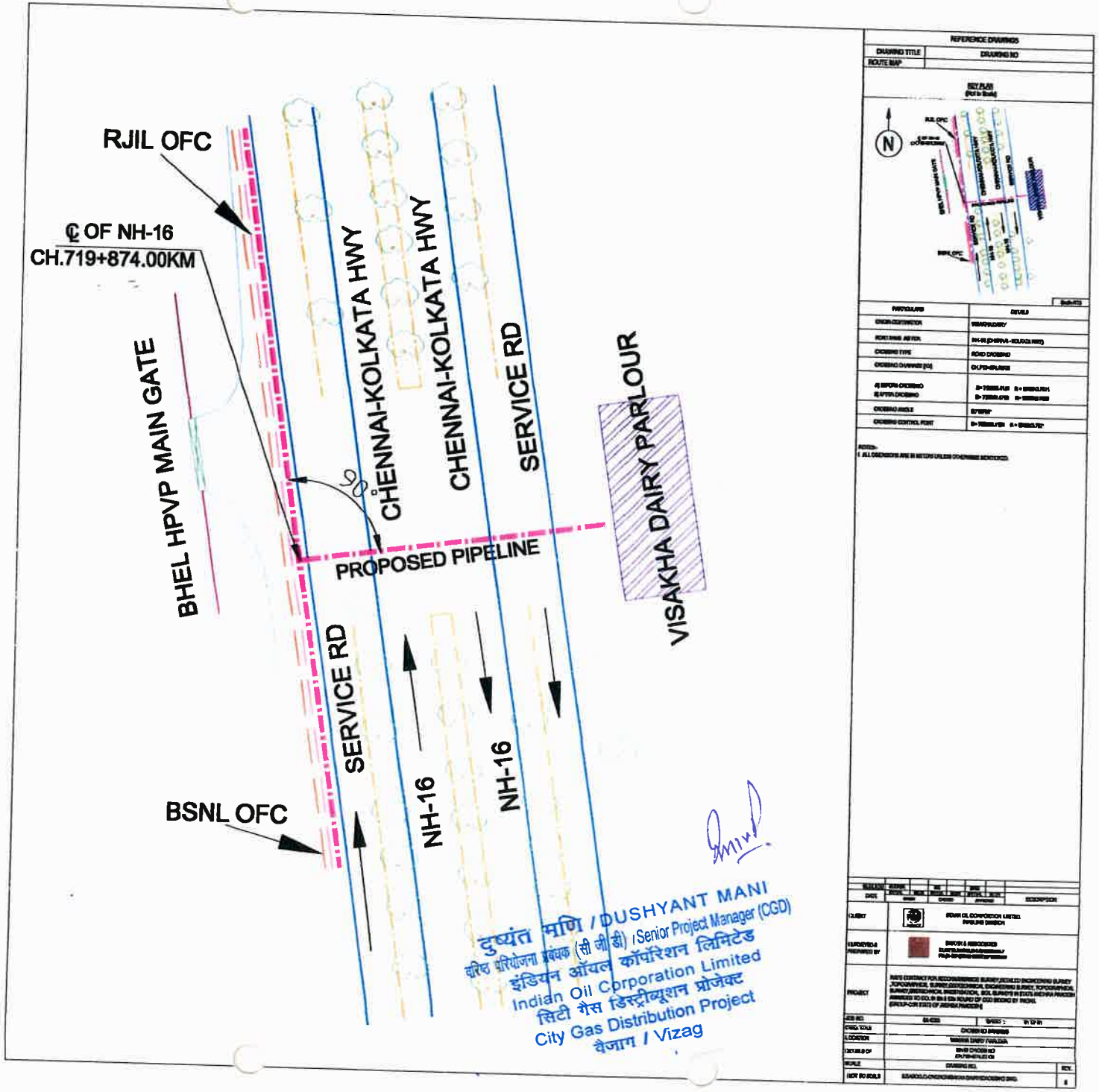

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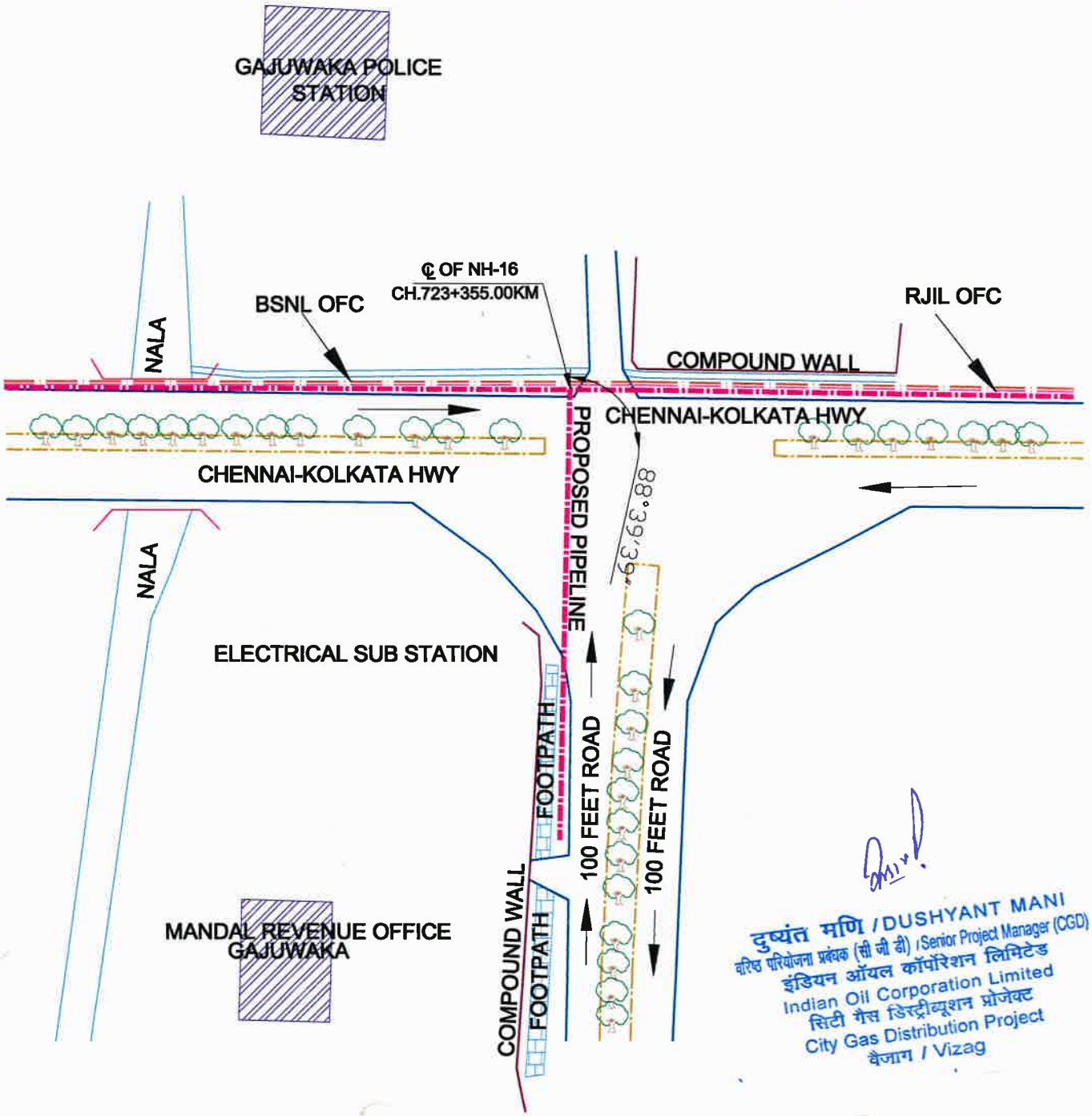
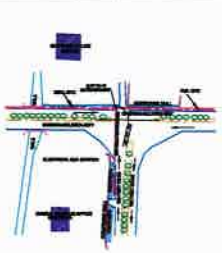


REFERENCE DRAWINGS

DRAWING TITLE	DRAWING NO
ROUTE MAP	

KEY PLAN (Not to Scale)



PARAMETERS	DETAILS
CROSS OBSTRUCTION	GAJUWAKA, PR TORNADO SIDEFEET RD
ROAD NAME AS PER	NH-16 (CHENNAI - KOLKATA HWY)
CROSSING TYPE	ROAD CROSSING
CROSSING CHAINAGE (km)	CH.723+355.00M
A) BEFORE CROSSING B) AFTER CROSSING	B = 723.00, A=0 B = 1000.00, A=0 B = 1000.00, A=0 B = 1000.00, A=0
CROSSING ANGLE	90°±30°
CROSSING CONTROL POINT	B = 723.00, A=0 B = 1000.00, A=0

NOTES:-
1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE MENTIONED.

REV. NO.	DATE	DRAWN	CHECKED	APPROVED	DESCRIPTION

CLIENT: INDIAN OIL CORPORATION LIMITED, VISAKHAPATNAM

SURVEYED & PREPARED BY: SERVE & ASSOCIATES

PROJECT: WAYS CONTRACT FOR RECONNAISSANCE SURVEY, DETAILED (SUPERVISED SURVEY) TOPOGRAPHICAL, GEOTECHNICAL, GEOPHYSICAL (GPR), VOC CONTROL, SURVEY, PROTECTION, INVESTIGATION, SOIL SURVEY IN STATE AND NON-NAVIGABLE WATERS TO IOCL IN NH & SH ROUTES OF CGD SCHEME BY PNGRB. (GROUP-C/R ROTES OF ANDHRA PRADESH)

JOB NO.	6A-1200
SHEET :	01 OF 01
DWG. TITLE	CROSSING DRAWING
LOCATION	GAJUWAKA PR TORNADO SIDEFT RD.
DETAILS OF	NH-16 CROSSING CH.723+355.00M
SCALE	NOT TO SCALE
DRAWING NO.	6A-1200-CG-CROSSING-GAJUWAKA-PR TORNADO SIDEFT RD-CROSSING DWG.
REV.	0

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