

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन एवं राजमार्ग मंत्रालय, भारत सरकार)

National Highway Authority of India

(Ministry of Road Transport and Highway Govt. of India) परियोजना कार्यान्वयन इकाई—छपरा



Project Implementation Unit - Chhapra

मकान—श्री मति गायत्री देवी, ए1, प्रभुनाथ नगर, पोस्ट—तारी, थाना—मुफसिल, जिला—सारण (छपरा), बिहार, पिन—841301 H/o- Smt. Gayatri Devi, A1, Prabhunath Nagar, PO-Tari, PS-Mufsil, District-Saran (Chhapra), Bihar, Pin - 841301

NO.: NHAI/PIU/Chhapra/NH-102/IOCL/PP/2022/ 12-94

Date: 02.03.2022

Invitation of Public Comments

Sub: Two Laning with Paved shoulder of Chhapra-Rewaghat-Muzaffarpur section of NH-102 from Km 1+300 to Km 74+200 (Existing Chainage) and Km 1+300 to Km 74+359 (Design Chainage), (Total Design length 73.079 Km) in the state of Bihar under NHDP- IV on EPC mode: - (A) Permission of laying steel and MDPE gas pipeline along with OFC for city Gas Distribution project along and across NH-102. (1) Along/across NH-102 from Nehru chowk, Chhapra (proposed chainage 01+300km) to Near Sarika Fuels-Indian Oil pump Garkha, Saran (Proposed chainage 15+735 km) (B) Installation of isolation value chamber along road.

The General Manager (Construction), M/s Indian Oil Corporation Limited has submitted the aforesaid proposal seeking (A) Permission of laying steel and MDPE gas pipeline along with OFC for city Gas Distribution project along and across NH-102. (1) Along/across NH-102 from Nehru chowk, Chhapra (proposed chainage 01+300km) to Near Sarika Fuels-Indian Oil pump Garkha, Saran (Proposed chainage 15+735 km) (B) Installation of isolation value chamber along road.

2. From the submitted proposal, it is seen that the carrier pipe will be of 4.625" OD and crossing pipeline will be of 4.625" (Carbon Steel confirming to API 5LX-52/65 Grade specifications). The pipeline laying along the road shall be carried out in Utility corridor or at near extreme edge with minimum of 2m from the edge of ROU. Method of crossing will be HDD (Horizontal Direction Drilling). Depth of the pipeline below the centre line of NH will be 3.0 m minimum in road crossing. Parallel pipeline shall be laid at depth of 1.2 m along the road side. Once the pipeline is laid underground, the road will be restored to its original conditions. Cost of crossing/laying along road shall be born by IOCL.

3. As per the guidelines issued by the Ministry vide OM. No.RW/NH-33044/29/2015/S&R(R) dated 22.11.2016, the application shall be put out in the public domain for 30 days for seeking claims and objections (on grounds of public

inconvenience, safety and general public interest).

In view of the above, comments of the public on the above application is invited to the below mentioned address, which should reach by this office within 30 days from the date of publication beyond which no comments shall be entertained.

Project Director

National Highways Authority of India, Project Implementation unit-Chhapra, H/o-Smt. Gayatri Devi, Plot No.A1, Parbhunath Nagar, P.O-Tari, P.S-Muffasil, District-Saran -841301 Email:nhaichhapra@gmail.com

のは別ン (Manoj Kumar)

(Mario) Karriar)

Project Director

Encl: As above.

Copy to:

(i) Web Admin, NHAI, HQ- with a request for uploading on the NHAI website.

- (ii) The Technical Director, NIC, Transport Bhawan, New Delhi- with a request for uploading on the Ministry's website.
- (iii) RO, NHAI, Patna.
- (iv) General Manager (Construction), M/s Indian Oil Corporation Limited.



इंडियन ऑयल कॉर्पोरेशन लिमिटेड

पाइपलाइन्स प्रभाग, ई.आर.पी.एल. सहरी गैस वितरण परियोजना कार्यालय- सारण. वीसरी मंजिल , जे पी विल्डिंग, आर डी एस स्कूल के पास, छपरा - 841301 दूरभाष: कार्यालय - ०६१५२ २९६०७९

Indian Oil Corporation Limited

Pipelines Division, ERPL City Gas Distribution Project Office - Saran, 3rd Floor, J P Building, Near R D S School, Chhapra - 841301

Phone: Off. - 06152 296079





Ref: ERPL/CGD-SARAN/PROJ/2.1

To, **Project Director** National Highways Authority of India (Ministry of Road Transport and Highways, Govt. of India) Project Implementation Unit - Chhapra, 841301 (Bihar)

Date: 17th Jan 2022

Sub - A) Permission of laying steel and MDPE gas pipeline along with OFC for City Gas Distribution Project along and across existing NH 102

- Along/across NH 102 From Nehru Chowk, Chapra (Proposed Chainage 01 + 300 KM) To Near Sarika Fuels -Indian oil Petrol pump Garkha, Saran (Proposed Chainage 15 + 735 KM)
- B) Installation of isolation valve chamber along road

Sir,

Indian Oil Corporation Limited (IOCL), a Maharatna PSU, has been awarded authorization for the Geographical area for development of Muzaffarpur, Vaishali, Saran and Samastipur districts in the 10th round of bidding for City Gas Distribution Project by Petroleum & Natural Gas Regulatory Board (PNGRB). This prestigious project was inaugurated pan India by Shri Dharmendra Pradan, Honorable Minister of Petroleum and natural gas and Minister of steel on 26.08.2019. As a part of this project it is envisaged to provide approx. 10,00,000 natural gas connections to households and open approx. 222 CNG outlets apart from building the infrastructure required to achieve the above targets in afore said district.

As a part of the project we need to lay the steel and MDPE pipeline along the NH 102 and also crossing of NH will be carried out at different location (As mentioned in the drawing). The pipeline laying along the NH shall be carried out in the utility corridor or at near extreme edge through open cut method and crossing shall be done by trenchless technology (HDD method) so as to make it safe and smooth execution. The proposed gas pipeline shall be laid as per the standards/procedures recommended by Petroleum & Natural Gas Regulatory Board (PNGRB) without causing any traffic disruption & inconvenience to public at large.

Details of pipeline laying and crossing at various locations are as follows:

Sr. No	Crossing/ Along NH	Proposed Chainage	Pipe Dia (Inch)	Chainage Description	Location
1	Along NH 102	01 + 300 KM To 15 + 735 KM	4.625"	From Nehru Chowk, Chapra To Garkha (Near Sarika Fuels –Indian oil Petrol pump), Saran	Saran, Bihar
2	Pipeline Crossing across NH 102	03+130 KM, 03+610 KM, 06+760 KM, 10+850 KM, 12+000 KM, 13+040 KM	4.625"	As mentioned in drawing	Saran, Bihar

ANISH KLaunga कार्यात्वरः ची-१, अली यवर चंग मार्ग,बांद्रा (पूर्व), मुंबई-400 051. Regd Office: A-1 Udyog Marg Sector1, Noida 201301
SM (PJ-CGD), ERPL-SARAN
CIN: L23201MM1959C0011299 मुख्य कार्यालय: ए-1, उद्योग मार्ग सेक्टर 1,नौएडा 201301. Head office: A-1 Udyog Marg Sector1, Noida 201301

Thus, IOCL propose to cross and lay along the aforesaid road as per the following norms: -

- 1) The carrier Pipe will be of 4.625" OD and crossing pipeline will be of 4.625" (Carbon Steel confirming to API 5 L X-52/65 Grade specifications).
- 2) The pipeline laying along the road shall be carried out in Utility corridor or at near extreme edge with minimum of 2m from the edge of ROU.
- 3) Method of crossing will be HDD (Horizontal Directional Drilling).
- 4) Depth of the pipeline below the centre line of NH will be 3.0 m minimum in road crossing.
- 5) Parallel pipeline shall be laid at depth of 1.2 m along the road side.
- 6) Isolation valve shall be installed at interval of 3KM.
- 7) Once the pipeline is laid underground, the Road will be restored to its original conditions.
- 8) During the execution of work, proper safety measures will be ensured.
- All works will be carried out as per the approved drawings.
- 10) Cost of crossing/laying along road shall be borne by IOCL.

You are requested to kindly grant necessary permission for laying pipeline across and along the NH 102 for the above mentioned stretch. IOCL shall bear the necessary fee/charges as applicable.

Since this is a time bound project of National importance, contributing to national prosperity, we solicit your most expeditious action to grant the NOC for laying the pipeline along/under NH 102 for the above stretch.

Thanking you,

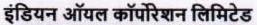
ANISH KUMAR

Yours truly,

(R K Sahoo) General Manager (Const.)

Hira Niketan Kaliket Nagar, Balley Road, Patna-801503

SM (PJ-CGD), ERPL-SARAN ERPL, PATNA आर.के.साहू/R. K. SAHOO महाप्रबंधक (निर्माण)/ General Manager (Const.) इंडियन ऑयल कार्पोरेशन लिमिटेड /Indian Oil Corp. Ltd. प्रेजेंगर निर्माण सम्मालय, पटना/Project Construction Office, Patha होरा निर्माण समालिकेत नगर, बेली रोड, पटना-801503



पाइपलाइन्स प्रभाग, ई.आर.पी.एत. शहरी गैस वितरण परियोजना कार्यालय- सारण, तीसरी मंजित , जे पी बिल्डिंग, आर डी एस स्कूत के पास, छपरा - 841301 दूरभाष: कार्यालय - 06152 296079





Indian Oil Corporation Limited

Pipelines Division, ERPL City Gas Distribution Project Office - Saran, 3rd Floor, J P Building, Near R D S School, Chhapra - 841301

Phone: Off. - 06152 296079

पाइपलाइन्स प्रभाग **Pipelines Division**

List Of Documents Attached:

1.	Cover Page		
2.	Application for Permission		
3.	Check List		
4.	Authorization Letter		
5.	PNGRB Authorization Letter		
6.	License Deed(2 Original Copy)		
7.	Undertaking/Certificates on Non- Judicial stamp paper		
8.	Brief Description of HDD/Open cut methodology		
9.	Prevailing Circle Rates of revenue villages coming in the proposed route		
10.	Indemnity Bond		
11.	CAD Drawing of the Proposed Gas Pipe Line		
12.	NHAI Circular for License Fee		
13.	License Fee calculation		
14.	PD Certificate format		

ANISH KUMAR SM (PJ-CGD), ERPL-SARAN

आर. के. साह

मुख्य कार्पालय : ए-1, उद्योग मार्ग सेक्टर 1,नीएडा 201301. Head office: A-1 Udyog Marg Sector1, Noida 201301 पंजीकृत कार्यालय: जी-9, अली यवर जंग मार्ग,बांद्रा (पूर्व), मुंबई-400 051. Regd Office G-9 All Yavar Jung Marg Bandra (East) Mumbai 400051



INDIAN OIL CORPORATION LIMITED

CITY GAS DISTRIBUTION PROJECT

AUTHORITY

National Highways Authority of India PIU, Chapra, Bihar

Details for Natural Gas Pipeline laying permission:

Sr. No	Crossing/ Along NH	Proposed Chainage	Chainage Description	Location
1	Along NH 102	01 + 300 KM To 15 + 735 KM	From Nehru Chowk, Chapra To Garkha, Saran (Near Sarika Fuels –Indian oil Petrol pump)	Saran, Bihar
2	Pipeline Crossing across NH 102	03+130 KM, 03+610 KM, 06+760 KM, 10+850 KM, 12+000 KM, 13+040 KM,	As mentioned in drawing	Saran, Bihar

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	CHECK LIST
	nes for processing the proposal for laying gas pipeline along with optical fibre cable in the land National Highway vested with NHAI
Releva	nt 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 Gas pipeline on NH land

S.No.	Item	Information/Status	Remarks
1	General Information	A) Permission of laying steel and MDPE gas pipeline along with OFC for City Gas Distribution Project along and across NH 102 1. Along/across NH 102 - From Nehru Chowk, Chapra (Proposed Chainage 01+300 KM) To Garkha (near Sarika Fuels –Indian oil Petrol pump), Saran (Proposed Chainage 15+735 KM)	
		B) Installation of isolation valve chamber along road	
1.1	Name and address of the Applicant/Agency	Indian Oil Corporation Limited Pipelines Division, ERPL City Gas Distribution Project Office - Saran, 3rd Floor, J P Building, Near R D S School, PIN: 841301	
1.2	National Highway Number	NH 102	Estate I
1.3	State	Bihar	
1.4	Location	From Nehru Chowk, Chapra To Garkha (near Sarika Fuels –Indian oil Petrol pump), Saran	
1.5	(Chainage in km)	Proposed Chainage 01+300 KM To Proposed Chainage 15+735 KM	
1.6	Length in Meters	Crossing Length – 150 mtr, Along length – 14435 mtr	
1.7	Width of available ROW	CH 01+300 KM TO CH 04+910 KM - ~ 30 Mtr CH 04+911 KM TO CH 15+735 KM - ~ 20 Mtr	

Laying of Natural Gas Pipeline Along/across the NH 102 application of IOCL – City Gas Distribution Project , Sarata Location: 1. Along/across NH 102 From Nehru Chowk, Saran (Proposed Chainage 01+300 KM) To Garkha (Near Sarika faels -

	(a) Left side from center line towards increasing chainage/km direction	CH 01+300 KM TO CH 04+910 KM - ~ 15 Mtr CH 04+911 KM TO CH 15+735 KM - ~ 10 Mtr	
	(b) Right side from center line towards increasing chainage/km direction	CH 01+300 KM TO CH 04+910 KM - ~ 15 Mtr CH 04+911 KM TO CH 15+735 KM - ~ 10 Mtr	
1.8	Proposal to lay underground gas pipeline for supply of gas products		
P. C.	(a) Left side from center line towards increasing chainage/km direction	Left side of centre line of NH 102 towards increasing chainage direction	
	(b) Right side from centre line towards increasing chainage/km direction		
1.9	Proposal to acquire land	DATE OF THE OWNER, SANSON OF	
	(a) Left side from center line	NA	
	(b) Right side from center line	NA	11178
1.10	Whether proposal is in the same side where land is not to be acquired	NA	
	If not then where to lay the cable.	NA	Train.
1.11	Details of already laid services, if any along the proposed route	NIL	
1.12	Number of existing lanes (2/4/6/8 lanes).	2	
1.13	Proposed number of lanes (2 lane with paved shoulders/4/6/8 lanes).		
1.14	Service road existing or not	NO	
1	If yes then which side		
	(a) Left side from center line		

Laying of Natural Gas Pipeline Along/across the NH 102 application of IOCL – City Gas Distribution Project , Saran Location: 1. Along/across NH 102 From Nehru Chowk, Saran (Proposed Chainage 01+300 KM) To Garkha (Near Sarika fuels -

	(b) Right side from center line		
1.15	Proposed service road	NA	
	(a) Left side from center line		
50	(c) Right side from center line		
1.16	Whether proposal to lay the gas pipeline is after the service road or between the service road and main carriageway	NA	
1.17	Whether carrying of sewage/gas pipeline has been proposed on highway Bridges. 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 bridges. If Yes, then mention the methodology proposed for the same.	NA	
1.19	If crossings of the road involved If yes, it shall be either encased in pipes or through structure or conduits specially built for the purpose at the expenses of the agency owing the line	Yes	
	(a) Whether existing drainage structures are allowed to carry gas pipeline	Yes	
	(b) It is on a line normal to NH	Yes	
)	(c) What is the distance of crossing the gas pipelines from the existing structures. Crossings shall not be too near the existing structures on the National Highway,	As per site condition	

Laying of Natural Gas Pipeline Along/across the NH 102 application of IOCL – City Gas Distribution Project , Saran Location: 1. Along/across NH 102 From Nehru Chowk, Saran (Proposed Chainage 01+300 KM) To Garkha (Near Sarika fuels –

conduit pipe in the case of electric cable) carrying the gas line	4" dia duct will be used for crossing of OFC cable.	
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	Yes	
does not act as a drainage path.		
(f) The casing/conduit pipe should, as minimum extend from drain to drain in cuts and toe of slope in the fills.	Yes	
(g) The top of the casing/conduit pipe containing the utility services to cross the road shall be at least 1.2m below the top of the sub grade or the existing ground level whichever is lower, subject to being at lease 0.3m below the drain inverts. Mention the proposed details.	Yes	
(h) Mention the methodology proposed for crossings of road for	The pipeline will be laid by Horizontal Directional Drilling (HDD) Method which is trenchless method at crossing location and Open Cut will be used for along the road section.	CA.

Laying of Natural Gas Pipeline Along/across the NH 102 application of IOCL – City Gas Distribution Project , Saran Location: 1. Along/across NH 102 From Nehru Chowk, Saran (Proposed Chainage 01+300 KM) To Garkha (Near Sarika finels -

	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.		
	(i) The casing/conduit pipe shall be installed with an even bearing throughout its length and in such a manner as to prevent the formation of a waterway along it.	Yes	
2	Document/Drawings to be enclosed with the proposal	Yes	
2.1	Cross section showing the size of trench for open trenching method	Yes and drawing attached.	
2.2	Cross section showing the size of pit and location of cable for HDD method	Yes	
2.3	Strip plan/Route plan showing the petroleum/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.	Yes	
2.4	Methodology for laying of the gas pipe line.	The pipeline will be laid by Horizontal Directional Drilling (HDD) Method and Open Cut-detailed procedure and drawing attached.	
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	

Laying of Natural Gas Pipeline Along/across the NH 102 application of IOCL – City Gas Distribution Project , Saran Location: 1. Along/across NH 102 From Nehru Chowk, Saran (Proposed Chainage 01+300 KM) To Garkha (Near Sarika finels –

The trench width should be at least 30cm, but not more than 60 cm wider than the outer diameter of the pipe.	Yes
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
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
The side fill shall consist of granular material laid in15cm ayers each consolidated by mechanical tempering and controlled addition of moisture o95% of the proctor's density. Overfill shall be compacted to the same density as the naterial that has been removed. Consolidation by aturation or ponding	Yes
ar a	yers each ensolidated by echanical tempering d controlled ldition of moisture 95% of the octor's density. verfill shall be mpacted to the me density as the aterial that has en removed. insolidation by

Laying of Natural Gas Pipeline Along/across the NH 102 application of IOCL – City Gas Distribution Project , Saran Location: 1. Along/across NH 102 From Nehru Chowk, Saran (Proposed Chainage 01+300 KM) To Garkha (Near Sarika fuels -

	(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.	NA	
3	Draft license Agreement is signed by two witnesses	Draft original 02 set is attached.	
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	
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	Will be submitted after receipt of demand note	
1.1	Confirmation of BG has been obtained or not as per MoRTH/NHAI guidelines		
	Affidavit/ Undertaking from the Applicant for the		No.

Laying of Natural Gas Pipeline Along/across the NH 102 application of IOCL - City Gas Distribution Project , Saragination: 1. Along/across NH 102 From Nehru Chowk, Saran (Proposed Chainage 01+300 KM) To Garkha (Near Sarika finale

	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
5.2	Undertaking for Renewal of bank guarantee as and when asked by MoRTH/NHAI.	Yes
5.3	Undertaking for confirming all standard condition of Ministry circulars and NHAI's guidelines.	Yes
5.4	Undertaking for Indemnity against all damages and claims.	Yes
5.5	Undertaking for management of traffic movement during laying of gas line without hampering the traffic	Yes
5.6	Undertaking that if any claim is raised by the concessionaire/contractor then the same has to be paid by the applicant.	Yes
5.7	Undertaking that prior approval of the NHAI shall be obtained before undertaking any work for installation, shifting or repairs, or alterations to the gas located in the National Highway right-of-ways.	Yes
.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 line will be borne by the applicant agency owing the line.	Yes
9	Hadest III at	Yes

Laying of Natural Gas Pipeline Along/across the NH 102 application of IOCL – City Gas Distribution Project , Sarah Location: 1. Along/across NH 102 From Nehru Chowk, Saran (Proposed Chainage 01+300 KM) To Garkba (Name Sarah Change Sarah C

-	22.11.2016		
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	5	
5.11	If the MoRTH/NHAl consider it necessary in future to move the gas line for any work of improvement or repairs to the road, it will be carried out as desired by the MoRTH/NHAl at the cost of the agency owing the gas line within a reasonable time (not exceeding 60 days) of the intimation given.		
	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	
	Who will sign the agreement on behalf of Gas pipe line	General Manager(Const.) Indian Oil Corporation Limited Project Construction Office, Patna	
	Power of Attorney to sign the	TOJECT CONSTRUCTION Office Dates	A STATE OF THE PARTY OF THE PAR

Laying of Natural Gas Pipeline Along/across the NH 102 application of IOCL — City Gas Distribution Project , Saffar Location: 1. Along/across NH 102 From Nehru Chowk, Saran (Proposed Chainage 01+300 KM) To Garkha (Name Saille Control of the Chainage O1+300 KM) To Garkha (Name Saille Control of the Chaina

Saltan auto

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 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 Product 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.". (iii) 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".	7	agreement is available or not	
confirming to all standard conditions issued vide Ministry's circular No: RW/NH-33044/29/2015/S&(R) dated 22.11.2016 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 Product 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." (iii) for 6-lanning (a) Where feasibility is available "id ocertify that there will be no hindrance to proposed six-lanning based on the feasibility report considering proposed structures at the said location". (b) In case feasibility report is not available "id ocertify that sufficient ROW is available a sufficient ROW is availa		Certificates	
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 Product 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".	7.1	confirming to all standard conditions issued vide Ministry's circular No: RW/NH- 33044/29/2015/S&(R) dated	Yes
F. All	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 Product 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	Yes
taken up by NHAI on BOT		If NH section proposed to be	NA C

Laying of Natural Gas Pipeline Along/across the NH 102 application of IOCL - City Gas Distribution Project , Saran Location: 1. Along/across NH 102 From Nehru Chowk, Saran (Proposed Chainage 01+300 KM) To Garkha (Near Sarika fuels -

	basis – a clause is to be 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		
9	concession agreement for up- gradation of [section from Kmto kmof NH no on Build: operate and transfer basis] and therefore, the license shall honour the same."		
1	Who will supervise the work of laying of Gas pipe line		
	(a) On behalf of the Applicant	Yes (IOCL, pipelines division)	
	(b) On behalf of the MoRTH/NHAI	PD/Consultant	
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	Yes (Senior Manager , Indian Oil Corporation Limited City Gas Distribution - Saran)	
	(b) On behalf of NHAI	PD/Consultant	
11	Who will pay the claims for damage done/disruption in working of concessionaire if asked by the concessionaire	Indian Oil Corporation Limited (Pipelines Division) City Gas Distribution Project, Saran	
	On behalf of the applicant	Yes	
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	
13	If anyone de	No such permission is accorded	

Laying of Natural Gas Pipeline Along/across the NH 102 application of IOCL – City Gas Distribution Project

Location: 1. Along/across NH 102 From Nehru Chowk, Saran (Proposed Chainage 01+300 KM) To Garkha Olanz Sarah (Proposed Chainage 01+300 KM) To Garkha Olanz Sarah (Proposed Chainage 01+300 KM) To Garkha Olanz Sarah (Proposed Chainage 01+300 KM) To Garkha Olanz Sarah (Proposed Chainage 01+300 KM) To Garkha Olanz Sarah (Proposed Chainage 01+300 KM) To Garkha Olanz Sarah (Proposed Chainage 01+300 KM) To Garkha Olanz Sarah (Proposed Chainage 01+300 KM) To Garkha Olanz Sarah (Proposed Chainage 01+300 KM) To Garkha Olanz Sarah (Proposed Chainage 01+300 KM) To Garkha Olanz Sarah (Proposed Chainage 01+300 KM) To Garkha Olanz Sarah (Proposed Chainage 01+300 KM) To Garkha Olanz Sarah (Proposed Chainage 01+300 KM) To Garkha Olanz Sarah (Proposed Chainage 01+300 KM) To Garkha Olanz Sarah (Proposed Chainage 01+300 KM) To Garkha Olanz Sarah (Proposed Chainage 01+300 KM) To Garkha Olanz Sarah (Proposed Chainage 01+300 KM) To Garkha Olanz Sarah (Proposed Chainage 01+300 KM) To Garkha Olanz Sarah (Proposed Chainage 01+300 KM) To Garkha (Proposed Chainage 01+30

underground gas pipe line	
then Photocopy of register of	
records of permission	
records of permission	
accorded (as maintained by	
PD) be enclosed.	

Ail

अगर. वेर. साहु

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LLR & P Fee (Rs.) Miscellaneous Fee (Rs.)

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Total Amount (Rs.)

100 (One Hundred only)

AGREEMENT REGARDING GRANTING OF PERMISSIONS FOR LAYING UTILITY SERVICES OF **NATIONAL HIGHWAYS**

Agreement to lay gas pipeline along with NH 102 from proposed chainage 01+300 KM To 15+735 KM And across the NH 102 at proposed chainage 03+130 KM, 03+610 KM, 06+760 KM, 10+850 KM, 12+000 KM and 13+040 KM of NH 102 land.

This Agreement made this 2021 between executive capacity through the President of India/ National Highways Authority of India (hereinafter referred to as the Authority" which expression shall unless excluded by or repugnant to the context, include his successors in office and assigns) on the one part, and INDIAN OIL CORPORATION LIMITED, City Gas Distribution, Saran (hereinafter called the "Licensee") which expression shall unless excluded by repugnant to the context, include his successors/administrator assignees on the

Statute Aver

ANISH KUMAN Whereas the Authority is responsible, inter-alia, for development and maintenance of lands in Proposed chainage 01+300 KM To 15+735 KM No. 102 ROW.

> Whereas the Licensee proposes to lay gas pipeline referred to as utility services in subsequent paras. Whereas the Licensee has applied to the Authority for permission to lay the underground gas pipeline along with OFC along and across NH 102 between chainage 01+300 KM To 15+735 KM from Nehru Chowk, Chapra To Garkha (near Sarika fuels -Indian oil Petrol pump), Saran .

> > Do not write or type below this line

आर.के.साह्/R. K. SAHOO महाप्रबंधक (निर्माण)/ General Manager (Const.) जीवल क्योरिशन लिमिटेड/Indian Oil Corp. Ltd.

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

Now this agreement witnessed that in consideration of the conditions hereinafter contained and on the part of the Licensee to be observed and performed, the Authority hereby grants to the Licensee permission to lay utility services as per the approved drawing attached hereto subject to the following conditions, namely.

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

ार.के. साहू/R. K. SAHOO

- 8. The Licensee shall make his own arrangement for crossing of cross drainage structure, rivers, etc. below the bed. In case, this is not feasible, the utility services may be carried outside the railings/parapets and the bridge superstructure. The fixing and supporting arrangement with all details shall be required to be approved in advance from the concerned Highway Administration. Additional cost on account of fixing and supporting arrangement as assessed by the Authority shall be payable by the Licensee.
- 9. In exceptional cases, where RoW is restricted the utility services can be allowed beneath the carriageway of service road, if available, subject to the condition that the utility services be laid in concrete ducts, which will be designed to carry traffic on top. The width of the duct shall not be less than one lane. In such cases, it also needs to ensure that maintenance of the utility services shall not interfere with the safe and smooth flow of traffic. The cost of operation and maintenance will have to be borne by the Licensee.
- 10.It is to be ensured that at no time there is interference with the drainage of the road land and maintenance of the National Highways. Towards this, the top of the utility services shall be at least 0.6 metre below the ground level. However, any structure above ground shall be aesthetically provided for / landscaped with required safety measures as directed by the concerned Authority.
- 11. The utility services shall be permitted to cross the National Highway either through structure or conduits specially built for that purpose. The casing / conduit pipe should, as minimum, extend from drain to drain in cuts and toe of slope to toe of slope in the fills and shall be designed in accordance with the provision of IRC and executed following the Specifications of the Ministry.
- 12. Existing drainage structures shall not be allowed to carry the lines across.
- 13. The top of the casing/conduit pipe containing the utility services to cross the road shall be at least 1.2m below the top of the sub grade or the existing ground level whichever is lower, subject to being at lease 0.3m below the drain inverts. A typical sketch showing the clearances is given in Attachment-I.
- 14. The utility services shall cross the National Highway preferable on a line normal to it or as nearly so as practicable.
- 15.The casing/conduit pipe for crossing the road may be installed under the road embankment either by boring or digging a trench. Installation by boring method shall be preferred.
- 16. In case of trenching, the sides of the trench should be done as nearly vertical as possible. The trench width should be at least 30 cm. but not more than 60 cm wider than the outer diameter of the pipe. Filling of the trench shall conform to the specifications contained here-in-below or as supplied by the Highway Authority.
 - a. Bedding shall be to a depth not less than 30 cm. It shall consist of granular material, free of lumps, clods and cobbles, and graded to yield a firm surface without sudden change in the bearing value. Unsuitable soil and rock edges should be excavated and replaced by selected material.
 - b. The backfill shall be completed in two stages (i) Side-till to the level of the top of the pipe (ii) Overfill to the bottom of the road crust.

A. b.

अगर.के. साह्/R. K. SAHOO महाप्रबंधक (निर्माण)/ General Manager (Const.) इंडियन जीयल कार्योरेशन लिपिटेड/Indian Oil Corp. Ltg.

- c. The side fill shall consist of granular material laid in 15 cm. Layers each consolidated by mechanical tamping and controlled addition of moisture to 95% of the Proctor's Density. Overfill shall be compacted to the same density as the material that had been removed. Consolidation by saturation or ponding will not be permitted.
- d. The road crust shall be built to the same strength as the existing crust on either side of the trench or to thickness and specifications stipulated by the Highway Authority.
- 17.The Licensee shall ensure making good the excavated trench for laying utility services by proper filling and compaction, so as to restore the land in to the same condition as it was before digging the trench, clearing debris/loose earth produced due to execution of trenching at least 50m away from the edge of the right of way.
- 18.All required restoration work subsequent to laying of the cable shall be required to be undertaken by the Licensee at its cost either by itself or through its authorized representative in consultation with the Authority as per predetermined time schedule and quality standards.
- 19. Prior to commencement of any work on the ground, a performance Bank Guarantee @ Rs. per route metre / Rs. per sq m with a validity of one year initially (extendable if required till satisfactory completion of work) shall have to be furnished by the Licensee to the Authority/its designated agency as a security against improper restoration of ground in terms of filling/unsatisfactory compaction damages caused to other underground installations/utility services & interference, interruption, disruption or failure caused thereof to any services etc. In case of the Licensee failing to discharge the obligation of making good of the excavated trench/other restoration work, the Authority shall have a right to make good the damages caused by excavation, at the cost of the Licensee and recover the amount by forfeiture of the Bank Guarantee.
- 20.In case, the Performance Bank Guarantee is invoked as mentioned above, the Licensee shall be required to replenish and reinstate the required Performance Bank Guarantee within one month of such invoking. In case the work contemplated herein is not completed to the satisfaction of the Authority, which has granted the permission, within a period of 11 months from the date of issue of the Bank Guarantee, the Licensee shall either furnish a fresh guarantee or extend the guarantee for a further period of one year. Notwithstanding this, the Licensee shall be liable to pay full compensation to the aggrieved Authority/ its designated agency for any damage sustained by them by reason of the exercise of the RoW facility.
- 21.The Licensee shall shift the utility services within 90 days (or as specified by the respective Authority) from the date of issue of the notice by the concerned Authority to shift/relocate the utility services, in case it is so required for the purpose of improvement/widening of the road/route/highway or construction of flyover/bridge and restore the road/land to its original condition at his own cost and risk.
- 22. The Licensee shall be responsible to ascertain from the respective agency in co-ordination with Authority regarding the location of other utilities /underground installations/ facilities etc. The Licensee shall ensure the safety and security of already existing underground installations/utilities/facilities etc. before commencement of the excavation/using the existing

आर.के. साह्/R. K. SAHOO महाप्रबंधक (निर्माण)/General Manager (Const.) इंडियन ऑयत कार्योशन लिमिटेड/Indian Oil Com. मत cable ducts. The Licensee shall procure insurance from a reputed insurance company against damages to already existing underground installations/utilities/facilities etc.

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

Al

आर.के.साह्/R. K. SAHOO all of महाप्रबंधक (निर्माण)/General Manager (Const.) इंडियन ऑपल कार्परेशन निर्मरेश/Indian Oil Corp. Ltd.

- 31. That the Licensee shall not undertake any work of shifting, repairs or alterations to the utility services without prior written permission of the concerned agency in coordination with the Authority.
- 32. The permission granted shall not in any way be deemed to convey to the Licensee any ownership right or any interest in route/road/highway land /property, other than what is herein expressly granted. No use of NH RoW will be permitted for any purpose other than that specified in the Agreement.
- 33. During the subsistence of this Agreement. the utility services located in highway land / property shall be deemed to have been constructed and continued only by the consent and permission of the Authority so that the right of the Licensee to the use thereof shall not become absolute and indefeasible by lapse of time.
- The Licensee shall bear the Stamp Duty charged on this Agreement.
- 35. Three copies of 'as laid drawings' of utilities (hard and soft copies) with geo-tagged photographs and geo-tagged video recordings of laying of cables in the trench (with respect to the NH) and after complete restoration shall be submitted to the Authority for verification and record within a month of completion of works.
- 36. The Licensee shall allow free access to the Site at all times to the authorised representatives of Authority to inspect the Project Facilities and to investigate any matter within their Authority, and upon reasonable notice, shall provide reasonable assistance necessary to carry out their respective duties and functions.
- 37. The utility services shall not be made operational by the Licensee unless a completion certificate to the effect that the utility services has been laid in accordance with the approved specifications and drawings and the trenches have been filled up to the satisfaction of the concerned agency in co-ordination with the Authority has been obtained. Notwithstanding anything contained herein, this Agreement may be cancelled at any time by Authority for breach of any condition of the same and the Licensee shall neither be entitled to any compensation for any loss caused to it by such cancellation not shall it be absolved from any liability already incurred.
- 38. The Licensee shall ensure adherence to relevant Indian standards and follow best industry practices, methods and standards for the purpose of ensuring the safe, efficient and economic design, construction, commissioning, operation, repair and maintenance of any part of the utility lines/industrial infrastructure facilities and which practices, methods and standards shall be adjusted as necessary, to take account of
 - a. operation, repair and maintenance guidelines given by the manufacturers,
 - the requirements of Law,
 - c. the physical conditions at the Site, and
 - The safety of operating personnel and human beings.
- 39. The Licensee shall have to provide safety measures like barricading, danger lighting and other necessary caution boards while executing the work.

आर. के. साहू / R. K. SAHOO
महाप्रबंधक (निर्माण)/ General Manager (Const.)

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

This agreement has been made in duplicate, each on a Stamp Paper, Each party to this Agreement has retained one stamped copy each.

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

SIGNED SEALED AND DELIVERED FOR AND ON BEHALF O	OF AUTHORITY.
BY SHRI	
(Signature, name & address with stamp)	
SIGNED ON BEHALF OF M/S	(LICENSEE)
BY SHRI	FDSTNR-BURN Income from
(Signature, name & address with stamp)	singlet Height worker, used / Project Construction Office, Palma
HOLDER OF GENERAL POWER OF ATTORNEY DATED	अगर.के. साह / R. K. SAHOO महाप्रमेशक (मिर्माण), General Manager (Const.)
EXECUTED IN ACCORDANCE WITH THE RESOLUTION IS BOARD OF DIRECTORS IN THE MEETING HELD ON	NO. DATED PASSED BY UTT





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Miscellaneous Fee (Rs.)

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Discore SC (Rs.)

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Total Amount (Rs.)

100 (One Hundred only)

UNDERTAKING

- I, General Manager, Eastern Region Pipelines, Indian Oil Corporation Limited, Patna do hereby certify that
 - 1.) Laying of gas pipeline along with OFC will not have any deleterious effects on any of the bridge components and roadway safety for traffic.
 - 2.) For 6-laning "Indian Oil Corporation Limited do undertake that IOCL will relocate gas pipeline at its own cost notwithstanding the permission granted within such time as will be stipulated by NHAI for further six lanning or any other development".

For & on behalf of Indian Oil Corporation Ltd.

(R K SAHOO)

General Manager (Const)

IOCL, Patna

महाप्रबंधक (निर्माण)/ General Manager (Const.) इंडियन ऑफ्त कार्पोरेशन तिमिरेड/Indian Oil Corp. Ltd. वोजेक्ट निर्माण कार्याला, पटचा/Project Construction Office, Patria होरा निकेतन, कालिकेत नगर, बेली रोड, पटचा-801503 Hira Niketan Kaliket Nagar, Bailey Road, Patria-801503

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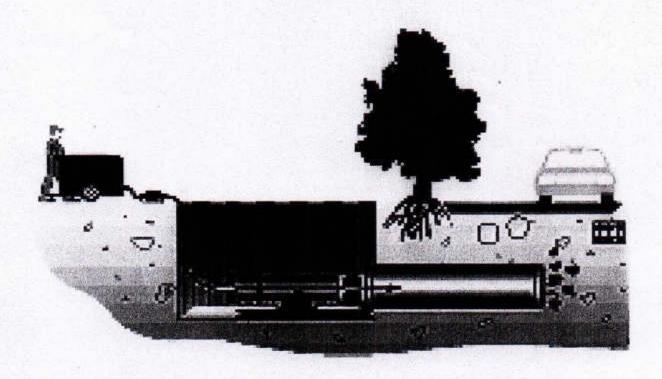




Indian Oil Corporation Limited

CONSTRUCTION METHODOLOGY:

For laying underground pipeline Crossing National highways by Horizontal Boring Method



ANISH KUMAR SM (PJ-CGD), ERPL-SARAN

आर.के.साह/R. K. SAHOO महाप्रबंधक (निर्माण)/General Manager (Const.) इंडियन ऑपल क्योरिक लिक्टिड/Indian Oil Corp. Ltd. प्रोजेक्ट निर्माण क्यांत्रव, पटना/Project Construction Office, Patha शिर निर्माण क्यांत्रव, पटना/Project Construction Office, Patha शिर निर्माण क्यांत्रव, पटना/Project Construction Office, Patha शिर निर्माण क्यांत्रव, पटना-801503 Hira Niketan Kaliket Nagur, Bailey Road, Patha-801503

HORIZONTAL DIRECTIONAL DRILLING

GENERAL

Horizontal Directional Drilling or HDD, is a steerable trenchless method of installing underground pipes, conduits and cables in a shallow arc along a prescribed bore path by using a surface launched drilling rig, with minimal impact on the surrounding area. HDD is used when trenching or open excavation is not possible/practical. Directional boring minimizes environmental disruption. It is suitable for a variety of soil conditions and jobs including road, landscape and river crossings. Pipes can be made of materials such as Steel, PVC, etc. if the pipes can be pulled through the drilled hole.

Technique

Directional boring is used for installing infrastructure such as telecommunications and power cable conduits, water lines, sewer lines, gas lines, oil lines, product pipelines and environmental remediation casings. It is used for crossing waterways, roadways, shore approaches, congested areas, environmentally sensitive areas, and areas where other methods are costlier. It is used instead of other techniques to provide less traffic disruption, lower cost, deeper and/or longer installation, no access pit, shorter completion times, directional capabilities, and environmental safety. The technique has extensive use in urban areas for developing subsurface utilities as it helps in avoiding extensive open cut trenches.

The method comprises a three stage process wherein first stage drills a pilot hole on the designed path and the second stage enlarges the hole by passing a larger cutting tool known as the back reamer. The third stage places the product or casing pipe in the enlarged hole. The directional control capabilities assist the rig operator in making necessary changes in the directions of the drilling head.

Horizontal directional drilling is done with the help of a viscous fluid known as drilling fluid. It is a mixture of water and, usually, bentonite or polymer continuously pumped to the cutting head or drill bit to facilitate the removal of cuttings, stabilize the bore hole, cool the cutting head, and lubricate the passage of the product pipe.

Location and guidance of the drilling is a very important part of the drilling operation, as the drilling head is under the ground while drilling and, in most cases, not visible from the ground surface.

Advantages

HDD offers several advantages when compared to other trenchless construction methods:

(a) Complicated crossings can be quickly and economically accomplished with a great degree of accuracy since it is possible to monitor and control the drilling operation.

(b) Sufficient depth can be accomplished to avoid other utilities.

- (c) In river crossing applications, danger of river bed erosion and possible damage from river traffic is eliminated.
- (d) Requires only a small construction footprint.

The Horizontal Directional Drilling Process

The tools and techniques used in the horizontal directional drilling (HDD) process are an outgrowth of the oil well drilling industry. The components of a horizontal drilling rig used for pipeline construction are similar to those of an oil well drilling rig with the major exception being that a horizontal drilling rig is equipped with an inclined ramp as opposed to a vertical mast. HDD

ार.के. साहू/R. K. SAHOO नवंबक (निर्माण)/General Manager (Gonst.) ान ऑयल कार्पोरशन मिणिटेड/Indian Oil Corp. Ltd.

pilot hole operations are not unlike those involved in drilling a directional oil well. Drill pipe and downhole tools are generally interchangeable and drilling fluid is used throughout the operation to transport drilled spoil, reduce friction, stabilize the hole, etc. Because of these similarities, the process is generally referred to as drilling as opposed to boring.

Installation of a pipeline by HDD is generally accomplished in three stages as illustrated in Figure 1. The first stage consists of directionally drilling a small diameter pilot hole along a designed directional path. The second stage involves enlarging this pilot hole to a diameter suitable for installation of the pipeline. The third stage consists of pulling the pipeline back into the enlarged hole.

Pilot Hole Directional Drilling

Pilot hole directional control is achieved by using a non-rotating drill string with an asymmetrical leading edge.

It is common in soft soils to achieve drilling progress by hydraulic cutting with a jet nozzle. In this case, the direction of flow from the nozzle can be offset from the central axis of the drill string thereby creating a steering bias. This may be accomplished by blocking selected nozzles on a standard roller cone bit or by custom fabricating a jet deflection bit. If hard spots are encountered, the drill string may be rotated to drill without directional control until the hard spot has been penetrated.

Pre-reaming

For a pre-reaming pass, reamers attached to the drill string at the exit point are rotated and drawn to the drilling rig thus enlarging the pilot hole. Drill pipe is added behind the reamers as they progress toward the drill rig. This insures that a string of pipe is always maintained in the drilled hole..

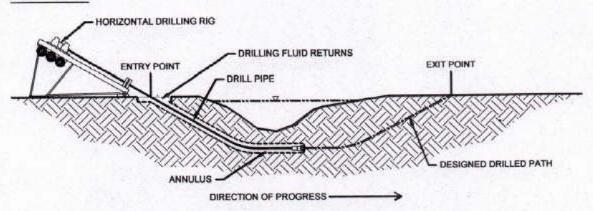
Pullback

Pipe installation is accomplished by attaching the prefabricated pipeline pull section behind a reaming assembly at the exit point and pulling the reaming assembly and pull section back to the drilling rig. This is undertaken after completion of pre-reaming or, for smaller diameter lines in soft soils, directly after completion of the pilot hole. A swivel is utilized to connect the pull section to the leading reaming assembly to minimize torsion transmitted to the pipe.

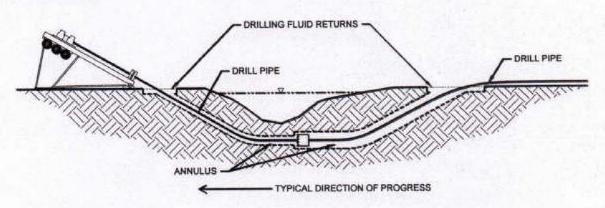
MISH KUMAR SM (PJ-CGD), ERPL-SARAN

> आर.के.साहू/R. K. SAHOO नहाप्रबंधक (निर्माण)/ General Manager (Const.) वियन आवल कार्योरेशन लिपिटेड/Indian Oil Corp. Ltd. वेनेश्ट निर्माण कार्यालय, परना/Project Construction Office, Patha रिरा निर्मेतन, कालिकेत नगर, बेली रोड, परना-801503 ira Niketan Kaliket Nagar, Bailey Road, Patna-801503

PILOT HOLE



PREREAMING



PULLBACK

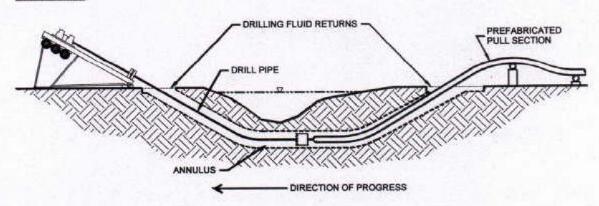


Figure 1 The HQD Process

ANISH KUMAR SM (PJ-CGD), ERPL-SARAN आर.के.साह्/R. K. SAHOO

आर.के.साह् /R. K. SAHOO गराप्रबंधक (निर्माण)/General Manager (Const.) (वियन ऑयल क्योरिज्ञ लिपिटेड/Indian Oll Corp. Ltd. प्रोजेक्ट निर्माण कार्यात्व, पटचा/Project Construction Office, Patha हीरा निकेतन, कालिकेत नगर, बेली रोड. पटना-801503 Hira Niketan Kaliket Nagar, Bailey Road, Patha-801503

Disadvantages of Cased Crossing:

Cased Crossings are being worldwide discouraged due to technical & operational issues/problems being faced by people involved in installing & maintaining pipelines. Some of the points going against cased crossings are as follows:

- For installing a pipeline by cased crossing method, large launching & receiving pits are
 required to be excavated on both sides of the crossing (highway/ railway etc.). In case of
 high water table conditions, it is very difficult to keep these pits in stable/ dry condition.
 De-watering and sheet piling / shoring methods may be required especially for higher
 depth crossings.
- Collapse of the pits may lead to severe accidents. Several such accidents, fatal in some cases, have been reported in the past due to collapse of deep pits excavated at cased crossing locations.
- Due to requirement of deep pits and water table, depths more than of 3-4m are practically difficult to be achieved by this technique and may be risky.
- The installation is done by horizontal auger boring machine placed in the launching pit. The boring process is un-guided and at times may deviate considerably from the intended straight path due to soft soil conditions and/or presence of rock/ hard strata beneath the road/ rail surface. Under such conditions the hole may have to be abandoned and a new boring at a separate location may be required. Filling the abandoned hole is very difficult and settlement of road/ ground surface may occur in future.
- Maximum length of boring which can be practically achieved depends on the soil conditions and size of boring. However any length beyond 50-60m is difficult, risky & time consuming. As highway crossings, especially NH & SH are of longer lengths, this method has got limitations of installation.
- Problems of short-circuiting between casing & carrier pipes is another problem prevalent
 in cased crossings. This leads to loss of cathodic protection current thereby reducing the
 secondary protection to the carrier pipe. Any damage to pipe coating at such locations
 may lead to development of corrosion spots and potential areas for leakage of petroleum
 products in future.
- In case widening of the highway is undertaken in future, the low depth of the pipe may become a hindrance. Extension of the casing to cover the new width of crossing is very cumbersome and time consuming.

Advantages of HDD Technique:

- Horizontal Directional Drilling (HDD) technique is a trenchless technique used worldwide for crossing of obstacles like rivers, canals, drains, highways etc. by petroleum pipelines (liquid / gas), sewer lines etc.
- It is a environment friendly technique for pipeline crossings
- It is a much safer technique as compared to other techniques of pipeline crossings.

. Small excavation is required at both ends

ANISH KUMAR SM (PJ-CGD), ERPL-SARAN आर.के.साह्/R. K. SAHOO महाप्रबंधक (निर्माण)/General Manager (Const.) इंडियन ऑवल कार्पीरेशन लिमिटेड/Indian Oli Const.)

- By the use of this technique the pipeline can be installed at a much greater depth from the obstacle as per requirement of client. In PRRPL project, the depth below highway has been kept more than 5m. Such depths may not be possible by cased crossing technique.
- In this technique, use of casing pipe is not required as the hole drilled for installation of the carrier pipe is kept stable due to presence of drilling fluid (bentonite) under pressure and the drill pipe / product pipe being always present in the hole.
- Much longer crossing lengths can be achieved by HDD technique. Thus highway
 widening activities can be carried out without any hindrance as the pipeline is laid at
 much higher depth and for longer length as compared to cased crossing. In PRRPL
 project HDD crossing length of more than 100m have been envisaged. Such lengths
 cannot be obtained by cased crossing method.
- Success rate of HDD technique is much higher than auger boring. Problems of abandonment of hole which have been mentioned above in cased crossings are almost nil in case of HDD crossings of small lengths for highways, small canals etc.

ANISH KUMAR SM (PJ-CGD), ERPL-SARAN

आर. के. साह/R. K. SAHOO पडाप्रबंधक (निर्माण)/General Manager (Const.) डिवन ऑपल कार्पीरेमन लिपिटेड/Indian Oil Corp. Ltd. हेनेक्ट निर्माण कार्योत्स, एटना/Project Construction Office, Patra धेरा निर्केतन, कालिकेत नगर, बेली रोड, पटना-801503 Hira Niketan Kaliket Nogar, Bailey Road, Patra-801503

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: 100 (One Hundred only)

INDEMINITY BOND

I, R K Sahoo, aged 54 years, working as General Manager (Construction), Indian Oil Corporation Limited, Project Construction Office, Patna is hereby give the following undertaking to the NHAI in connection with the permission for laying of Natural Gas pipeline along with OFC along the NH 102 from proposed chainage 01+300 KM To 15 + 735 KM And across the NH 102 at proposed chainage 03+130 KM, 03+610 KM, 06+760 KM, 10+850 KM, 12+000 KM, and13+040 KM for City Gas Distribution Project being executed by Indian Oil Corporation Limited, Pipelines Division.

- Not to damage other utility, if damaged then to pay the losses either to NHAI or to the concerned authority.
- Renewal of bank guarantees for the further period if the work is not completed to the satisfaction of authority.
- Confirming all standard condition of NHAI guidelines issued by Ministry of Road Transport& Highways/ NHAI vide Ministry circle no NH -41 .58/68 dated 31.01.1969, Ministry circle no NH-III/.P/66/76 dated 19.11.1976, Ministry circle no RW/NH-III/P/66/76 dated 11.05.1982, Ministry circle no RW/NH-11037/1/86-DOI(ii) dated 28.07.1993, Ministry circle no RW/NH-11037/86/DOI dated 19.01.1995, ministry circle no.RW/NH-34066/2/95 dated 25.10.1999 and Ministry circle no.RW/NH-34066/7/2003 S&R (B) dated 17.09.2003, Ministry circular no.RW/NH-33044/27/2005/S & R (Pt.) dated 06.08.2013 and Ministry Circular No.RW/NH-33044/29/2015/S&R(R) dated 22.11.2016.

आर.के. साह/R. K. SAHOO Do not write or type below this line ... महाप्रशासक (निर्माण)/ General Manager (Const.) इंडियन ऑयल कार्योरेशन लिमिटेड /Indian Oil Corp. Ltd. ग्रोजेक्ट निर्माण कार्यालय, पराव/Project Construction Office, Patria हीरा निकेतन, कासिकेत नगर, बेली रोड, पटना-801503 Hira Niketan Kaliket Nagar, Balley Road, Patna-801503

KC 0003291194



- 4. Indemnity against all damage and claims.
- Traffic moving during laying of gas pipeline to be managed by the applicant.
- 6. If any claims raised by the concessionaire, then the same has to be paid by us.
- Prior approval of the NHAI shall be obtained before undertaking any Work of installation, shifting or repairs or alteration to the showing gas pipeline in the National Highway right of ways.
- Expenditure, if any incurred by NHAI for repairing any damage caused to the NH by the laying, maintenance or shifting of the gas pipeline will be borne by us.
- The text of the license deed is as per verbatim of MoRTH format (issued vide Ministry's circular no. RW/NH-33044/29/2015/S&R(R) dated 22.11.2016.
- 10. 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
- 11. If MoRTH/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 desire by the MoRTH/NHAI at the cost us within reasonable time (not exceeding 60 days) of the intimation given.
- 12. Laying of gas pipeline will not have any deleterious effects on any of the bridge / culvert / underpasses components and roadway safety for traffic.
- 13. For 6 lanning we do undertake that, we will relocate our utility line on service road / approach road at our own cost notwithstanding the permission granted within such time as will be stipulated by MoRTH/NHAI for future six lanning or any other development

 Performance Bank Guarantee for any amount of Rs..... lakh in favour of MoRTH/NHAI will be furnished once the proposal is approved.

ANISH KUMAR SM (PJ-CGD), ERPL-SARAN

अार.के. साह/R. K. SAHOO महाप्रबंधक (निर्माण)/ General Manager (Const.) इंडियन ऑयल कार्योरक लिग्टेड/Indian Oil Corp. Ltd. लेकेन्ट्र निर्माण कार्योड्य, पटना/Project Construction Office, Patra हीरा निर्केतन, कालिकेत नगर, बेली रोड, पटना-801503 Hira Niketan Kaliket Nagar, Bailey Road, Patra-801503

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ANISH KUMAR SM (PJ-CGD), ERPL-SARAN अगर, के. साह / R. K. SAHOO महाप्रस्क (मिर्माण्)/General Manager (Const.) सुक्रवन आगत क्योंग्रेश-शिमीश्रे / Indian Oil Corp. Ltd. होनेस्ट मिर्मा क्योंग्रेश-शिमीश्रे / Indian Oil Corp. Ltd. होनेस्ट मिर्मा क्योंग्रेश-शिमीश्रे / पटम/Project Construction Oilice. Pains वीचा निकेतन, क्योंग्रेशन नगर, वेशी चेट, पटन-801503 पात निकेतन, क्योंग्रेशन नगर, वेशी चेट, पटन-801503 पात Niketan Kaliket Nagor, Balley Road, Patna-801503

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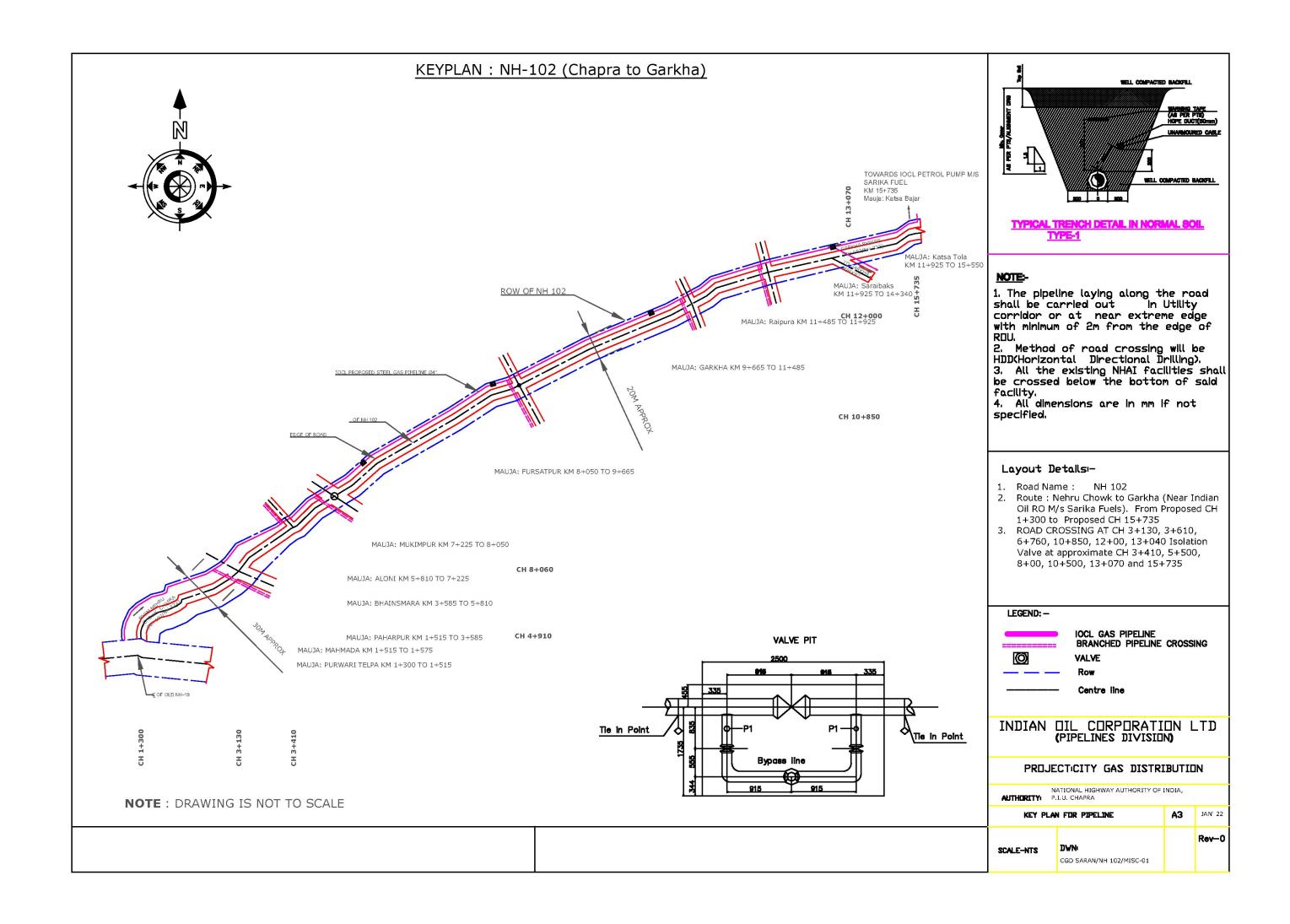
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अगर. के. साह / R. K. SAHOO पहाप्रशंक (मिर्मण)/ General Manager (Const.) (डियन ऑपक क्योरिक हिमिटेंड/Indian Oil Corp. Ltd. मोनेस्ट मिर्मण क्योर्क, एन्य, मिर्मुट्स Construction Citico. Para for मिर्मुट्स, इन्निस्टिंड नम्प, केसी रोड, पटना-801503 Hira Niketan Kaliker Nagur, Balley Road, Patna-801503

ANISH KUMAR SM (PI-CGD), ERPL-SARAN





क्रम संख्या पर्व प्रमा है (रहे भूग देशा प्रमा ८०) होता महत्व ।

कामेश्वर प्र॰ सिंह, मुद्रांक विक्रेता ला॰ सं॰-6/79, निर्वधन कार्यालय, पटना

SPECIAL POWER OF ATTORNEY

TO ALL TO WHOM THESE PRESENTS SHALL COME, I. J. P. Sinha, Executive Director, Fastern Region Pipelines, Indian Oil Corporation Limited, Kolkata-700 020 (and day appointed Constituted Attorney) of Indian Oil Corporation Limited, a Government of India Undertaking and a Company duly incorporated and registered under the Companies Act being the Act No. 1 of 1956 having its registered Office at Indian Oil Bhawan, G-9, Ali Yavan Jiang Marg. Bandra Last, Mumbai-400051 and its Pipelines Head Office at Indian Oil Bhawan, A-1, Udyon Marg. Sector-1, Noida-201301 (hereinafter referred to as "the Corporation" for the sake of brevity).

AND WHEREAS exercising the powers instituted in me under the Power of Attorney executed in my name and favor on $20 \int c = \int 2015$, where under, I have been appointed the Constituted Attorney of the Corporation with the Powers and Authorities as specified therein.

AND WHEREAS in exercise of the power to execute a power of attorney and there under delocating and or sub-delegating any one or more of the various powers and authorities conferred on me 1.3, P. Sinha, Executive Director, Eastern Region Pipelines, Indian Oil Corporation Limited, Kolkata-700–020 hereby nominate, appoint and constitute Shri R. K. Sahoo, General Manager (Construction), Patna for the following purposes:-

Statu

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B

- To sign all documents MoUs, Agreements Deeds required to be signed between Indian Oil Corporation Limited and Departments under Central Government/State Governments (Uttar Pradesh, Bihar, and Jharkhand) and Public Sector Undertakings, for example District Administration, PWD, Irrigation Department, Forest Department, Railways, Airport Authority of India, National Highway Authority of India etc in respect of construction of the (a) Augmentation of Paradip-Haldia- Durgapur LPG Pipeline and its extension upto Patna and Muzaffarpur in Bihar and Jharkhand (b) 18" Haldia Barauni Pipeline conversion to natural gas in Bihar and Jharkhand (c) Branch Pipeline from Patna to Baitalpur on Barauni-Kanpur Pipeline and its extension to Raxaul (d) Motihari- Amlekhgunj Pipeline (e) 30" Haldia Barauni Pipeline in Bihar and Jharkhand (f) City Gas Distribution Projects in Bihar and Jharkhand (g) LKO ATF Pipeline (h) any other projects approved by Board and executed in Bihar and Jharkhand.
- 2) To consider and after obtaining due approvals from Competent Authority ies negotiate/release/ hold payment/s for any advance/ claim/ demand which is raised/payable in connection and context of the stipulations of the MoUs Agreements entered into between Indian Oil Corporation Limited and Departments under Central Government/State Governments (Uttar Pradesh, Bihar, and Jharkhand) and Public Sector Undertakings, for example District Administration, PWD, Irrigation Department, Forest Department, Railways, Airport Authority of India, National Highway Authority of India etc.

It is also advised that Shri R. K. Sahoo, General Manager (Construction), Patna, holder of this Special Power of Attorney shall observe the following limitations on the powers delegated to him:-

- To not sub-delegate further the powers conferred hereinabove, under this SPoA.
- b. Original Power of Attorney shall be surrendered upon the completion of the purpose for which the Attorney has been given and/or event of transfer/retirement of relinquishment of the post or on ceasing to be the employee of the Corporation.
- c. The delegation shall not provide any additional financial powers to the delegates over and above to what they are entitled to as per the extant DOP.
- d. The delegation is being extended to facilitate administrative functions only.
- e. It needs to be also ensured that before executing documents or committing anything on behalf of the Corporation, particularly the items that could have financial implications; the delegatee should seek advice from his superiors and obtain appropriate requisite approvals.
- f. Any prior Power of Attorney held by the holder in the above mentioned context shall have to be surrendered /withdrawn and possession of dual Power of Attorney shall not be permissible.

And 1, J.P.Sinha, Executive Director, Eastern Region Pipelines, Indian Oil Corporation Limited, Kolkata – 700 020 and duly appointed Constituted Attorney for and on behalf of Indian Oil Corporation Limited do hereby undertake to ratify and confirm all acts and whatsoever the said Attorney or his sub-delegates shall lawfully do or cause to be done in or about the premises aforesaid of the Corporation by virtue of these presents.



IN WITNESS WHEREOF, I, J.P.Sinha, Executive Director, Eastern Region Pipelines, Indian Oil Corporation Limited, and duly appointed Constituted Attorney of Indian Oil Corporation Limited have hereunto affixed my hand and seal this the 30 day of Asj. 2021.

> (J.P.Sinha) Executive Director

IN THE PRESENCE OF

Rajesh Homer

(RAJESH KUMAR)

DI General Manager HRIERPI KAKA

SPECHL POWER OF ATTORNEY

(J.P.Sinba) Executive Director CONSTITUTED ATTORNEY OF INDIAN OIL CORPORATION LIMITED

.... DONOR

LACCEPT THE POWER HEREBY GIVEN

General Manager (Construction), Patna

PIPELINES DIVISION

....DONEE



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

प्रथम-तल, वर्ल्ड ट्रेड सेंटर, नाबर रोड, नयी दिल्ली - 110001 1st Floor, World Trade Centre, Babar Road, New Delhi - 110001

PNGRB/CGD/BID/10/2018/GA/10.08/Schedule-D

29th March 2019

To Indian Oil Corporation Limited, Pipeline Division, A-1, Udyog Marg, Sector-1, Noida - 201301

(Kind Attn: Shri S K Sharma, ED (CGD))

Grant of Authorisation to Indian Oil Corporation Limited for development of City Gas Distribution Network in the Geographical Area of Muzaffarpur, Vaishali, Saran and Samastipur Districts (GA 10.08).

Sir.

With reference to submission of Performance Bank Guarantee for Rs. 50 crore vide your letter dated 29.03.2019, as per the requirement under Regulation 10 (1) of the Petroleum and Natural Gas Regulatory Board (Authorizing Entities to Lay, Build, Operate or Expand City or Local Natural Gas Distribution Networks) Regulations, 2008, please find enclosed authorization in Schedule D for the GA of Muzaffarpur, Valshali, Saran and Samastipur Districts in duplicate.

- The tariff applicability is as per the Judgement of Hon'ble Supreme Court of India in the SLP No. 22273 of 2012.
- You are requested to put your stamp & signature on each page of the document and return one copy, within 7 days of receipt of this communication, to the PNGRB for records.
- The enclosed authorization issues with the approval of the Board.

Yours faithfully.

Encl: As above

एस. के. शर्मा / S. K. Sharma कार्यकारी निर्देशक (जीजीडी)

Executive Director (CGD) इंडियन ऑयल कॉपॉरेशन लिमिटंड INDIAN OIL CORPORATION LIMITED Arvind Kumar

(Additional Advisor 1134 ARVIND IXLIMAR ACT TO IXLIMAR Additional Advisor of Additional Advisor of Ixlimation Advisor of Ixlimation of Ixlimation Advisor of Ixlimation of Ixlimation Advisor of Ixlimation of Ixlimation of Ixlimation of Ixlimation of Ixlimation of Ixlimatic Conference of Ixlimat

जिला निबंधन कार्यालय, सारण (छपरा)

पत्रांक:- ५३ / निबंधन

प्रेषक,

जिला अवर निबंधक, सारण, छपरा।

सेवा में,

Sr. Project Engineer (CGD), Indian Oil Corporation Limited, Pipelines Division, ERPL City Distribution Project Office-Saran

छपरा/दिनांक:- ७२/७//22

विषय:- M.V.R. उपलब्ध कराने के संबंध में।

प्रसंग:- आपका पत्रांक-ERPL/CGD-Saran/PROJ/2.4/02 , दिनांक:-06.01.2022

महाशय,

अनुलग्नक:-

उपर्युक्त विषयक प्रसंगाधीन पत्र के आलोक में अंचल छपरा सदर पेरिफेरल, छपरा नगर क्षेत्र, अंचल रिविलगंज, रिविलगंज पेरिफेरल, नगर पंचायत रिविलगंज, अंचल जलालपुर एवं अंचल मांझी के सभी मौजों का वर्तमान में प्रभावी न्यूनतम प्राक्किलत मूल्य मार्गदर्शिका पंजी (M.V.R.) (मूल्य रू. प्रति डिसमिल में) इस पत्र के साथ संलग्न कर आवश्यक कार्यार्थ हेतु भेजी जा रही है।

कृपया, प्राप्ति स्वीकार की जाय।

विश्वासभाजन

जिली अवर निबंधक, सारण: छपरा।

यथावर्णित—(..28.) पृष्ठों में।

				ডি	ला अवर निर	ांधन कार्यालय,	सारण(छपरा)						
		100	(=	युनतम प्राक्कि	त मूल्य मार्ग	दर्शिका पंजी)	(मूल्य रु० प्रति	डिसमिल में)					
	कोड-1700) नगर परिषद् छपरा (कोड-01)								01-02-2016 से प्रमावी				
थान	1	पुराना	सर्किल		ख्य	वसायिक	30	वासीय वासीय	विकासशील	अधिसूचन			
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1	44	1	1	रोजा पुरबारी	660000	431000	344000	294000	196000	1			
2	44	1	1	रौजा पश्चिमारी	680000	425000	342000	306000	196000	2			
3	43	1	1	बङ्का तेलपा पुरवारी	695000	435000	344000	310000		3			
4	43	1	1	रौजा पश्चिमारी	680000	439000	363000	312000	196000	4			
5	42	2	1,2	रौजा पश्चिम	680000	442000	367000	314000	203000				
6	42	2	1,2	बडका तेलपा	695000	443000	368000	342000	202000	5			
7	41	3	3	बङ्का तेलपा	795000	483000	410000	342000	188000	6			
8	41	3	3	पुरवारी तेलपा_	757000	488000	403000	354000	196000	7			
9	41	3	3	भिखाड़ी चौक	787000	523000	420000	402000	196000	8			
10	40	4	4	विचला तेलपा	900000	534000	455000	402000	100000	9			
11:	40	4	4	छोटा तेलपा	900000	534000	455000	417000	189000	10			
12	40	. 4	4	तेलपा बस स्टैण्ड	905000	540000	478000	414000	192000	11			
13	39,	4	4	छोटा तेलपा	750000	502000	466000	44,4000					
14	39, 40	4	4	विचला तेलपा दक्षिणी भाग	720000	502000	466000	414000	210000	13			
15	38	3	3,5	विचला न्तेलपा	847000	534000	504000	420000	210000				
16	38	3	3,5	छोटा तेलपा	847000	546000	504000	436000	210000	15			
17	38	3	3,5	वैक कॉलोनी	931000	. 561000	528000	426000		16			
18	37, 39	5	5	छोटा तेलपा	998000	623000	560000	432000		17			
19	37, 39	5	5	पश्चिमारी तेलपा	998000	626000	573000	390000		19			
20	37, 39	5	5	पुलिस लाईन	998000	573000	437000	432000		20			
21	37, 39	5	5	कुटिया टोली	998000	603000	572000	432000		21			
22	36, 39	6	6,5	छोटा तेलपा	998000	591000	550000	456000	100000	22			
23	36	6	6,5	ईमामगंज	1016000	660000	596000	558000	420000	00			
24	36	6	6,5	कटहरी बाग	1125000	741000	685000	882000		23			
25	35	10	5,6,7	दालदली बाजार	2512000	1557000	932000	825000		24			
26	35	10	5,6,7	मेटा तेलपा	1328000	1098000	915000	925000					
27	35	10	5,6,7	गोंधी चीक	2250000	1132000	1064000	825000		26			
28	34	11	5,12	ओटा तेलपा	1707000	975000	823000	894000 789000		27			

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34	औढ़ा माला	424	4 6800		45600	-	40000	-	3250	-	1250		9500		
35	सैद सराय	425	5 58000		45500		39000	+	3100		1190	-	9500		
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37	केवानी	427			2000	+	35500	+	3250	-	15000	+	12500	467	
38	सैकी	428		-	2800	+	35500	+	3250	-	5000	-	12500	468	
39	वाजितपुर	429	-		2500	-	36500	+	3380(4200) 1	1800	469	
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_	मरीचा	432	64500	-	5000	-	5000	4	15500	1	7500	1	4500	472	
3 1	ह रसतपुर	433	107500	-	2000		9500	3	3500	1	4000	1	3000	473	
4 8	हुचाह	434	107500		2000	-	5000	2	7000	14	1000	8	500	474	
5 8	सनपुर	435	51000		3500	10000	5600	1	9500	13	3500	6	700	475	
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	44	442	86000	650	000	520	000	45	000	165	-	_	500	483	

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जिला अवर निबंधन कार्यालय, सारण(छपरा)

15	नवा	लय- सारण	(कोड-170	। मूल्य गार्गदर्शि ०)		p.d.		- 17 01101	व्यवना का 1व	14		
ſ	धाना	मीजा	था	er	TOTAL		market and the second second	(कोड–07)		वर्ष: 201415		
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-		वरवकपुर	319	4500	358	500	2700			of the same		
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-	-	जीगना	321	54000	515	00	42500	S. S. S. S. S. S.				
3	-	नजलिशपुर	322	49000			29500					
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11	0 3	मलोनी 🧼	324	68000	140		47500) 440	
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12	2 3	ाधोपुर	326	49000			34000	0.000			442	
13	व	मालपुर	327	93000				20000	-	1000	443	
14	पो	हिया	328	93000	7350	-	34000	25000	-		444	
15	फ	तनपुर	329	49000	4200		52000	35500	-	.,,,,,,	445	
16	भौ	समारा 💛	330	49000	4200		34000	25000			446	
7	पह	ाड्पुर 🗸	331	88000	The second second	-	34000	25000	11000	8500	447	
8	फोर	रूसा	332	65000	6350		39000	33200	17000	9100	448	
9	रेहि	्या	333	68000	56500	-	0500	27000	12500	10500	449	
0	मह	म्मदा	334	110000	48000		0500	27000	21000	9500	450	
1	वेल	वनिया	335	110000	95000	-	5000	35500	15500	11500	451	
2	लाव	पुर	326		45000		6000	35000	13500	7500	452	
3	दुर्ग	टोला	404		42000	-	5500	23500	13500	7500	453	
	बगह		405	40000	48000	-		28500	15000	12500	454	
	पुल	वरिया	406	48000	45000	-		28500	15000	12500	455	
			700	49500	43500	36	3500	32000	14000	13000	456	





GOVERNMENT OF INDIA MINISTRY OF ROAD TRANSPORT & HIGHWAYS AN ISO 9001:2008 CERTIFIED MINISTRY

S&R(R) ZONE

IAHE Campus, A-5, Sector-62, Noida-201301.

F. No. RW/NH-33044/29/2015/S&R(R)

Dated: 22nd November, 2016

To,

- 1. The Chief Secretaries of all the State Governments/ UTs
- 2. The Principal Secretaries/ Secretaries of all States/ UTs Public Works Department dealing with National Highways, other centrally sponsored schemes.
- 3. All Engineers-in-Chief and Chief Engineers of Public Works Department of States/ UTs dealing with National Highways, other centrally sponsored schemes.
- 4. The Director General (Border Roads), Seema Sadak Bhawan, Ring Road, New Delhi-110 010.
- 5. The Chairman, National Highways Authority of India, G-5 & 6, Sector-10, Dwarka, New Delhi-110 075.
- 6. The Managing Director, NHIDCL, PTI Building, New Delhi-110001

Subject: Accommodation of Public and Industrial Utility Services along and across National Highways – Policy guidelines regarding. Sir,

The Government has realized that development of infrastructure across the Country on a sustainable and integrated manner continues to be an imperative for improving the state of economy, enhancing quality of life of the citizens and ensuring equitable development throughout the country.

Land being among the most precious of natural resources available, optimum utilization of land shall play a critical role in integrated development of infrastructure. One of the ways to effect such optimum utilization is leveraging land within National Highway (NH) Right of Way (ROW) for laying utility services. This may be achieved through granting permissions for laying utility services along and /or across the ROW. However, environment and safety of the road users are the prime factors in deciding permission for utility services. Permission may be denied, if it is not feasible to ensure safety and environment through requisite safeguards. The Administration of ROW, has been defined in the National Highway Land and traffic Control Act 2002 and relevant Rules 2004.

Keeping in view the need for consistency and clarity, in supersession of all the instructions contained in the earlier previous circulars on the subject, following guidelines shall apply for accommodation of Utility Services along and across National Highways.

2. Laying of Utility Services along the National Highways:

- 2.1 There shall be a provision for utility ducts for appropriate categories/combination of utilities in the construction of new/4-6 laning of National Highways. The ducts shall be located at appropriate location preferably as close to the extreme edge of ROW.
- 2.2 Utility services shall be laid in the utility ducts, if provided for the purpose.
- 2.3 In stretches where utility ducts have not been provided, the utility services shall be located, beyond the toe line of the embankment and drains, as close to the extreme edge of the RoW as possible. While granting permission, requirement of up-gradation also needs to be kept in view.

2.4 It is to be ensured that at no time there is interference with the drainage of the road land and maintenance of the National Highways. Towards this, the top of the utility services shall be at least 0.6 metre below the ground level.

2.5 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.

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2.6 In exceptional cases, where ROW is restricted the utility services can be allowed beneath the carriageway of service road, subject to the condition that the utility services be laid in concrete ducts, which will be designed to carry traffic on top. The width of the duct in such case shall not be less than one lane. In such cases, it also needs to be ensured that maintenance of the utility services shall not interfere with the safe and smooth flow of traffic. The cost of operation and maintenance will have to be borne by the Licensee as per the agreement.

3. Laying of Utility Services across the National Highway:

3.1 The utility services shall be permitted to cross the National Highway either through structure or conduits specially built for that purpose. The casing / conduit pipe should, as minimum, extend from drain to drain in cuts and toe of slope to toe of slope in the fills and shall be designed in accordance with the provision of IRC and executed following the Specifications of the Ministry.

3.2 Existing drainage structures shall not be allowed to carry the lines across.

3.3 The utility services shall cross the National Highway preferably on a line normal to it or as nearly so as practicable.

3.4 The casing/conduit pipe may be installed under the road embankment either by boring or digging a trench. Installation by boring method shall be preferred.

3.5 In case of trenching, the sides of the trench should be done as nearly vertical as possible. The trench width should be at least 30 cm wider, (but not more than 60 cm wider), than the outer diameter of the utility pipe. Filling of the trench shall conform to the specifications contained here-in-below or as supplied by the Highway Authority.

3.5.1 Bedding shall be to a depth not less than 30 cm. It shall consist of granular material, free of lumps, clods and cobbles, and graded to yield a firm surface without sudden change in the bearing value. Unsuitable soil and rock edges should be excavated and replaced by

3.5.2 The backfill shall be completed in two stages (i) Side-fill to the level of the top of the

pipe (ii) Overfill to the bottom of the road crust.

3.5.3 The side fill shall consist of granular material laid in 15 cm. Layers each consolidated by mechanical tamping and controlled addition of moisture to 95% of the modified Proctor's density. Overfill shall be compacted to the same density as the material that had been removed. Consolidation by saturation or ponding will not be permitted.

3.5.4 The road crust shall be built to the same strength as the existing crust on either side of

the trench or to thickness and specifications stipulated by the Highway Authority.

3.6 When utilities are allowed overhead, the horizontal and vertical clearance in accordance with the IRC shall be maintained.

4. Procedure for processing application for granting permission for use of highway land: Any person who intends to obtain permission shall make an application online in the prescribed form to Highway Administration or an officer authorized by Highway Administration on his behalf. The application must mention details the various safety clearances from the respective authorities such as Directorate of Electricity, Chief Controller of Explosives, Petroleum and Explosives Safety Organization, Oil Industry Safety

· V .

Directorate, State/Central Pollution Control Board and any other statutory clearances as applicable, which must be obtained by the Applicant before applying to the Highway Administration.

The application shall be put out in the public domain for 30 days for seeking claims and objections (on grounds of public inconvenience, safety and general public interest). The permission for laying utility services is to be normally granted within 30 days from the day of closure of public objections and claims. If no communication is received from the Highway Administration within 30 days from the day of closure of public objections and claims, the permission shall be deemed to be granted. The initial permission would be valid for a maximum of 5 years at a time, which can thereafter be considered for renewal. On payment of additional fee at the time of renewal, the permission shall automatically be renewed, unless defaults exist. In case of renewal, rate prevailing at the time of renewal shall be charged.

5. Charges for granting licence for use of highway land: For the purpose of license fee/lease rentals, the utilities have been divided into two categories; i) Public utilities and b) Industrial utilities as per the details given in **Annexure I**.

License Fee/lease rentals described below is for Industrial utilities. The license fee for Public utilities shall be 33% of the fee prescribed for Industrial utilities.

5.1 The following methodology shall be followed for license fees/lease rental determination for utility service lines other than localized infrastructure facilities like towers, repeaters and junction boxes).

License Fees (Rs/sq m/ month) = (Utilized NH land area X prevailing Circle Rate of land per unit area) / (10 x 12) where,

Utilized NH land area = Outer diameter/width of the concerned utility line X length

5.2 The following methodology shall be followed for license fees/lease rental determination for utility services such as towers/repeaters/ junction boxes etc.

License Fees (Rs/sq m/ month) = (Utilized NH land area X prevailing Circle Rate of land per unit area) / (10 x 12) where,

Utilized NH land area = Projection of utility on the ground including area of support system/tower

However, for public utilities, area below the support system/tower shall only be charged.

- 5.3 Fee shall have to be paid in advance for the period for which permission is granted. In case of renewal, rate prevailing at the time of renewal shall be charged. Delay in deposition of fee shall attract interest @ 15% per annum compounded annually.
- 5.4 A system to redress grievances and to consider relaxation from the guidelines, in exceptional cases, shall be notified separately and shall be effective from the date of notification.
- 6. All required restoration, maintenance work subsequent to laying of utility services shall be required to be undertaken by the Licensee at its cost either by itself or through its authorized representative in consultation with the Authority as per predetermined time schedule and quality standards. To process for the granting of permission and prior to signing of Lease agreement, a Performance Bank Guarantee for an amount based on per route metre with a validity of one year initially, in the prescribed format (extendable if required till satisfactory completion of work) shall have to be furnished by the utility service provider/ Licencee, as a security against improper restoration of ground in terms of

Mona Remon.

filling/unsatisfactory compaction damages caused to other underground installations/utility services & interference, interruption, disruption or failure caused thereof to any services etc.; Utility services such as pipes etc (rate in per m)

provided in the ducts already provided Rs 50 <= 300 mm dia/width Rs 100 > 300 mm dia/width but <=1000 mm Rs 250 > 1000 mm Rs 500 Utility services such as towers etc (rate in Rs per sq m) Rs 100

In case the Licensee fails to discharge the obligation of making good of the excavated trench/other restoration work, the Authority shall have a right to make good the damages caused by excavation, at the cost of the Licensee and recover the amount by forfeiture of the Bank Guarantee. 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.

Notwithstanding this, the Licensee shall be liable to pay full compensation to the aggrieved Authority/ its designated agency for any damage sustained by them by reason of the exercise of the RoW facility.

7. The Authority shall enter into a License Agreement with the respective utility service provider in the format enclosed (**Appendix**) including any other conditions imposed by Highway Administration, to ensure safe and uninterrupted flow of traffic. Post signing of the agreement, the utility service provider shall be designated as 'Licensee' for the purpose of this project and will be authorized to install and operate utility services within the NH RoW. However, utility services shall be made operational by the Licensee only after a completion certificate to the effect is issued by the Highway Administration.

Enclo: As above.

(Manoj Kumar)

Executive Engineer(NFSG) (S,R&T) (Roads)
For Director General (Road Development) & SS

Copy to:

- 1. All Technical Officers in the Ministry of Road Transport & Highways
- 2. All ROs and ELOs of the Ministry
- 3. The Secretary General, Indian Roads Congress
- 4. The Director, IAHE
- 5. Technical circular file of S&R (R) Section
- 6. NIC-for uploading on Ministry's website under "What's new"

Copy for kind information to:

- 7. PS to Hon'ble Minister (RTH&S)
- 8. PS to Hon'ble MOS (RTH&S)
- 9. Sr. PPS to Secretary (RT&H)
- 10. PPS to DG (RD) & SS
- 11. PPS to SS&FA
- 12. PS to ADG-I/ ADG-II
- 13. PS to JS (T)/ JS (H)/ JS (LA&C)/ JS (EIC)

Public Utility provider and Industrial infrastructure

A. Public Utility Provider

A **Public Utility Provider** in context of this Guideline shall mean any organization that provides and maintains the infrastructure for a public service like electricity, gas, water supply, telecom cables and sewage disposal subject to applicable regulation.

B. Eligible activities for Industrial Units or 'Industrial Infrastructure'

Industrial Infrastructure in context of this Guideline shall mean any physical infrastructure that is required to facilitate industrial operations and is constructed, operated and maintained along/across Right of Way of National Highways. Such infrastructure shall include the following:

- a. Underground & above ground pipelines including provisions for booster pumping facilities, maintenance bays and other required support infrastructure for transport of legally permitted materials for industrial usage by a business entity having valid license for industrial operations.
- b. Conveyor Belts including provisions for maintenance bays and other required support infrastructure for transport of legally permitted materials, by a business entity having valid license for industrial operations.
- c. Power cables/wires etc. meant for industrial usage by a business entity having valid license for industrial operations.
- d. Any other such associated industrial infrastructure facility.

Draft

Enclosure to Ministry of Road Transport & Highways letter No. 33044 / 29 / 2015 /S&R(R) dated 22,11,2016.

AGREEMENT REGARDING GRANTING OF RIGHT OF WAY PERMISSIONS

FOR LAYING UTILITY SERVICES ON NATIONAL HIGHWAYS

Agı	reement to lay	Telecom cable	/ OFC cable	/ electrical	cable / pipe line/ ducts	s etc.
from	to	Km of		land.		
Thi	s Agreement m	ade this	day of_		(month)	of
		acting in his				
					shall unless excluded b	v or
repugnant	to the context,	include his suc	ccessors in o	ffice and a	ssigns) on the one part,	and
M/s	, a co	mpany register	ed under the	Companie	es Act, 1956 and havin	o its
Registered	Office at	(hereinafter	called the	"Licensee	") which expression	shall
unless excl	uded by repug	nant to the con	ntext, include	his succes	sors/administrator assig	nees
on the seco	nd part.				soro administrator assig	nees
Wh	ereas the Auth	arity is respons	ible interali	a for days	lopment and maintenance	e.
lands in Ki	m to	of NH Nol	RoW.	a, for deve	opment and maintenant	e or
Wh	ereas the Licer	isee proposes to	o lay Telecor	n cable / O	FC cable / electrical ca	ble /
pipe line /	ducts etc. refe	rred to as utility	services in s	subsequent	paras.	
Whe	ereas the Lice	nsee has annli	ed to the A	uthority fo	or permission to lay ut	+:1:+··
services fro	m Km	to Kn	n	of road	route up to	inty
and from ki	m	to km	of road	route up to		-0.5
		- 10 1111	0110000	route up to		
And	l whereas the A	Authority has ag	greed to gran	t such pern	nission for way leave or	the
NH RoW a	s per terms and	conditions here	einafter ment	ioned.	**	
Nov	v this agreeme	ent witnesseth	that in consi	deration o	f the conditions herein	after
contained a	nd on the part	of the Licensee	to be observe	ed and perfe	ormed, the Authority her	rehv
grants to the	e Licensee pen	mission to lav u	itility service	s as per the	approved drawing attac	shed
hereto subje	ect to the follow	ving conditions.	, namely.	- mo bot me	approved drawing attac	,HÇU

1. RoW permissions are only enabling in nature. The purpose of extending the way leave facility on the National Highway RoW is not for enhancing the scope of activity of a utility service provider, either by content or by intent. Further, enforceability of the permission so granted shall be restricted only to the extent of provisions/scope of activities defined in the license agreement & for the purpose for which it is granted.

- 2. No Licensee shall claim exclusive right on the RoW and any subsequent user will be permitted to use the RoW, either above or below, or by the side of the utilities laid by the first user, subject to technical requirements being fulfilled. Decision of the Authority in relation to fulfilment of technical requirements shall be final and binding on all concerned parties. In case any disruption/damage is caused to any existing user by the subsequent user, the Authority shall not be held accountable or liable in any manner.
- 3. The Licensee shall be responsible for undertaking all activities including, but not limited to site identification, survey, design, engineering, arranging finance, project management, obtaining regulatory approvals & necessary clearances, supply of equipment, material, construction, erection, testing and commissioning, maintenance and operation and all other activities essential or required for efficient functioning of their own utility/ industrial infrastructure facilities.
- 4. The Licensee shall pay license fees @ Rs/sq m/month to the Authority. The License fee shall become payable from the date of handing over of RoW land to the Licensee, for laying of utilities/cables/conduits/pipelines for infrastructure/ service provider. As regards Tariff and Terms and conditions for providing common utility ducts along National Highways, there shall be a separate agreement regime.
- 5. Fee shall have to be paid in advance for the period for which permission is granted for entering into a license agreement. In case of renewal, rate prevailing at the time of renewal shall be charged. Delay in deposition of fee shall attract interest @ 15% per annum compounded annually.
- Present policy of the MoRT&H is to provide a 2.00 m wide utility corridor on either side of the extreme edge of RoW. In cases where utility ducts with sufficient space are already available along NH, the utility services shall be laid in such ducts subject to technical requirements being fulfilled.
- 7. The utility services shall be laid at the edge of the RoW. In case of restricted width of RoW, which may be adequate only to accommodate the carriageway, central verge, shoulders, slopes of embankment, drains, other road side furniture etc; the utility services shall be laid beyond the toe line of the embankments and clear of the drain.
- 8. The Licensee shall make his own arrangement for crossing of cross drainage structure, rivers, etc. below the bed. In case, this is not feasible, the utility services may be carried outside the railings/parapets and the bridge superstructure. The fixing and supporting arrangement with all details shall be required to be approved in advance from the concerned Highway Administration. Additional cost on account of fixing and supporting arrangement as assessed by the Authority shall be payable by the Licensee.

- 9. In exceptional cases, where RoW is restricted the utility services can be allowed beneath the carriageway of service road, if available, subject to the condition that the utility services be laid in concrete ducts, which will be designed to carry traffic on top. The width of the duct shall not be less than one lane. In such cases, it also needs to ensure that maintenance of the utility services shall not interfere with the safe and smooth flow of traffic. The cost of operation and maintenance will have to be borne by the Licensee.
- 10. It is to be ensured that at no time there is interference with the drainage of the road land and maintenance of the National Highways. Towards this, the top of the utility services shall be at least 0.6 metre below the ground level. However, any structure above ground shall be aesthetically provided for / landscaped with required safety measures as directed by the concerned Authority;
- 11. The utility services shall be permitted to cross the National Highway either through structure or conduits specially built for that purpose. The casing / conduit pipe should, as minimum, extend from drain to drain in cuts and toe of slope to toe of slope in the fills and shall be designed in accordance with the provision of IRC and executed following the Specifications of the Ministry.
- 12. Existing drainage structures shall not be allowed to carry the lines across.
- 13. The top of the casing/conduit pipe containing the utility services to cross the road shall be at least 1.2m below the top of the sub grade or the existing ground level whichever is lower, subject to being at lease 0.3m below the drain inverts. A typical sketch showing the clearances is given in Attachment-I.
- 14. The utility services shall cross the National Highway preferable on a line normal to it or as nearly so as practicable.
- 15. The casing/conduit pipe for crossing the road may be installed under the road embankment either by boring or digging a trench. Installation by boring method shall be preferred.
- 16. In case of trenching, the sides of the trench should be done as nearly vertical as possible. The trench width should be at least 30 cm. but not more than 60 cms wider than the outer diameter of the pipe. Filling of the trench shall conform to the specifications contained here-in-below or as supplied by the Highway Authority.
 - a. Bedding shall be to a depth not less than 30 cm. It shall consist of granular material, free of lumps, clods and cobbles, and graded to yield a firm surface without sudden change in the bearing value. Unsuitable soil and rock edges should be excavated and replaced by selected material.

- The backfill shall be completed in two stages (i) Side-fill to the level of the top of the pipe (ii) Overfill to the bottom of the road crust.
- c. The side fill shall consist of granular material laid in 15 cm. Layers each consolidated by mechanical tamping and controlled addition of moisture to 95% of the Proctor's Density. Overfill shall be compacted to the same density as the material that had been removed. Consolidation by saturation or ponding will not be permitted.
- d. The road crust shall be built to the same strength as the existing crust on either side of the trench or to thickness and specifications stipulated by the Highway Authority.
- 17. The Licensee shall ensure making good the excavated trench for laying utility services by proper filling and compaction, so as to restore the land in to the same condition as it was before digging the trench, clearing debris/loose earth produced due to execution of trenching at least 50m away from the edge of the right of way;
- 18. All required restoration work subsequent to laying of the cable shall be required to be undertaken by the Licensee at its cost either by itself or through its authorized representative in consultation with the Authority as per predetermined time schedule and quality standards.
- 19. Prior to commencement of any work on the ground, a performance Bank Guarantee @ Rs. per route metre / Rs per sq m with a validity of one year initially (extendable if required till satisfactory completion of work) shall have to be furnished by the Licensee to the Authority/its designated agency as a security against improper restoration of ground in terms of filling/unsatisfactory compaction damages caused to other underground installations/utility services & interference, interruption, disruption or failure caused thereof to any services etc. In case of the Licensee failing to discharge the obligation of making good of the excavated trench/other restoration work, the Authority shall have a right to make good the damages caused by excavation, at the cost of the Licensee and recover the amount by forfeiture of the Bank Guarantee.
- 20. In case, the Performance Bank Guarantee is invoked as mentioned above, the Licensee shall be required to replenish and reinstate the required Performance Bank Guarantee within one month of such invoking. In case the work contemplated herein is not completed to the satisfaction of the Authority, which has granted the permission, within a period of 11 months from the date of issue of the Bank Guarantee, the Licensee shall either furnish a fresh guarantee or extend the guarantee for a further period of one year. Notwithstanding this, the Licensee shall be liable to pay full compensation to the aggrieved Authority/ its designated agency for any damage sustained by them by reason of the exercise of the RoW facility;

- 21. The Licensee shall shift the utility services within 90 days (or as specified by the respective Authority) from the date of issue of the notice by the concerned Authority to shift/relocate the utility services, in case it is so required for the purpose of improvement/widening of the road/route/highway or construction of flyover/bridge and restore the road/land to its original condition at his own cost and risk.
- 22. The Licensee shall be responsible to ascertain from the respective agency in coordination with Authority, regarding the location of other utilities /underground installations/ facilities etc. The Licensee shall ensure the safety and security of already existing underground installations/utilities/facilities etc. before commencement of the excavation/using the existing cable ducts. The Licensee shall procure insurance from a reputed insurance company against damages to already existing underground installations/utilities/facilities etc.
- 23. The Licensee shall be solely responsible/ liable for full compensation/indemnification of concerned agency / aggrieved Authority for any direct, indirect or consequential damage caused to them/claims or replacements sought for, at the cost and risk of the Licensee. The concerned agency in coordination with Authority shall also have a right make good such damages/ recover the claims by forfeiture of Bank Guarantee.
- 24. If the Licensee fails to comply with any condition to the satisfaction of the Authority, the same shall be executed by the Authority at the cost and risk of the Licensee.
- 25. Grant of License is subject to the Licensee satisfying (a) minimum disruption of traffic and (b) no damage to the highways. As far as possible, the Licensee should avoid cutting of the road for crossing highway, and other roads and try to carry out the work by trenchless technology. In case any damage is caused to the road pavement in this process, the Licensee will be required to restore the road to the original condition at its cost. If due to unavoidable reasons the road needs to be cut for crossing or laying utility services, the Licensee has to execute the restoration work in a time bound manner at its cost either by itself or through its authorized representative in consultation with the Authority as per predetermined time schedule and quality standards. In case of the Licensee failing to discharge the obligation of making good of the excavated trench/other restoration work, the Authority shall have a right to make good the damages caused by excavation, at the cost of the Licensee and recover the amount by forfeiture of the Bank Guarantee.
- 26. The Licensee shall inform/give a notice to the concerned agency designated by the Authority at least 15 day in advance with route details prior to digging trenches,

- for fresh or maintenance/repair works. A separate performance Bank Guarantee for maintenance/repair works shall have to be furnished by the Licensee.
- 27. Each day, the extent of digging the trenches should be strictly regulated so that utility services is laid and trenches filled up before the close of the work that day. Filling should be completed to the satisfaction of the concerned agency designated by the Authority.
- 28. The licensee shall indemnify the concerned agency in co-ordination with Authority, against all damages and claims, if any due to the digging of trenches for laying cables/ducts.
- 29. The permission for laying utility services is granted maximum for 5 years at a time, which can thereafter be considered for renewal. On payment of additional fee at the time of renewal, the permission shall automatically be renewed, unless defaults exist. In case of renewal, rate prevailing at the time of renewal shall be charged. Delay in deposition of fee shall attract interest @ 15% per annum compounded annually.
- 30. The permission shall be valid only for the period it is issued and fee deposited. However, the Authority also has a right to terminate the permission or to extend the period of Agreement.
- 31. That the Licensee shall not undertake any work of shifting, repairs or alterations to the utility services without prior written permission of the concerned agency in coordination with the Authority.
- 32. The permission granted shall not in any way be deemed to convey to the Licensee any ownership right or any interest in route/road/highway land /property, other than what is herein expressly granted. No use of NH RoW will be permitted for any purpose other than that specified in the Agreement.
- 33. During the subsistence of this Agreement, the utility services located in highway land / property shall be deemed to have been constructed and continued only by the consent and permission of the Authority so that the right of the Licensee to the use thereof shall not become absolute and indefeasible by lapse of time.
- 34. The Licensee shall bear the Stamp Duty charged on this Agreement.
- 35. Three copies of 'as laid drawings' of utilities (hard and soft copies) with geo-tagged photographs and geo-tagged video recordings of laying of cables in the trench (with respect to the NH) and after complete restoration shall be submitted to the Authority for verification and record within a month of completion of works.
- 36. The Licensee shall allow free access to the Site at all times to the authorised representatives of Authority to inspect the Project Facilities and to investigate any

matter within their Authority, and upon reasonable notice, shall provide reasonable assistance necessary to carry out their respective duties and functions.

- 37. The utility services shall not be made operational by the Licensee unless a completion certificate to the effect that the utility services has been laid in accordance with the approved specifications and drawings and the trenches have been filled up to the satisfaction of the concerned agency in co-ordination with the Authority has been obtained. Notwithstanding anything contained herein, this Agreement may be cancelled at any time by Authority for breach of any condition of the same and the Licensee shall neither be entitled to any compensation for any loss caused to it by such cancellation not shall it be absolved from any liability already incurred.
- 38. The Licensee shall ensure adherence to relevant Indian standards and follow best industry practices, methods and standards for the purpose of ensuring the safe, efficient and economic design, construction, commissioning, operation, repair and maintenance of any part of the utility lines/industrial infrastructure facilities and which practices, methods and standards shall be adjusted as necessary, to take account of:
 - a. operation, repair and maintenance guidelines given by the manufacturers,
 - b. the requirements of Law,
 - c. the physical conditions at the Site, and
 - d. The safety of operating personnel and human beings.
- 39. The Licensee shall have to provide safety measures like barricading, danger lighting and other necessary caution boards while executing the work.
- 40. While laying utility services, at least one lane of road shall be kept open to traffic at all times. In case of single lane roads, a diversion shall be constructed. If any traffic diversion works are found necessary during the working period such diversion shall be provided at the cost of Licensee.
- 41. After the termination/expiry of the agreement, the Licensee shall remove the utility services within 90 days and the site shall be brought back to the original condition failing which the Licensee will lose the right to remove the utility services. However before taking up the work of removal of utility services the Licensee shall furnish a Bank Guarantee to the Authority for a period of one year for an amount assessed by the Authority as a security for making good the excavated trench by proper filling and compaction, clearing debris, loose earth produced due to excavation of trenching at least 50m away from the edge of the RoW.
- 42. Any disputes in interpretation of the terms and conditions of this Agreement or their implementation shall be referred to the redress mechanism prevailing in the Ministry and the decision of the redress mechanism shall be final and binding on all.

43. For PPP Projects, in case of any financial loss incurred by the respective project concessionaires due to such laying/shifting of utility services by the Licensee, compensation for the same shall be required to be borne by the Licensee in mutual agreement with the respective project concessionaires. MoRT&H/ NHAI/ implementing authorities for the project shall not be liable to the concessionaire in any way in this regard.

This agreement has been made in duplicate, each on a Stamp Paper, Each party to this Agreement has retained one stamped copy each.

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

CARROLLES CODEST - A HATEK			
SIGNED SEALED AT	ND DELIVERED	FOR AND ON E	BEHALF OF AUTHORITY.
BY SHRL			
(Signature, name & ad	ldress with stamp)		
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HOLDER OF GENER	AL POWER OF A		OU SECTION SEC
DATED			OF DIRECTORS IN THE
MEETING HELD ON		IIIE BOARD	OF DIRECTORS IN THE
IN THE PRESENCE (OF (WITNESSES)	i:	
1.			

Attachment I

Enclosure to Ministry of Road Transport & Highways letter No RW/NH-33044/ 29/2015)-56@@ dated 22.11.16.

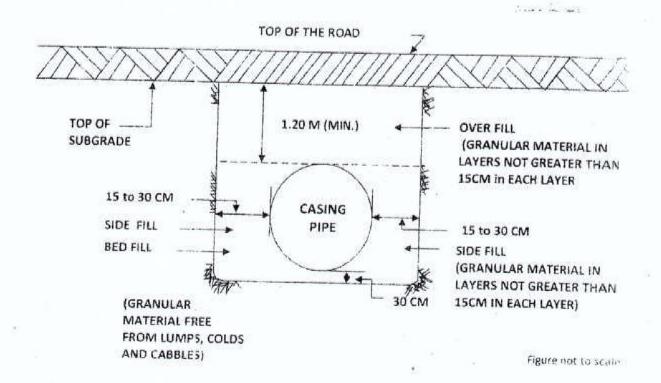


FIGURE-1 INSTALLATION OF CASING PIPE FOR CROSSING THE ROAD