



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन एवं राजमार्ग मंत्रालय, भारत सरकार)

National Highways Authority of India

(Ministry of Road Transport & Highways, Govt. Of India)

क्षेत्रीय कार्यालय, उ०प्र०(पूर्व) वाराणसी

Regional Office - U.P. (East), Varanasi

एस- 2/656, ए-3 बी, वरुणा विहार कालोनी, द्वितीय एवं तृतीय तल, वन प्लेस टावर
(जे०पी० मेहता सीनियर सेकेंडरी स्कूल के पीछे), सिकरौल, वाराणसी-221002 (उ०प्र०)

S-2/656, A-3B, Varuna Vihar Colony, 2nd & 3rd floor, one place Tower

(Behind J.P. Mehta Sr. Secondary School), Sikraul Varanasi-221002 (U.P.)

No. 14011/42/RO/UP(E)/2020/1789



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: rovaransi@nhai.org

वेबसाइट/Website : www.nhai.org

Date: 11.05.2020

Invitation of Public Comments

Sub.: Proposal for granting permission for crossing of MDPE Gas Pipeline in between KM 16.750 (Shaheed Path) to KM 16.800 (BR Ambedkar University) of NH-27 (Old NH-28, NH-56A & NH-56B) by M/s Green Gas Limited, Lucknow in the State of Uttar Pradesh.

The Manager (Projects), Green Gas Limited, Lucknow has submitted the proposal for granting permission for crossing of MDPE Gas Pipeline from KM 17.750 (Shaheed Path) to KM 16.800 (BR Ambedkar University) of NH-27 (Old NH-28, NH-56A & NH-56B) in the State of Uttar Pradesh.

2. From the submitted proposal, it is seen that the ROW of NH at crossing location is 60M. The MDPE pipeline is proposed to cross in between KM 16.750 to KM 16.800 of NH-27 (Old NH-28, NH-56A & B). The Project highway at the utility crossing location is 4-lane + both side service roads. The utility is proposed to cross along the congested areas using HDD method, without disturbing ground surface/service roads, with appropriate Machine Capacity such that around 500M of Pipeline will be pulled in a single stretch

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).

4. 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

The Chief General Manager cum Regional Officer,
National Highways Authority of India
Regional Office, UP-East, Varanasi
S-2/656, A-3B, Varuna Vihar Colony,
2nd & 3rd Floor, One Place Tower,
Behind J.P. Mehta Sr. Secondary School,
Sikraul, Varanasi-221002

Encl: As above

(C.M. Dwivedi)
General Manager (Tech.)

Copy to:

- Web Admin, NHAI-HQ-with request for uploading on the NHAI website
- The Technical Director, NIC, Transport Bhawan, New Delhi - with request for uploading on the Ministry's website.
- Manager (Projects), Green Gas Limited, Lucknow for information please
- The Project Director, NHAI, PIU-Lucknow- for information & necessary action please.



ग्रीन गैस लिमिटेड

(गेल (इंडिया) लिमिटेड एवं इंडियन ऑयल कॉर्पोरेशन लि. का संयुक्त उद्यम)

GREEN GAS LIMITED

(A joint venture of GAIL (India) Ltd. & Indian Oil Corporation Ltd.)

द्वितीय तल, फॉरच्युना टावर, 10 राणा प्रताप मार्ग, लखनऊ (उ.प्र.) - 226 001

2nd Floor, Fortuna Tower, 10 Rana Pratap Marg, Lucknow (U.P.) 226 001

CIN No. U23201UP2005PLC030834

For better environment
and clean air to breathe

GGL/LKO/PROJECT/NHAI/ 40

Date: 05.07.2019

To,
The Project Director,
NHAI, Project Implementation Unit Lucknow,
3/248, Vishal Khand, Gomti Nagar,
Lucknow.

Sub: Submission of documents required for permission of MDPE crossing from ch.16+750 (Saheed Path) to ch.16+800 (B.R. Ambedkar University)

Dear Sir,

Green Gas Limited is a Joint Venture Company of GAIL India Limited and IOCL incorporated on the directives of ministry of petroleum & natural gas for implementation of City Gas Distribution Project in Lucknow & Agra to reduce airborne pollution level for the good of public health, in compliance with the orders of Hon. Supreme Court.

In the process of implementing City Gas Distribution (CGD) Project in Lucknow, Green Gas Limited has planned to cross NH-230(56A,56 B) at Ch. 16+750 to Ch.16+800 of approx. length 100mtrs.by Horizontal Direction Drilling (HDD) method to lay 125mm MDPE pipe for supplying Piped PNG to domestic, household and commercial customers at this adjoining area. The documents enclosed for the same are as follows:-

1. Approach note on CGD Project by GGL
2. Licence deed
3. Check list
4. Methodology of HDD
5. Annexure-I and Annexure-II
6. Authorization document for NHAI
7. Format for maintaining records of ROW permission granted for laying of gas pipeline

We, therefore, request you to kindly do further processing in granting expeditious permission to GGL for the laying of pipeline.

Thanking You.

Regards,

[Chanchal Lohiya]
Manager (Projects, O&M)

Encl. As above

CHANCHAL LOHIYA
Manager (P.O&M)
GREEN GAS LIMITED
(A JV of GAIL & IOCL)
LUCKNOW

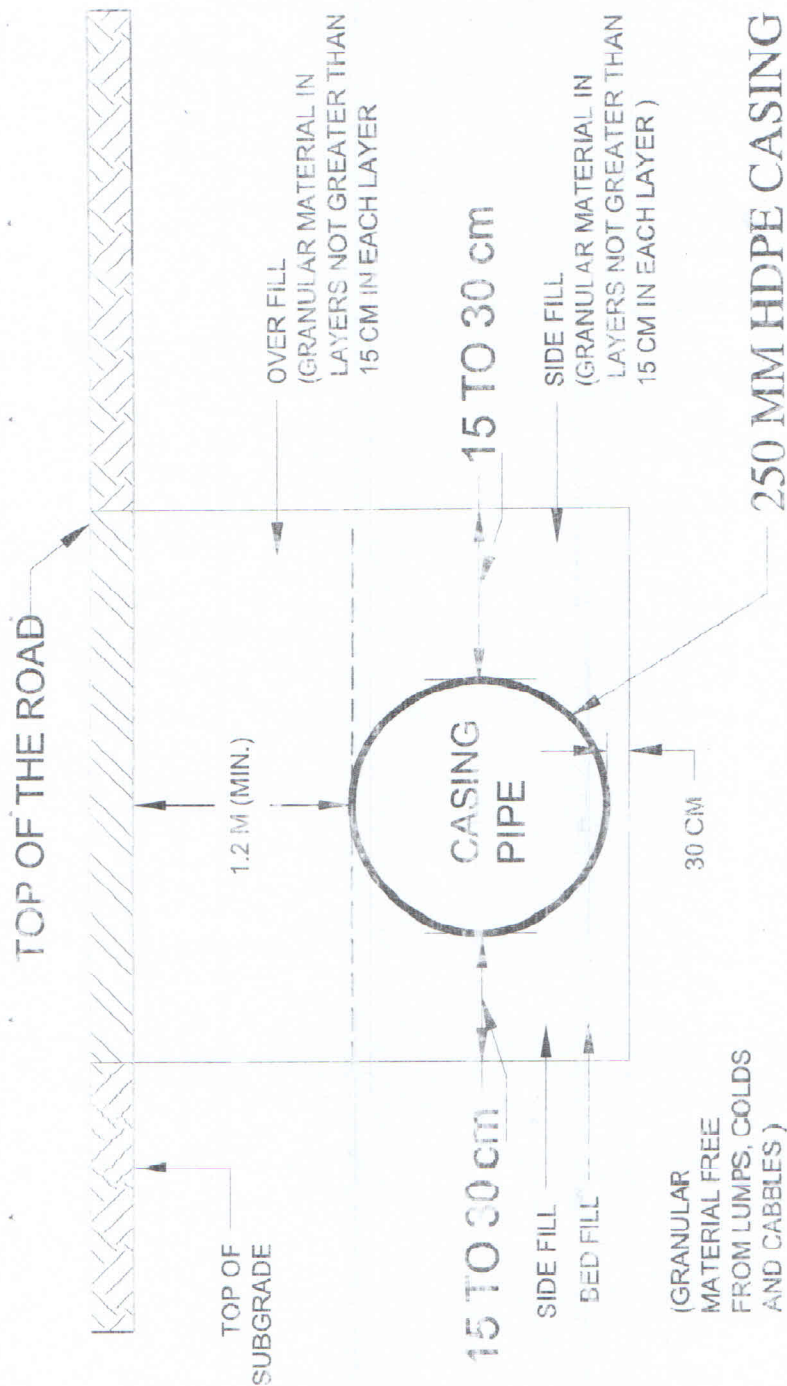
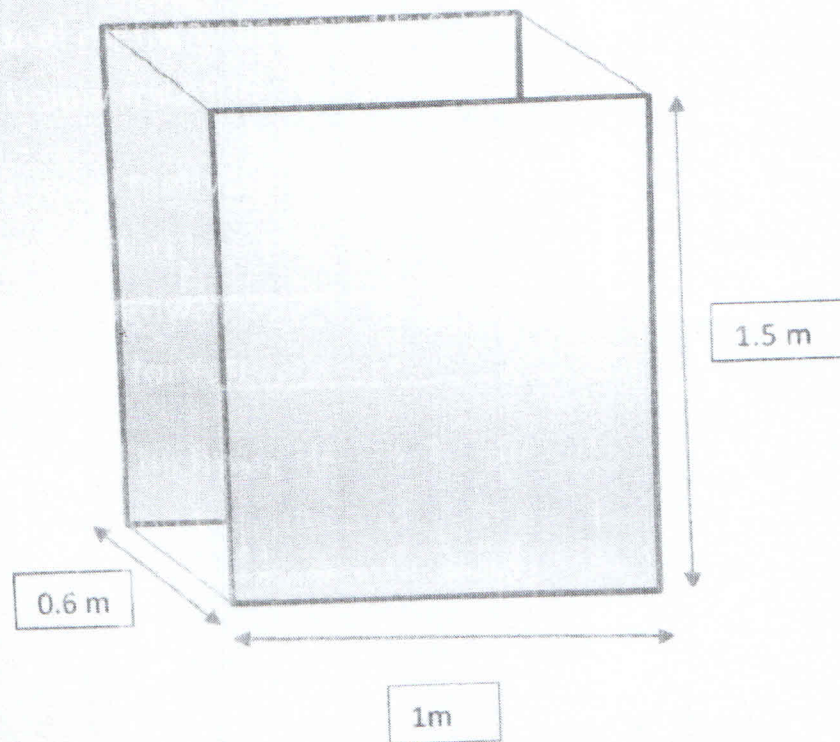


FIGURE 1. INSTALLATION OF CASING PIPE FOR CROSSING THE ROAD

NH Crossing Methodology

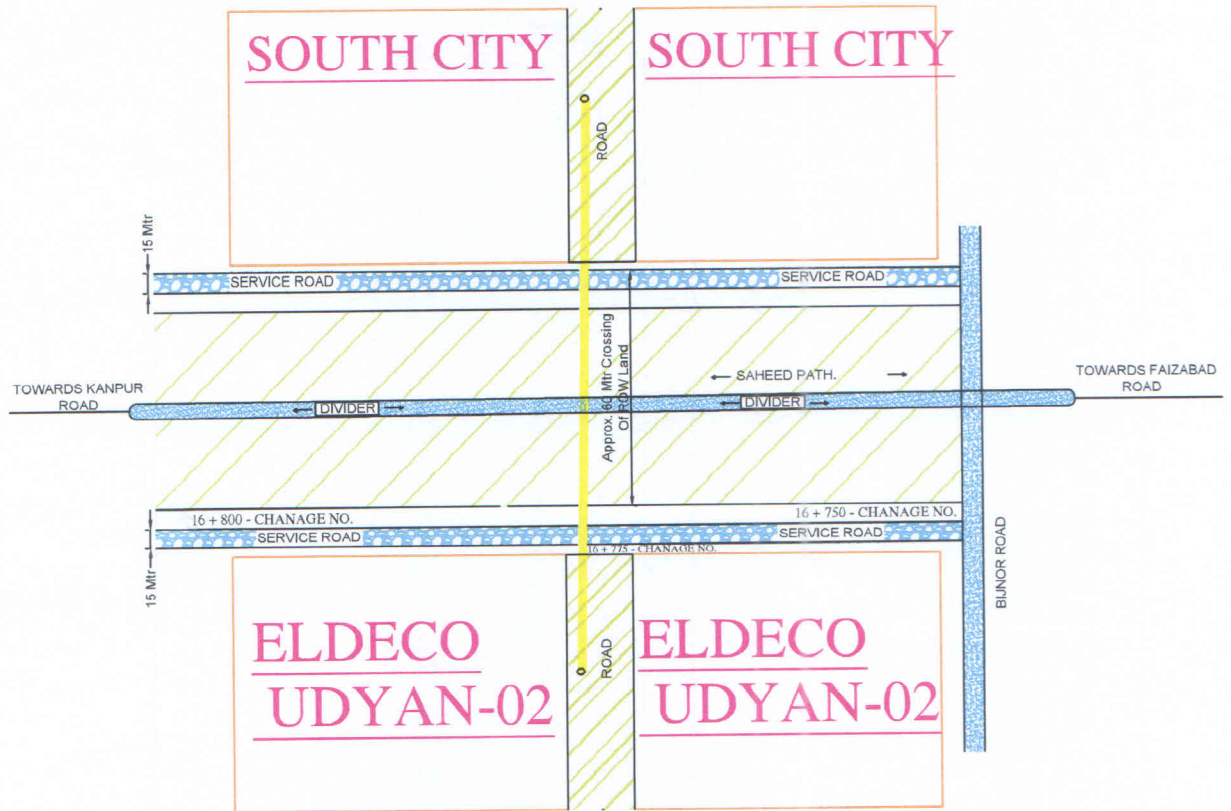
For crossing of National highway Horizontal directional drilling (HDD) method is being used. In this method two pits (Entry pit and Exit pit) would be excavated both side of national Highway having dimension as $1\text{m} \times 0.6\text{m} \times 1.5\text{m}$. (Indicative picture is shown below for reference.)



After Entry pit and exit pit are excavated then, Installation of a pipeline by HDD is generally accomplished in three stages. The first stage consists of directionally drilling a small diameter pilot hole along a designed directional path. The second stage involves making this pilot hole appropriate to a diameter suitable for installation of the pipeline. The third stage consists of pulling the pipeline back into the hole.

The pictorial representation of all the 3 stages are shown below for ready reference.

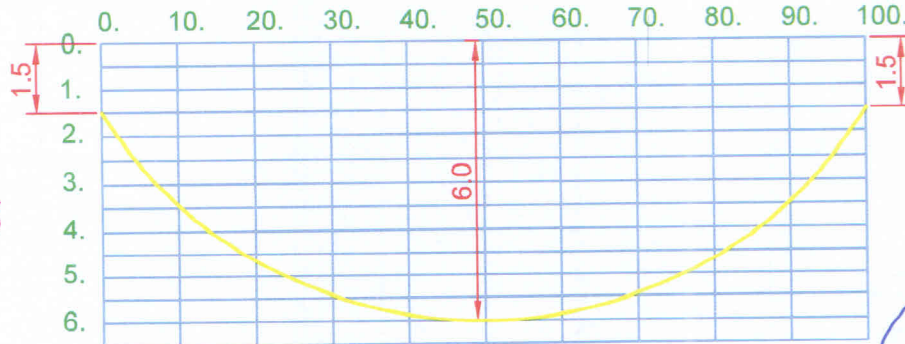
NH-230(56A,56B) SAHEEDPATH, CH. NO.- 16+750 TO 16+800



**TENTITIVE HDD
PROFILE:-**

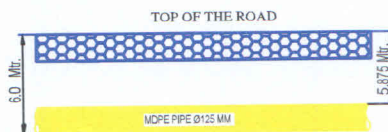
**EXIT
PIT=1.5**

**MAX= 6
MIN= 1.5**



**ENTRY
PIT=1.5**

[Signature]
**Dy Manager (Tech)
NHAI, PIU, Lucknow**



[Signature]
**CHANCHAL LOHIYA
Manager (p.o&m)
GREEN GAS LIMITED
(A JV of GAIL & IOCL)
LUCKNOW**

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(A JOINT VENTURE OF GAIL (INDIA) LTD. & IOCL)

CHECK -LIST

Guidelines for Project Directors for processing the proposal for laying of Gas Pipe line in the land along National Highways vested with NHAI.

Relevant circulars of Ministry of Road Transport and Highways

- 1) Circular No. NH-III/P/66/76 dated 18/19.11.1976
- 2) Circular No. RW/NH-III/P/66/76 dated 11.5.1982
- 3) Circular No. RW/NH-11037/1/86-DOI (ii) dated 28.7.1993
- 4) Circular No. RW/NH-11037/1/86/DOI dated 19.1.1995
- 5) Circular No. RW/NH-34066/2/95/ S&R dated 25.10.1999
- 6) Circular No. RW/NH-34066/7/2003 S&R (B) dated 17.9.2003
- 7) Circular No. RW/NH-33044/29/2015/ S&R (R) dated 22.11.2016

Check list for getting approval for laying of Gas Pipe Line on NH land (To be filled by the PIU)

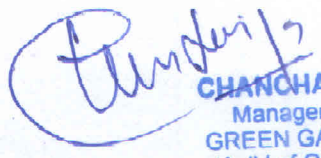
The permission for laying of Gas Pipe Line shall be considered for approval /rejection based on the Ministry Circulars mentioned as above.


(a) Carrying of swage/gas pipelines on Highway Bridges shall not be permitted as Fumes/gases pipes can accelerate the process of corrosion or may cause explosions, thus, being much more injurious than leakage of water.

(b) Services are not being allowed indiscriminately on the parapet/any part of the bridges. Safety of the bridges has to be kept in view while permitting various services along bridge.

S. No.	Item	Information/ Status	Remarks
1	General Information		
1.1	Name and Address of the Applicant/Agency	Green Gas Ltd. Fortuna Tower, 2 nd Floor, 10 Rana Pratap Marg, Lucknow-226001	
1.2	National Highway Number	NH-230 (56A, 56B)	
1.3	State	Uttar Pradesh	
1.4	Location	NH-230 (56A,56B) (Perpendicular to Shaheed Path road near Ambedkar University)	
1.5	(Chainage No)	Ch. No 16+750 to 16+800	
1.6	Length in Meters	100 mtrs (approx)	
1.7	Width of available ROW	Yes	
	(a) Left side from center line towards increasing chainage / km direction.	Ch. No 16+750 to 16+800	
	(b) Right side from center line towards increasing chainage/ km direction	N/A	


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Dy. Manager (Tech.)
National Highways Authority of India
Project Implementation Unit, Lucknow
3/248, Vishal Khand, Gomti Nagar, Lucknow


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राजमार्ग एवं राजधानी मंत्रालय, भारत सरकार
3/248, विशाल खण्ड, गौमती नगर, लखनऊ

1.8	Proposal to lay underground Pipeline	Yes	
	(a) left side from center line towards increasing chainage/ km direction	Ch. No 16+750 to 16+800	
	(b) Right side from center line towards increasing chainage/ km direction	Not applicable	
1.9	Proposal to acquire land		
	(a) Left side from center line	Not applicable	
	(b) Right side from center line	Not applicable	
1.10	Whether proposal is in the same side where land is not to be acquired	Yes	
	If not then where to lay the cable		
1.11	Details of already laid services, if any, along the Proposed route	No	
1.12	Number of existing lanes (2/4 / 6/8 lanes)	4 Lane	
1.13	Proposed Number of lanes (2 lane with paved shoulders/4/ 6/8 lanes)	Already four Lane	
1.14	Service road existing or not	Yes	
	If yes then which side		
	(a) Left side from center line		
	(b) Right side from center line	Yes	
1.15	Proposed Service road		
	(a) Left side from center line	Yes	
	(b) Right side form center line	Yes	
1.16	Whether proposal to lay Gas Pipe Line is after the service road or between the service road and main carriageway	After the Service Road (entry and exit pits are in nagar nigam area)	
1.17	Whether carrying of sewage / gas pipeline has been proposed on highway Bridges. If Yes. Then mention the methodology proposed for the same.	No	N/A
1.18	Whether carrying sewage / gas pipeline has been proposed on the parapet/any part of the Bridges. If Yes, then mention the methodology proposed for the same.	No	N/A
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 that purpose at the expenses of the agency owning the line.	Yes, Gas pipe line shall be crossed in HDPE casing.	
	(a) Whether existing drainage structures are allowed to carry sewage /gas pipeline	N/A	
	(b) is it on a line normal to NH	Yes	
	(c) What is the distance of crossing the sewage/gas pipelines from the existing	No structure existing	



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	structures. Crossings shall not be too near the existing structures on the National Highway, the minimum distance being 15 Meter.	nearby.	
	(d) the casing pipe (or conduit pipe in the case of electric cable) carrying the utility line 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.	No	
	(e) Ends of the casing/conduit pipe shall be sealed from the outside, so that it does not act as a drainage path.	Yes	
	(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 should be at least 3 meter below the surface of the road subject to being at least 0.5 m below the drain inverts. Mention the proposed details.	Yes	
	(h) Mention the methodology proposed for crossing of road for the proposed Sewage/ gas pipe line. Crossing shall be by boring method (HDD) [Trenchless Technology], specially where the existing road pavement is of cement concrete or dense bituminous concrete type.	HDD	
	(i) The casing/conduit pipe shall be installed with and even bearing throughout its length and in such a manner as to prevent the formation of a waterway along it.	N / A	
2	Document / Drawings to be enclosed with the proposal		
2.1	Cross section showing the size of trench for open trenching method (is it normal size of 1.2m deep X 0.3m wide) (i) Should not be greater than 60 Cm wider than the outer diameter of the pipe (ii) located as close to the extreme edge of the right-of-way as possible but not less than 15 meter from the centre-lines of the nearest carriageway (iii) Shall not be permitted to run along the National Highways when the road formation is situated in double cutting. Nor shall these	N / A	

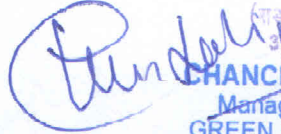

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 एवं राजमार्ग मंत्रालय, भारत सरकार
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	be laid over the existing culverts and bridges. (iv) These should be so laid that their top is at least 0.6 meter below the ground level so as not to obstruct drainage of the road land.		
2.2	Cross section showing the size of pit and location of pipe for HDD method	Yes	
2.3	Strip plan/ route Plan showing Gas pipe line, Chainage, width of Row, distance of proposed Gas pipe line from the edge of ROW, important mile stone, intersections, cross drainage works etc.	Enclosed	Site Survey Drawings are enclosed
2.4	Methodology for laying of Gas pipe line.	Yes	
2.4.1	Open trenching method. (May be allowed in utility corridor only where pavement is neither cement concrete nor dense bituminous concrete type. If Yes, what is the Methodology of refilling of trench	N/A	
	(a) The trench width should be at least 30 cm, but not more than 60 cm wider than the outer diameter of the pipe.	N/A	
	(b) For filling of the trench, Bedding shall be to a depth of 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 edged should be excavated and replaced by selected material.	N/A	
	(c) The backfill shall be completed in two stages (i) side-fill to the level of the top of the pipe and (ii) overfill to the bottom of the road crust.	N/A	
	(d) The side fill shall consist of granular material laid in 15 cm layers each consolidated by mechanical tampering 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 pounding will not be permitted.	N/A	
	(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.	N/A	


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	(f) The excavation shall be protected by flagman, signs and barricades, and red lights during night hours.	N/A	
	(g) If required, a diversion shall be constructed at the expense of agency owning the utility line.	N/A	
2.4.2	Horizontal Directional Drilling (HDD) Method	Yes	
2.4.3	Methodology for laying of Gas Pipe Line Through CD works and method of laying. In cases where the carrying of gas pipe line on the bridge becomes inescapable.	N/A	
3	Draft License Agreement signed by two witnesses	Enclosed	On Rs. 100 Non Judiciary Stamp Paper
4	Performance Bank Guarantee in favor of NHAI has to be obtained @ Rs 100/-per running meter as a security for ensuring/making good the excavated trench for laying the Gas pipe line/ducts by proper filling and compaction, clearing debris/lose earth produced due to execution of trenching at least 50m away from the edge of the right of way. No payment shall be payable by the NHAI to the licensee for clearing debris/loose earth. Performance BG as per above is to be obtained.	Submitted	Submitted
5	Affidavit / Undertaking from the Applicant for the following is to be furnished		
5.1	Not to Damage to other utility, if damaged then to pay the losses either to NHAI or to the concerned agency.	Enclosed	
5.2	For Renewal of Bank Guarantee.	Yes	
5.3	For Confirming all standard condition of Ministry Circulars and NHAI's guideline.	Enclosed	
5.4	For Shifting of Gas pipe line as and when required by NHAI at their own cost	Enclosed	
5.5	For Shifting of Gas pipe line due to 6 lanning / widening of NH	Enclosed	
5.6	For Indemnity against all damages and claims	Enclosed	
5.7	For Traffic movement during laying of Gas pipe line to be managed by the applicant.	Enclosed	
5.8	If any claim is raised by the Concessionaire, then the same has to be paid by the applicant.	Enclosed	
5.9	Prior approval of the NHAI shall be obtained before undertaking any work of installation,	Enclosed	


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 (बृहत् परिवहन एवं राजमार्ग मंत्रालय, भारत सरकार)
 248 विद्याल खण्ड, गौमती नगर, लखनऊ
CHANCHAL LOHIYA
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GREEN GAS LIMITED
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 LUCKNOW

	shifting or repairs, or alterations to the Gas pipe line/any other utility located in the National highway right-of ways.		
5.10	Expenditure, if any, incurred by NHAI for repairing any damage caused to the National Highway by the laying, Maintenance or shifting of the Gas pipe line will be borne by the applicant agency owning the line.	Enclosed	
5.11	If the NHAI considers it necessary in future to move the utility line for any work of improvement or repairs to the road, it will be carried out as desired by the NHAI at the cost of the agency owning the utility line within a reasonable time (not exceeding 60 days (of the intimation given.	Enclosed	
5.12	Certificate from the applicant in the following format (i) <i>Laying of Gas pipe line will not have any deleterious effects on any of the bridge components and roadway safety for traffic.</i> (ii) <i>"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."</i>	Enclosed	
6	Who will sign the agreement on behalf of Gas pipe line agency.		
	<i>Power of Attorney to sign the agreement is available or not</i>	Available	Authorized Person is Mr. Chanchal Lohiya Manager (Projects).
7	The Project Director, will submit the following Certificates.		
7.1	Certificate for proposal for confirming of all standard condition issued vide Ministry of Road Transport and Highways Circular No. NH-III/P/66/76 Dated 18/19.11.1976, RW/NH-III/P/66/76 dated 11.5.1982, RW/NH-11.037/1/86-DOI (ii) dated 28.7.1993, RW/NH-11.037/1/86/DOI dated 19.1.1995, RW/NH-34066/2/95/ S&R dated 25.10.1999 and Circular NO. RW/NH-		



Rajot Gupta
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National Highways Authority of India
Project Implementation Unit, Lucknow
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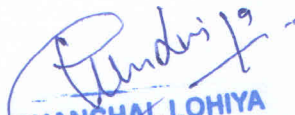
	34066/7/2003 S&R (B) dated 17.9.2003. (iii) F.No RW/nh-33044/29/2015/S&R (R) dated 22.11.2016.		
7.2	<p>Certificate from PD in the following format</p> <p>(i) "It is certified that any other location of the Gas pipe line would be extremely difficult and unreasonable costly and the installation of Gas pipe line within ROW will not adversely affect the design, stability & traffic safety of the high way nor the likely future improvement such as widening of the carriageway, easing of curve etc".</p> <p>(ii) For 6 lanning</p> <p>(a) Where feasibility is available "I do certify that there will be no hindrance to proposed six-lanning based on the feasibility report considering proposed structures at the said location".</p> <p>(b) In case feasibility report is not available "I do certify that sufficient ROW is available at site for accommodating proposed six-lanning".</p>		
8	If NH section proposed to be taken up by NHAI on BOT basis – a clause is to be inserted in the agreement. "The permitted Highway on which Licensee has been granted the right to lay Gas Pipeline/duct has also been granted as a right of way to the concessionaire under the concession agreement for up-gradation of [.....] and therefore, the licensee shall honor the same."	Inserted	
9	Who will supervise the work of laying of Gas pipe line		Green Gas Ltd.
	(a) On behalf of the Applicant	Mr. Chanchal Lohiya Manager (Projects).	Representative of Green Gas Limited
	(b) On behalf of NHAI		
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	Mr. Chanchal Lohiya Manager (Projects).	
	(b) On behalf of NHAI		



Sujot Gupta
 Dy. Manager (Tech.)
 National Highways Authority of India
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परियोजना निदेशक
 भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
 (सड़क परिवहन एवं राजमार्ग मंत्रालय, भारत सरकार)
 3/248, विशाल खण्ड, गोमती नगर, लखनऊ

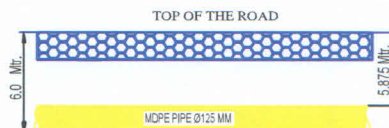
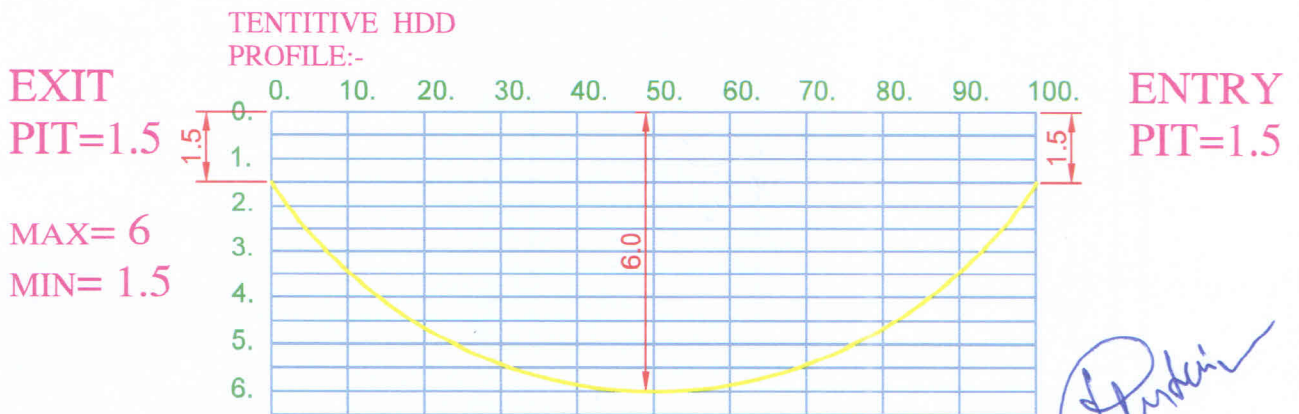
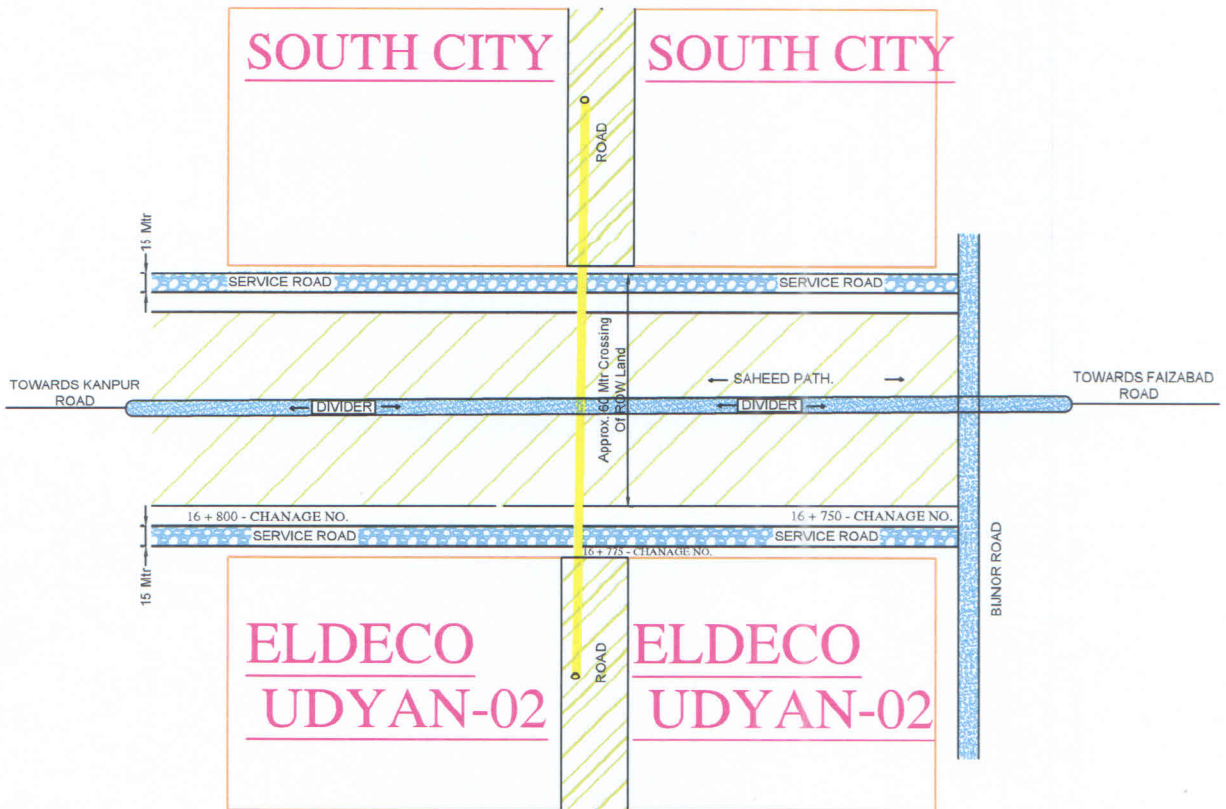
11	Who will pay the claims for damages done/disruption in working of Concessionaire if asked by the Concessionaire		
	On behalf of the Applicant	Green Gas Ltd.	
12	A certificate from PD that he will enter the proposed permission in the register of records of the permissions in the prescribed Performa (copy enclosed).		
13	If any previous approval is accorded for laying of underground Gas Pipe line then Photocopy of register of records of permissions accorded as maintained by PD then copy be enclosed.		


CHANCHAL LOHIYA
 Manager (p.o&m)
 GREEN GAS LIMITED
 (A JV of GAIL & IOCL)
 LUCKNOW


Sujot Gupta
 Dy. Manager (Tech.)
 National Highways Authority of India
 Project Implementation Unit, Lucknow
 3/248, Vishal Khand, Gomti Nagar, Lucknow


Project Director
 सड़क विकास निदेशक
 भारत सरकार, राष्ट्रीय राजमार्ग निदेशक
 (सड़क परिवहन एवं राजमार्ग विभाग, भारत सरकार)
 3/248, विशाल खण्ड, गौतमी नगर, लखनऊ

NH-230(56A,56B) SAHEEDPATH, CH. NO.- 16+750 TO 16+800



[Signature]
Dy Manager (Tech)
Dy Manager (Tech)
NHA, Lucknow

[Signature]
SHANCHAL LOHIYA
Manager (p.o&m)
GREEN GAS LIMITED
(A JV of GAIL & IOCL)
LUCKNOW

GREEN GAS LIMITED
(A JOINT VENTURE OF GAIL (INDIA) LTD. & IOCL)