



टेलीफ़ोन - 0172-2743228, 2740376
ई-मेल: rochandigarh2010@gmail.com

भारत सरकार / Govt. of India

सड़क परिवहन एवं राजमार्ग मंत्रालय/

Ministry of Road Transport & Highways

क्षेत्रीय कार्यालय, केन्द्रीय सदन, छठा तल, सेक्टर-९ ए, चंडीगढ़-१६०००९

Regional Office, Kendriya Sadan, 6th Floor, Sector-9 A, Chandigarh-160009

No. RW/CH/PB/NH-354/Km.282.625/NOC/2445/2025/1493-94 Dated: 09.10.2025

To,

Senior Technical Director, NIC, Transport Bhawan, New Delhi - 110001.

Sub: NOC Permission for laying of 125mm MDPE pipeline across of NH-354 on Sri Muktsar Sahib to Malout road section for extension of pipeline network for PE Sri Muktsar Sahib city connectivity (Bathinda Chowk near Taneja Petroleum to Rupana village (M/s Satia Industries) in Muktsar city, Tehsil & District Sri Muktsar Sahib in the State of Punjab. [Gujrat Gas Ltd - Ch.282.625, 282.984, 283.612]

Ref: Punjab State PWD memo No. 1990/NH dated 19/09/2025.

Sir,

Kindly refer to the letter cited under reference above received from CE(NH), PWD (B&R), Punjab, forwarding therewith the subject proposal for consideration of this office.

2. As per Para 4 of this Ministry's guidelines dated 22.11.2016, the application so received will have to 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 same, please find enclosed herewith the details of proposal mentioned above. The competent Authority has decided to upload the instant proposal on the Ministry's website to invite public comments, if any, on the proposal within 30 days.

Encl. As above

Executive Engineer
For H.A. MoRT&H, Jammu

Copy to: Executive Engineer, NHD, PWD B&R Br., Abohar for kind information please.

CHECKLIST**Guidelines for processing the proposal for laying of utility line in the land along National Highway vested with NH/NHAI/PWD/BRO****General Information:**


- | | |
|---|---|
| 1. Name & Address of applicant/Agency: | M/s. Gujarat Gas Limited,
Gujarat Gas Limited,
HT Tower, SCO-132, 2nd Floor,
B-Block, Ranjit Avenue,
Amritsar – 143001, Punjab |
| 2. National Highway No.: | NH-354 |
| 3. State: | Punjab |
| 4. Location: | Sri Muktsar Sahib |
| 5. Chainage in Km: | 1. Across NH-354 Ch. Km 282/625
(RHS-LHS) @ [Rupana Village]

2. Across NH-354 Ch. Km 282/984
(RHS-LHS) @ [Rupana Village]

3. Across NH-354 Ch. Km 283/612
(RHS-LHS) @ [Rupana Village] |
| 6. Length in meters: | Across: 75.00 m |
| 7. Width of available ROW in both side: | 12.5 m, 12.5 m |
| 8. Side of NH :
(sell or right side of NH towards
increasing chainage Km direction) | RHS - LHS |
| 9. Name of Highway Authority of
NHAI/PWD/BRO: | Ministry Of Road Transport and Highway,
Regional Officer Chandigarh, |
| 10. Highway Administration Address: | Executive Engineer, NH Division, PWD
B&R Br., Abohar, Punjab |

M/s. Gujarat Gas Limited,**Tarun Kumar
Sharma**Tarun Sharma
Zonal Head (Punjab & Haryana)

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Sub Divisional Engineer,
National Highway Sub Division,
PWD B&R, Br. Malout.


S. No.	Item	Measurement Observations as per site condition	MoRTH Norms	Whether Complying with MoRTH Norms (Y/N)
1	Details of already laid utility service, if any	NA	--	Y
2	Whether up gradation of the stretch in near future is proposed or not	No	--	Y
	(a) If yes, provision of utility adversely affect the plan of up gradation	--	No affect on plan of upgradation	Y
3	Laying of utility service along the National Highway			Y
3.1	Location of proposed utility service along the stretch	Pipeline to be laid at the extreme edge of the ROW, across NH-354	--	Y
3.2	Depth of top of utility service from ground level	1.2 mtr., below GL	1.2 mtr.	Y
3.3	Mechanism for crossing water channel	Crossing of the Water channel shall be done through HDD methodology, if applicable To lay the pipeline across the Road, HDD methodology shall be opted.	At the extreme edge of the ROW, parallel to road and existing culvert.	Y
3.4	Whether ROW is restricted in this stretch?	Yes	60 mtr	Y
3.4.1	If yes, whether provision of land acquisition is required to lay utility	No	No, pipeline to be laid within ROW of NH	Y
	(a) If yes, whether undertaking for land acquisition along with relevant L.A. details has been furnished	--	--	--
3.4.2	Width of concrete duct, if utility services are proposed to be laid in concrete ducts	NA	--	--
4	Laying of utility services across the NH	Yes, only Crossing of Pipeline is involved and pipeline to be laid within NH RoW through HDD	--	--


 Sub Divisional Engineer,
 National Highway Sub Division,
 PWD, B&R, Br. Malout.

**Tarun
Kumar
Sharma**

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S. No.	Item	Measurement Observations as per site condition	MoRTH Norms	Whether Complying with MoRTH Norms (Y/N)
4.1	Whether existing drainage structures are allowed to carry the utility lines	NA	--	--
4.2	Proposed crossing of utility service	Yes	As, per norms 1.2 m below finished GL	--
4.3	Type of casing pipe/conduit carrying the utility line	NA	--	--
4.4	Whether ends of the casing/conduit pipes are sealed from outside	NA	--	--
4.5	Length of casing/conduit pipe crossing NH	125 mm MDPE PL shall be crossing with the length of 25 m	--	--
4.6	Depth of top of the casing/conduit pipe	1.2 m below GL	As, per norms 1.2 m below finished GL	--
4.7	Crossing method in case of CC pavement	NA	--	--
4.8	Horizontal and vertical clearances in case utilities are allowed overhead	NA	--	--
5	Document/Drawing enclosed with the proposal	NA	Enclosed, if applicable	Y
5.1	Cross-Section showing the size of trench for open trenching method	NA	--	--
	(a) Trench width	NA	More than 30 cm and less than 60cm wider than the outer dia. of the utility pipe	--
	(b) Filling of trench	NA	As per Ministry guidelines vide letter No. RW/NH-544044/29/2015/S&R (R) dated 22.11.2016	--
	(c) Location of trench	NA	Extreme edge of ROW	Y
5.2	Cross Section showing the size of pit and location of conduit for HDD method	Yes, 125 mm MDPE PL to be laid through HDD methodology	Enclosed, if applicable	Y
5.3	Strip plan/Route plan showing utility line, chainage, width of ROW, distance of proposed utility from the edge of ROW, important mile stone, intersections, cross drainage works etc.	Yes; Routemap & Cross Section map	Enclosed	Y
5.4	Plan and profile drawing of stretch showing cross	Yes, Corss sectional map	Enclosed	Y


 Sub Divisional Engineer,
 National Highway Sub Division
 PWD, B&R, Malout
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Tarun Kumar
 Sharma

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S. No.	Item	Measurement Observations as per site condition	MoRTH Norms	Whether Complying with MoRTH Norms (Y/N)
	section of road at 20 m distance along with ROW and proposed utility			
6	Methodology for laying of utility line	Laying of Pipeline across road of NH-354 through HDD methodology	Enclosed	Y
7	Draft License Agreement is as per Ministry guidelines vide letter No. RW/NH-544044/29/2015/S&R (R) dated 22.11.2016 and signed by two witnesses	Enclosed	Enclosed	Y
8	License fees in favor of MoRTH RPAO Chandigarh	To be paid in the favor of details mentioned in the Demand Note	As per MoRTH circular no. RW/NH-33044/29/2015/SO&R (R) dated 22.11.2016	Y
9	Whether Bank Guarantee has been obtained	As per latest Ministry Guidelines	As per MoRTH circular no. RW/NH-33044/29/2015/SO&R (R) dated 22.11.2016	Y
	(a) If yes, whether conformation of BG has been obtained as per MoRTH/NHAI guidelines	No, BG will be submitted as an when intimated by EE, NH Division, PWD B&R Br., Abohar, Punjab along with SFMS copy	--	Y
10	Affidavit/Undertaking from the applicant for	Enclosed	Enclosed	Y
10.1 *	Undertaking for not damage other existing utility, if damaged then to pay the losses to either to MoRTH/NHAI Or to the concerned agency.	Enclosed	Enclosed	Y
10.2	Undertaking for renewal of Bank Guarantees and when asked by NHAI/MoRTH	Enclosed	Enclosed	Y
10.3	Undertaking for confirming all standard conditions of MoRTH/NHAI guidelines.	Enclosed	Enclosed	Y
10.4	Undertaking for shifting of utility as and when asked by MoRTH/NHAI within a month at their own cost.	Enclosed	Enclosed	Y


 Sub Divisional Engineer,
 National Highway Sub Division
 PWD B&R Br. Malout.

Tarun
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S. No.	Item	Measurement Observations as per site condition	MoRTH Norms	Whether Complying with MoRTH Norms (Y/N)
10.5	Undertaking for indemnity against all damages and claims.	Enclosed	Enclosed	Y
10.6	Undertaking for management of traffic movement during laying of utility line without hampering the traffic.	Enclosed	Enclosed	Y
10.7	Undertaking that if any claim is raised by the Concessionaire/contractor then the same has to be paid by the applicant	Enclosed	Enclosed	Y
10.8	Undertaking that the applicant obtained various safety clearances from the representative authorities such as directorate of Electricity, Chief controller of Explosives, Petroleum Organization, and Explosive Safety Oil Industry Safety Organization Oil Industry Safety Directorate, State/ Central Pollution Control Board and any other statutory clearances as applicable, before applying to Highway Administration	Undertaking of the same shall be provided at the time of Pipeline Laying activity, if applicable	Enclosed	N

The Right of the Way (ROW) of the National Highway-354 available at the proposed location from the center line of divided carriageway is (12.5 mtr.) (from center of Road to edge of ROW). The 125 mm Natural Gas MDPE Pipeline shall be laid at a depth of 1.2 m below GL through HDD methodology.

The above particulars along with the drawings and documents have been verified and certified as correct as per prevailing site conditions.

**Tarun Kumar
Sharma**

Tarun Sharma
Zonal Head (Punjab & Haryana)
Gujarat Gas Limited

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Shri. ANAND MAHAR
Executive Engineer,
NH Division, PWD B&R Br.,
Abohar, Punjab

Sub Divisional Engineer,
National Highway Sub Division
PWD, B&R, Br. Malout.

HORIZONTAL DIRECTIONAL DRILLING

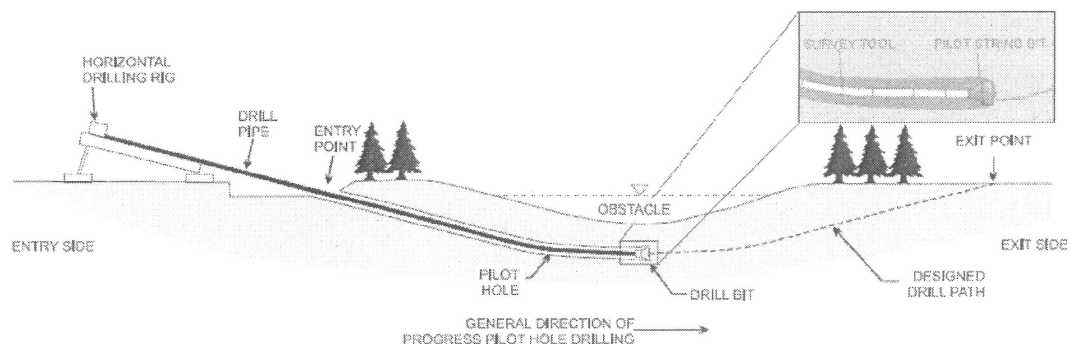
Horizontal Directional Drilling (HDD) – A trenchless method of installing pipe in the ground at variable angles using a guidable drill head

- Used when trenching or excavation is not feasible/practical – Water crossings, road and railway crossings, sensitive wildlife habitats, etc.
- Suitable for variety of soil conditions and pipe diameters

HDD process:

The process starts with receiving hole and entrance pits. These pits will allow the drilling fluid to be collected and reclaimed to reduce costs and prevent waste. The first stage drills a pilot hole on the designed path, and the second stage (reaming) enlarges the hole by passing a larger cutting tool known as the back reamer. The reamer's diameter depends on the size of the pipe to be pulled back through the bore hole. The driller increases the diameter according to the outer diameter or the conduit and to achieve optimal production. The third stage places the product or casing pipe in the enlarged hole by way of the drill stem; it is pulled behind the reamer to allow centering of the pipe in the newly reamed path.

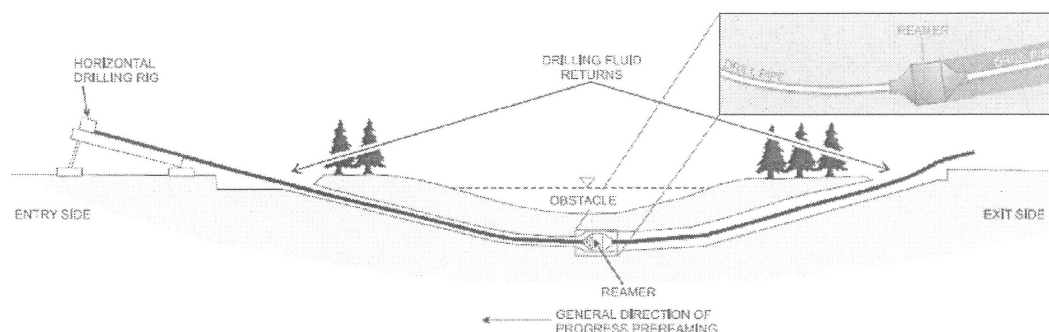
1) Pilot hole – Initial bore drilled along designed drill path



Source: CAPP Publication 2004-0022

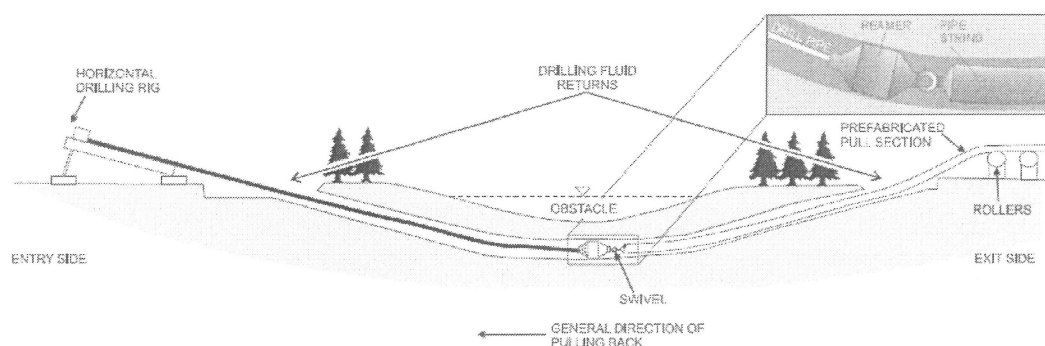
2) Reaming pass(es) - increasing the diameter of the pilot hole to allow pipe pullback; may not be necessary for smaller diameter pipelines

HORIZONTAL DIRECTIONAL DRILLING



Source: CAPP Publication 2004-0022

3) Pipe string pull back – pull back of pre-fabricated pipe



Source: CAPP Publication 2004-0022

Drilling fluids are pumped through drill head during pilot bore, reaming passes and pipe pull back. 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. The drilling fluid is sent into a machine called a reclaimer which removes the drill cuttings and maintains the proper viscosity of the fluid. Drilling fluids hold

HORIZONTAL DIRECTIONAL DRILLING

the cuttings in suspension to prevent them from clogging the bore. A clogged bore creates back pressure on the cutting head, slowing production.

Drilling fluids = water + additives (bentonite, polymers, surfactants, etc.)

- Aid drilling process– Suspend and remove drill cuttings
 - Cool and lubricate drill stem and bit
 - Stabilize bore hole
 - Reduce friction between drill/pipe and bore wall

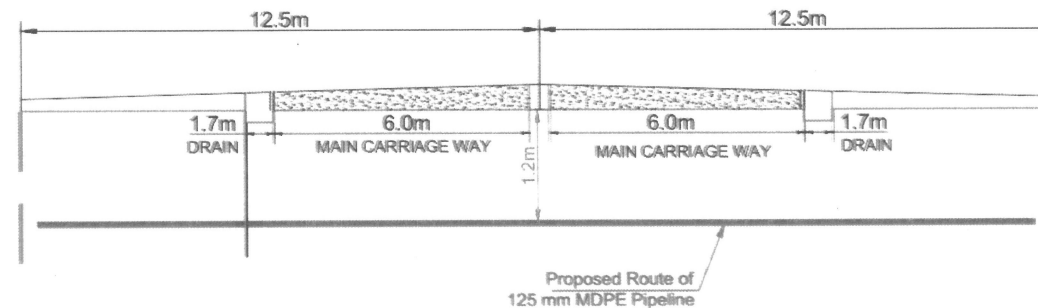
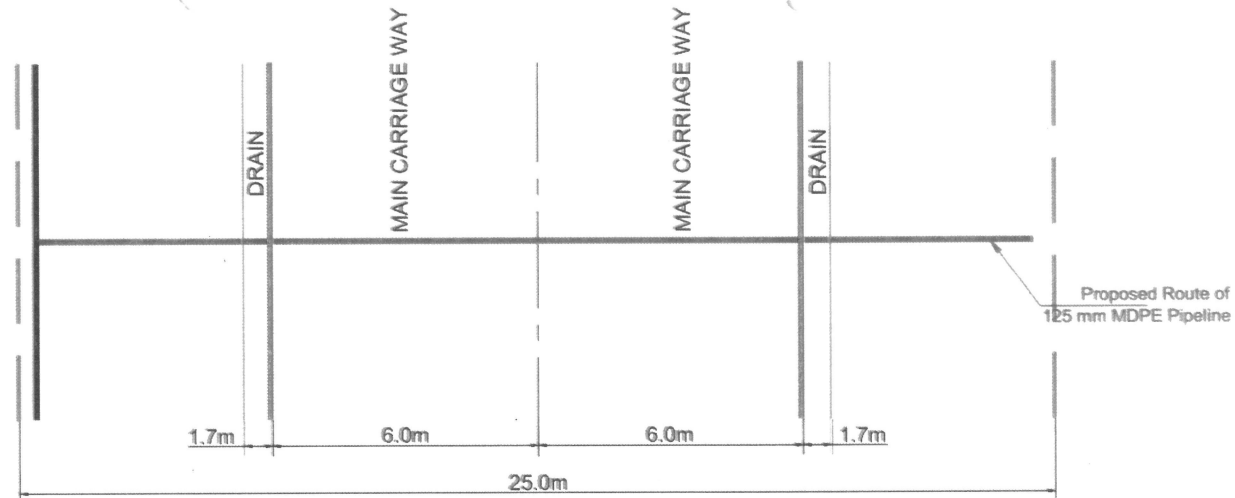
Applications:

The process is used for installing telecommunications & 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 any area where other methods are more expensive. Directional boring is used in place of other techniques for the following reasons:

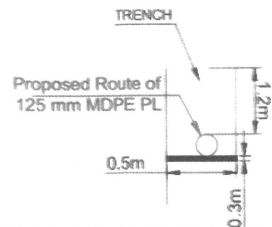
- Less traffic disruption
- Lower cost
- Deeper installation possible
- Longer installation possible
- No access pit required
- Shorter completion times
- Directional capabilities
- Safer for the environment

Tarun Kumar
Sharma

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Executive Engineer,
National Highway Divn.
(PWD B&R, Br. Abohar)



Sub Divisional Engineer,
National Highway Sub Division
PWD B&R, Br. Malout

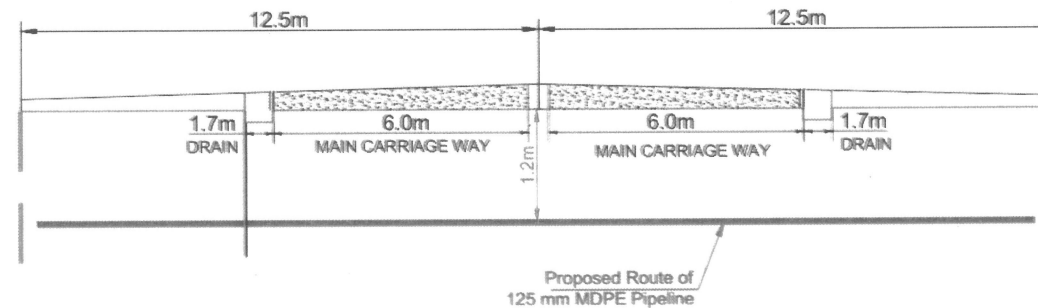
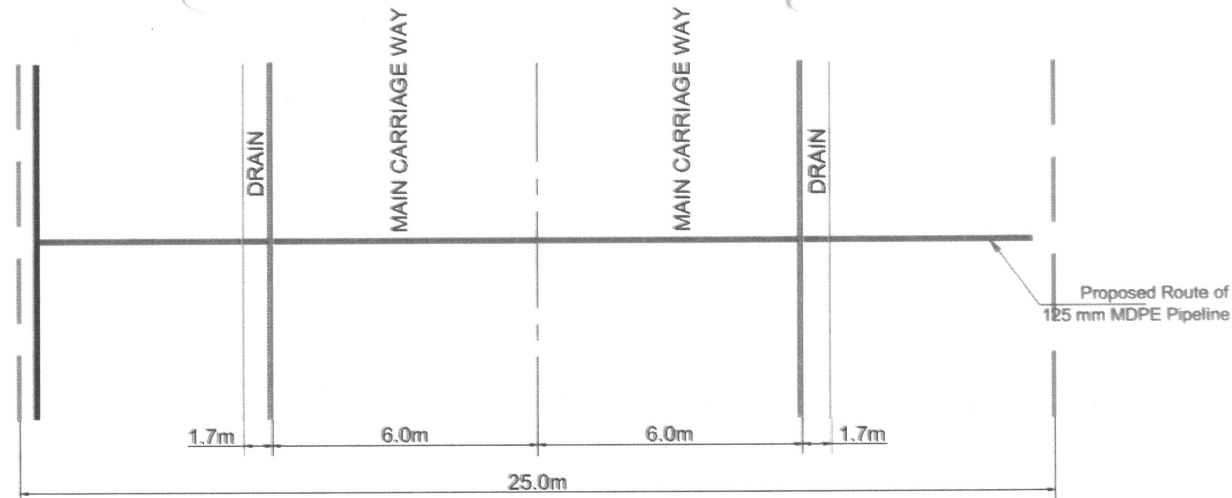
Cross Section of NH Chainage : 282+625 km

Tarun Kumar
Sharma

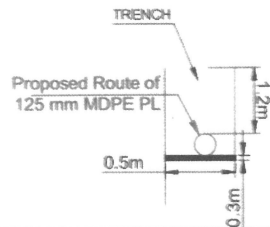
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Gujarat Gas Limited							
Authority: NH Division, PWD (B&R) Br., Abohar, Punjab							
Muktsar City, Tehsil: Muktsar, Dist.: Sri Muktsar Sahib, State: Punjab							
List of Pipeline Across Roads for PE-Muktsar City Connectivity, Sri Muktsar Sahib [Extension]							
Sr. No.	Village/ Location	Details of Road	NH Ch. (Km)	Pipeline Centre Ch. (Km)	Width (m)	Crossing Coordinates UTM-Zone: 43	Remarks
1	Rupana	Sri Muktsar Sahib to Malout Road (NH-354): Across	282/625	6/313	25.00	E: 454113.14 N: 3365397.66	125 mm dia. MDPE Pipeline across from RHS to LHS of RoW in increasing order of road chainage

GUJARAT GAS LIMITED	
CGD NETWORK FOR FARIDKOT, FEROPUR & SRI MUKTSAR SAHIB	
PE-Muktsar City Connectivity, Sri Muktsar Sahib [Extension]	Across NH-354
THEODESH CONSULTANTS	



Executive Engineer,
National Highway Divn.
(PWD B&R) Br. Abohar



Sub Divisional Engineer,
National Highway Sub Division
PWD, B&R, Br. Malout

Cross Section of NH Chainage : 282+984 km

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Gujarat Gas Limited

Authority: NH Division, PWD (B&R) Br., Abohar, Punjab

Muktsar City, Tehsil: Muktsar, Dist.: Sri Muktsar Sahib, State: Punjab

List of Pipeline Across Roads for PE-Muktsar City Connectivity, Sri Muktsar Sahib
[Extension]

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1	Rupana	Sri Muktsar Sahib to Malout Road (NH-354): Across	282/984	6/672	25.00	E: 454133.30 N: 3365039.89	125 mm dia. MDPE Pipeline across from RHS to LHS of RoW in increasing order of road chainage



GUJARAT GAS LIMITED

CGD NETWORK FOR FARIDKOT, FEROPUR & SRI MUKTSAR SAHIB

PE-Muktsar City Connectivity, Sri Muktsar Sahib [Extension]

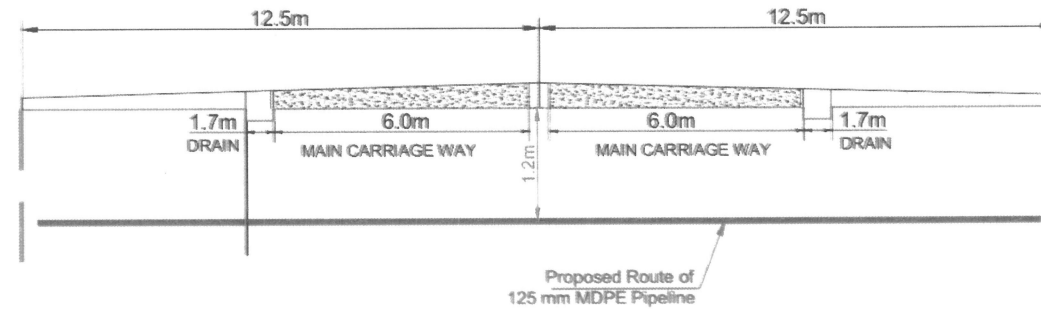
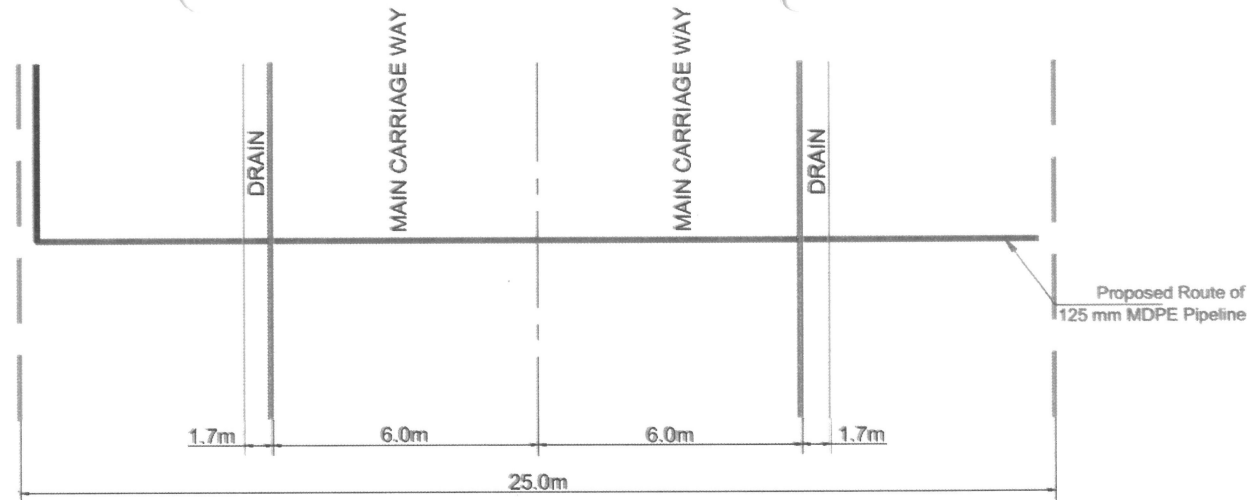
Across NH-354



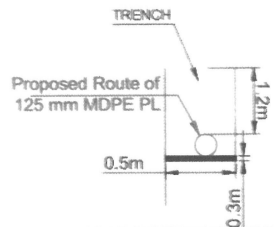
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CONSULTANTS



PAPER SIZE : A3



Executive Engineer,
National Highway Divn.
(PWD, B&R, Br. Abohar)



Sub Divisional Engineer,
National Highway Sub Division
PWD, B&R, Br. Malout

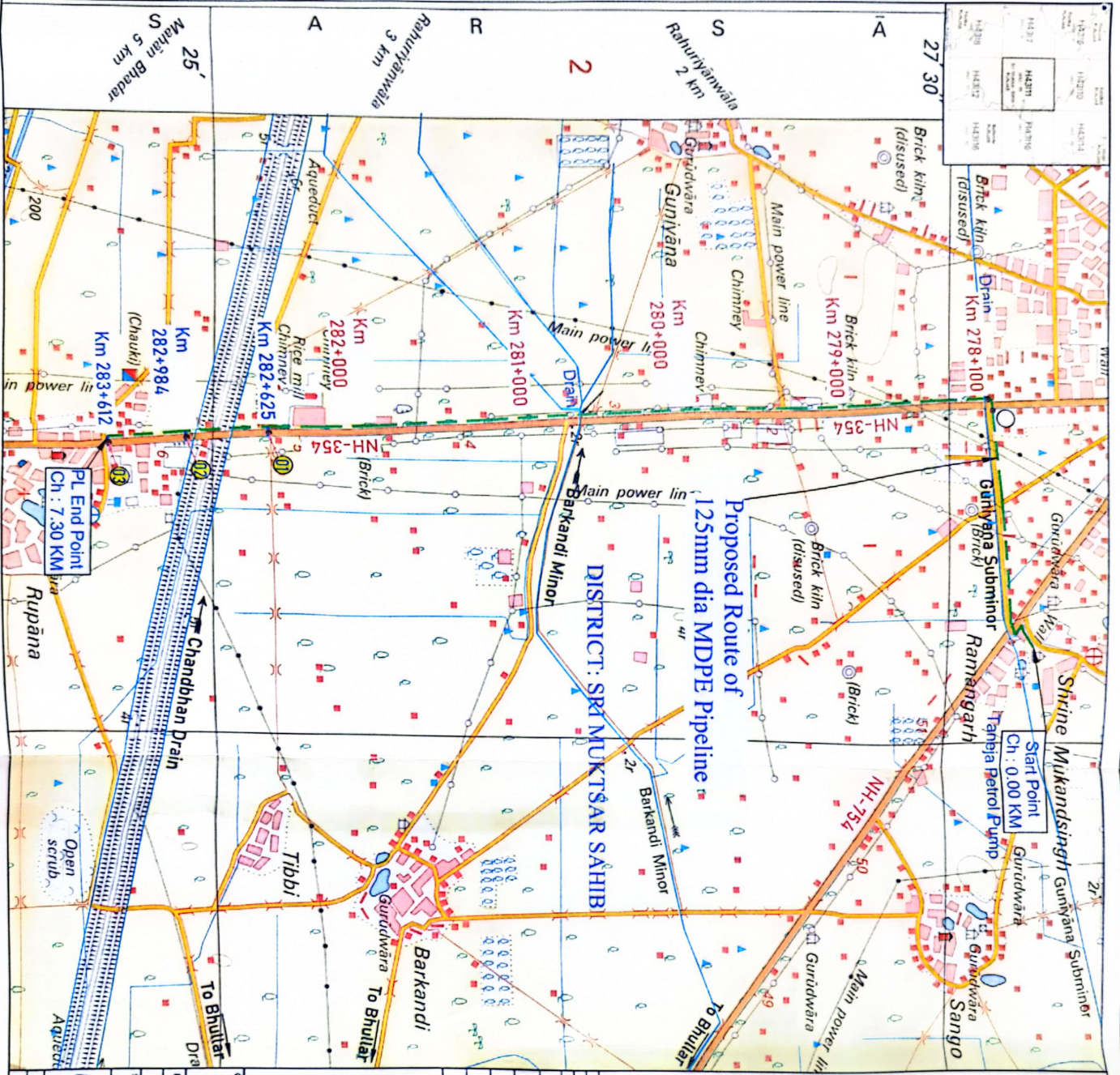
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1	Rupana	Sri Muktsar Sahib to Malout Road (NH-354): Across	283/612	7/300	25.00	E: 454177.02 N: 3364411.499	125 mm dia. MDPE Pipeline across from RHS to LHS of RoW in increasing order of road chainage

GUJARAT GAS LIMITED	
CGD NETWORK FOR FARIDKOT, FEROZEPUR & SRI MUKTSAR SAHIB	
PE-Muktsar City Connectivity, Sri Muktsar Sahib [Extension]	Across NH-354
THEODESH CONSULTANTS	

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Guylot Gas Limited
 Anthony, 331 Division, P.O. Box 1, Abbeville, Piquette
 Muskegon City, Twp., Muskegon, Dist. 1st Muskegon Assn., State Piquette
 List of Pipelines known to be for P.O. Muskegon City Connectivity, 1st Muskegon Assn.
 [Continued]

No.	Year/Version	Details of trial	IRB No.	Approx. sample size	WHO	Country/Continent	Remarks
1	1994	1st placebo-controlled trial	261,245	6,113	23,40	N. AMERICA	21 out of 20,000 patients died
2	1994	2nd placebo-controlled trial	261,245	6,972	25,40	N. AMERICA	19 out of 20,000 patients died
3	1994	3rd placebo-controlled trial	261,245	7,320	25,38	N. AMERICA	19 out of 20,000 patients died

Tarun Kumar

Diploma issued by Tarun
Kumar Design
for each participant.
Issued on 08-06-2020 at
11:39 AM.

LEGEND


Green Pipeline route
Proposal Already Approved

ACROSS

[illegible]

GUJARAT GAS LIMITED
AHMEDABAD, GUJARAT

 PE-Munkissar City Connectivity [Extension]	ROUTE MAP	SECTION 1
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 H2O DESIGN CONSULTANTS <small>INCORPORATED</small> <small>10000 16th Avenue, Suite 100, Richmond, BC V6V 2G9, Canada</small> <small>TEL: 604.273.4343 FAX: 604.273.4344</small> <small>WWW.H2ODESIGNCONSULTANTS.COM</small>		NH, Division, Forecaster	
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