



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)

NATIONAL HIGHWAYS AUTHORITY OF INDIA

(Ministry of Road Transport & Highways, Government of India)

क्षेत्रीय कार्यालय - हैदराबाद

प्रथम तल, नया भवन, भारतीय पशासनिक स्टाफ कॉलेज, रोड नंबर 3, बंजारा हिल्स, हैदराबाद - 500034 तेलंगाना

REGIONAL OFFICE - HYDERABAD

First Floor, New Building, Administrative Staff College of India, Road No.3, Banjara Hills, Hyderabad - 500034. Telangana.

टेली / Tele: 040-29562147/148 ईमेल / Email: rohyderabad@nhai.org, nhairohyd@gmail.com



NHAI/RO-HYD/25011/1/54/2022/Utility/1618

Dt.05.09.2022

Sub: NHAI - RO Hyderabad - PIU Hyderabad-Proposal for laying of Natural Gas pipeline of 216mm dia steel pipe along with 90mm MDPE pipe and 40mm dia OFC duct encased in 1.0 m casing pipe by M/s Megha Engineering & Infrastructures Limited across National Highway NH-44 by HDD methodology at Km.36+170 on Hyderabad to Bangalore section in the State of Telangana- Reg..

Ref: 1. PIU Hyd Lr.no. NHAI/PIU-HYD/NH-44/AP-3/MEIL/2022/1271, Dt 17.08.2022

The Project Director, PIU, NHAI Hyderabad vide letter cited above has recommended the Proposal of M/s Megha Engineering & Infrastructures Limited for laying of Natural Gas pipeline of 216mm dia steel pipe along with 90mm MDPE pipe and 40mm dia OFC duct encased in 1.0 m casing pipe across National Highway NH-44 by HDD methodology at Km.36+170 on Hyderabad to Bangalore section in the State of Telangana.

2. As per para 4 of the Ministry's guidelines no. RW/NH-33044/29/2015/S&R(R) dated 22.11.2016, public comments is hereby invited on the above proposal seeking claims and objections (on grounds of public inconvenience, safety and general public interest) within 30 days on public portal i.e. website of Ministry of Road Transport and Highways (www.morth.nic.in) in Form-A (copy enclosed) for "Accommodation of Public and Industrial Utility Services along and across National Highways".

Comment Inviting Authority

The Regional Officer,
National Highways Authority of India,
Regional Office: Hyderabad,
First Floor, New Building,
Administrative Staff College of India(ASCI),
College Park Campus, Road No.3,
Banjara Hills, Hyderabad - 500 034,
Telangana State,
Phone: 040-29562147, 040-29562148,
Email: rohyderabad@nhai.org, nhairohyd@gmail.com

Encls: Above Proposal

Yours faithfully,

(V. Nagamani)

Dy General Manager (Tech)

For Regional Officer-cum-

Highway Administrator, Hyderabad

To:

1. Senior Technical Director, NIC, Transport Bhawan, New Delhi- 110001 for uploading on Ministry's website.
2. Shri S.Manivasagam, Dy. GM (IT), NHAI HQs, New Delhi for uploading on NHAI website.

Copy to:- 1. The Project Director, NHAI, PIU Hyderabad: for information

FORM-A

Form for seeking claims and objections (on grounds of public inconvenience, safety and general public interest) on the application for Accommodation of Public and Industrial Utility Services along and across National Highways

Sub: NHAI - RO Hyderabad - PIU Hyderabad-Proposal for laying of Natural Gas pipeline of 216mm dia steel pipe along with 90mm MDPE pipe and 40mm dia OFC duct encased in 1.0 m casing pipe by M/s Megha Engineering & Infrastructures Limited across National Highway NH-44 by HDD methodology at Km.36+170 on Hyderabad to Bangalore section in the State of Telangana-**Reg.**

The claims and objections (on grounds of public inconvenience, safety and general public interest) by the general public needs to be given within 30 days of uploading the online application for comments

Sl. No	Item	Details
1	Name of the person who is desiring to give claims and objections (on grounds of public inconvenience, safety and general public interest)	
2	Address of the person	
3	Details of the application for Accommodation of Public and Industrial Utility Services along and across National Highways against which claims and objections are being given (name of applicant and other details like site address etc.)	
	a) Application No.	
	b) Name of applicant (who applied to Accommodation of Public and Industrial Utility Services along and across National Highways)	
	c) Details of Application	
4	The claims and objections (on grounds of public inconvenience, safety and general public interest)	



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)
NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Road Transport & Highways, Government of India)



परियोजना कार्यान्वयन इकाई - हैदराबाद

आवास सं : 25A & 28A, भारत का प्रशासनिक स्टाफ कॉलेज, कॉलेज पार्क कैम्पस, सड़क सं : 3, बंजारा हिल्स, हैदराबाद - 500 034, तेलंगाना

PROJECT IMPLEMENTATION UNIT - HYDERABAD

Qtr.No. 25A & 28A, Administrative Staff College of India (ASCI), College Park Campus, Road No.3, Banjara Hills, Hyderabad- 500 034, Telangana

Land Mark : Near TV9 Bus Stop

टेली / Tele : 040-29550558 ई-मेल / Email : hyd@nhai.org / nhaihyd@gmail.com

NHAI/PIU-HYD/NH-44/AP-3/MEIL/2022/1271

17.08.2022

To

The Regional Officer

National Highways Authority of India

Regional Office, First Floor, New Building

Administrative Staff College of India (ASCI),

College Park Campus, Road No.3

Banjara Hills, Hyderabad-500034, Telangana.



DCM (T) - I & II

MANAGER (T) - I & II

AM (F&A) / ALL PDs

PD - HYD / KMR / WGL / KMM /

SR / MNCL / GWL / MBNR

Sub: NHAI, PIU-Hyderabad - 4 laning of Km. 34.1 (Farukhnagar) to Km. 80 (Jadcherla) and (II) Improvement, Operation and Maintenance of Km. 22.3 (Thondupalli) to Km. 34.1 (Farukhnagar) on NH-7 in the state of Andhra Pradesh under North-South Corridor (NHDP Phase-II) on Build, Operate and Transfer (BOT) basis-NS2/BOT/AP-3/- Grant of NOC for laying of Gas Pipeline Crossing at Km. 36/170 on Hyderabad - Bangalore section of NH-44 across the road under the jurisdiction of NHAI - Submitted for approval - Reg.

- Ref: i) MoRTH Circular no.RW/NH-33044/29/2015/S&R (R) dated 22.11.2016
ii) M/s. MEIL lr. no. Nil dated: 08.01.2022
iii) I.E lr. no. AA/TL/AP03/NH-44/NHAI/2349/22-23/1164 dated: 28.04.2022

Sir,

This has reference to the letter 2nd cited wherein M/s MEIL submitted NOC proposal for laying of Gas pipeline crossing at Km. 36+170 on Hyderabad Bangalore section of NH-44 across the road under the jurisdiction of NHAI and requested to accord permission. The same has been recommended by I.E vide their letter dated: 28.04.2022.

2. The proposal has been examined in this office and following documents have been submitted along with the proposal:

- Check list
- Methodology for laying of Optical Fiber Cable on the NH land (utility corridor) by HDD method.
- License fee calculation for an amount of Rs. 57,600/- receipt of the same is enclosed with Transaction No. 3007220014924 dated: 30.07.2022

[Signature]

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- iv. Bank Guarantee calculation for an amount of Rs. 15,000/- with BG No. 005711GL0018522 dated: 11.07.2022
- v. Indemnity bond
- vi. Undertaking
- vii. License Agreement
- viii. Drawings

2. IE has inspected the site and checked the proposal as per MoRTH guidelines vide RW/NH-33044/29/2015/S&R(R) dated 22.11.2016 and recommended the proposal, vide letter dated: 28.04.2022.

3. In view of the above, the proposal for according permission to lay Gas Pipeline by the Project In-charge /s Megha Engineering & Infrastructure Ltd. is examined and found to be in order. Therefore, the proposal is herewith recommended for approval of the Competent Authority.

Yours faithfully



(P. Nageswara Rao)
GM (T) & Project Director

CERTIFICATE

Sub: NHAI, PIU-Hyderabad - 4 laning of Km. 34.1 (Farukhnagar) to Km. 80 (Jadcherla) and (II) Improvement, Operation and Maintenance of Km. 22.3 (Thondupalli) to Km. 34.1 (Farukhnagar) on NH-7 in the state of Andhra Pradesh under North-South Corridor (NHDP Phase-II) on Build, Operate and Transfer (BOT) basis- NS2/BOT/AP-3/- Grant of NOC for laying of Gas Pipeline Crossing at Km. 36/170 on Hyderabad - Bangalore section of NH-44 across the road under the jurisdiction of NHAI - Reg.

In regard to the proposal for laying of Gas Pipeline across NH at Km. 36/170, following is hereby certificated:

1. It is certified that the proposal is confirming of all standard condition issued vide Ministry Circular No.(58)/68 dated 31.1.1969, Ministry Circular No.P/66/76 DATED 18./19.11.1976 , Ministry RW/NH- III/P/66/76dated 11.5.1982, Minister RW/NH- 11037/1/86-DOI(ii) DATED 28.7.1993, Circular No.rw/nh-11037/1/86/DOI dated Ministry Circular No.RW/NH-34066/2/95/25.10.19999 and Ministry Circular No.RW/NH-34066/7/2003 S&R (B) dated 17.9.2003 (yes/No).
2. It is certified that any other location of OFC cable would be extremely and unreasonable costly and the OFC within ROW will not adversely affect the design, stability & of the highway nor the likely future (Yes/No) Such as widening of the carriageway curve etc.
3. For 6 - lanning: In case feasibility report is not available " it is certified that sufficient ROW is available at site for accommodating proposed six -laning".

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Yours faithfully



(P. Nageswara Rao)
GM (T) & Project Director

INSPECTION REPORT

Sub: NHAI, PIU-Hyderabad - 4 laning of Km. 34.1 (Farukhnagar) to Km. 80 (Jadcherla) and (II) Improvement, Operation and Maintenance of Km. 22.3 (Thondupalli) to Km. 34.1 (Farukhnagar) on NH-7 in the state of Andhra Pradesh under North-South Corridor (NHDP Phase-II) on Build, Operate and Transfer (BOT) basis- NS2/BOT/AP-3/- Grant of NOC for laying of Gas Pipeline Crossing at Km. 36/170 on Hyderabad - Bangalore section of NH-44 across the road under the jurisdiction of NHAI - Reg.

The proposed site for laying of Optical Fiber Cable is inspected and the following are noted:

1. The proposed laying of water supply line falls under AP-3 package.
2. The proposal meeting the requirements of MORTH.
3. The proposal submitted is examined and recommended for granting the permission.

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Yours faithfully

P. Nageswara Rao

(P. Nageswara Rao)
GM (T) & Project Director

CHECK - LIST

Accommodation of Public and Industrial Utility Services along and across National Highways by Private Parties under Industrial Utility.

Relevant Circulars

- Ministry Circular No. RW/NH-33044/29/2015/S&R(R), Dated: 22.11.2016

Check list for getting approval for laying of Gas Pipeline on NH land

Sl. No.	Item	Information/ Status	Remarks
1	General Information	Permission for laying of CNG Gas Pipeline of M/s. Megha Engineering & Infrastructures Private Limited abutting to NH-44 of Hyderabad to Bangalore section	
1.1	Name and Address of the Applicant / Agency	M/s. Megha Engineering & Infrastructures Ltd, Subhishi Complex, 2 nd Floor, Mokila, Rangareddy (Dist) Telangana State.	
1.2	National Highway Number	NH-44	
1.3	State	Telangana	
1.4	Location	Nandigama Village In Rangareddy District in the state of Telangana.	
1.5	(Chainage in Km)	Crossing at Km. 36/170 (RHS) to (LHS) on NH-44 of Hyderabad to Bangalore Section	
1.6	Length in Meters	60.00 m	
1.7	Width of available ROW	60.00 m	
	(a) Left side from center line towards increasing chainage (km) direction	As per attached Drawing	
	(b) Right side from center line towards increasing chainage (km) direction	As per attached Drawing	
1.8	Proposal to lay the Utility		
	(a) Left side from center line towards increasing chainage (km) direction	---	
	(b) Right side from center line towards increasing chainage (Km) direction	Yes, As per attached Drawing	
1.9	Proposal to acquire land	Right to use of NH ROW act is required for laying the Gas Pipeline across the NH ROW as per circular	
	(a) Left side from center line	NO	
	(b) Right side from center line	NO	
1.10	Whether proposal is in the same side where land is not to be acquired	YES	
	If not then where to lay the Gas Pipeline	NA	
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 Lanes	
1.13	Proposed Number of lanes (2 lane with paved shoulders/4 / 6/8 lanes).	No	
1.14	Service road existing or not	NA	
	If yes then which side		
	(a) Left side from center line	NA	
	(b) Right side from center line	NA	
1.15	Proposed Service road	No	
	(a) Left side from center line	NA	
	(b) Right side from center line	NA	
1.16	Whether proposal to lay Utility is after the service road or between the service road and main carriageway	(Crossing of gas pipe line as shown in drawing by HDD Method)	

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1.17	Whether carrying of Gas pipeline has been proposed on highway Bridges. If Yes, then mention the methodology proposed for the same	No	
1.18	Whether carrying of pipeline has been proposed on the parapet/any part of the bridges. If yes, then mention the methodology proposed for the same.	No	
1.19	If crossings of the road involved If Yes, it shall be either encased in pipes or through structure or conduits built for that purpose at the expenses of the agency owning the line	Yes	
	(a) Whether existing drainage structures are allowed to carry utility Pipes	No	
	(b) Is it on a line normal to NH	No	
	(c) What are the distances of crossing the utility pipelines from the existing structures? Crossings shall not be too near the existing structures on the National Highway. The minimum distance being 15 meter.	No Structures available	
	(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.	Using 300 MM DIA Carbon steel casing	
	(e) Ends of the casing / conduit pipe shall be sealed from the outside, so that it does not act as a drainage path.	Yes (Providing the same)	
	(f) The casing/conduit pipe should, as minimum extend from drain in cuts and toe of slope in the fills.	Yes (Providing the same)	
	(g) The top of the casing/conduit pipe should be at least 1.2 meter below the surface of the road subject to being at least 0.3 m below the drain inverts. Mention the proposed details.	Yes (Providing the same)	
	(h) Mention the methodology proposed for crossing of road for proposed Sewage /gas pipe line. Crossing shall be by boring method (HDD) (Trench-less Technology), specially. Where the existing road pavement is of cement concrete or dense bituminous concrete type.	Yes (Providing the same)	
	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 (Providing the same)	
2	Document/ Drawing to be enclosed with the proposal	YES Enclosed	
2.1	Cross section showing the size of trench for open trenching method. (Is 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 outer pipe (ii) Located as close to the extreme edge of the right-of-way as possible but not less than 15 meter from the center – 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 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.	NA NA NA NA	

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2.2	Cross section showing the size of pit and location of cable for HDD method	Yes Drawing Enclosed	
2.3	Strip plan/route Plan showing the utility /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.	Enclosed	
2.4	Methodology for laying of the utility pipe line.		
	(a) The trench width should be at least 30 cm. but not more than 60 cm wider than the outer diameter of the pipe.	Will be provided	
	(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.	Will be provided	
	(c) The back fill shall be completed in two stage (I) side fill to the level of the top of the pipe and (II) overfill to the bottom of the road crust.	Will be provided	
	(d) The side-fill shall consist of granular material laid in 15 cm layers each consolidated by mechanical 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.	Will be provided As per norms	
	(e) The road crust shall be built to the same strength as the exiting crust on either side of the trench. Care shall be taken to avoid the formation of a dip at the trench.	Will be provided	
	(f) The excavation shall be protected by flagman, signs and barricades, to avoid the formation of a dip at the trench.	Will be provided	
	(g) If required, a diversion shall be constructed at the expense of agency owning the utility line	Will borne by us	
2.4.2	Horizontal Directional Drilling 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.	HDD method	
3	Draft License Agreement is signed by two witnesses?	Yes Enclosed	
3.1	The license fee estimated as per Ministry's circular No. RW/NH-33044/29/2015&R(R), dated 22.11.2016	Yes Undertaking enclosed	
4	Whether performance Bank Guarantee as per ministry's Circular no. RW/NH-33044/29/2015&R(R) dated 22.11.2016 is obtained.	Yes Undertaking enclosed	
4.1	Confirmation of BG has been obtained or not as per MoRTH/NHAH guidelines	Yes	
5.	Affidavit / Undertaking from the Applicant for the following is to be furnished	Yes	
5.1	Undertaking for Not to Damage any other utility, if damaged then to pay the losses either to NHAH or to the concerned agency	YES Enclosed	

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5.2	Undertaking for Renewal of Bank Guarantee as and when asked by MoRTH/NHAI.	YES Undertaking Enclosed	
5.3	Undertaking for Confirming all standard condition of Ministry Circulars and NHAI's guidelines.	YES Enclosed	
5.4	Undertaking for Indemnity against all damages and claims	YES Enclosed	
5.5	Undertaking for management Traffic movement during laying of Gas Pipeline Line Without hampering the traffic.	YES Enclosed	
5.6	Undertaking that If any claim is raised by the Concessionaire/contractor then the same has to be paid by the applicant.	YES Enclosed	
5.7	Undertaking that prior approval of the NHAI shall be obtained before undertaking any work of installation, shifting or repairs, or alterations to the utility located in the National Highway right-of ways.	YES Enclosed	
5.8	Undertaking that expenditure, if any, incurred by NHAI for repairing any damage caused to the National Highway by the laying, maintenance or shifting of the utility line will be borne by the applicant agency owning the line.	YES Enclosed	
5.9	Undertaking that text of the license deed is as per verbatim of MoRTH format (issued vide Ministry's Circular no. RW/NH-33044/29/2015/S&(R) dated 22.11.2016)	YES Enclosed	
5.10	Undertaking that the applicant has obtained various safety clearances from the representative authorities such as directorate of Electricity, Chief controller of Explosives, Petroleum and Explosive safety Organization, Oil Industry safety Directorate, State/Central Pollution Control Board and any other statutory clearance s applicable. Before applying to Highway administration	YES Enclosed	
5.11	If the 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 desired by the MoRTH/NHAI at the cost of the agency owning the utility line within a reasonable time (not exceeding 60 days) of the intimation given.	YES Enclosed	
5.12	Certificate from the applicant in the following in format (i) Laying of gas pipe line will not have any deleterious effects on any of the bridge on any of the bridge components and roadway safety for traffic. (ii) "We do undertake that 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/MoRTH" for future six-laning or any other development."	NA YES Undertaking Enclosed	
6	Who will sign the agreement on behalf of Gas Pipe line agency?	S.S. Pavan Kumar Project Incharge – CGD Rangareddy M/s. Megha Engineering & Infrastructures Private Limited	
	Power of Attorney to sign the agreement is Available or not	Available Enclosed	
7	The EE/PD, will submit the following Certificated		
7.1	Certificate for confirming of all standard condition issued vide Ministry Circular No. RW/NH-33044/29/2015/S&(R), Dated: 22.11.2016	YES	


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7.2	<p>Certificate from EE/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 with 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."</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-laning 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-laning.</p>	NA	
8	<p>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 cable/ducts has also been granted as a right of way to the concessionaire under the concession agreement for up gradation of (_____ section from Km _____ to Km _____, of NH No. _____ on build, Operate and transfer basis) and therefore the licensee shall honor the same.</p>	<p>Standard license deed as per Ministry guidelines of issued vide Letter No. RW/NH-33044/29/2015/S&R(R), Dt. 22.11.2016</p>	
9	<p>Who will supervise the Work of laying of Gas Pipeline.</p> <p>(a) On behalf of the Applicant</p> <p>(b) On behalf of MoRTH/NHAI</p>	Megha Gas Site Engineer Independent Engineer	
10	<p>Who will ensure that the defects in road portion after of laying of Gas pipeline are corrected and if not corrected then what action will be taken</p>	NH/NHAI / Consultant	
	<p>(a) On behalf of the Applicant</p> <p>(b) On behalf of NHAI / MORTH</p>	Megha Gas Site Engineer Independent Engineer	
11	<p>Who will pay the claims for damages done/ disruption in working of Concessionaire if asked by the Concessionaire</p>		
	<p>On behalf of the Applicant</p>	<p>S.S. Pavan Kumar Project Incharge – CGD Rangareddy M/s. Megha Engineering & Infrastructures Private Limited</p>	
12	<p>A certificate from EE/PD that he will enter the proposed permission in the register of records of the permissions in the prescribed proforma (copy enclosed)</p>	Enclosed	
13	<p>If any previous approval is accorded for laying of Gas Pipeline then Photocopy of register of records of permissions accorded (as maintained by EE/PD) be enclosed</p>	No	



Name, Designation and signature of the authorized representation of applicant

[Signature]

[Signature]

Name, Designation and signature of the concerned field authority of NHAI

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METHODOLOGY FOR HORIZONTAL DIRECTIONAL DRILLING (HDD)

HDD installation involves four main steps:

- 1) pre-site planning;
- 2) drilling a pilot hole;
- 3) expanding the pilot hole by reaming; and
- 4) pull back of pre-fabricated pipe.

1. Pre-Site Planning

- A determination is made as to whether an HDD is technically and geo-technically feasible by studying existing geological data and conducting field investigations to assess the subsurface conditions and characteristics likely to be encountered during the drill.
- If an HDD is determined to be feasible, a drill path is designed to meet the requirements of the crossing and appropriate drill entry and exit locations are selected.
- An allowance is made in the design of the drill path for any potential changes in the obstacle (i.e., stream migration or cutoff development) to be drilled under and the drill entry and exit points are refined.

2. Drilling the Pilot Hole

- An HDD drill rig and supporting equipment are set-up at the drill entry location
- determined during the pre-site planning phase.
- A pilot hole is drilled along the predetermined drill path.
- Periodic readings from a probe situated close to the drill bit are used to determine the horizontal and vertical coordinates along the pilot hole in relation to the initial entry point; the pilot hole path may also be tracked using a surface monitoring system that determines the down hole probe location by taking measurements from a surface point.
- Drilling fluid is injected under pressure ahead of the drill bit to provide hydraulic power to the down hole mud motor (if used), transport drill cuttings to the surface, clean build-up on the drill bit, cool the drill bit, reduce the friction between the drill and bore wall, and stabilize the bore hole.

3. Reaming of the Pilot Hole

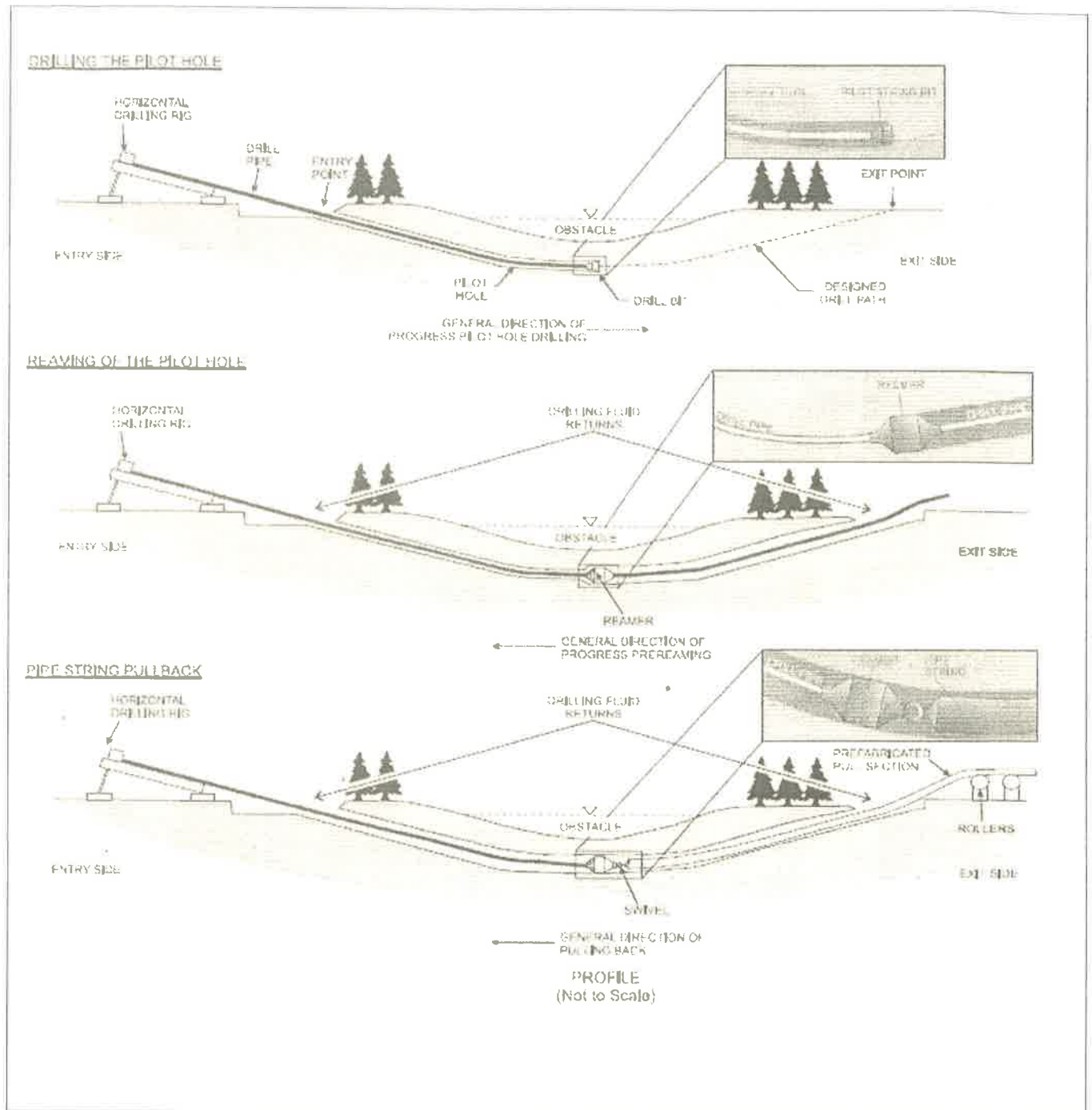
- The down hole assembly is removed from the drill string upon breaking the ground surface at the exit location and is replaced with a back reamer;
- The drill string is pulled back through the bore hole and the back reamer enlarges the diameter of the drill hole;
- The reamer may be pulled from the pipe side of the HDD crossing if additional passes with the reamer are required to achieve the desired bore hole diameter; and

- The reaming stage may not be necessary during HDDs for small diameter pipelines where the bore hole created by the pilot hole drill is of adequate size to pull back the pipe string

4. Pipe String Pull back

- Pipe is welded into a pipe string or drag section, that is slightly longer than the length of the drill, on the exit side of the bore hole.
- The pipe is typically coated with a corrosion and abrasion resistant covering, and is commonly hydrostatically pretested to ensure pipeline integrity.
- The pipe string is pulled over rollers into the exit hole and the pullback continues until the entire pipe string has been pulled into the bore hole.
- The external coating of the pipe string visible at the entry point is inspected for damage upon completion of the pull back.
- An internal inspection of the pipe string is performed to identify any damage done to the pipeline during the pull back.
- Upon successful pull back of the pipe string, the drilling equipment is dismantled and demobilized.
- The pipe string is connected to the conventionally laid pipeline and work areas are reclaimed with the rest of the pipeline right-of-way.

Drilling of the pilot hole and pipe string pull back are illustrated bellow figure



METHODOLOGY FOR OPEN CUT / OPEN TRENCHING

- Before starting trenching, center line of the trench to be checked with reference to the centerline of Route.
 - CONTRACTOR will excavate and maintain the pipeline trench on staked centerline as per alignment sheets taking into account the horizontal curves of the pipeline.
 - Trenchers/JCB will be used for digging pipeline trench on cleared and graded Route.
 - Suitable crossing will be provided and maintained over the Route wherever necessary to permit general public to cross or move stock or equipment from side of the trench or another.
 - In steep slopes wherever there is danger of landslides, the pipeline trench shall be maintained open only for the time strictly necessary.
 - For cased crossings, the pipeline will be taken through the casing pipe, the top of which will be at least 1.5 meters below the road top as specified or as per the requirements of the authorities, whichever is deeper. All National Highways shall be cased crossing installed by boring method.
 - The depth of the trench will be such as to provide minimum cover as stipulated below for reference:

➤ Industrial, Commercial & Residential Area	-1.50 meter
➤ Minor Water Crossings/Canal/Drain/Nallah /Stream	-1.50 meter
➤ Drainage ditches at road & railway crossing	- 1.50 meter
➤ Rocky Terrain	-1.50 meter
➤ Uncased / Cased road crossing/Station approach	-1.50 meter
➤ Cased Railway Crossing	- 1.70 meter
➤ Other areas	-1.50 meter
➤ River Crossing for which scour depth is defined (below scour)	- 2.50 meter
➤ Marshy land/Creek area	-1.50 meter
➤ River Crossing (bank width 50meters) for normal soil	- 2.50 meter
➤ In Rocky Strata	-1.50 meter
- In case pipeline is located within 15 meters from any dwelling unit the cover shall be increased by 300mm over & above that specified. However, requirements of cover mentioned in the alignment sheet / drawing shall govern
- The pipe string will be lifted by minimum 02 Hydra and the maximum distance between booms permitted will be 18-20 Mtrs. and in no case it will exceed this limit.
 - Standard pipe belt can be used and demonstration will be carried out so that pipe coating is not damaged and non-abrasive pipe belt will be used. No slings will be put around the field joint

METHODOLOGY FOR RESTORATION

1. Restoration:

Workspace will be cleaned of all scrap and debris and restored to such stable and usable condition of the right of way prior to laying of the pipeline. We will restore the original shoreline contours and conditions to the satisfaction of land owner and Governmental Agencies having jurisdiction over the area and will obtain the NOC from the land owner and all.

2. Surplus Material:

Contractor will collect and return the entire surplus and defective materials, as per provision of contract, for company supplied materials, after completion of work at company's designated stock pile areas. The reconciliation of surplus free issue line pipe shall be as per requirements of commercial condition of contract.

3. Disposal:

- All surplus and defective materials and all trash, and spoiled materials will be collected and disposed.
- The ROW will be cleared of all rubbish, broken skids, empty cans, card board, sacks, stumps, trash and leftover construction material. All burnable matter shall be burnt. If burning is not allowed, Contractor will haul the clean-up material to an approved dumping area. All scrap metal and unburnable material will be disposed of, in an appropriate manner, but never be buried in the ROW.
- All loose stone and rock exposed by the construction operations and scattered over the ROW or adjacent grounds will be removed by Contractor and shall be transported to a location considered suitable by the land owner and/or tenant, or by authorities having jurisdiction, for satisfactory disposal. For stones, gravel or other hard material which may be buried in the trench the provisions of the specifications will apply with the understanding that the use of the land by the land owner and/or tenant shall not be interfered with. Special precautions will be taken near steep slopes prone to erosion and landslides. Necessary steps shall be taken to ensure the rapid growth of grass by providing wicker barriers and by regulating the drainage of surface waters.
- The ROW and the backfilled trench in particular will be finished in such ways that after settlement of the soil, the road surface are at their nearest possible original level.

METHODOLOGY FOR BACKFILLING

- Backfilling will not be done until the pipe and appurtenances have been properly fitted and the pipe is according to the ditch profile at the required depth that will provide the required cover and it is not riding upon any stone, hard core etc., and has a bed which is free of extraneous material and which allows the pipe to rest smoothly and evenly.
- Backfilling will be carried out immediately after the pipeline has been laid in the trench.
- The backfill material will be soil, sand, clay or other materials containing no materials which could damage the pipe and/or coating or leave voids in the backfilled trench & even backfill material will not disturb or harm the surrounding area/Environment.
- Warning mat will be provided at depth of 0.5 mtr. From the ground level.
- Sand/soft soil padding of minimum 150 mm thickness around pipeline wherever required in areas where trenching has been done in rock or gravel or hard soil
- The surplus material will be neatly crowned directly over the trench and the adjacent excavated areas on both sides of the trench to such a height, which will, provide for future settlement of the trench backfill during the maintenance period and thereafter
- The crown will be high enough to prevent the formation of the depression in the soil when backfill has settled into its permanent position.

METHODOLOGY FOR RESTORATION

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केनरा बैंक



Canara Bank

(H.O. : BANGALORE)

DPDO MASAB TANK - HYDERABAD

REF: NHAI/PIU-HYD/BG/1183

DT: 03/08/2022

Place: Hyderabad

To,
The Project Director
NHAI
PIU - HYDERABAD.

Dear Sir,

Sub: Confirmation of Bank Guarantee (BG) issued by UNION BANK OF INDIA on 11.07.2022 for Rs. 15,000 /- issued to you on behalf of " M/S MEGHA ENGINEERING AND INFRASTRUCTURES LTD. " in favor of NHAI.

Ref : Your letter dated 02.08.2022

With reference to the subject, we confirm you that we have received a bank guarantee in our SFMS package, the detail of which are below:

Bank Name: UNION BANK OF INDIA

Beneficiary: NHAI

Bank guarantee number: 005711GL0018522

Date of issue: 11.07.2022

Validity period of guarantee: 10.07.2023

Bank date for Lodgement of claim: 10.10.2023

Amount: Rs 15,000 /- (Rupees Fifteen Thousand only)

It is certified that this information is furnished without risk and responsibility on our part in any respect whatsoever more particularly either as guarantor or otherwise.

कृते केनरा बैंक For CANARA BANK

A. S. Sankar

Sr Branch Manager, *सि. पी. डी. ऑ. सहाय, हैदराबाद (DP: 13051)*
Canara Bank Senior Manager, DPDO Br, Hyd-500028
DPDO Masab Tank (13051)

10-1-127, *सि. पी. डी. ऑ. सहाय, हैदराबाद (DP: 13051)*
PHONE No. 9440905039 (G)
DPDO MASAB TANK BRANCH,
040 23436966 (ADV)
HYDERABAD-500 028.
E-Mail : cb13051@canarabank.com
website: canarabank.com



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)
NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Road Transport & Highways, Government of India)



परियोजना कार्यान्वयन इकाई - हैदराबाद

आवास सं : 25A & 28A, भारत का प्रशासनिक स्टाफ कॉलेज, कॉलेज पार्क कैम्पस, सड़क सं : 3, बंजारा हिल्स, हैदराबाद - 500 034, तेलंगाना

PROJECT IMPLEMENTATION UNIT - HYDERABAD

Off.No. 25A & 28A, Administrative Staff College of India (ASCI), College Park Campus, Road No.3, Banjara Hills, Hyderabad- 500 034, Telangana

Land Mark : Near TV9 Bus Stop

टेली / Tele : 040-29550558 ई-मेल / Email : hyd@nhai.org / nhaihyd@gmail.com

NHAI/PIU-HYD/BG/2022-23/1183

Date: 02.08.2022

To,
The Bank Manager
Canara Bank
Masab Tank
Hyderabad.

Sub: NHAI-PIU-Hyderabad- Bank Guarantee issued on behalf of M/s. Megha Engineering & Infrastructures Ltd in favor of National Highways Authority of India- Confirmation of Bank Guarantee requested -reg.

Ref: BG.No.005711GL0018522 Date: 11.07.2022

Sir,

The details of Bank Guarantee issued on behalf of M/s. Megha Engineering & Infrastructures Ltd in favor of NHAI by The Union Bank of India are as follows:


Sl.No	BG No. & Date	BG Amount (RS)	Valid up to
1	BG.No.005711GL0018522 Date: 11.07.2022	Rs.15,000/-	10.07.2023

It is requested to provide the confirmation of above Bank Guarantee.

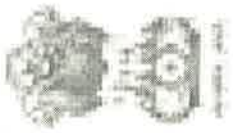
Thanking You

Encl: Copy of Bank Guarantee

Yours faithfully


(P. Nageswara Rao)

GM (T) & Project Director



bharatkosh.gov.in
Government of India Receipt Portal

RECEIPT

Transaction Ref.No. 3007220014924

Dated: Jul 30 2022 8:36PM

Received from M/S. PROPOSAL FOR PERMISSION FOR LAYING OF NATURAL
GAS PIPE LINE OF MEIL with Transaction Ref.No.3007220014924

Dated Jul 30 2022 8:36PM the sum of INR 57600 (Fifty-Seven Thousand Six
Hundred Only) through Internet based Online payment in the account of

License fee for laying of utility services, , Laying of gas pipeline crossing at
Km36/170 onNH-44,HYD-BNG.

**Disclaimer:- This is a system generated electronic receipt, hence no physical signature
is required for the purpose of authentication**

Printed On: 30-07-2022 08:37:41

Courtesy :- Controller General of Accounts

BG No.: 0057 / TL L0018522

Date: 11/7/2022

BG Amount: Rs.15,000/-

Validity up to: 10.07.2023

Claim validity up to: 10.10.2023

The liability of the Bank under this Guarantee shall not be affected by any change in the constitution of the Licensee or of the Bank.

This guarantee shall also be operatable at our **Union Bank of India**, Balanagar Branch, S-1, Technocrat Industrial Estate, Balanagar, Hyderabad - 500 037, from whom, confirmation regarding the issue of this guarantee or extension / renewal there of shall be made available on demand. In the contingency of this guarantee being invoked and payment there under claimed, the said branch shall accept such invocation letter and make payment of amounts so demanded under the said invocation.

Notwithstanding anything contained herein before, our liability under this guarantee is restricted to **Rs.15,000/- (Rupees fifteen thousand only)** and the guarantee shall remain valid till **10.07.2023**. Unless a claim or a demand in writing is made upon us on or before **10.10.2023** all our liability under this guarantee shall cease.

The guarantor / bank hereby confirms that it is on the SFMS (Structural Finance Messaging System) platform & shall invariably send an advice of this Bank Guarantee to the designated bank of NHAI detailed as under:

Beneficiary Account Details of RO - Hyderabad as Under:

Particulars	Details
Name of Beneficiary	National Highways Authority of India
Name of the Bank	Canara Bank
Account No.	0798201001991
IFSC code.	CNRB0013051
Branch	Masab Tank Branch, Hyderabad -500028 (Telangana)

NOTWITHSTANDING ANYTHING CONTAINED HEREIN:

- Our liability under this Bank Guarantee shall not exceed **Rs.15,000/- (Rupees fifteen thousand only)**.
- This Bank Guarantee shall be valid up to **10.07.2023**.
- Further a claim period of **3 Months** from the expiry date of the Bank Guarantee is available to make a demand under this Bank Guarantee. We are liable to pay the guarantee amount or any part thereof under this Bank Guarantee only and only if you serve upon us a written claim or demand on or before **10.10.2023**.

Contd.....3.

कृते यूनिवर्सल बैंक ऑफ इंडिया
बालानगर शाखा/
For Union Bank of India
Balanagar Branch
महेश/Maleedu Mahesh
(Forex Dept.)



कृते यूनिवर्सल बैंक ऑफ इंडिया / For UNION BANK OF INDIA

मुख्य प्रबंधक / Chief Manager
बालानगर शाखा / Balanagar Br. 500571

पीयूष कुमार सिंह
PIYUSH KUMAR SINGH
कर्मचारी कूट-642496
Staff Code-642496

760

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XXXXXXXXAA1207922935XXXX99}{4:

Message

:27:1/1

:20:00571IGL0018522

:23:ISSUE

:30:20220711

:40C:URDG

:77C:BG ISSUED IN FAVOUR OF
THE CHAIRMAN

NATIONAL HIGHWAY AUTHORITY OF INDIA
G5 6 SECTOR 10 DWARKA

NEW DELHI 110075 INDIA

ON BEHALF OF MEGHA ENGINEERING
AND INFRASTRUCTURES LTD

FOR AN AMOUNT RS 15000

BG EXPIRY DATE 10.07.2023

BG CLAIM EXPIRY DATE 10.10.2023

-}



100 ✓

Indemnity against all damages and claims as per Sl. No. 5.4 of Check list.

On maintenance here of and against claims, Proceeding, damages cost, charges and expenses, what so ever in respect thereof in relation there to. Failing such payments to claim in the above work we abide in accepting to recovery of such claims affected from any our assets.

Engineering & Infrastructures Limited



Ranga Reddy
501401
S.S. Pavan Kumar
Project Incharge
CGD Rangareddy

Phone No:
Sold To/Issued To:
Pavan
For Whom/ID Proof:
Megha eng



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₹ 0000020/-
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Agreement
38153311641386034922-00004982
3815331 13/2012

UNDERTAKING

We M/s. Megha Engineering & Infrastructures Limited, Subhishi Complex, 2nd Floor, Mokila, Rangareddy (Dist) Telangana State. Here by giving undertaking that Proposal for laying of Gas Pipeline Crossing at Km. 36/170 (RH5) to (LH5) on NH-44 of Hyderabad to Bangalore Section.

1. We hereby are undertaking that for not to Damage any other utility, if damaged then to pay the losses either to NHAI or to the concerned agency.
2. We hereby undertaking that we shall pay necessary fee for the use of National Highway land whenever the fee is asked by highway authorities in future.
3. We hereby undertaking that for Confirming all standard condition of Ministry Circulars and NHAI's guidelines.
4. We hereby are undertaking that for Indemnity against all damages and claims.
5. We hereby are undertaking that for management Traffic movement during laying of Utility Line Without hampering the traffic.
6. We hereby are undertaking that if any claim is raised by the Concessionaire/contractor then the same has to be paid by the applicant.
7. We hereby undertaking that prior approval of the NHAI shall be obtained before undertaking any work of installation, shifting or repairs, or alterations to the utility located in the National Highway right-of-ways.
8. We hereby 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 utility line will be borne by the applicant agency owning the line.
9. We hereby undertaking that for Renewal of Bank Guarantee as and when asked by MoRTH/NHAI.
10. We hereby undertaking that text of the license deed is as per verbatim of MoRTH format issued vide Ministry's Circular no. RW/NH-33044/29/2015/S&(R) dated 22.11.2016.
11. We hereby undertaking that If the 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 desired by the MoRTH/NHAI at the cost of the agency owning the utility line within a reasonable time (not exceeding 90 days) of the intimation given.
12. 'We do undertake that 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-laning or any other development.

For M/s. Megha Engineering & Infrastructures Limited

S.S. Pavan Kumar
Project Incharge - CGD Rangareddy



Phone No:
Sold To/Issued To:
Pavan
For Whom/ID Proof:
Megha eng



JAN-05-2022 12:40:29

₹ 0000100/-
ZERO ZERO ZERO ZERO ONE ZERO ZERO

Agreement
38153311641386429307-00004989
3815331 13/2012

AGREEMENT REGARDING GRANTING OF RIGHT OF WAY PERMISSIONS
FOR LAYING UTILITY SERVICES ON NATIONAL HIGHWAYS

Agreement for laying of Gas Pipeline crossing at Km. 36/170 (RHS) to (LHS) on NH-44 of Hyderabad to Bangalore Section.

This Agreement made this ____ day of ____ month of ____ year between MoRTH acting in his executive capacity through _____. (Hereinafter referred to as the "Authority" which expression shall, unless excluded by or repugnant to the context, include his successors in office and assigns) of the one part

And

M/s. Megha Engineering & Infrastructures Limited, Subhishi Complex, 2nd Floor, Mokila, Rangareddy (Dist) Telangana State. (Hereinafter called the 'Licensee') which expression shall, unless excluded by or repugnant to the context, include his successors/ administrate assignee on the second Part.

Whereas, the Authority is responsible, inter alia for development and maintenance of land in Km. 34/120 to 80/306 on NH-44 of Hyderabad to Bangalore Section ROW.

Whereas the Licensee proposes to lay ~~Telecom cable / OFC cable / electrical poles /~~ pipe line / ~~ducts~~ etc., referred to as utility services in subsequent paras.

Whereas, the licensee has applied to the Authority for permission for laying Gas Pipeline crossing at Km. 36/170 (RHS) to (LHS) on NH-44 of Hyderabad to Bangalore Section.

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

Now this Agreement witnesses 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 condition, namely

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.
6. Present policy of the MoRTH 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 least 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.
 - b) 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 50 m 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 are 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 nor 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 50 m 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/NHA/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 the agreement has retained one stamped copy each.

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

Signed by the Licensee/Licensees

Signed by for and on behalf of the President of India

S.S. Pavan Kumar
Project Incharge - C.D. Ranga Reddy
M/s. Megha Engineering & Infrastructures Limited



Name:
Designation: Regional Officer
National Highways Authority of India

In the Presence of

Signature

Signature

Name in full
Address

Name in full
Address

Signature

Signature

Name in full
Address

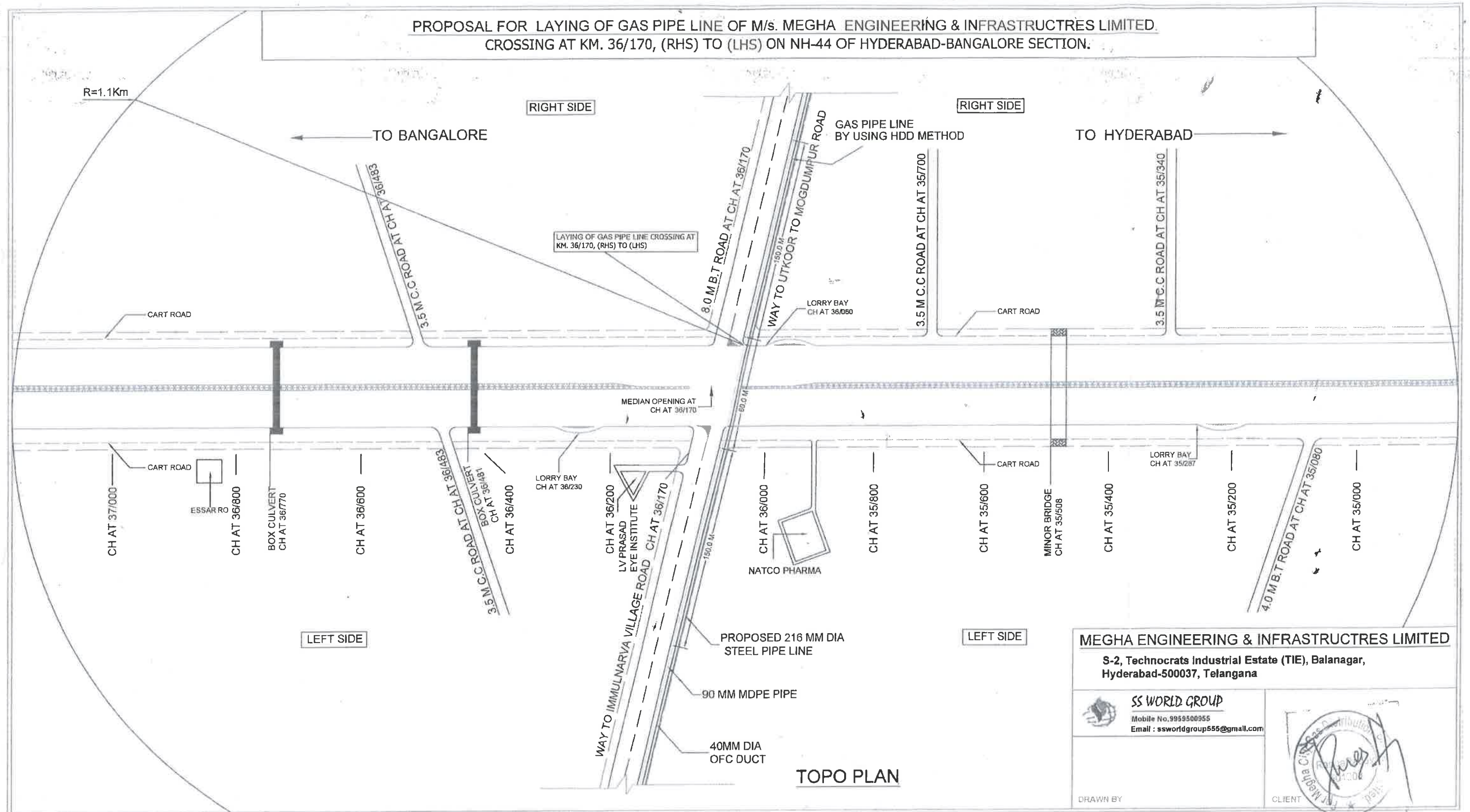
Name in full
Address

HOLDER OF GENERAL POWER OF ATTORNEY DATED _____ EXECUTED IN ACCORDANCE WITH
THE RESOLUTION NO. _____ DATED _____ PASSED BY HTE BOARD OF DIRECTORS IN THE
MEETING HELD ON _____ IN THE PRESENCE OF (WITNESSES):

PROJECT DIRECTOR
NATIONAL HIGHWAYS AUTHORITY OF INDIA
PROJECT IMPLEMENTATION UNIT
HYDERABAD - 500 034.



PROPOSAL FOR LAYING OF GAS PIPE LINE OF M/S. MEGHA ENGINEERING & INFRASTRUCTURES LIMITED.
CROSSING AT KM. 36/170, (RHS) TO (LHS) ON NH-44 OF HYDERABAD-BANGALORE SECTION.



TOPO PLAN

MEGHA ENGINEERING & INFRASTRUCTURES LIMITED

S-2, Technocrats Industrial Estate (TIE), Balanagar,
Hyderabad-500037, Telangana



SS WORLD GROUP

Mobile No. 9959500955

Email : ssworldgroup555@gmail.com

DRAWN BY

CLIENT



Blue
SE

PROJECT DIRECTOR
NATIONAL HIGHWAYS AUTHORITY OF INDIA
PROJECT IMPLEMENTATION UNIT
HYDERABAD - 500 034.