

Government of India

Ministry of Road Transport & Highways

Regional Office, Vijayawada

Door No.38-2-3/2, Gorledalapanna Veedhi, Near American Hospital, Punnammithota Vijayawada-520010. Tele: 0866-2970220 ; Fax: 0866-2571985

Invitation of Public Comments

Sub: Proposal of M/s.Megha Engineering and Infrastructure Limited seeking permission to lay 12" NB, 8-inch and 90 Mm MDPE Natural Gas pipeline from Km20.200 to Km25.600 parallel to NH-216 (NH-30) in the Ibrahimpatnam to Chandragudem section in Krishna District in the state of Andhra Pradesh - Public Comments - Reg.

The Manager, M/s Megha Engineering and Infrastructure Ltd, Krishna has submitted a proposal lay 12" NB, 8-inch and 90 Mm MDPE Natural Gas pipeline from Km20.200 to Km25.600 in a length of 5.40ZKm parallel to NH-216 (NH-30) in the Ibrahimpatnam to Chandragudem section in Krishna District in the state of Andhra Pradesh

2. As per the Ministry circular issued vide OM No.RW/NH/33044/29/2015/S&R(R) dated 22.11.2016, the Highway Administration will put the proposal in Ministry's website seeking claims/objections from public (on grounds of public inconvenience, safety and general public interest) for a duration of 30days.

3. In view of the above, the comments from public on the above mentioned proposal is invited on the address mentioned below.

Address: The Regional Officer
Ministry of Road Transport & Highways
Regional Office, Vijayawada
Door No.38-2-3/2, Gorledalapanna Veedhi,
Near American Hospital, Punnammithota, Vijayawada-520010.
Tele: 0866-2970220 ; Fax: 0866-2571985
Email: romorthvijayawada@gmail.com

4. This issues with the concurrence of the Highway Administration cum Regional Officer, MoRTH, Vijayawada.

Yours faithfully,

Encl: As above


(B. Sai Sreenivas)

Asst. Executive Engineer
Regional Office, Vijayawada.

Copy to:-

1. Senior Technical Director, NIC, Transport Bhawan, New Delhi-110001 for uploading on Ministry's website.
2. The Manager, M/s Megha Engineering and Infrastructure Ltd, Krishna for information.

Ref: WTESL/MORTH/Pkg-1/420

Date: 20th October '2020

To

The Regional Officer

Ministry of Road Transport and Highways (MoRT&H),
Door No. 38-2-3/2, Gorledalapanna Veedhi,
Near American Hospital, Punnamithota,
Vijayawada- 521010, Krishna District, A.P (St).



29/10
AEE (84)

Sub: Rehabilitation and Upgradation of NH-221 from Km. 0.000 to Km.32.735
(Ibrahimpattam Circle-Chandragudem Section) in the State of AP on EPC
Basis- **Permission to 90MM MDPE Pipe Line laying parallel to NH 30
from NH CH No.20.200 to 25.600 – Kuntamukkala to Mylavaram
Bypass**

Ref:1. MEIL/Krishna CGD/MORTH/Permission/1 dated 08.10.2020**2.RO/VJA/Misc-24/Access/NH-221/461, dt.15.10.2020**

Dear Sir,

With reference to your letter cited above and Authority Engineer cited above, we have conducted joint inspection at site per the Gas Pipeline locations along with EPC Contractor and M/s.Megha Engineering & Infrastructures Limited (MEIL).

The joint inspection concluded that the pipeline shall be laid beyond ROW/Edge of ROW (in the drain portion) without distributing the shoulder works or other works of EPC contractor.

The alignment detail are provided to the M/S.Megha Engineering & Infrastructures Ltd.,while executing the works they also co-ordinate with EPC and Authority Engineer team for any problems/Issues.

After laying the Gas Pipe Line site drawing shall be provided to the Authority for records etc. Hence, we request the Authority to accord permission for the Gas Pipeline laying beyond ROW/Edge of ROW.

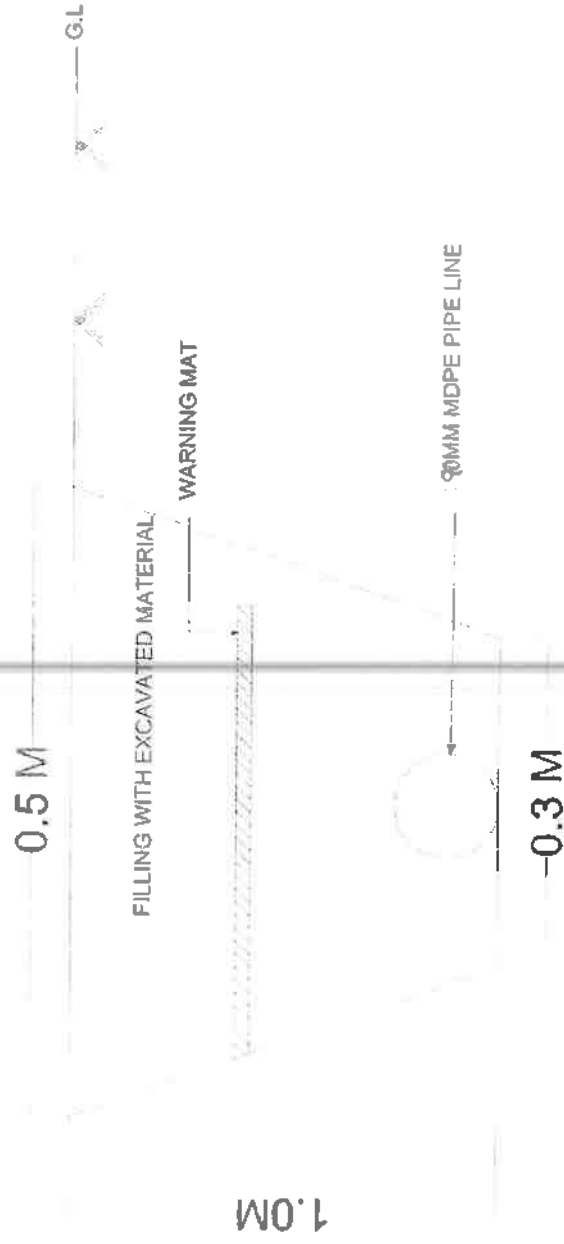
Thanking you and assuring our best services.

Yours Sincerely,

For '**Wadia Techno-Engineering Services Ltd**'

V.Kishore
Team Leader

DETAILS OF TRENCH CROSS - SECTION FOR 90 MM MDPE PIPELINE



meil

M/S MESHA ENGINEERING & INFRASTRUCTURES LIMITED
5/16 SHREEKANTH INDUSTRIAL ESTATE
RAJANGA - PUDUCHERRY 605 007

PLAN SHOWING THE PROPOSED DETAILS OF TRENCH CROSS - SECTION

SHEET NO : 1

DATE : 29/09/2020

AUTHORISED SIGNATORY

CGD
Krishna

[Signature]

CHECK - LIST NH-216

Guidelines for Project Directors for processing the proposal for laying of Gas Pipe Line in the land along Ministry of Road Transport Highways (MORTH).

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-IIIP/66/76 dated/11.05.1982
- 3) Circular No. RW/NH-11037/1/86/DOI(ii) dated 28.07.1993
- 4) Circular No. RW/NH-11037/1/86/DOI dated 19.01.1995
- 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 17.09.2003

Check list for getting approval for laying of Gas Pipe Line on NH 30

General information:

Sr.No.	Item	Description
1	National Highway No.	NH-230
2	State	Andhra Pradesh
3	Location	Myalavaram
4	Chainage in Km	Km20.200 to Km25.600
5	Side of NH	RHS from 20.200 to Km 25..600 &
6	Name of Highway Authority	Regional Officer, Ministry of Road Transport and Highways
7	Address of Highway Administration	Regional Officer, Ministry of Road Transport & Highways, Gorledalapanna Street, Vijayawada-520010
8	Name of the Company	M/s Megha Engineering & Infrastructure Ltd.

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 sewage/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.

Sl. No.	Item	Information/ Status	Remarks
1	General information		
1.1	Name and Address of the Applicant / Agency	M/s Megha Engineering & Infrastructures Ltd, 86/2D2, Choparametla Village, Agiripalli Mandal, Krishna District, Andhra Pradesh - 521211	
1.2	National Highway Number	NH - 30	
1.3	State	Andhra Pradesh	
1.4	Location	Myalavaram	NH 30
1.5	(Chainage in km)	Km20.200 to	NH-30



		Km25.600	
1.6	Length in Metres	5400m	
1.7	Width of available ROW		
	(a) Left side from center line towards increasing Chainage / km direction.	ROW -	
	(b) Right side from center line towards increasing Chainage / km direction.	ROW - 12.5 MTS 15.40 mts 5.4 KM	
1.8	Proposal to lay underground GAS P/L		
	(a) Left side from center line towards increasing Chainage / km direction.	from the edge of carriageway (strip chart enclosed)	
	(b) Right side from center line towards increasing Chainage / km direction.	3.5m from the edge of ROW carriageway (strip chart enclosed)	
1.9	Proposal to acquire land		
	(a) Left side from center line	NIL	
	(b) Right side from center line	NIL	
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	NA	
1.11	Details of already laid services, if any, along the proposed route	NA	
1.12	Number of existing lanes (2/4/6/8 lanes).	1 and 2 lane	
1.13	Proposed Number of lanes (2 lane with paved shoulders/4/6/8 lanes)	2 Lane with paved shoulder	
1.14	Service road existing or not		
	If yes then which side		
	(a) Left side from center line	NIL	
	(b) Right side from center line	NIL	
1.15	Proposed Service road		
	(a) Left side from center line	NA	
	(b) Right side from center line	NA	
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	
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	
1.18	Whether carrying of sewage / gas pipeline has been proposed on the parapet/any part of the bridges. If Yes, then mention the methodology proposed for the same.	NO	
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	
	(a) Whether existing drainage structures are allowed to carry sewage / gas pipeline	NA	

Ship



	(b) Is it on a line normal to NH	NA	
	(c) What is the distance of crossing the sewage / gas pipelines from the existing structures. Crossings shall not be too near the existing structures on the National Highway, the minimum distance being 15 meter.	45	
	(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.	NA	
	(e) Ends of the casing / conduit pipe shall be sealed from the outside, so that it does not act as a drainage path.	NA	
	(f) The casing/conduit pipe should, as minimum extend from drain to drain in cuts and toe of slope in the fills.	NA	
	(g) The top of the casing/conduit pipe should be at least. 1.2 meter below the surface of the road subject to being at least 0.3 m below the drain inverts. Mention the proposed details.	NA	
	(h) Mention the methodology proposed for 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.	Enclosed HDD	
	(i) The casing / conduit pipe shall be installed with an even bearing throughout its length and in such a manner as to prevent the formation of a waterway along it.	NA	
2	Document / Drawings to be enclosed with the proposal		
2.1	Cross section showing the size of trench for open trenching method (Is it normal size of 1.2m 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 carriage way. (iii) Shall not be permitted to run along the National Highways when	Enclosed	

	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.		
2.2	Cross section showing the size of pit and location of cable for HDD method	Enclosed	
2.3	Strip plan / Route Plan showing Gas pipe line, Chainage, width of ROW, distance of proposed Gas pipe line from the edged of ROW, important mile stone, intersections, cross drainage works etc.	Enclosed	
2.4	Methodology for laying of Gas pipe line.	Enclosed	
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	NO	
	(a)The trench width should be at least 30 cm, but not more than 60 cm wider than the outer diameter of the pipe.	Enclosed	
	(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.	YES	
	(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.	YES	
	(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 ponding will not be permitted.	YES	
	(e) The road crust shall be built to the same strength as the existing crust on either side of the trench. Care shall be taken to avoid the formation of a dip at the trench.	YES	
	(f) The excavation shall be protected by flagman, signs and barricades and red lights during night hours.	YES	

[Handwritten signature]

[Circular official stamp]

	(g) If required, a diversion shall be constructed at the expense of agency owning the utility line.	YES	
2.4.2	Horizontal Directional Drilling (HDD) Method	Enclosed	
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.	NA	
3	Draft License Agreement signed by two witnesses	ENCLOSED	
4	Performance Bank Guarantee in favour of The Regional Officer, Ministry of Road Transport & Highways has to be obtained @ Rs. 100/- per running meter (parallel to NH) and Rs. 1,00,000/- per crossing of NH for a period of one year, initially (extendable if required till satisfactory completion of work) as a security for ensuring/making good the excavated trench for laying the Gas pipe line/ducts by proper filling and compaction, clearing debris/loose 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.	SHALL BE OBTAINED SOON AFTER APPROVAL BY AUTHORITY	
4.1	Confirmation of BG has been obtained for knot as per MoRTH guidelines.		TO BE OBTAINED
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 MoRTH or to the concerned agency.	ENCLOSED	
5.2	For Renewal of Bank Guarantee.	ENCLOSED	
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 MoRTH/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 MoRTH/NHAI shall be obtained before undertaking any work of installation, shifting or repairs, or alterations to the Gas pipe line/any other utility located in the National highway right-of-ways.	ENCLOSED	
5.10	Expenditure, if any, incurred by MoRTH/NHAI for repairing any damage caused to the National Highway by the laying, maintenance of shifting of the Gas pipe line will be borne by the applicant agency owing the line.	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.	ENCLOSED	
5.12	Certificate from the applicant in the following format (i)Laying of Gas pipe line will not have any deleterious effects on any of the bridge components and roadway safety for traffic. (ii)"We do undertake that I/we will relocate service road/approach road/utilities at my/our own cost notwithstanding the permission granted within such time as will be stipulated by MoRTH/NHAI" for future six-lanning or any other development".		
6	Who will sign the agreement on behalf of Gas pipe line agency.	G.RAJA KUMAR Authorized Signatory, M/s.MEIL	
	Power of Attorney to sign the agreement is available or not.	YES	
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		

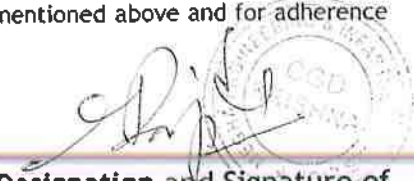
Handwritten signature and official stamp of the Project Director.

	11.05.1982, RW/NH-11037/1/86-DOI (ii) dated 28.07.1993, RW/NH-11037/1/86/DOI dated 19.01.1995, RW/NH-34066/2/95/ S & R dated 25.10.1999 and Circular No. RW/NH-34066/7/2003 S&R (B) dated 17.09.2003		
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 and 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>		
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 Gas Pipeline/duct has also been granted as a right of way to the concessionaire under the concession agreement for up-gradation of [----- section from Km ----- to Km ----- of NH No. ----- - on Build, Operate and Transfer Basis] and therefore, the licensee shall honour the same."</p>		
	Who will supervise the work of laying of Gas pipe line		
	(a) On behalf of the Applicant	Manager, M/s MEIL	
	(b) On behalf of NHAI/MORTH	Regional Officer	
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	Manager, M/s MEIL	


Signature

	(b) On behalf of NHAI/MoRTH	Regional Officer	
11	Who will pay the claims for damages done/disruption in working of Concessionaire if asked by the Concessionaire?		
	(a) On behalf of the Applicant	M/s Megha Engineering and Infrastructure Ltd.	
12	A certificate from PD that he will enter the proposed permission in the register of records of the permissions in the prescribed proforma (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.		

It is certified that the construction of the public/industrial utility has not been commenced. Further, we bear full responsibility for genuineness of the site particulars mentioned above and for adherence to the stipulated norms.


**[Name, Designation and Signature of
the authorized signatory of the
concerned applicant]**

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


**[Name, Designation and Signature of
the concerned field authority of
MoRTH/NHAI/PWD]**

Megha Engineering & Infrastructures Ltd.

An ISO 9001-2008 Company

RS 86/2D2, Nuzvid Road, Chopparametta Village, Agiripalli Mandal, Krishna District , A.P - 521211,
Tel: +91-0866-297004 | Email: info@meghagas.com | Web : www.meghagas.com
U45202TG2006PLC050271

Ref: MEIL/Krishna CGD/ Morth/ Permission /1

Date: 08/10/2020

To,
Regional Officer
Ministry of Road Transport & Highways,
D-No.38-2-3/2,Gorledalapanna Veedhi,
Near American Hospital ,Punnami Thota,
Vijayawada
Andhra Pradesh - 520010

Sub: 90Mm MDPE Pipe Line Laying Permission parallel to NH - 30 from NH Ch no: 20.200 to 25.600- Kuntamukkala to Mylavaram Bypass -Reg

Dear Sir,

We, Megha Engineering & Infrastructures Limited (MEIL) proudly claim that we have been contributing in Nation's progress by executing various projects in hydro carbons, irrigation, power (Gas based and Solar), domestic water supply schemes, roads and buildings, etc.

We are pleased to inform that we have been authorized by Petroleum and Natural Gas Regulatory Board (PNGRB), vide Schedule D dt 14 September 2015 to lay, Build Operate or Expand City or local Natural Gas Distribution Network to cater commercial, Industrial and domestic consumption in Krishna District Except Vijayawada city and copy of the same is enclosed herewith. You would appreciate that the natural gas being used is clean, safe and affordable by reducing the pollution and improving the living conditions of the citizens.

In view of the above mentioned benefits, the Govt. of India and Govt. of AP are keen to promote this project and in the process we entered into an MOU with Government of Andhra Pradesh. Copy of MOU also enclosed herewith.

Initially M/s MEIL as laid 12" NB, 8 inch and 90 Mm MDPE pipeline from Kuntamukkala to Mylavaram. Now to serve CNG to Autos at Mylavaram and also to Serve PNG to Domestic Holders at Mylavaram we need to laid the P/L Parallel to NH - 30 of NH Ch no: 20.200. to 25.6 00for a length of 5400 mts.

We wish to mention that pipeline will be laid at a depth of 1.0 to 1.20 mtr, from ground level depending on soil condition. All the road crossings will be restored to normal/original condition. National Highways, State Highway and Railways shall be crossed with Jacking and boring method / Open cut without disrupting the vehicular movement. Pipe line laying shall be carried out following good construction practices and safety rules for cross country and city Gas pipe line project and as per R & B guidelines & in line with State Highway & National Highway guidelines.



We are confident to complete the project in time with the cooperation and timely permission by MORTH / NHAI. Therefore we solicit your timely response as the pipeline laying contract is going to be awarded shortly and work is to be executed on round the clock basis.

The following documents are attached for reference:

1. Acceptance of Government authorization by PNGRB.
2. Copy of MOU with AP state government.
3. Alignment Sheets of Pipeline Route for Every 1000 mts section.
4. Copy of drawing of Trench Cross section for MDPE Pipeline.
5. Check List
6. Indemnity Bond
7. Undertaking
8. License Deed
9. Methodology for Open cut & HDD and Refilling of Trenches.

Further we request your good selves to advise/arrange the joint inspection with respective divisional MORTH/ NHAI officials for necessary action please.

Thanking you,

Yours Faithfully,



G Raja Kumar
Manager
Megha Engineering & Infrastructures Ltd.
KRISHNA - CGD.
Ph no: +91 - 9100057793

Calculation of License Fees & Bank Guarantee Amount

	SL.NO	Name of Village	Chainage from KM	Chainage To KM	Length route Mtrs.	Width Mtrs.	Utilized NH Land Area Sq.Mtrs.	Prevailing Circle rate of Land in Rs./Acre(As per revenue Records)	Prevailing Circle rate of Land in Rs./Sq.Mtrs(Rate per Acre/4046.86)	Amount Rs.	Remarks
	1	Kuntamukkal	20.200	23.200	3000	0.3	900	2450000	605	544866.8844	
	2	Mylavaram	23.200	25.600	2400	0.3	720	2850000	704	507059.7945	
			Total Meters		5400			Total Amount		1051926.679	
								Licence Fees(Rs/Month)=	1051926.679	8766.06	
									10 * 12		
								Total Licence fees for 5 years		525963.3395	
			ROAD CROSSING CHARGES							100000	
			Total License Fees payable by M/s Megha Engineering & Infrastructures Limited for Laying of Public Utility Services.							625964	

Amount of Performance Bank Guarantee to be submitted = Total length of utilities in meters * Rs. 100/- per route meter (<= 300 mm dia/width)
i.e. 5400* Rs. 100/-=540000/-

Performance Bank Guarantee Amount = 540000



UNIT RATES - Village WISE

District Name	KRISHNA	Mandal Name	MYLAVARAM
City/Town/Village	MYLAVARAM	Survey No.	

MYLAVARAM
Select <input type="button" value="v"/> -to View Survey No. When Double

S.No.	Subdivision	Nature Of Use	Land Rate Rs. per Acre	Effective Date (dd/mm/yyyy)
1.	MYLAVARAM	Dry land	1,250,000	01/08/2019
2.	MYLAVARAM	Wet Land double crop	1,250,000	01/08/2019
3.	MYLAVARAM	Coconut Garden	1,250,000	01/08/2019
4.	MYLAVARAM	House Sites	0	01/08/2019
5.	MYLAVARAM	Agricultural Land Rk for H.S.	5,142,500	01/08/2019
6.	MYLAVARAM	Land abutting NH/SH/ZPP/MPP	2,850,000	01/08/2019

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Notes :
 1. This is provisional information as per records maintained by registration department for the purpose of helping the registering public to estimate the stamp duty only, subject to change due to revision of market value once in a year OR anybody due to anomalies.
 2. For further details contact Sub Registrar office MYLAVARAM,
 14-28/1,
 MYLAVARAM, PONDUGALROAD, MYLAVARAM
 MYLAVARAM
 Phone : 223693

Unit Rates - Village Wise

District Name **KRISHNA**
City/Town/Village **KUNTAMUKKALA**
Mandal Name
Survey No.

to KONDURU
Select to view Survey No. Wise Details

S.No.	Subsection	Measure or Use	Land Rate Rs. per Acre	Effective Date (dd/mm/yyyy)
1.	KUNTAMUKKALA	Dry land	1,650,000	01/08/2019
2.	KUNTAMUKKALA	Wet Land double crop	1,650,000	01/08/2019
3.	KUNTAMUKKALA	Coconut Garden	1,650,000	01/08/2019
4.	KUNTAMUKKALA	House Sites	20,570,000	01/08/2019
5.	KUNTAMUKKALA	Agricultural Land fit for H.S	14,399,000	01/08/2019
6.	KUNTAMUKKALA	Land abutting NH/SH/ZPP/MPP	2,450,000	01/08/2019

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2. For further details contact Sub Registrar office

MTLAVARAM,

14-28/1,

MTLAVARAM, PONDIGALROAD, MTLAVARAM

MTLAVARAM

Phone : 223693

Unit Rates - Village Wise

District Name		Krishna	Mandal Name		MTLAVARAM	
City/Town/Village		MTLAVARAM	Survey No.		Select <input type="button" value="v"/> To view Survey No. Wise Details	
S.No.	Habitation	Picture Of Use	Land Rate Rs. per Acre	Effective Date (dd/mm/yyyy)		
1.	MTLAVARAM	Dry land	1,250,000	01/08/2019		
2.	MTLAVARAM	Wet Land double crop	1,250,000	01/08/2019		
3.	MTLAVARAM	Coconut Garden	1,250,000	01/08/2019		
4.	MTLAVARAM	House Sites	0	01/08/2019		
5.	MTLAVARAM	Agricultural Land fit for M.S.	5,142,500	01/08/2019		
6.	MTLAVARAM	Land abutting NH/SH/ZPP/MPP	2,850,000	01/08/2019		

Back

Note :

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2. For further details contact Sub Registrar office

MTLAVARAM,

14-28/1,

MTLAVARAM, PONDUGAL ROAD, MTLAVARAM

MTLAVARAM

Phone : 223693

UNIT RATES - VILLAGE

WISE

District Name		Mandal Name		MYLAVARAM	
City/Town/Village		Survey No.		Select Go to view Survey No. Wise Details	
S.No.	Habitatio n	Natur e Of Use	Land Rate Rs. per Acre	Effective Date (dd/mm/yyyy)	
1.	MYLAVARA M	Dry land	1,250.00 0	01/08/2019	
2.	MYLAVARA M	Wet Land double crop	1,250.00 0	01/08/2019	
3.	MYLAVARA M	Coconut Garden	1,250.00 0	01/08/2019	
4.	MYLAVARA M	House Sites	0	01/08/2019	
5.	MYLAVARA M	Agricultural Land fit for H.S.	5,142.50 0	01/08/2019	
6.	MYLAVARA M	Land abutting NH/SH/ZPP/MP	2,850.00 0	01/08/2019	

Back

Note :

1. This is provisional information as per records maintained by registration department for the purpose of helping the registering public to estimate the stamp duty only, subject to change due to revision of market value once in a year OR adhocy due to anomalies.

2. For further details contact Sub Registrar office

MYLAVARA

M, 14-28/1,

MYLAVARAM, PONDUGAL ROAD, MYLAVARAM

MYLAVARAM

Phone : 223693

UNIT RATES - VILLAGE WISE

District Name KRISHNA Mandal Name MYLAVARAM
City/Town/Village MYLAVARAM Survey No. Select To view Survey No. Wise Details

S.No.	Habitation	Nature Of Use	Land Rate Rs. per Acre	Effective Date (dd/mm/yyyy)
1.	MYLAVARAM	Dry land	1,250,000	01/08/2019
2.	MYLAVARAM	Wet Land double crop	1,250,000	01/08/2019
3.	MYLAVARAM	Coconut Garden	1,250,000	01/08/2019
4.	MYLAVARAM	House Sites	0	01/08/2019
5.	MYLAVARAM	Agricultural Land fit for H.S.	5,142,500	01/08/2019
6.	MYLAVARAM	Land abutting NH/SH/ZPP/MPP	2,850,000	01/08/2019

Back

Note :

1. This is provisional information as per records maintained by registration department for the purpose of helping the registering public to estimate the stamp duty only, subject to change due to revision of market value once in a year OR adhocy due to anomalies.

2. For further details contact Sub Registrar office

MYLAVA

RAM,

14-28/1,

MYLAVARAM,PONDUGALROAD,

MYLAVARAM MYLAVARAM

Phone : 223693

CHECK - LIST NH-216

Guidelines for Project Directors for processing the proposal for laying of Gas Pipe Line in the land along Ministry of Road Transport Highways (MORTH).

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/11.05.1982
- 3) Circular No. RW/NH-11037/1/86/DOI(ii) dated 28.07.1993
- 4) Circular No. RW/NH-11037/1/86/DOI dated 19.01.1995
- 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 17.09.2003

Check list for getting approval for laying of Gas Pipe Line on NH 30

General information:

Sr.No.	Item	Description
1	National Highway No.	NH-230
2	State	Andhra Pradesh
3	Location	Myalavaram
4	Chainage in Km	Km20.200 to Km25.600
5	Side of NH	RHS from 20.200 to Km 25..600 &
6	Name of Highway Authority	Regional Officer, Ministry of Road Transport and Highways
7	Address of Highway Administration	Regional Officer, Ministry of Road Transport & Highways, Gorledalapanna Street, Vijayawada-520010
8	Name of the Company	M/s Megha Engineering & Infrastructure Ltd.

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 sewage/gas pipelines on Highway Bridges shall not be permitted as Furnes/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.

Sl. No.	Item	Information/ Status	Remarks
1	General information		
1.1	Name and Address of the Applicant / Agency	M/s Megha Engineering & Infrastructures Ltd, 86/2D2, Choparametla Village, Agiripalli Mandal, Krishna District, Andhra Pradesh - 521211	
1.2	National Highway Number	NH - 30	
1.3	State	Andhra Pradesh	
1.4	Location	Myalavaram	NH 30
1.5	(Chainage in km)	Km20.200 to	NH-30



		Km25.600	
1.6	Length in Metres	5400m	
1.7	Width of available ROW		
	(a) Left side from center line towards increasing Chainage / km direction.	ROW -	
	(b) Right side from center line towards increasing Chainage / km direction.	ROW -12.5 MTS 5.4 KM	
1.8	Proposal to lay underground GAS P/L		
	(a) Left side from center line towards increasing Chainage / km direction.	from the edge of carriageway (strip chart enclosed)	
	(b) Right side from center line towards increasing Chainage / km direction.	3.5m from the edge of carriageway (strip chart enclosed)	
1.9	Proposal to acquire land		
	(a) Left side from center line	NIL	
	(b) Right side from center line	NIL	
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	NA	
1.11	Details of already laid services, if any, along the proposed route	NA	
1.12	Number of existing lanes (2/4/6/8 lanes).	1 and 2 lane	
1.13	Proposed Number of lanes (2 lane with paved shoulders/4/6/8 lanes)	2 Lane with paved shoulder	
1.14	Service road existing or not		
	If yes then which side		
	(a) Left side from center line	NIL	
	(b) Right side from center line	NIL	
1.15	Proposed Service road		
	(a) Left side from center line		
	(b) Right side from center line		
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	
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	
1.18	Whether carrying of sewage / gas pipeline has been proposed on the parapet/any part of the bridges. If Yes, then mention the methodology proposed for the same.	NO	
1.18	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	
	(a) Whether existing drainage structures are allowed to carry sewage / gas pipeline	NA	



	(b) Is it on a line normal to NH	NA	
	(c) What is the distance of crossing the sewage / gas pipelines from the existing structures. Crossings shall not be too near the existing structures on the National Highway, the minimum distance being 15 meter.	45	
	(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.	NA	
	(e) Ends of the casing / conduit pipe shall be sealed from the outside, so that it does not act as a drainage path.	NA	
	(f) The casing/conduit pipe should, as minimum extend from drain to drain in cuts and toe of slope in the fills.	NA	
	(g) The top of the casing/conduit pipe should be at least. 1.2 meter below the surface of the road subject to being at least 0.3 m below the drain inverts. Mention the proposed details.	NA	
	(h) Mention the methodology proposed for 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.	Enclosed	
	(i) The casing / conduit pipe shall be installed with an even bearing throughout its length and in such a manner as to prevent the formation of a waterway along it.	NA	
2	Document / Drawings to be enclosed with the proposal		
2.1	Cross section showing the size of trench for open trenching method (Is it normal size of 1.2m 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 carriage way. (iii) Shall not be permitted to run along the National Highways when	Enclosed	



	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.		
2.2	Cross section showing the size of pit and location of cable for HDD method	Enclosed	
2.3	Strip plan / Route Plan showing Gas pipe line, Chainage, width of ROW, distance of proposed Gas pipe line from the edged of ROW, important mile stone, intersections, cross drainage works etc.	Enclosed	
2.4	Methodology for laying of Gas pipe line.	Enclosed	
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	NO	
	(a)The trench width should be at least 30 cm, but not more than 60 cm wider than the outer diameter of the pipe.	Enclosed	
	(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.	YES	
	(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.	YES	
	(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 ponding will not be permitted.	YES	
	(e) The road crust shall be built to the same strength as the existing crust on either side of the trench. Care shall be taken to avoid the formation of a dip at the trench.	YES	
	(f) The excavation shall be protected by flagman, signs and barricades and red lights during night hours.	YES	



	(g) If required, a diversion shall be constructed at the expense of agency owning the utility line.	YES	
2.4.2	Horizontal Directional Drilling (HDD) Method	Enclosed	
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.	NA	
3	Draft License Agreement signed by two witnesses	ENCLOSED	
4	Performance Bank Guarantee in favour of The Regional Officer, Ministry of Road Transport & Highways has to be obtained @ Rs. 100/- per running meter (parallel to NH) and Rs. 1,00,000/- per crossing of NH for a period of one year, initially (extendable if required till satisfactory completion of work) as a security for ensuring/making good the excavated trench for laying the Gas pipe line/ducts by proper filling and compaction, clearing debris/loose 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.	SHALL BE OBTAINED SOON AFTER APPROVAL BY AUTHORITY	
4.1	Confirmation of BG has been obtained for knot as per MoRTH guidelines.		TO BE OBTAINED
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 MoRTH or to the concerned agency.	ENCLOSED	
5.2	For Renewal of Bank Guarantee.	ENCLOSED	
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 MoRTH/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 MoRTH/NHAI shall be obtained before undertaking any work of installation, shifting or repairs, or alterations to the Gas pipe line/any other utility located in the National highway right-of-ways.	ENCLOSED	
5.10	Expenditure, if any, incurred by MoRTH/NHAI for repairing any damage caused to the National Highway by the laying, maintenance of shifting of the Gas pipe line will be borne by the applicant agency owing the line.	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.	ENCLOSED	
5.12	Certificate from the applicant in the following format		
	(i)Laying of Gas pipe line will not have any deleterious effects on any of the bridge components and roadway safety for traffic. (ii)"We do undertake that I/we will relocate service road/approach road/utilities at my/our own cost notwithstanding the permission granted within such time as will be stipulated by MoRTH/NHAI" for future six-lanning or any other development".		
6	Who will sign the agreement on behalf of Gas pipe line agency.	G.RAJA KUMAR Authorized Signatory, M/s.MEIL	
	Power of Attorney to sign the agreement is available or not.	YES	
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		



[Handwritten signature]




	11.05.1982, RW/NH-11037/1/86-DOI (ii) dated 28.07.1993, RW/NH-11037/1/86/DOI dated 19.01.1995, RW/NH-34066/2/95/ S & R dated 25.10.1999 and Circular No. RW/NH-34066/7/2003 S&R (B) dated 17.09.2003		
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 and 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>		
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 Gas Pipeline/duct has also been granted as a right of way to the concessionaire under the concession agreement for up-gradation of [----- section from Km ----- to Km ----- of NH No. ----- - on Build, Operate and Transfer Basis] and therefore, the licensee shall honour the same."</p>		
	Who will supervise the work of laying of Gas pipe line		
	(a) On behalf of the Applicant	Manager, M/s MEIL	
	(b) On behalf of NHAI/MoRTH	Regional Officer	
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	Manager, M/s MEIL	



	(b) On behalf of NHAI/MoRTH	Regional Officer	
11	Who will pay the claims for damages done/disruption in working of Concessionaire if asked by the Concessionaire?		
	(a) On behalf of the Applicant	M/s Megha Engineering and Infrastructure Ltd.	
12	A certificate from PD that he will enter the proposed permission in the register of records of the permissions in the prescribed proforma (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.		

It is certified that the construction of the public/industrial utility has not been commenced. Further, we bear full responsibility for genuineness of the site particulars mentioned above and for adherence to the stipulated norms.


**[Name, Designation and Signature of
the authorized signatory of the
concerned applicant]**

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

**[Name, Designation and Signature of
the concerned field authority of
MoRTH/NHAI/PWD]**





ఆంధ్రప్రదేశ్ ఆంధ్ర ప్రదేశ్ ANDHRA PRADESH
4465 Date 22-09-2020 Rs. 100/-
to Sri GUNDA INDRASENAREDDY S/O NARSI REDDY,
GUNTUR
Whom MELL COMPANY, CHOPPERAMETLA

CR 752349
U.D. PRASADA RAO
LICENCED STAMP VENDOR
U.L.No. 08-28-093/2012
R.L.No. 05-28-002/2019
VALID UP TO: 31-12-2021
#79-3-SA, Kondevari Kandrika,
VIJAYAWADA-521 212
U: 9245164989

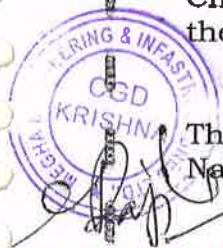
INDEMNITY BOND

Laying of 90 Mm dia. Gas Pipeline & OFC along the NH-216 from NH Ch. 20.200 Km to 25.600. Km.

We, M/s. Megha Engineering & Infrastructures Ltd. having Registered office at S-2, Technocrat Industrial Estate, Balanagar, Hyderabad - 500037, Telangana & its Office: M/s Megha Engineering & Infrastructures Ltd, 86/2D2, Choparametla Village, Agiripalli Mandal, Krishna District, Andhra Pradesh - 521211, we hereby indemnify to the Regional Officer, MORTH, Vijayawada for all damages and claims made by it, if any, due to the 90 Mm dia.

MDPE & OFC laying work along the NH-30 from NH Ch. KM 20.200 KM to NH Ch 25.600 KM in the state of Andhra Pradesh or any other cause attributable to the laying, Operation & Maintenance of Gas Pipeline.

That the licensee/licensees shall follow guidelines of Ministry of Petroleum & Natural Gas, Government of India Gazette Notification No. GSR 204(E) dated 13th



March 2002 regarding safety in operation & maintenance of pipeline. Any mishap/accident/due to poor maintenance/lack of supervision/ malpractices /natural calamities/or any other reasons causing loss of property/life or injury to any person/living beings shall be fully attributed to licensee/licensees shall be wholly and solely responsible for subsequent legal action/making good for the loss caused due to above to the properties at their own cost and to compensate the financial implication for the loss of life or injury to any person/living beings and NHAI/MoRT&H will not be responsible for such loss of property/life or injury to any person/living beings.

MORTH/Concessionaire shall not be held responsible for any consequential loss or damage in the event of any disruption of leakage in the pipeline or in the OFC/UG electrical cable/water supply lines/sewerage lines or any other cables laid in the ducts. Further same will be rectified as per the specification and directions of MORTH at our own cost and risk.

Thanking you.

Yours Faithfully,

G. Raja Kumar.

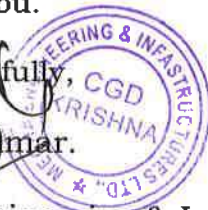
Manager,

Megha Engineering & Infrastructures Ltd.

R.S. No. 86/2D2, Choparametla village,

Agiripalli Mandal, Krishna Dist.

Ph no: +91- 9100057793





ఆంధ్రప్రదేశ్ ఆంధ్ర ప్రదేశ్ ANDHRA PRADESH

HH66 Date: 22-09-2020 Rs. 100/-

to Sri: GUNDA INDRA SENAREDDY S/O NARSI REDDY,
GUNTUR

Whom: MEIL COMPANY, CHOPPERAMETLA

CR 752350

U.D. PRASADA RAO
LICENCED STAMP VENDOR
O.L.No. 06-28-013/2012
R.L.No. 06-28-002/2019
VALID UP TO: 31-12-2021
78-3-SA, Kundavzri Kandrika,
VIJAYAWADA-521 212
M: 924818498F

LICENCE DEED FOR LAYING OF GAS PIPELINE ON NATIONAL HIGHWAY LAND (NH-30)

Laying of 90 Mm dia. Gas Pipeline & OFC along the NH-30 from NH Ch. 20.200 Km to 25.600 Km.

Agreement to lay Gas Pipeline at/from Kilometre/kilometre Ch. 20.200 to kilometres Ch. 25.600 on/along national Highway No. 30 in Survey No. _____ of the village of _____ Taluqs _____ of the Krishna district.

AN AGREEMENT made this _____ day of _____ (month) of _____ year (to be written in words)

_____ between the President of India/National Highways Authority of India (hereinafter called the Government which expression shall, unless excluded by or repugnant to the context, include his successors in office and assigns) of the one part and **MEGHA ENGINEERING & INFRASTRUCTURES LIMITED** (hereinafter called the 'Licensee' which expression shall, unless excluded by or repugnant to the

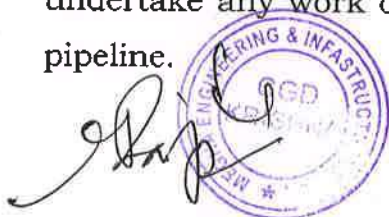
context, include his heirs its successors/ their successors and assigns) of the other Part.

WHEREAS the licensee has/licensees have applied to the Government/MORTH for permission to laying Gas pipeline at/from Kilometre/kilometre Ch. 20.200 to kilometre Ch. 25.600 on/along National Highway No. 30 in Survey No. _____ of the Village of _____ Taluka _____ of the Krishna district.

3. AND WHEREAS the Government/NHAI/MORTH have agreed to grant such permission on the terms and conditions hereinafter mentioned.

4. Now this Agreement witnessed that, in consideration of the conditions hereinafter contained and on the part of the Licensee/Licensees to be observed and performed, the Government/MORTH hereby grants to the licensee/licensees permission to lay Gas pipeline as per the approved drawing attached hereto subject to the following condition. Namely:-

- (i) That the licensee/licensees shall within three months from the date hereof but without interfering with the road traffic complete the laying Gas pipeline to the satisfaction of the Divisional Engineer/Project Director in charge of the National Highways (hereinafter referred to as the Divisional/Executive Engineer/Project Director as applicable) in accordance with the drawings and specifications approved by the Divisional/Executive Engineer/Project Director.
- (ii) That the licensee/licensees shall be responsible for restoring the road and at his/their own cost to its original condition after laying the Gas pipeline or, after any damage caused due to inadequate maintenance /operation of the Gas pipes.
- (iii) That in case of any burst or leak of Gas pipeline the Licensee/licensees shall bear the entire cost of restoration of damage caused to the road.
- (iv) That the licensee/licensees shall not without the prior permission in writing of the Divisional/Executive Engineer/Project Director undertake any work of shifting, repairs or alterations to the said Gas pipeline.



The block contains a handwritten signature in blue ink and a circular official stamp. The stamp is purple and contains the text 'ENGINEERING & INFRASTRUCTURE' around the perimeter, with 'KRD' in the center. There is also a small star at the bottom of the stamp.

- (v) That the Licensee/licensees shall at all time permit any duly authorized officer or servant of the Government/MORTH to inspect the said Gas pipeline.
- (vi) That the licensee/licensees shall be liable for any loss or damage caused to the Government/MORTH by drainage obstruction or any other like cause due to the said Gas pipeline.
- (vii) That the licensee/licensees within two months of a notice duly given to him to this behalf by the MORTH/ Government shall at his/their own cost remove the Gas pipeline and restore the road land to its original condition when required to do so by the Government/MORTH or by any person authorized on its behalf. The licensee/licensees shall not be entitled to any compensation on account of such removal or restoration.
- (viii) That if the licensee/licensees fails to execute any work which he has/they have agreed to execute under this agreement to the entire satisfaction of the Project Director MORTH/ Government. The work shall be executed by the Project Director MORTH/ Government at the cost of the Licensee/licensees and the amount shall be recoverable from the Licensee/licensees as arrears of land revenue without prejudice to any other remedies which may be open to the Government/MORTH in this behalf.
- (ix) That the licensee/licensees shall not sell, transfer or otherwise dispose of the premises without obtaining the previous consent of the Government/MORTH in writing.
- (x) That this agreement will remain in force for a period of five years from the date of execution in the first instance and be terminated by a notice of two months and the permission may not be renewed after the expiry of the said period.
- (xi) That the permission granted by this licence shall not in any way to be deemed to convey to the licensee any right to or over or any interest in Government land other than what is herein expressly granted.
- (xii) That during the subsistence of this licence, the Gas pipeline located on the road shall be deemed to have been constructed and continued only by the consent and permission of the Government so that the right of the licensee/licensees to the use thereof shall not become absolute and indefeasible by lapse of time.



(xiii) That the licensee/licensees shall bear the stamp duty charges on this agreement.


(xiv) Govt of India/MORTH will not be responsible for any damage of any kind by what so ever means natural or otherwise to the underground Gas pipeline.

5. The Gas pipeline shall not be brought into use by the licensee/licensees unless a completion certificate to the effect that the Gas pipeline have been laid in accordance with the approved specifications and drawings has been obtained from the Regional Officer MORTH.

6. The Licensee shall be abide by the conditions enclosed herewith as Annexure-I.

7. Notwithstanding anything contained in clause 4 (vii), the licence may be cancelled at any time by the Government for a breach of any condition of the licence and the licensee/licensees shall not be entitled to any loss caused to it by such cancellation, nor shall it be absolved from any liability already incurred under this agreement.

This Agreement has been executed in duplicate and each party to this agreement has retained one stamped copy each.

Signed by Shri  the licensee

Megha Engineering & Infrastructures Ltd.

The constituted attorney of the licensees

Signed by Shri _____

Project Director,
MORTH
India

For and on the behalf of the President
of India.



Wadia Techno-Engineering Services Limited

A Wadia Group Enterprise

CIN: U74220MH1960PLC011691

Authority's Engineer for NH-221 (Ibrahimpattam to AP / Telangana Border)

Project Office : D. No. 2-122, 2nd Floor, Girls High School Road, Mylavaram - 521 230, A.P.

Telephone : +91-88859-224000

E-mail : nh221_icept@wadiaengg.com

Ref: WTESL/MORTH/Pkg-1/420

Date: 20th October '2020

To

The Regional Officer

Ministry of Road Transport and Highways (MoRTH),

Door No. 38-2-3/2, Gorledalapanna Veedhi,

Near American Hospital, Punnamithota,

Vijayawada- 521010, Krishna District, A.P (St).

Sub: Rehabilitation and Upgradation of NH-221 from Km. 0.000 to Km.32.735
(Ibrahimpattam Circle-Chandragudem Section) in the State of AP on EPC
Basis- **Permission to 90MM MDPE Pipe Line laying parallel to NH 30
from NH CH No.20.200 to 25.600 - Kuntamukkala to Mylavaram
Bypass**

**Ref:1. MEIL/Krishna CGD/MORTH/Permission/1 dated 08.10.2020
2.RO/VJA/Misc-24/Access/NH-221/461, dt.15.10.2020**

Dear Sir,

With reference to your letter cited above and Authority Engineer cited above, we have conducted joint inspection at site per the Gas Pipeline locations along with EPC Contractor and M/s.Megha Engineering & Infrastructures Limited (MEIL).

The joint inspection concluded that the pipeline shall be laid beyond ROW/Edge of ROW (in the drain portion) without distributing the shoulder works or other works of EPC contractor.


The alignment detail are provided to the M/S.Megha Engineering & Infrastructures Ltd.,while executing the works they also co-ordinate with EPC and Authority Engineer team for any problems/Issues.

After laying the Gas Pipe Line site drawing shall be provided to the Authority for records etc. Hence, we request the Authority to accord permission for the Gas Pipeline laying beyond ROW/Edge of ROW.

Thanking you and assuring our best services.

Yours Sincerely,

For 'Wadia Techno-Engineering Services Ltd'


Y. Kishore
Team Leader



Regional Office : # 8-2-686/K/1&2, C3, 2nd Floor, Kintee Square, Rd No.12, Banjara Hills, Hyderabad - 500 034

Head Office : Raheja Point I, Wing 'A', Pt. Jawaharlal Nehru Road, Vakola, Santacruz (E), Mumbai 400055

Regd. Office: Neville House, J.N.Heredia Marg, Ballard Estate, Mumbai 400 001.

Website: www.wadiaengg.com

In the presence of

1 S. ~~Ch~~
(S. Chiranjeevi)

1

2 C. S. S. S. S.
(Ch. Indra Sena S. S.)

2

N.B. In case of BOT works following clause has to be inserted

"The permitted Highway on which Licensee has been granted the right to lay Gas pipeline 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 honour the same."

Brief Note on Importance of Pipe Line Laying

M/s Megha Engineering & Infrastructures Ltd. (MEIL) has been entrusted to lay the 90 Mm dia MDPE pipe line by Petroleum And Natural Gas Regulatory Board (PNGRB), to cater the needs of Compressor Natural Gas to RTC Buses and Autos at Mylavarm and also for PNG connections to House Holders. OFC duct is also being laid along the pipe line for communication purpose.


We wish to mention that the pipeline will be laid at a depth of 1.0 mtr. from ground level in normal condition and 1.2 mtr. For the entire road laying of pipe and site will be restored to normal condition to the satisfaction of the MORTH (NH Section) after completion of the work in all respects. National Highways, State Highways and Railways shall be crossed with Jacking and Boring/Open cut method without disrupting the vehicular movement. Pipe line execution shall be carried following all the safety rules and regulation of the good construction practices being followed for cross country and city Gas Pipe Line Project and as per MORTH guidelines & in line with State Highway & National Highway guidelines .

Hence it is requested to accord permission for laying the 90 Mm dia Gas supply Pipeline across the NHAI portion as mentioned above for a stretch of 5.400 Km on NH30 .This may be treated as urgent, because all the works i.e Award of Laying Pipe contract and Purchase of Gas supply Pipes are already completed.

Hence Kindly accord the permission for laying along the National Highway as shown in plan enclosed.

Thanking you.

Yours Faithfully,



G. Raja Kumar
Manager,
Megha Engineering & Infrastructures Ltd.
R.S. No. 86/2D2, Choparametla village,
Agiripalli Mandal, Krishna Dist.
Ph no: +91- 9100057793



ఆంధ్రప్రదేశ్ ఆంధ్ర ప్రదేశ్ ANDHRA PRADESH

4467 Date 22-09-2020 Rs. 100/-

to Sri: GUNDA INDRASENAREDDY s/o NARSI REDDY,
GUNTUR
Whom: MEIL COMPANY, CHOPPERA METLA

CR 752351

U.D. PRASADA RAO
LICENSED STAMP VENDOR
O.L.No. 06-28-013/2012
R.L.No. 06-28-002/2019
VALID UP TO: 31-12-2021
78-3-9A, Kundavari Kandrika,
VIJAYAWADA-521 212
☎ 9248164987

UNDERTAKING


**Laying of 90Mm dia. Gas Pipeline & OFC along the NH-30 from
NH Ch. 20.200 Km to NH Ch.25.600 Km.**

- Not to Damage to other utility, if damaged then to pay the losses either to NHAI or to the concerned agency
- For Renewal of Bank Guarantee
- For Confirming all standard condition of Ministry Circulars and NHAI's guideline
- For Shifting of Gas pipeline as and when required by NHAI by MEIL .
- For Shifting of Gas Supply pipe line due to 4/6 lane widening of NH-30
- For Indemnity against all damages and claims
- For Traffic movement during laying of Gas pipeline to be managed by the MEIL
- If any claim is raised by the Concessionaire, then the same has to be paid by the MEIL
- Prior approval of the NHAI/MORTH shall be obtained before undertaking any work of installation, shifting or repairs, or alterations to the Gas pipeline/any other utility located in the National highway right of ways

[Signature]
MEIL COMPANY
CHOPPERA METLA
GUNTUR

- Expenditure, if any, incurred by NHAI/MORTH for repairing any damage caused to the National Highway 30 From 20.200 km to 25.600 km by the laying, maintenance or shifting of the Gas pipeline will be borne by the MEIL agency owning the line
- If the NHAI/MORTH 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/MORTH at the cost of agency owning MEIL the utility line within a reasonable time (not exceeding 60 days) of the intimation given
- If any damages to the laid gas pipeline during execution of NH-30 activities at the above said changes will be carried out by the MEIL and the cost of such repair will be borne by MEIL..

Thanking you.


Yours Faithfully,

G. Raja Kumar,
Manager,

Megha Engineering & Infrastructures Ltd.

R.S. No. 86/2D2, Choparametla village, Agiripalli Mandal, Krishna Dist.

Ph no: +91- 9100057793





ఆంధ్రప్రదేశ్ ఆంధ్ర ప్రదేశ్ ANDHRA PRADESH

75AA 538866

No. 4456 Date 22-09-2020 Rs. 20/-

Sold to Sri: GUNDA INDRASENAREDDY & NARSI REDDY, U.D. PRASADA RAO
or Whom: MEIL COMPANY, CHOPPERAMETLA, GUNTUR
CERTIFICATE

LICENCED STAMP VENDOR
O.L.No. 06-28-013/2012
R.L.No. 06-28-002/2019
VALID UP TO: 31-12-2021
78-3-9A, Kundavari Kendrika,
VIJAYAWADA-521 212
8243164985

Name of work: Proposal for Right way permission for laying Gas pipeline/ducts along NH-30 from km 20.200 to 25.600.) on Kuntamukkala to Mylavaram Bypass in the state of Andhra Pradesh.

- 1) Laying and crossing of gas pipeline will not have any deleterious effects on any of the bridge components and roadway safety for traffic.
- 2) This proposal implemented now will not affect any likely future improvement to geometries.
- 3) The proposal is in accordance with the Government of India specifications.
- 4) "We do undertake that I will relocate the laying water pipe line at my own cost notwithstanding the permission granted within such time as we will be stipulated by NHAI", for any other development.
- 5) We undertake that permission does not lead to the adverse impact on the safety and stability of the highway structures.

[Signature]
ENGINEERING & INFRASTRUCTURE
CGD
RISHI
19.11.2020



ఆంధ్రప్రదేశ్ ఆంధ్ర ప్రదేశ్ ANDHRA PRADESH

S.No. 4457 Date 22-09-2020 Rs. 20/-

Sold to Sri: GUNDA INDRASENAREDDY s/o NARSIREDDY
For Whom: MEIL COMPANY, CHOPPERAMETLA GUNTUR

75AA 538867

U.D. PRASADA RAO
LICENCED STAMP VENDOR
O.L.No. 06-28-013/2012
R.L.No. 06-28-002/2019
VALID UP TO. 31-12-2021
75-3-9A, Kundavari Kandrika,
VIJAYAWADA-521 212
II: 9248164985

AGREEMENT REGARDING GRANTING OF RIGHY OF WAY
PERMISSIONS

FOR LAYING UTILITY SERVICES ON NATIONAL HIGHWAYS

Agreement to lay telecom cable/OFC Cable/Electrical cable/Pipe Line/ducts etc.
From 20.200 KM to 25.600 km of NH 30 land.

This Agreement made this _____ day of _____ (Month _____ Of
(Year) Between _____ 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) on the one part, and

M/S _____, a company registered under the companies Act 1956 and having its Registered office at _____ (hereinafter called the " Licensee") Which expression shall unless excluded by repugnant to the context, include his successors/ administrator assignees on the second part.

Whereas the Authority is responsible, inter-alia, for development and maintenance of lands in Km _____ to _____ of NH No _____ RoW.

Whereas the licensee proposes to lay Gas Pipe line/telecom cable/ OFC Cable/electrical cable/pipe line / ducts etc. referred to as utility services in subsequent paras

Whereas the Licensee has applied to the Authority for permission to lay utility services from Km _____ to Km _____ of road/route up to _____

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

Now this agreement witnesseth that in consideration of the conditions hereinafter contained and on the part of Licensee to be observed and performed, the authority here by grants to the Licensee permission to lay utility services as per the approved drawing attached here to subject to the following conditions, 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 of by content or by intent. Further, enforceability of the permission so granted shall by 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/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 MoRT&H is to provide a 2.00 m wide utility corridor on either side of the extreme edge of RoW. In cases where utility ducts with sufficient space are already available along NH, the utility services shall be laid in such ducts subject to technical requirements being fulfilled.
7. The utility services shall be laid at the edge of the RoW. In case of restricted width of RoW, which may be adequate only to accommodate the carriageway, central verge, shoulders, slope 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 be borne by the Licensee.
10. It is 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 /



The block contains a handwritten signature in blue ink and a circular official stamp. The stamp is purple and contains the text 'ENGINEERING & INFRASTRUCTURE', 'GGD', 'KCR', and 'HYDRABAD'.

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 the purpose. The casing / conduit pipe should, as minimum, extend from drain the drain in cuts and toe of slope to toe of slope in the fills and shall be designed in accordance with the provision of IR 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 of 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 30ch. 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 of to thickness and specifications stipulated by the Highway Authority.
17. The Licensee shall ensure making good the excavated trench for laying utility services by proper filling and compaction so as to restore the land in to the same condition as it was before digging the trench, clearing debris/loose earth produced due to execution of trenching at least 50m away from the edge of the right 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 installation/utility services & interference, interruption, disruption of failure caused thereof to any services etc. In case or the Licensee failing to discharge the obligation of making good or 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 to guarantee for the 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



CGD
KISHNA
MYSURU
KARNATAKA

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flyover/bridge and restore the road/land to its original condition at his own cost and risk.

22. The Licensee shall be responsible to ascertain from the respective agency in co-ordination with authority, regarding the location of other utilities/underground installation/facilities etc. the Licensee shall ensure the safety and security of already existing underground installation/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 co-ordination with authority shall also have 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 Licensee.
25. Grant of License of subject to the Licensee satisfying 9a) 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 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 maintenance/repair works. A separate performance Bank Guarantee for maintenance/repair works shall have to be furnished by the Licensee.




flyover/bridge and restore the road/land to its original condition at his own cost and risk.

22. The Licensee shall be responsible to ascertain from the respective agency in co-ordination with authority, regarding the location of other utilities/underground installation/facilities etc. the Licensee shall ensure the safety and security of already existing underground installation/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.
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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 maintenance/repair works. A separate performance Bank Guarantee for maintenance/repair works shall have to be furnished by the Licensee.

27. Each day, the extent of digging the trenches should be strictly regulated so that utility services is laid and trenches filled up before the close of the work that day filling should be completed to the satisfaction of the concerned agency designated by the Authority.
28. The licensee shall indemnify the concerned agency in co-ordination with authority, against all damages and claims, if any due to the digging of trenches for laying cables/ducts.
29. The permission for laying utility services is granted maximum for 5 years at a time, which can thereafter be considered for renewal. On payment of additional fee at the time of renewal, the permission shall automatically be renewed, unless defaults exist. In case of renewal, rate prevailing at the time of renewal shall be charged. Delay in deposition of fee shall attract interest @ 15% per annum compounded annually.
30. The permission shall be valid only for the period it is issued and fee deposited. However, the authority also has a right to terminate the permission or to extend the period of agreement.
31. That the Licensee shall not undertake any work of shifting, repairs or alterations to the utility services without prior written permission of the concerned agency in co-ordination 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 drawing' 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 time to the authorized 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 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 line/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 time. 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 the Licensee shall furnish a Bank Guarantee to the authority for a period of one year for an amount assessed by the authority as a security for making good the excavated trench by proper filling and compaction, clearing



debris, loose earth produced due to excavation of trenching at least 50m away from the edge of the RoW.

42. Any disputes in interpretation of the terms and conditions of this agreement or their implementation shall be referred to the redress mechanism prevailing in the ministry and the decision of the redress mechanism shall be final and binding on all.
43. For PPP projects, in case of any financial loss incurred by the respective project concessionaires due to such laying/shifting of utility services by the Licensee, compensation for the same shall be required to be borne by the Licensee in mutual agreement with the respective project concessionaires. MoRT&H/NHAI/implementing authorities for the project shall not be liable to the concessionaire in any way in this regard.

This agreement has been made in duplicate, each on a stamp paper, each party to this agreement has retained one stamped copy each

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

SIGNED SEALED AND DELIVERED FOR AND ON BEHALF OF AUTHORITY.

BY SHRI _____

(Signature, name & address with stamp)

SIGNED ON BEHALF OF M/S _____
(LICENSEE)


BY SHRI  _____


(Signature, name & address with stamp)

HOLDER OF GENERAL POWER OF ATTORNEY
DATED _____

EXECUTED IN ACCORDANCE WITH THE RESOLUTION
NO _____ DATED PASSED BY THE BOARD OF DIRECTORS IN THE
MEETING HELD ON _____

IN THE PRESENCE OF (WITNESSES):

1. 
(G. Indira Sena Reddy)

2. 
(S. Chirandeevi)

Brief Note on Importance of Pipe Line Laying

M/s Megha Engineering & Infrastructures Ltd. (MEIL) has been entrusted to lay the 90 Mm dia MDPE pipe line by Petroleum And Natural Gas Regulatory Board (PNGRB), to cater the needs of Compressor Natural Gas to RTC Buses and Autos at Mylavarm and also for PNG connections to House Holders. OFC duct is also being laid along the pipe line for communication purpose.

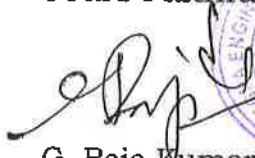
We wish to mention that the pipeline will be laid at a depth of 1.0 mtr. from ground level in normal condition and 1.2 mtr. For the entire road laying of pipe and site will be restored to normal condition to the satisfaction of the MORTH (NH Section) after completion of the work in all respects. National Highways, State Highways and Railways shall be crossed with Jacking and Boring/Open cut method without disrupting the vehicular movement. Pipe line execution shall be carried following all the safety rules and regulation of the good construction practices being followed for cross country and city Gas Pipe Line Project and as per MORTH guidelines & in line with State Highway & National Highway guidelines .

Hence it is requested to accord permission for laying the 90 Mm dia Gas supply Pipeline across the NHAI portion as mentioned above for a stretch of 5.400 Km on NH30 .This may be treated as urgent, because all the works i.e Award of Laying Pipe contract and Purchase of Gas supply Pipes are already completed.

Hence Kindly accord the permission for laying along the National Highway as shown in plan enclosed.

Thanking you.

Yours Faithfully,


G. Raja Kumar.

Manager,

Megha Engineering & Infrastructures Ltd.

R.S. No. 86/2D2, Choparametla village,

Agiripalli Mandal, Krishna Dist.

Ph no: +91- 9100057793





ఆంధ్రప్రదేశ్ ఆంధ్ర ప్రదేశ్ ANDHRA PRADESH

75AA 538868

S No. 4458 Date 22-09-2020 Rs.20/-

Sold to Sri: GUNDA INDRASENAREDDY s/o NARSIREDDY,
GUNTUR

For Whom: MEIL COMPANY, CHOPPERAMETLA

U.D. PRASADA RAO
LICENCED STAMP VENDOR
O.L.No. 06-28-013/2012
R.L.No. 05-29-002/2019
VALID UP TO: 31-12-2021
378-3-9A, Kundavari Kandirika,
VIJAYAWADA-521 212
It: 924816498

Undertaking for submission of performance Bank Guarantee

We, M/s Megha engineering & infrastructures Ltd having registered office at S-2, Technocrat Industrial Estate, Balanagar, Hyderabad-500037, Telangana & its office: M/s Megha engineering & Infrastructures Ltd 86/2D2, Chopparametla village, Agiripalli mandal, Krishna district, Andhra Pradesh-521211 do hereby undertake to furnish a performance Bank Guarantee @ Rs.100 per route meter for a period of one year initially (extendable if required till satisfactory completion of work) as a security against improper restoration of ground in terms of filling/unsatisfactory compaction/damages caused to other underground installation utility services etc. In case, the M/s Megha engineering & Infrastructures Limited failing to discharge the obligation of marking good the damages caused due to excavation at the cost of the M/s Megha Engineering & Infrastructures Limited and recover the amount by invoking the Bank Guarantee. In case the work contemplated is not completed to the satisfaction of NHAI, which has granted the permission, within a period of 11 months from the date of issue of the bank




guarantee , M/s Megha Engineering & Infrastructures Limited shall either furnish a fresh guarantee or extend the guarantee for a further period of one year.

For Megha Engineering & Infrastructures Ltd


Authorized Signature



(Enclosure to Ministry Circular No. RW/NH-33044/17/2005-S&R * (Pt.) dated 06.08.2013
Format for Maintaining Records of Right-of-Way permission granted for laying OFC
to be maintained separately for every NH and State)

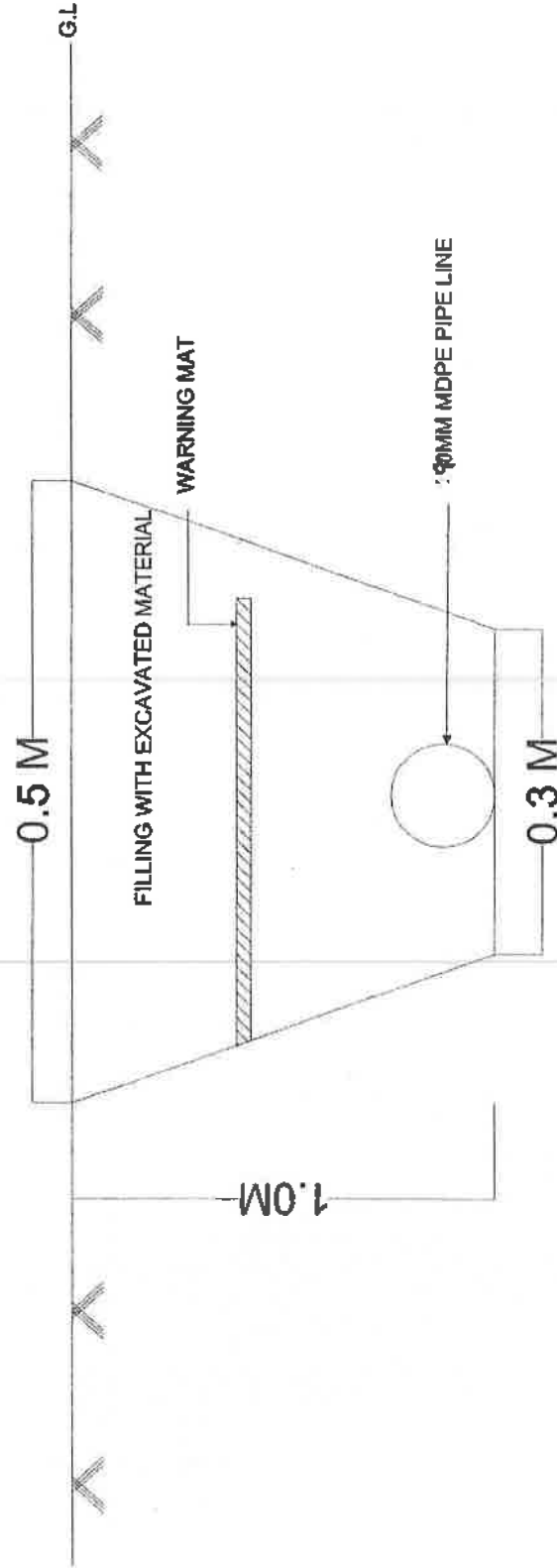
1 Name of the State
2 Name of Agency
3 NH Number

Andhra Pradesh
NHAI
NH-216

Sl.No	Location (Chainage in Km)	Left or Right of NH (Towards increasing chainage/Km direction)	Section and reach	Kind of service	Name of Licensee and contact address	Date of signing of Agreement	Date of Validity of agreement	Date of last inspection of site	Any deviation from MOST standard norms	Remarks
1	Ch No : 76.160 to 82.400	Right side	Losari - Machavaram	CS Gas pipeline	Megha Engineering & Infrastructures Ltd.					


MEGHA ENGINEERING AND INFRASTRUCTURE LTD.

DETAILS OF TRENCH CROSS - SECTION FOR 90 MM MDPE PIPELINE

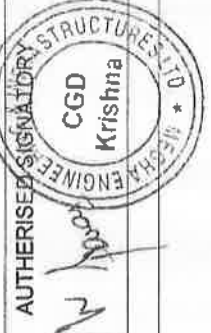


M/S MEGHA ENGINEERING & INFRASTRUCTURES LIMITED
S-2 TECHNECRAT INDUSTRIAL ESTATE
BILKAJI HYDERABAD-500 037

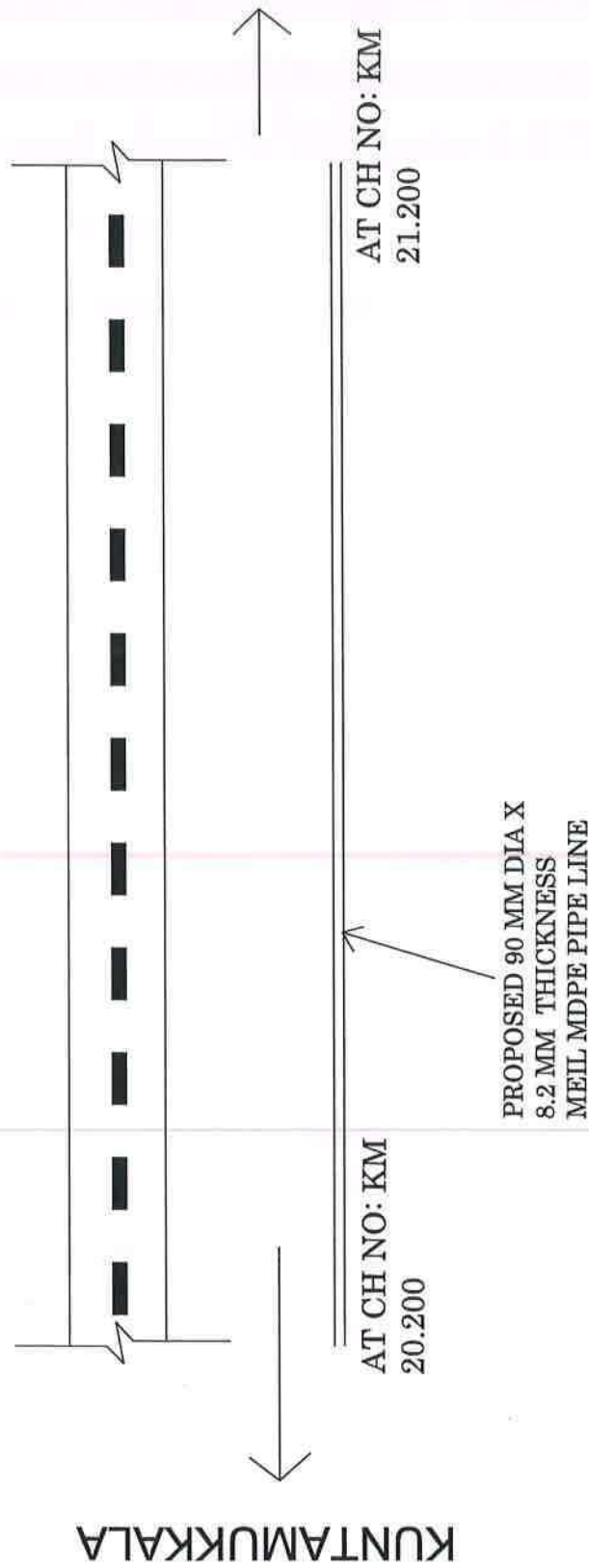
PLAN SHOWING THE PROPOSED DETAILS OF TRENCH CROSS - SECTION

SHEET NO : 1

DATE : 29/09/2020



PROPOSED SKETCH SHOWING 90 MM DIA MDPE PIPE LINE FROM KUNTAMUKKALA
TO MYLAVARAM BY PASS (CH.NO: KM 20.200 TO CH NO: KM 21.200)

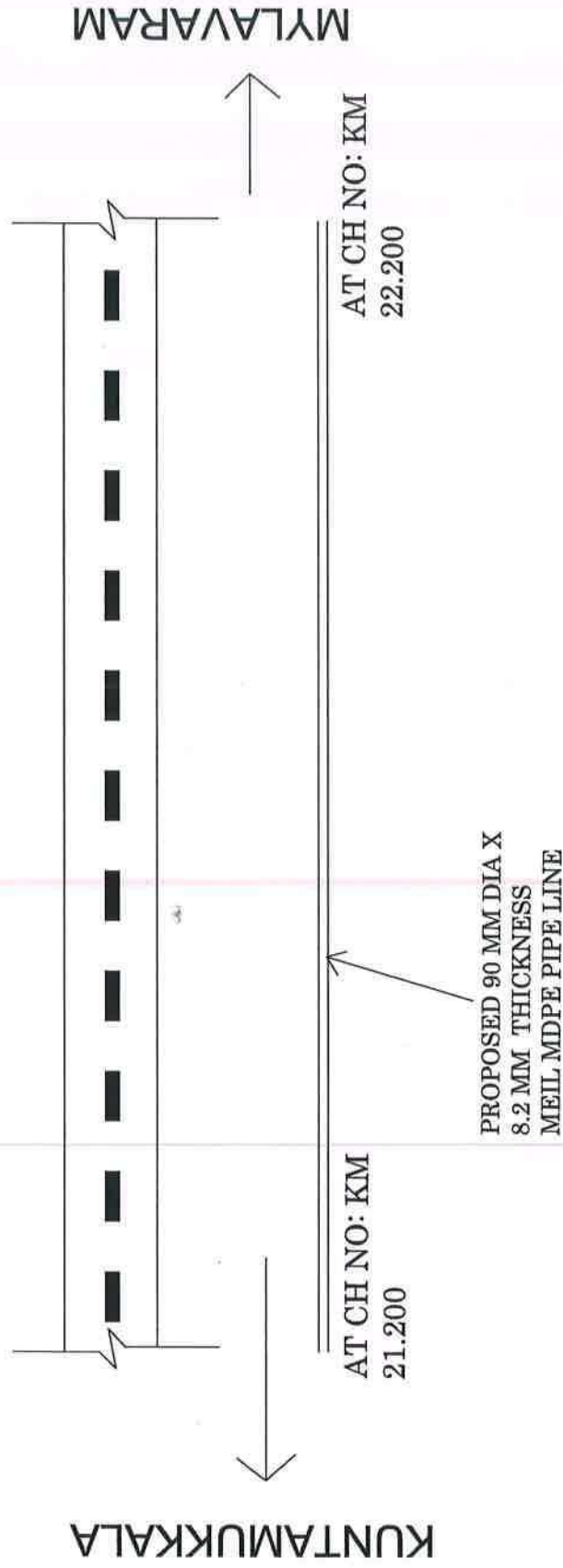


AUTHORISED SIGNATORY

CGD
KRISHNA
MEGA INFRASTRUCTURES LTD.

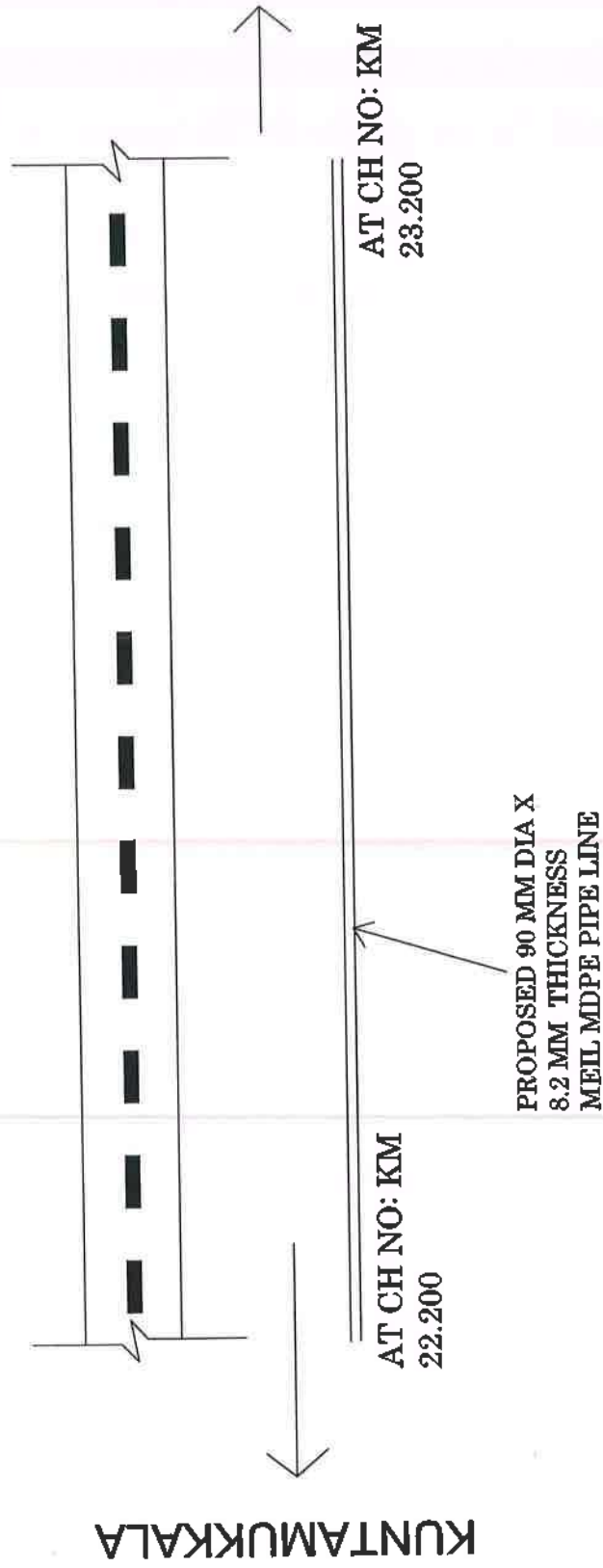
For: EIL

PROPOSED SKETCH SHOWING 90 MM DIA MDPE PIPE LINE FROM KUNTAMUKKALA
TO MYLAVARAM BY PASS (CH.NO: KM 21.200 TO CH NO: KM 22.200)



AUTHORISED SIGNATORY:

PROPOSED SKETCH SHOWING 90 MM DIA MDPE PIPE LINE FROM KUNTAMUKKALA
TO MYLAVARAM BY PASS (CH.NO: KM 22.200 TO CH NO: KM 23.200)

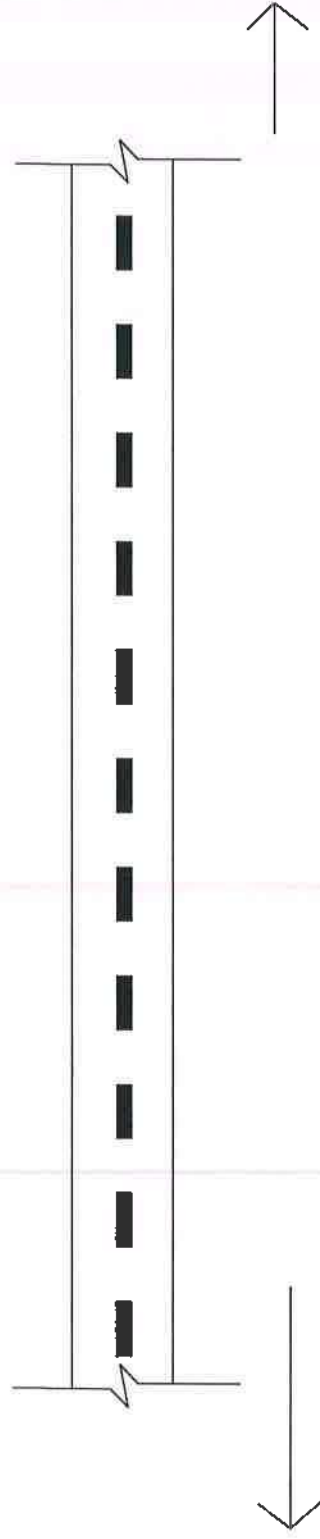


AUTHORISED SIGNATORY:

[Signature]

ENGINEERING & INFRASTRUCTURES
KRISHNA
MEIL

PROPOSED SKETCH SHOWING 90 MM DIA MDPE PIPE LINE FROM KUNTAMUKKALA
TO MYLAVARAM BY PASS (CH .NO: KM 23.200 TO CH NO: KM 24.200)



KUNTAMUKKALA

MYLAVARAM

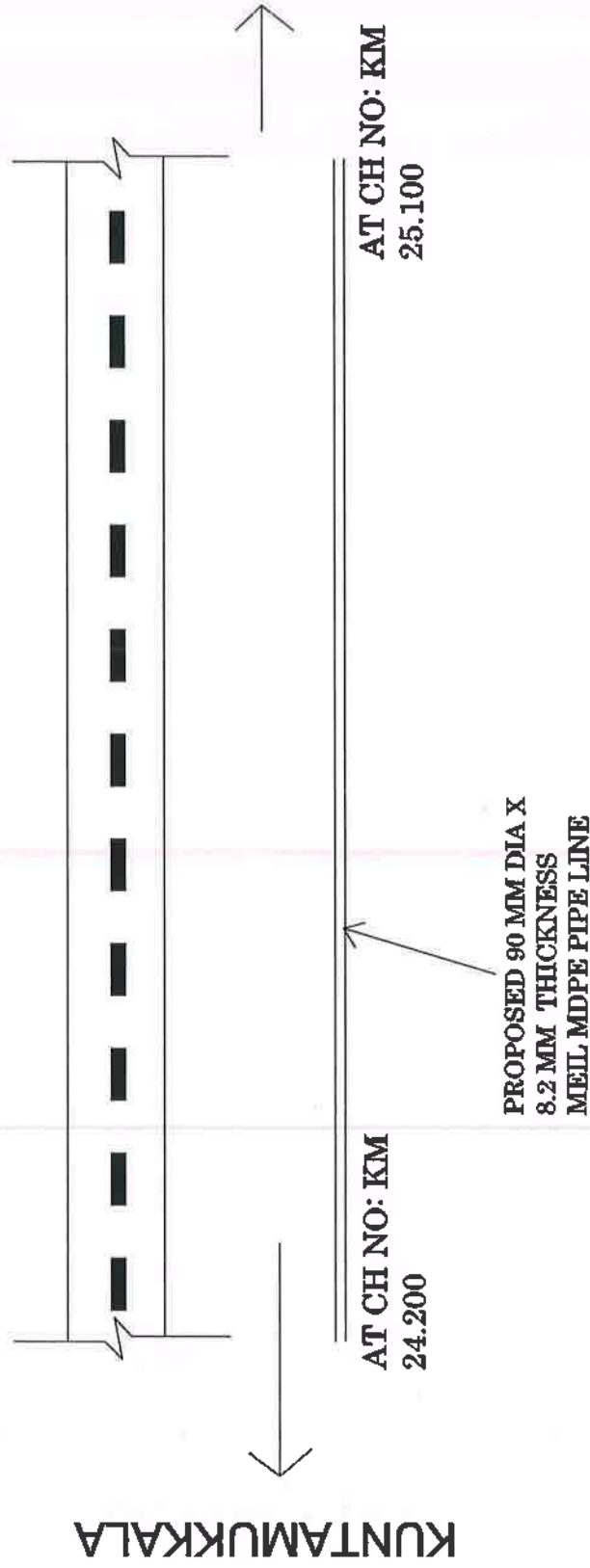
AT CH NO: KM
23.200

AT CH NO: KM
24.200

PROPOSED 90 MM DIA X'
8.2 MM THICKNESS
MEL MDPE PIPE LINE

AUTHORISED SIGNATORY:


PROPOSED SKETCH SHOWING 90 MM DIA MDPE PIPE LINE FROM KUNTAMUKKALA
TO MYLAVARAM BY PASS (CH .NO: KM 24.200 TO CH NO: KM 25.100)



AUTHORISED SIGNATORY:

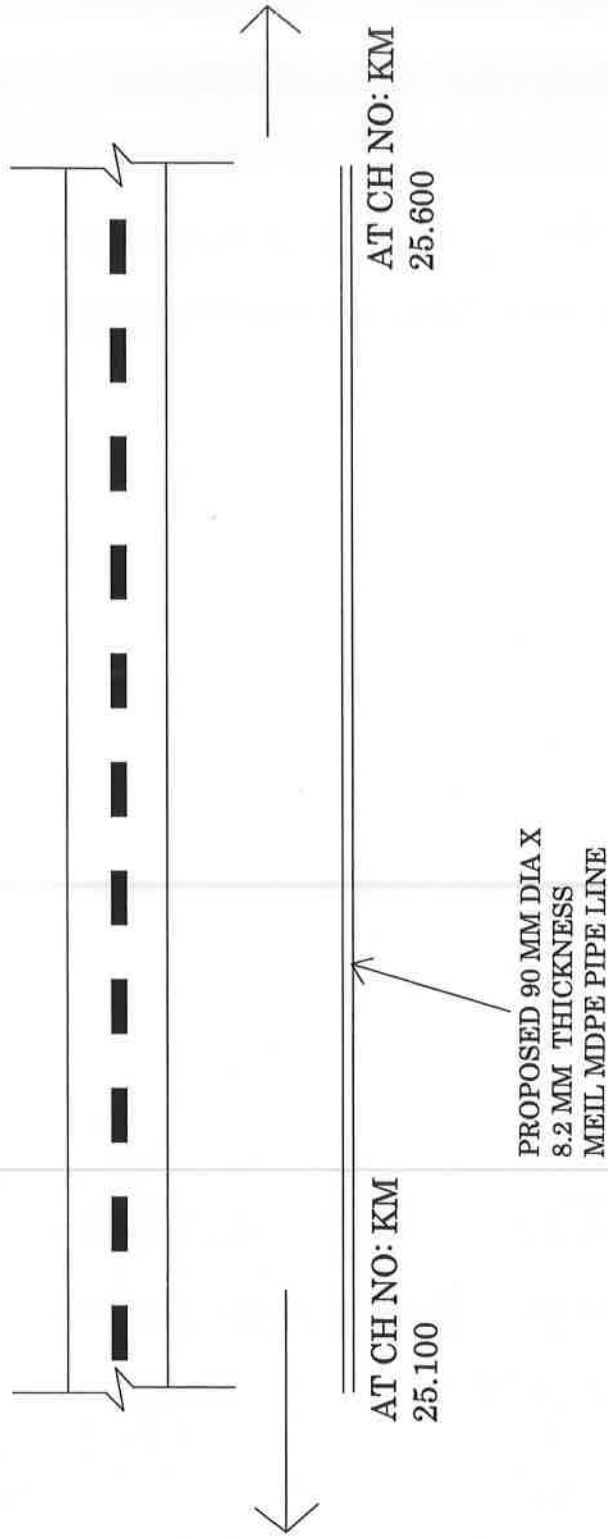
[Signature]

CCGD
CHINA
ENGINEERING & INFRASTRUCTURES LTD.
E-MEIL

PROPOSED SKETCH SHOWING 90 MM DIA MDPE PIPE LINE FROM MYLAVARAM
BYPASS TO MYLAVARAM BY PASS (CH.NO: KM 25.100 TO CH NO: KM 25.600)

MYLAVARAM BYPASS

MYLAVARAM



AUTHORISED SIGNATORY:

CCCD
ENGINEERING & INFRASTRUCTURE
PVT. LTD.
Hq. MEIL



MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding is entered on 11th day of January, 2016 at Visakhapatnam, Andhra Pradesh during Partnership Summit 2016

Between

Government of Andhra Pradesh

And

M/s Megha Engineering & Infrastructures Ltd

M/s Megha Engineering & Infrastructures Ltd committed to establish the following projects in Andhra Pradesh as per the authorisation already obtained from Petroleum & Natural Gas Regulatory Board (PNGRB).

S.No.	Project	Location	Proposed Investment (Rs. in Crores)	Employment	Proposed year of Commence- ment
1.	City Gas Distribution	Krishna district	500	250	2016

Government of Andhra Pradesh would facilitate M/s Megha Engineering & Infrastructures Ltd to obtain necessary permissions/ Registrations / Approvals / Clearances etc., from the concerned departments of the state, as per the existing policies / rules and regulations of the State Government.

This Memorandum of Understanding is made to facilitate M/s Megha Engineering & Infrastructures Ltd for establishment of the aforesaid Project(s) in Andhra Pradesh in a time bound matter.

For and on behalf of
Government of Andhra Pradesh


(AUTHORISED SIGNATORY)

for and on behalf of
M/s Megha Engineering & Infrastructures Ltd


(AUTHORISED SIGNATORY)

Megha Engineering & Infrastructures Ltd.

An ISO 9001-2008 Company

S-2, Technocrat Indl. Estate, Balanagar, Hyderabad-500037, TS, INDIA

Tel: +91-40-44336700 Fax: +91-40-44336800

E-mail: info@meil.in Visit us: www.meil.in U45202TG2006PLC050271

Ref: MEIL/HYD/PNGRB/KR/005

Date: 26.09.2015

To
The Secretary,
Petroleum and Natural Gas Regulatory Board,
1st Floor, World Trade Centre,
Babar Road,
New Delhi -110 001

Recd on 28/9/15

Sent 28/9/15

Kind Attn: Mr. Upamanyu Chartterjee
Secretary

Dear Sir,

Sub: Acceptance of Grant of Authorization for Development of City Gas Distribution Network in the Geographical area of Krishna District.

Ref No: Authorization No. PNGRB/CGD/BID/5/2015/4/GA-KRISHNA DISTRICT - Bid Evaluation dated 14th Sept 2015.

We thankfully acknowledge the receipt of Grant of Authorization vide letter No. PNGRB/CGD/BID/5/2015/4/GA-KRISHNA DISTRICT-Bid Evaluation dated 14th Sept 2015.

As desired by you we are sending here with the above Grant of Authorization duly stamped & signed by the authorized signatory, signifying our acceptance of Grant of Authorization as per the PNGRB guidelines.

If you need any further information please feel free to contact us.

Kindly Oblige.

Ulf
28 Sept 15

Thanking you,

Yours faithfully,
For Megha Engineering & Infrastructures Ltd.,

AA (AK)

R.N. Deepak

R.N. Deepak
General Manager.
Mob: +91- 9704567406

PNGRB/CGD/BID/5/2015/4/GA-KRISHNA DISTRICT-Bid Evaluation

पेट्रोलियम एवं प्राकृतिक गैस विनियामक बोर्ड

Petroleum and Natural Gas Regulatory Board

प्रथम-तल, वर्ल्ड ट्रेड सेंटर, बाबर रोड, नयी दिल्ली - 110001

1st Floor, World Trade Centre, Babar Road, New Delhi - 110001

14th September, 2015

To
M/s Megha Engineering & Infrastructures Limited,
[Kind Attn: Shri P. Doraiah , Director (Hydrocarbons)],
S-2, Technocrat Industrial Estate,
Balanagar, Hyderabad,
Telangana - 500 037

Subject: Grant of Authorization to M/s Megha Engineering & Infrastructures Limited (MEIL) for development of City Gas Distribution Network in the Geographical Area of Krishna District (excluding area already authorized) (Andhra Pradesh).

Sir,

With reference to submission of Performance Bank Guarantee for Rs. 15 Crores vide your letter dated 8th August 2015 and 10th August 2015, as per the requirement under Regulation 10(1) of the Petroleum and Natural Gas Regulatory Board (Authorizing Entities to Lay, Build, Operate or Expand City or Local Natural Gas Distribution Networks) Regulations, 2008, enclosed is authorization in Schedule D for the GA of Krishna District (excluding area already authorized) (Andhra Pradesh) in duplicate.


2. The tariff applicability will be as per decision of the Board taken in the light of the Judgment of Hon'ble Supreme Court of India in the SLP No. 22273 of 2012, i.e. Civil Appeal No. 4910 of 2015.

3. You are requested to put your stamp & signature on each page of the document and return one copy, within 7 days of receipt of this communication, to the PNGRB for records.

4. The enclosed authorization issues with the approval of the Board.

Encl: As above

Yours faithfully,


(Upamanyu Chatterjee)

Schedule D

[see regulations 10 (1) and 18 (7)]

Grant of authorization for laying, building, operating or expanding CGD network

To
M/s Megha Engineering & Infrastructures Limited,
[Kind Attn: Shri P. Doraiah , Director (Hydrocarbons)],
S-2, Technocrat Industrial Estate,
Balanagar, Hyderabad
Telangana - 500 037

Subject: Grant of Authorization to M/s Megha Engineering & Infrastructures Limited (MEIL) for development of City Gas Distribution Network in the Geographical Area of Krishna District (excluding area already authorized) (Andhra Pradesh).

Sir,

With reference to your application-cum-bid for grant of authorization for laying, building, operating or expanding the CGD network in **Krishna District (excluding area already authorized) (Andhra Pradesh)**, it has been decided to grant you the authorization subject to the Petroleum and Natural Gas Regulatory Board (Authorizing Entities to Lay, Build, Operate or Expand City or Local Natural Gas Distribution Networks) Regulations, 2008 and the following terms and conditions:

1. The Authorized Area for laying, building, operating or expanding the proposed CGD Network shall cover an area of 8424 square kilometers and as depicted in the enclosed drawing.
2. The activities of laying, building, operating or expansion of the CGD Network to commence within a period of **180** days from the date of this authorization.




For Megha Engineering & Infrastructures Ltd.

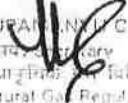

Authorised Signatory

उपमन्यु चटर्जी / UPAMANYU CHATTERJEE
नियंत्रक / Secretary
पेट्रोलियम और प्राकृतिक गैस विनियामक बोर्ड
1 Petroleum & Natural Gas Regulatory Board
प्लॉट नं. 10, एन. टी. रोड
1st Floor, World Trade Centre,
अन्तर्गत क्षेत्र, नई दिल्ली-110001
Babbar Road, New Delhi-110001

3. The activities permitted above shall have to be completed as per the approved time schedule enclosed at Annexure 1. Any failure on the part of the entity in complying with the **milestones prescribed** in the time schedule shall lead to consequences as specified under regulation 16 of the Petroleum and Natural Gas Regulatory Board (Authorizing Entities to Lay, Build, Operate or Expand City or Local Natural Gas Distribution Networks) Regulations, 2008.
4. The entity shall design and install an optimal size of the infrastructure in terms of pipelines of various types including steel belting of the authorized area, online compressors of adequate capacity for compressing of natural gas into CNG, allied equipments and facilities in the CGD network as identified in its DFR depending upon the potential demand for natural gas. The infrastructure in the CGD network should be adequate to maintain uninterrupted flow of natural gas in the pipelines and be also able to maintain supplies at adequate pressure to online CNG stations.
5. The entity shall maintain an uninterrupted supply of natural gas to all categories of customers in the CGD network. In the event of any disruption in the supply of natural gas in the CGD Network, first priority shall be accorded to restoration of supplies to domestic PNG customers. In case of disruption of supply to domestic PNG customers for more than twelve hours, the entity shall compensate to the domestic customer on the following basis:-
 - (a) the normative volume of natural gas consumption for the first domestic PNG connection for cooking requirements based on last three months weighted average consumption per day to be applied for each day's disruption and multiplied by ten;

For Megha Engineering & Infrastructures Ltd. 2



Authorized Signatory


ज्योति चटर्जी / JYOTI CHATTERJEE
सचिव / Secretary
पेट्रोलियम और प्राकृतिक गैस विनियामक बोर्ड
Petroleum & Natural Gas Regulatory Board
प्रथम मंज, वर्ल्ड ट्रेड सेंटर
1st Floor, World Trade Centre,
कलकत्ता रोड, नई दिल्ली-110001
Sector Road, New Delhi 110001


Provided further that the period of exclusivity allowed under sub-clause (a) or sub-clause (b) may be terminated before the expiry of the period mentioned above in line with the provisions under Petroleum and Natural Gas Regulatory Board (Exclusivity for City or Local Natural Gas Distribution Networks) Regulations, 2008.

7. The authorized entity shall be required to take prior approval from the Board for creation of any lien, charge or hypothecation of the CGD network to secure finances for the project and furnish details of utilization of funds. However, in case of raising funds from any financial institution or bank, the entity will be required to only inform the Board of the sanction of the funds within a period of seven days.
8. The entity shall submit a detailed and clear financial closure report to the Board within a period of one hundred and eighty days from the date of authorization issued by the Board under regulation 10 of Petroleum and Natural Gas Regulatory Board (Authorizing Entities to Lay, Build, Operate or Expand City or Local Natural Gas Distribution Networks) Regulations, 2008.
9. The entity shall publish the approved network tariff for transportation of natural gas as well as the compression charge for CNG in the CGD network in the authorized area which is also annexed to this schedule.
10. The entity shall publish the applicable retail selling price of PNG for all categories of customers and also for the purpose of invoicing in Rs./MMBTU.
11. The entity shall publish and display the retail selling price of CNG for the purpose of invoicing to CNG customers in Rs./ Kg at all CNG dispensing stations.

For Megha Engineering & Infrastructures Ltd.


Authorised Signatory


4


उपसचिव/सचिव RAMANYU CHATTERJEE
Secretary/Secretary
पेट्रोलियम और प्राकृतिक गैस विनियामक बोर्ड
Petroleum & Natural Gas Regulatory Board
प्रथम मंज, बल्लू इंडा सेंटर
1st Floor, World Trade Centre,
बाजार रोड, नई दिल्ली-110001
Babar Road / New Delhi-110001

12. The furnishing of performance bond of Rs 15 Crores (Rupees Fourteen Crores Only) is a guarantee for timely commissioning of the project as per the prescribed targets in the bid and for meeting the service obligations during the operating phase of the project.
13. The entity shall abide by-
- (a) the service obligations as specified under regulation 14 of the Petroleum and Natural Gas Regulatory Board (Authorizing Entities to Lay, Build, Operate or Expand City or Local Natural Gas Distribution Networks) Regulations, 2008;
 - (b) the service obligations specified under the Petroleum and Natural Gas Regulatory Board (Exclusivity for City or Local Natural Gas Distribution Networks) Regulations, 2008;
 - (c) the service obligations specified in Schedule-J to the Petroleum and Natural Gas Regulatory Board (Authorizing Entities to Lay, Build, Operate or Expand City or Local Natural Gas Distribution Networks) Regulations, 2008;
 - (d) the quality of service standards as specified under regulation 15 of Petroleum and Natural Gas Regulatory Board (Authorizing Entities to Lay, Build, Operate or Expand City or Local Natural Gas Distribution Networks) Regulations, 2008.
14. In case the authorization of the entity is terminated, the Board may assign the rights and obligations of the entity to any agency or another entity on such terms and conditions, as it may deem fit. Further, the entity may be required, as per the directions of the Board, to continue the operations of the CGD network at the same level till another agency or entity appointed by the Board takes over the full control of the CGD network.

For Megha Engineering & Infrastructures Ltd.


Authorised Signatory


उपमन्यु चटर्जी / UPAMANYU CHATTERJEE
सचिव / Secretary
पेट्रोलियम और प्राकृतिक गैस विनियामक बोर्ड
Petroleum & Natural Gas Regulatory Board
प्रथम ताल, प्लॉट नं. 5
5 1st Floor, World Trade Centre,
बाबर रोड, नई दिल्ली-110021
Babar Road, New Delhi-110021


15. The entity shall comply with the applicable provisions under the Petroleum and Natural Gas Regulatory Board (Authorizing Entities to Lay, Build, Operate or Expand City or Local Natural Gas Distribution Networks) Regulations, 2008, Petroleum and Natural Gas Regulatory Board (Exclusivity for City or Local Natural Gas Distribution Networks) Regulations, 2008, relevant regulations for technical standards and specifications, including safety standards, any other regulations as may be applicable and the provisions of the Act.
16. The entity shall comply with any other term or condition which may be notified by the Board in public interest from time to time.

You are requested to confirm your acceptance by filling-in the acceptance of the grant of authorization provided below and return the same in original. (Please note that all pages along with the Annexure are to be initialed & stamped).

Dated:

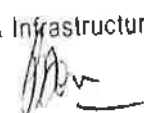
14 September 2015

Yours faithfully,


(Upamanyu Chatterjee)

Secretary

For Megha Engineering & Infrastructures Ltd.


Authorised Signatory


Acceptance of the Grant of Authorization

I / We hereby accept the grant of authorization issued by the PNGRB vide letter ref. PNGRB/CGD/BID/5/2015/4/6A dated 14-09-2015 and agree to comply with all the terms and conditions subject to which I/ We have been granted the authorization for laying, building, operating or expanding city or local natural gas distribution network in the authorized area of Krishna District (excluding area already authorized) (Andhra Pradesh).

Date:

For Megha Engineering & Infrastructures Ltd.

Place:


Authorised Signatory

Signature of the Entity or Authorized
Signatory

ANNEX 1 - GA of Krishna District (excluding area already authorized) (Andhra Pradesh)

Minimum Work Programme as per BID

Minimum Work Program as per Regulations (to be completed during first five years of exclusivity)	
Inch- Kms of Pipeline to be Laid.	No. of Domestic PNG Connections
1800	50837


Year wise Break Up of targets					
Total Inch- Kms of Pipeline to be Laid.	Year1 (20%)	Year 2 (50%)	Year 3 (80%)	Year 4 (90%)	Year 5 (100%)
1800	360	900	1440	1620	1800

Year wise Break Up of targets					
Infrastructure for PNG Domestic Connections.	Year1	Year 2 (15%)	Year 3 (50%)	Year 4 (70%)	Year 5 (100%)
50837	-	7626	25419	35586	50837

	Rate
Network Tariff (from 1-25 Years) Rs. per MMBTU	0.01
Compression Charge (from 1-25 Years) Rs. per Kg.	0.01

For Megha Engineering & Infrastructures Ltd.


Authorised Signatory


रूपमान्यु चटर्जी / RUPAMANYU CHATTERJEE
पंडित, Secretary
पेट्रोलेम और गैसों का विभाग, आंध्र प्रदेश सरकार
Petroleum & Gas, Govt. of Andhra Pradesh
आंध्र प्रदेश, राई (एच.टी.सी.)
1st Floor, World Trade Centre,
आंध्र प्रदेश, राई (एच.टी.सी.)
Gopal Reddy, Tana Dulla (Gopal)

**KRISHNA DISTRICT GEOGRAPHICAL AREA
(ANDHRA PRADESH)
(EXCLUDING: AREA ALREADY AUTHORISED)**

KEY MAP



Sl. No.	Village Name	Area (Hectares)	Population	Remarks
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- LEGEND**
- LANDMARKS**
- DISTRICT HEAD QUARTER
 - MANDAL HEAD QUARTER
 - MAJOR TOWNS
- VECTORS**
- NATIONAL HIGHWAY
 - STATE HIGHWAY
 - MAJOR ROAD
 - RAILWAY
 - GA BOUNDARY
 - WATER BODIES
- VILLAGE POPULATION**
- VILLAGE WITH POPULATION 1000 AND ABOVE

REMARKS:

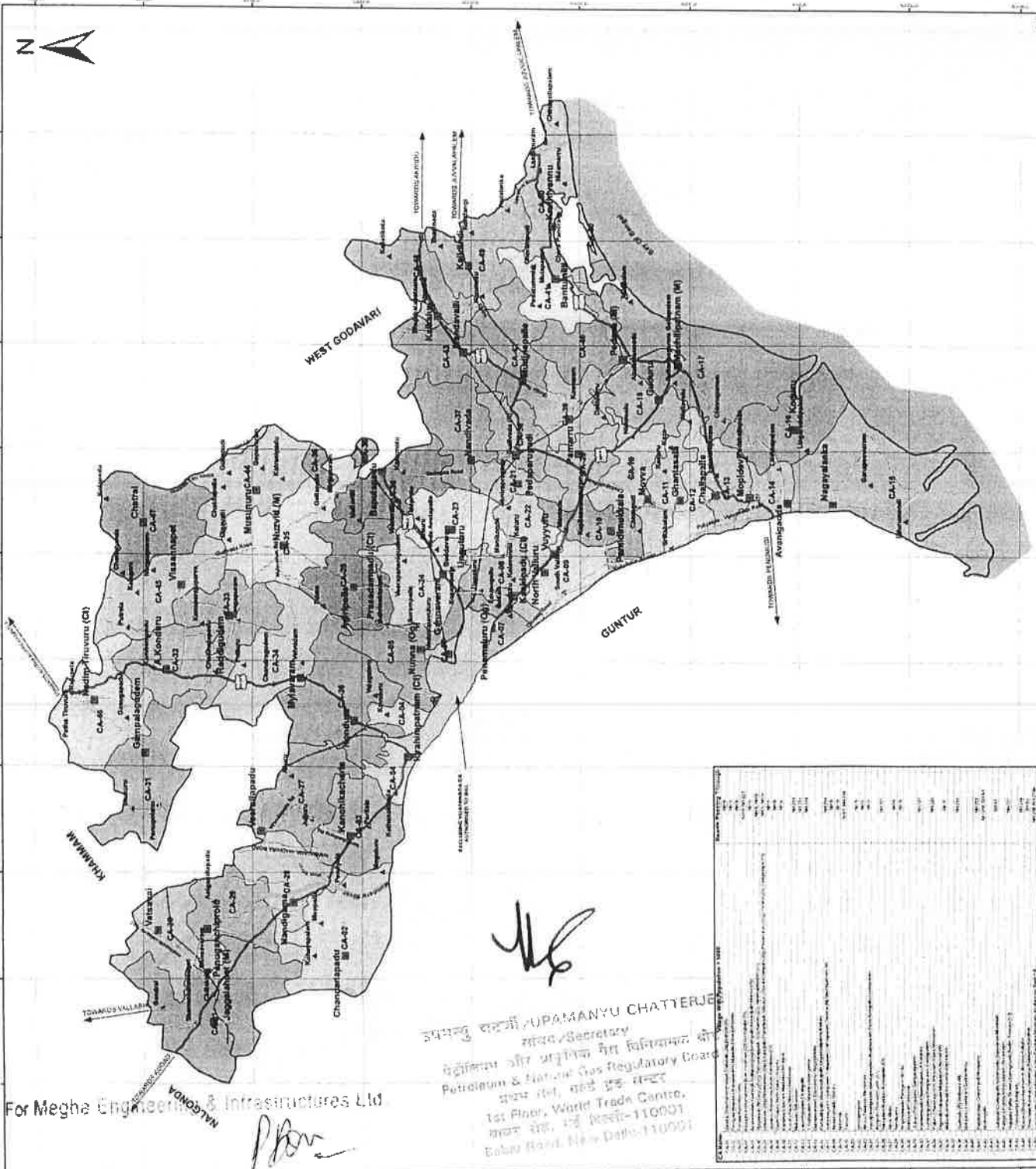
1. Landmarks are indicated as per the Survey of India maps and are not to be taken as final. The boundaries shown are only for reference and are not to be taken as final. The boundaries shown are only for reference and are not to be taken as final. The boundaries shown are only for reference and are not to be taken as final.

MAP SCALE

PETROLEUM AND NATURAL GAS REGULATORY BOARD

1st Floor, World Trade Centre, Sakinaka, New Delhi-110001

Map No.	PHGRBC-001/2015-2016
Date	January-2016
Map Title	Krishna District Geographical Area



उपमन्यु चटर्जी / UPAMANYU CHATTERJEE
 सचिव / Secretary
 पेट्रोलियम और प्राकृतिक गैस विनियामक बोर्ड
 Petroleum & Natural Gas Regulatory Board
 प्रथम मंज, वर्ल्ड ट्रेड सेंटर
 1st Floor, World Trade Centre,
 साकिनका रोड, नई दिल्ली-110001
 Sakinaka Road, New Delhi-110001

For Megha Engineering & Infrastructures Ltd

Authorised Signatory

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

Incase 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 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.

A handwritten signature in black ink is written over a circular purple stamp. The stamp contains the text "CGD" in the center, "ARISHNA" below it, and "S & INFRASTRUCTURES LTD." around the top inner edge. A small star is at the bottom of the stamp.

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.



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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.

[Handwritten Signature]



METHODOLOGY FOR RESTORATION

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