

No. RO/VJA/Misc24/B/Gas Pipeline/NH-165/Sr.no.56/1156

Government of India

Ministry of Road Transport & Highways

Regional Office, Vijayawada

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

Dated: 23.02.2021

**Invitation of Public Comments**

**Sub: Proposal for Permission for laying of 6", API 5L Gr.X-52, PSL-2, 6.4mm thick, 3LPE Coated carbon steel Pipeline for service of Natural Gas across & along NH-165 in Bhimavaram, West Godavari (District), Andhra Pradesh - reg.**

Please find enclosed herewith the proposal in accordance with Ministry's latest guidelines dated 22.11.2016 forwarded by Chief Engineer (R&B), NH & CRF, A.P vide letter dated 28.12.2020 for laying of 6", API 5L Gr.X-52, PSL-2, 6.4mm thick, 3LPE Coated carbon steel Pipeline for service of Natural Gas across at km 102/927 & km 91/586 and along from km 91/200 to km 103.052 of NH-165 in Bhimavaram, West Godavari (District), Andhra Pradesh.


2. As per the guidelines, issued by the Ministry vide Circular No.RW/NH-33044/29/2015/S&R(R) dated 22.11.16, the proposal for accommodation of utility services along and across National Highways shall be put out in the public domain for 30 days from day of uploading for seeking claims and objections (on grounds of public inconvenience, safety and general public interest).

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

The Regional Officer,  
Ministry of Road Transport and Highways,  
Gorle Dalappanna Veedhi,  
Near American Hospital, Punnam Thota,  
Vijayawada - 520010  
Email id: romorthvijayawada@gmail.com

Encl: As above

Yours faithfully,

  
23/02/2021  
(Ashutosh Gaur)

Assistant Executive Engineer  
For Regional Officer, Vijayawada

**Copy to:**

- 1) Senior Technical Director, NIC for uploading on the Ministry's website.
- 2) The Chief Engineer (R&B), NH & CRF, AP.
- 3) The Godavari Gas Private Limited, D.No.85-6-23/2, 2<sup>nd</sup> Floor, RTC Complex road, Near Morampudi Junction, Rajahmundry - 533107.

**GOVERNMENT OF ANDHRA PRADESH  
ROADS AND BUILDINGS DEPARTMENT**

From

Sri V. Ramachandra, M.Tech.,  
Chief Engineer (R&B)  
National Highways & CRF,  
Room No 412, 4<sup>th</sup> Floor,  
State HoD Offices Building,  
MG Road,  
Vijayawada – 520010

To

✓ The Regional Officer,  
MoRT&H,  
D. No. 38-2-3/2,  
Gorle Dalapanna Veedhi,  
Near American Hospital,  
Punnamathota,  
Vijayawada – 520 010.



**Letter No.NH165/GGPL/Bhimavaram/DCE(NH)/EE/DEE1/AEE1/2019, Dt.28.12.2020**

Sir,

Sub: (R&B) NH Circle, Vijayawada – Permission for laying of 6", API 5L Gr. X-52, PSL-2, 6.4mm Thick, 3LPE Coated Carbon Steel Pipe Line for service of Natural Gas along NH-165 in Bhimavaram, West Godavari District, A.P - Request for grant of NOC— Compliance furnished – Reg.

- Ref: 1. This office letter No. NH165/GGPL/Bhimavaram/DCE(NH)/EE/DEE1/AEE1/2019, Dt.13.02.2020  
2. RO/MORTH, Vijayawada letter No. Misc.24/Gas Pipeline/NH-165/Sr.no.56/2590, Dt.18.05.2020  
3. SE/NH/VJA letter No. Road Cutting/Permission/GGPL/NH165/ AEE1/2019 Dt:17.12.2020

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It is to inform that in the ref. 1<sup>st</sup> cited the proposals of grant of NOC were furnished to RO/MORTH/Vijayawada. In the ref. 2<sup>nd</sup> cited the RO, MORTH, Vijayawada has returned the proposals unapproved along with certain observations. Now, in the ref. 3<sup>rd</sup> cited the SE(R&B), NH Circle, Vijayawada has submitted the compliance for the observations and are as follows:

S. No	Observations by RO/ MoRTH/VJA	Compliance by SE/NH/VJA
1	As per Ministry's Circular No.RW/NH-33044/29/2015/S&R(R), Dt.22.11.2016, the utility services shall be permitted to cross the National Highway either through structure or conduits specially built for that purpose. However, it is seen that the applicant has proposed for casing only at Km 91/067 and has not proposed for any casing pipe at the crossing location Km 102/927 and Km 91/586 which may compromise the safety of the high way and road users.	Pipeline shall be laid across railway track at Km 91/067 as per the requirement/standards of Railways. At the remaining Crossings i.e, at Km 102/927 and Km 91/586 also casing is proposed and the details are enclosed in the <b>Annexure-I</b> .
2	In the checklist, it has been mentioned that the utility line has not been proposed through CD works. However, from the line diagram, it is seen that there are several nallahs across the project highway. Also, as the proposed length of the utility line is 18.09 km, it is unlikely that alignment of the utility line will not pass over culvert locations on the National Highway. The same may be	Pipeline shall not be crossed out over the culvert locations constructed for Nallas / Canals. However, the pipeline shall be laid through HDD methodology below the culvert foundation by maintaining the depth of more than 2.5 mtrs from the bed of Nalla / Canal. HDD Profile Drawings for the

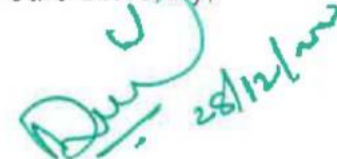
	checked by EE(R&B), NH Division Vijayawada as per site conditions and the checklist may be reconciled accordingly. The arrangement proposed by the licensee for crossing of cross drainage structures may be furnished.	culverts are enclosed herewith for your reference <b>(Annexure-II)</b> . Check list reconciled according to the above is enclosed herewith, as desired <b>(Annexure-III)</b> .
3	It is seen that only the authorization from Petroleum and Natural Gas regulatory board has been enclosed with the proposal. As per Clause 4 of Ministry's Circular dated 22.11.16, the various other safety clearances from the respective authorities such as Chief controller of explosives, State/Central Pollution board and any other statutory clearance as applicable must also be obtained by the applicant before applying for permission. The same needs to be furnished.	Please refer the enclosed document of PESO, letter vide No. P-2 (4) Misc. / 2013 dated 16.09.2014 issued to M/s GAIL Gas Ltd (one of the GGPI promoters) regarding statutory permission for City Gas Distribution (CGD) Network <b>(Annexure- IV)</b> . Laying of pipelines by CGD companies for supplying PNG & CNG (public utilities) shall be carried out as per the regulations & safety/Engg. Standards of Regulatory Board, PNGRB, Govt. of India.
4	It is seen that the proposed utility is crossing the Railway line near Km 91/067. The clearance obtained from railways for crossing of the utility line also needs to be furnished.	Please refer enclosed herewith the documents related to permission from the Railways Authority <b>(Annexure-V)</b> . Approval is awaited from the Railway Authorities.
5	The existing ROW line has not been indicated in the NH line diagram. The distance of the utility from the Centre line of the highway may be shown in the strip plan and it may be ensured that the utility services are located as close to the extreme edge of ROW as possible.	Sample strip plan indicating NH Line diagram and distance from the centre to extreme edge of Road is attached as desired <b>(Annexure -VI)</b> .
6	The proposed length of the utility line is 18.09 km. However, only 5.54 km length has been considered while calculating the performance bank guarantee charges. The performance bank guarantee charges should be based on per route meter and calculated as per para-6 of the Ministry's circular No. RW/NH-33044/2912015 /S&R(R) dated 22.11.2016.	BG Calculations reworked out as desired as per the mentioned circular dated 22.11.2016 and attached herewith as <b>Annexure-VII</b> . Revised BG Amount worked out to be Rs.18,12,600/-.
7	The outer diameter of the utility line is not indicated in the typical cross section enclosed with the proposal. The same needs to be shown for better appreciation of calculation of license fee charges. Also, it needs to be explained that how the applicant has been considered as public utility provider.	Please refer the Typical Cross-Sectional Drawing indicating Outer Diameter of the pipe as desired <b>(Annexure-VIII)</b> .

< The SE(R&B), NH Circle, Vijayawada has further submitted that the firm requesting to grant permission for laying gas pipe line from km.91/200 to 103.052 of NH-165 and for the remaining reach i.e from Km.84.958 to 91.200, permission will seek after obtaining the permission from railway authorities for crossing the level crossing in Km.91/200.

Hence, it is requested to accord necessary Permission for laying of 6", API 5L Gr. X-52, PSL-2, 6.4mm Thick, 3LPE Coated Carbon Steel Pipe Line for service of Natural Gas along NH-165 from km.91/200 to 103.052 of NH-165 in Bhimavaram, West Godavari District, A.P.

Encl.: As above.

Yours sincerely,



for Chief Engineer(R&B)  
NH&CRF., A.P

-lg  
28/12

**Copy to**

The Superintending Engineer (R&B),  
NH Circle, Vijayawada.

5/28/5/2020



Ref. no.: GGPL/ NHAI/BHI/STEEL/2020-21/01

Date: 23.05.2020

To  
The Executive Engineer (R&B),  
NH Division,  
Vijayawada-520010

**Sub: Proposal for permission for laying of 6", API 5L Gr X52 PSL-2, 6.4 mm thick, 3LPE Coated Carbon Steel pipeline for service of natural gas across & along NH-165 in Bhamavaram, West Godavari District, Andhra Pradesh**

Dear Sir,

This has reference to the letter received from MoRTH, Regional office, Vijayawada vide no.: RO/VJA/Misc 24B/Gas Pipeline/NH-165/Sr no.56/2590 dated 18.05.2020 seeking clarifications for the observations made on the subject matter.

We wish to submit that replies/clarifications to point wise observations mentioned in the above referred letter, have been provided and enclosed herewith for your kind perusal. Annexures/drawings in support of above clarifications have also been enclosed along with.

We therefore request you to please grant permission for laying the subject gas pipeline.

Thanking you

Yours sincerely  
  
G. Ankaiah  
DGM (CGM)  
**G. ANKAIAH**  
Deputy General Manager (CGM)  
Godavari Gas Private Limited  
(A Joint Venture of APGDC & HPCL)  
RAJAMAHENDRAVARAM.

**GODAVARI GAS PRIVATE LIMITED**  
(A Joint Venture Company of APGDC & HPCL)

Regd. Address : D.No: 85-6-23/2, 2nd Floor, RTC Complex Road, Near Morampudi Junction, Rajahmundry - 533107  
Tel: 0883 2476111, Email: info@godavarigas.in

**OBSERVATIONS OF NHAI VIDE NO.2590 DATED 18.05.20220 ON PERMISSION FOR LAYING 6" DIA GAS STEEL PIPELINE ALONG NH-165 AT BHIMAVARAM, WEST GODAVARI DISTRICT**

OBSERVATIONS OF NHAI	REPLIES OF GGPL
1. As per Ministry's Circular No.RW/NH-33044/29/2015/S&R(R) dated 22.11.2016, the utility services shall be permitted to cross the National Highway either through structure or conduits specially built for that purpose. However, it is seen that the applicant has proposed for casing only at Km 91/067 and has not proposed for any casing pipe at the crossing location Km 102/927 and Km 91/586 which may compromise the safety of the high way and road users.	Pipeline shall be laid across railway track at Km 91/067 as per the requirement/standards of Railways. However, 6" dia, thickness of 6.4 mm pipeline across NH at Km 102 /927 and Km 91/586 shall be laid at depth more than 2.5 mtr through HDD technology hence it is proposed with <del>with</del> casing. HDD Profile drawings of above NH Crossing are enclosed herewith for your reference (Annexure-I) And following NH Standards
2. In the checklist, it has been mentioned that the utility line has not been proposed through CD works. However, from the line diagram, it is seen that there are several nallahs across the project highway. Also, as the proposed length of the utility line is 18.09 km, it is unlikely that alignment of the utility line will not pass over culvert locations on the National Highway. The same may be checked by EE(R&B), NH Division Vijayawada as per site conditions and the checklist may be reconciled accordingly. The arrangement proposed by the licensee for crossing of cross drainage structures may be furnished.	Pipeline shall not be crossed out over the culvert locations constructed for Nallas / Canals. However, the pipeline shall be laid through HDD methodology <del>below the culvert foundation</del> maintaining the depth of more than 2.5 mtrs from the bed of Nalla / Canal. HDD Profile Drawings for the culverts are enclosed herewith for your reference (Annexure - II). Check list reconciled according to the above is enclosed herewith, as desired (Annexure-III).
3. It is seen that only the authorization from Petroleum and Natural Gas regulatory board has been enclosed with the proposal. As per Clause 4 of Ministry's Circular dated 22. 11.16, the various other safety clearances from the respective authorities such as Chief controller of explosives, State/Central Pollution board and any other statutory clearance as applicable must also be obtained by the applicant before applying for permission. The same needs to be furnished,	Please refer the enclosed herewith the document of PESO letter vide No. P-2 (4) Misc / 2013 dated 16.09.2014 issued to M/s GAIL Gas Ltd (one of the GGPL promoters) regarding statutory permission for City Gas Distribution (CGD) Network (Annexure-IV). Laying of pipelines by CGD companies for supplying PNG & CNG (public utilities) shall be carried out as per the regulations & safety/Engg. standards of Regulatory Board, PNGRB, Govt.of India.
4. It is seen that the proposed utility is crossing the Railway line near Km 91/067. The clearance obtained from railways for crossing of the utility line also needs to be furnished.	Please refer enclosed herewith the documents related to permission from the Railways Authority (Annexure- V). Permission charges are already paid to Railways and awaiting final approval

M. Srinivasan  
28/5/2020  
Dy. Executive Engineer (R&B)  
NH Sub-Division, Bhimavaram

  
EXECUTIVE ENGINEER (R&B)  
N.H. DIVISION, VIJAYAWADA

  
G. ANKAIAH  
Deputy General Manager (CGM)  
Godavari Gas Private Limited  
(A Joint Venture of APGDC & HPCL)  
RAJAMAHENDRAVARAM.

<p>5. The existing ROW line has not been indicated in the NH line diagram. The distance of the utility from the Centre line of the highway may be shown in the strip plan and it may be ensured that the utility services are located as close to the extreme edge of ROW as possible.</p>	<p>Sample strip plan indicating NH Line diagram and distance from the center to extreme edge of Road is attached as desired (<b>Annexure -VI</b>).</p>
<p>6. The proposed length of the utility line is 18.09 km. However, only 5.54 km length has been considered while calculating the performance bank guarantee charges. The performance bank guarantee charges should be based on per route meter and calculated as per para-6 of the Ministry's circular No. RW/NH-33044/2912015 /S&amp;R(R) dated 22.11.2016.</p>	<p>BG Calculations reworked out as desired as per the mentioned circular dated 22.11.2016 and attached herewith as <b>Annexure -VII</b>. Revised BG Amount worked out to be Rs 18,12,600/-.</p>
<p>7. The outer diameter of the utility line is not indicated in the typical cross section enclosed with the proposal. The same needs to be shown for better appreciation of calculation of license fee charges. Also, it needs to be explained that how the applicant has been considered as public utility provider.</p>	<p>Please refer the Typical Cross-Sectional Drawing indicating Outer Diameter of the pipe as desired (<b>Annexure-VIII</b>).</p> <p>GGPL has been authorized by PNGRB to lay, build, operate &amp; expand city or local natural gas distribution networks in order to supply Piped Natural Gas (PNG) to Domestic Houses &amp; Compressed Natural Gas (CNG) to vehicles in the Geographical Area of West Godavari District. PNG &amp; CNG comes under essential services and GGPL provide these to the public.</p>

*M. Srinivasan*  
28/12/2020

**Dy. Executive Engineer (R&B)**  
NH Sub-Division, Bhimavaram.

*Reshma*  
28/12/2020  
**EXECUTIVE ENGINEER (R&B)**  
N.H. DIVISION, VIJAYAWADA

*G. Ankaiah*

**G. ANKAIAH**  
Deputy General Manager (CGM)  
Godavari Gas Private Limited  
(A Joint Venture of APGDC & HPCL)  
RAJAMAHENDRAVARAM.

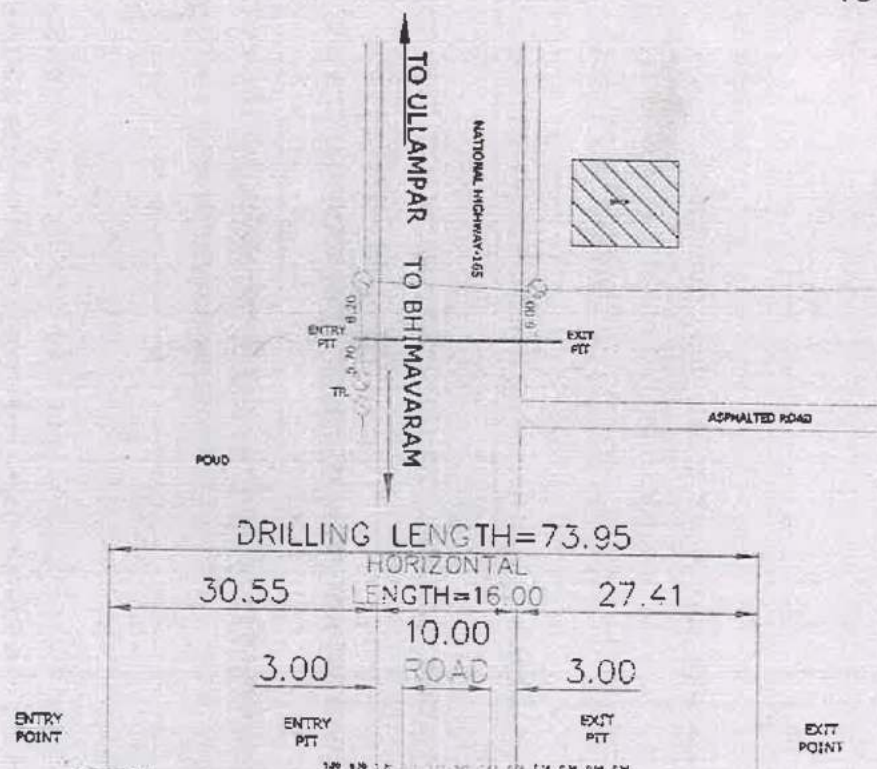
*Superintending Engineer (R&B)*  
N.H. Circle, Vijayawada.

*10/11*

TO ULLAMPAR

TO BHIMAVARAM

1. All dimensions are in Meters
2. Bed Profile as per Site Survey
3. Pipe Spots: 6" NB API 5L Gr. A 52 X6.4 mm W THK.
4. Method for pipeline Laying: HDD



Entry Angle = 6.00°  
Exit Angle = 7.00°  
Radius of Curvature = 240.00 Mtr  
Hor. Length = 16.00 Mtr.  
Curved Length = 16.00 Mtr.  
Maximum Depth/Cover = 2.57 Mtr.  
From Ground Level  
Minimum Cover From = 2.04 Mtr  
From Ground Level

Distance	0.06	3.00	6.00	9.00	12.00	15.00	18.00	21.00	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00	51.00	54.00	57.00	60.00	63.00	66.00	69.00	72.00	
COVLT	0.00	0.41	0.77	1.10	1.38	1.65	1.87	2.08	2.29	2.46	2.61	2.75	2.88	3.00	3.11	3.21	3.30	3.38	3.46	3.53	3.60	3.66	3.72	3.78	3.83	3.88

G. AMKALAH

GODAVARI GASVILLE

**G. ANKAIAH**  
Deputy General Manager (CGM)  
**Godavari Gas Private Limited**  
(A Joint Venture of APGDC & HPCL)  
**RAJAMAHENDRAVARAM.**

## GROUND PROFILE


EXECUTIVE ENGINEER (R&B)  
N.H. DIVISION, VIJAYAWADA


Dy. Executive Engineer (R&B)  
NH Sub-Division, Bhimavaram


Superintending Engineer (R&B)  
N.H. Circle, Vijayawada.


# ANNEXURE - I

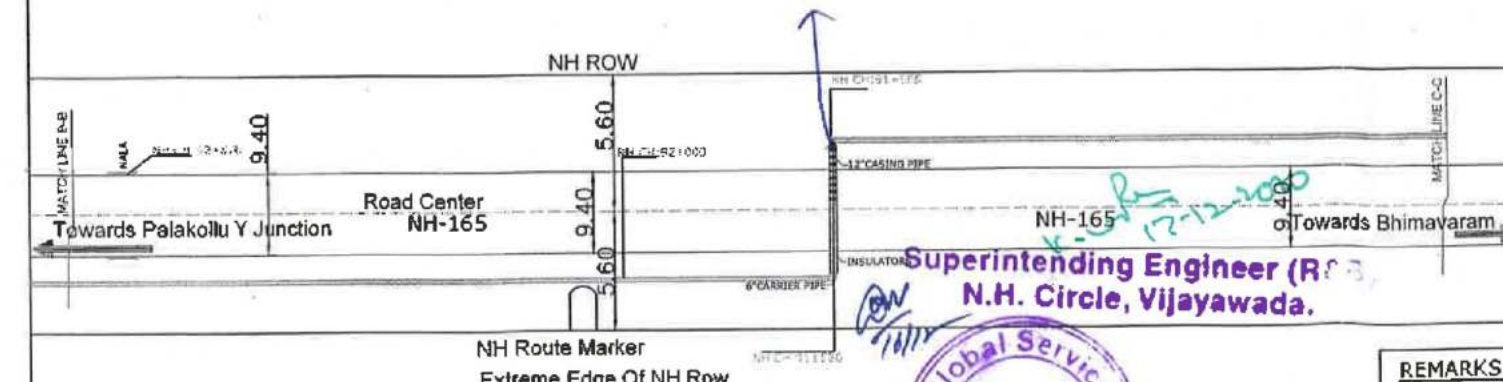
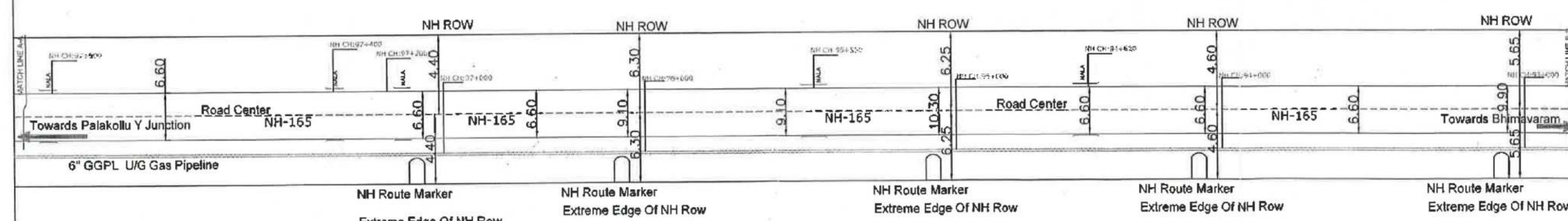
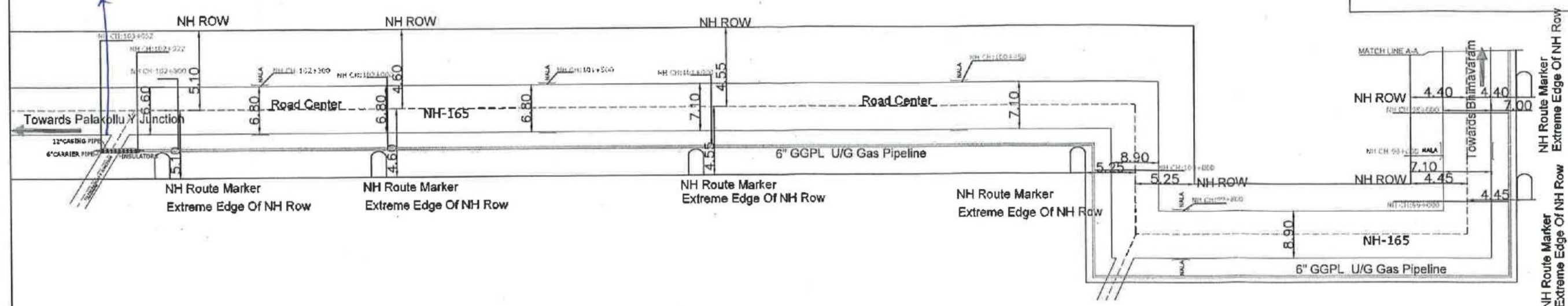
**NOTE**

 NH-165

 Road Center




 NH Route Marker

 12" CASING PIPE HDD



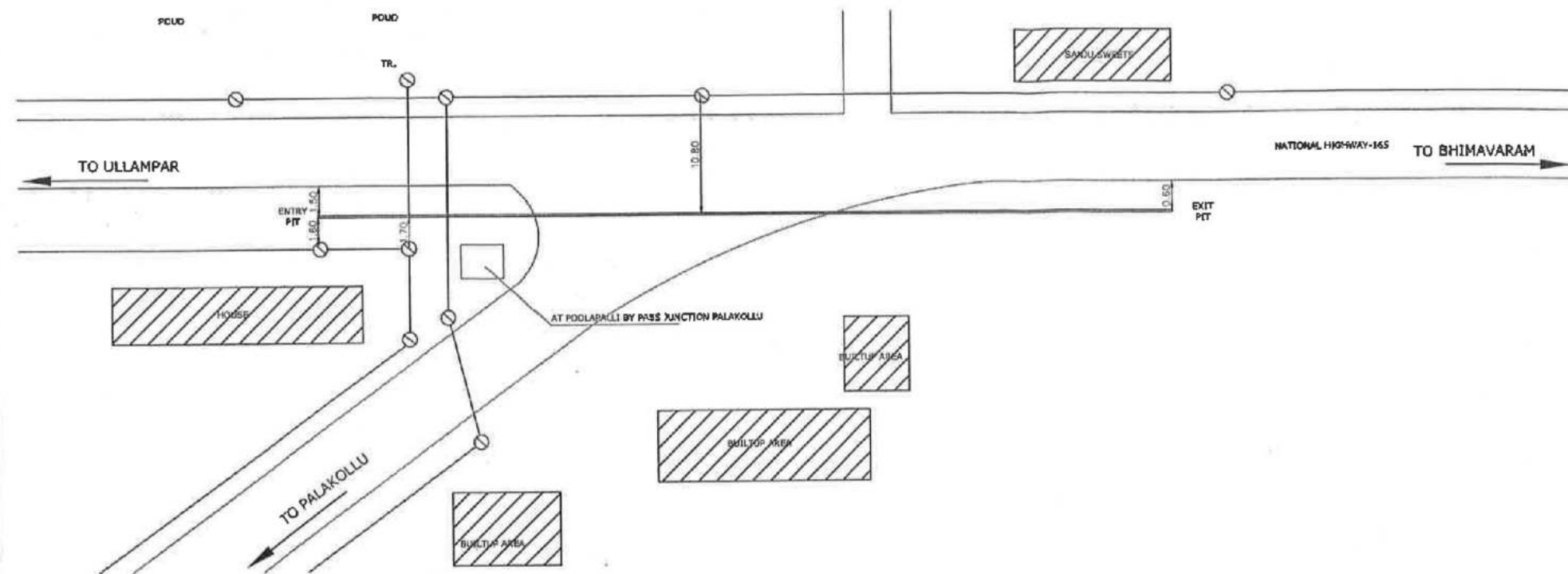
REMARKS:-  
NATIONAL HIGHWAY-165 CAGED CROSSING NH CH:103+052 TO 102+927  
NATIONAL HIGHWAY-165 CAGED CROSSING NH CH:91+586



CLIENT 	GODAVARI GAS PVT.LTD.		
CONSULTANT 	M/s. MECON LTD.		
PROJECT	LAYING AND CONSTRUCTION OF 6" & 4" UNDER GROUND STEEL PIPELINE NETWORK & ASSOCIATED WORKS AT GODHAVARI		
CONTRACTOR 	TECHNO GLOBAL SERVICES PVT.LTD.		
TITLE	NH LINE DIAGRAM DRAWING		
SCALE	SIZE SHEET	DRAWING NO.	REV.

DATE:18.07.2019

TO BHIMAVARAM

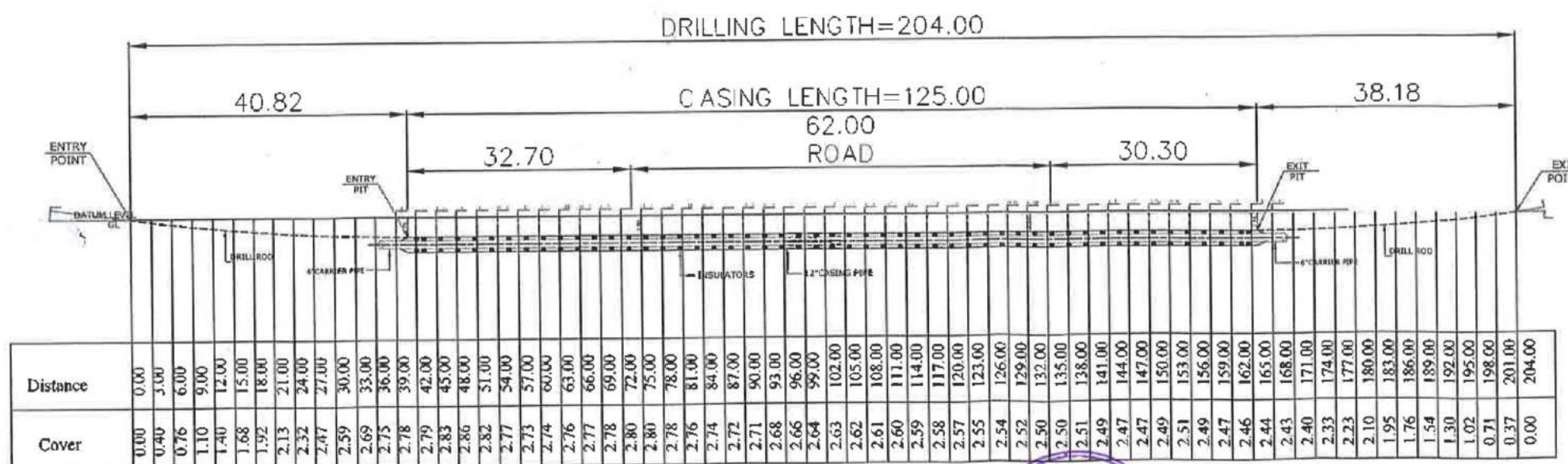


Notes:-

1. All dimensions are in Meters
2. Bed Profile as per Site Survey
3. Pipe Specs: 6" NB API 5L Gr.x 52 X6.4 mm W.THK
4. Casing Pipe Specs:12"(IS:3589-2001 GR.410)
5. Method for pipeline Laying: HDD

Technical Date:-

Entry Angle	=	7.00°
Exit Angle	=	9.00°
Radius of Curvature	=	300.00
Hor. Dist	=	125.00m
Curved Dist.	=	125.00m
Maximum Depth/Cover From Ground Level	=	2.86.00m
Minimum Cover From From Ground Level	=	2.44 m



# GROUND PROFILE


PROPOSED DRAWING

[illegible]

CLIENT	
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GODAVARI GAS PVT.LTD.



M/s. MECON LTD.

PROJECT: LAYING AND CONSTRUCTION OF 6" & 4" UNDER GROUND  
STEEL PIPELINE NETWORK & ASSOCIATED WORKS AT GODHA

CONTRACTOR:

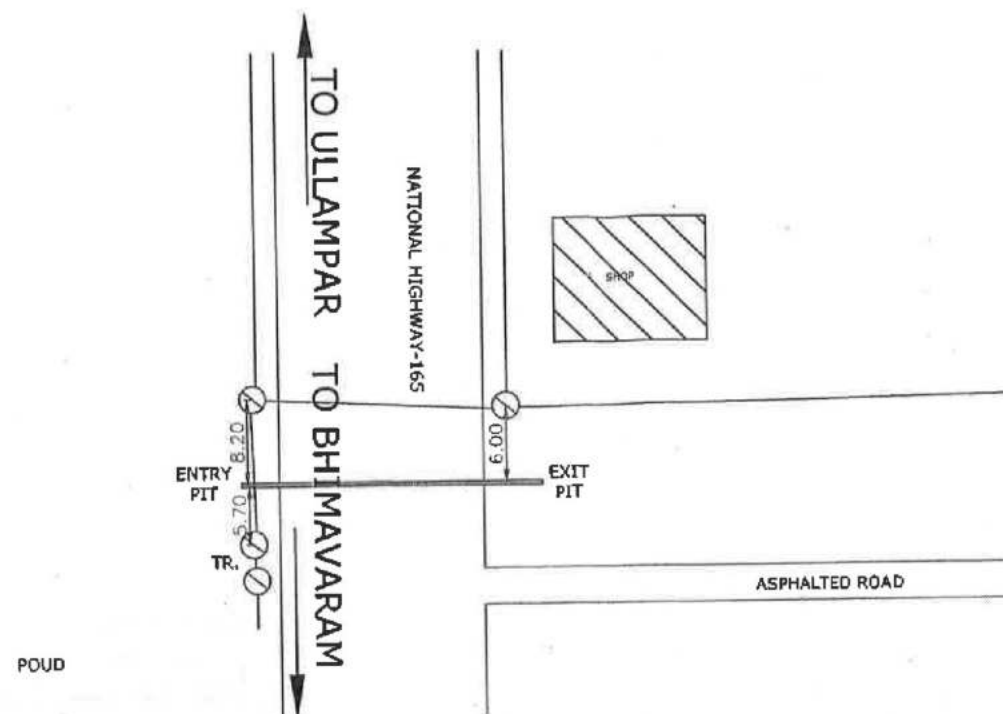
TECHNO GLOBAL SERVICES PVT.LTD.

TITLE: PROPOSED BORE PLAN ROAD CROSSING BY HDD METHOD

SC-LL	SIZE	SP-LL	DATE	FILE
NTS	A3	1 OF 1	GGPL/MEC/TGS/WEST GODAVARI CGD/HDD - 21	01

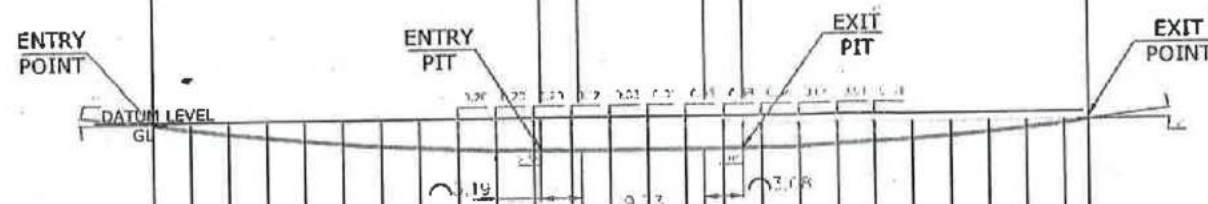
TO ULLAMPAR

TO BHIMAVARAM



30.55	HORIZONTAL LENGTH=16.00	27.41
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3.00	10.00	3.00
	ROAD	



Cover	Distance
0.00	0.00
0.41	3.00
0.77	6.00
1.10	9.00
1.39	12.00
1.65	15.00
1.87	18.00
2.05	21.00
2.19	24.00
2.29	27.00
2.35	30.00
2.46	33.00
2.55	36.00
2.57	39.00
2.55	42.00
2.21	45.00
1.90	48.00
1.83	51.00
1.71	54.00
1.56	57.00
1.37	60.00
1.15	63.00
0.88	66.00
0.58	69.00
0.24	72.00
0.00	73.95

## GROUND PROFILE

1. All dimensions are in Meters
2. Bed Profile as per Site Survey
3. Pipe Specs: 6" NB API 5L Gr.x 52 X6.4 mm W.THK
4. Method for pipeline Laying: HDD

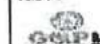
Entry Angle	=	6.00°
Exit Angle	=	7.00°
Radius of Curvature	=	240.00 Mtr.
Hor. Length	=	16.00 Mtr.
Curved Length	=	16.00 Mtr.
Maximum Depth/Cover	=	2.57 Mtr.
From Ground Level		
Minimum Cover From	=	2.04 Mtr.
From Ground Level		



PROPOSED DRAWING

70	11.11.2020	205 AMP7654	9 8 8 8 = 8 8 8 8						
71	11.11	205 AMP7654	9 8 8 8 = 8 8 8 8						

CLIENT:



GODAVARI GAS PVT.LTD.

M/s. MECON LTD.

PROJECT: LAYING AND CONSTRUCTION OF 6" & 4" UNDER GROUND

STEEL PIPELINE NETWORK &amp; ASSOCIATED WORKS AT GODHAVAR

CONTRACTOR

TECHNO GLOBAL SERVICES PVT.LTD.

TITLE
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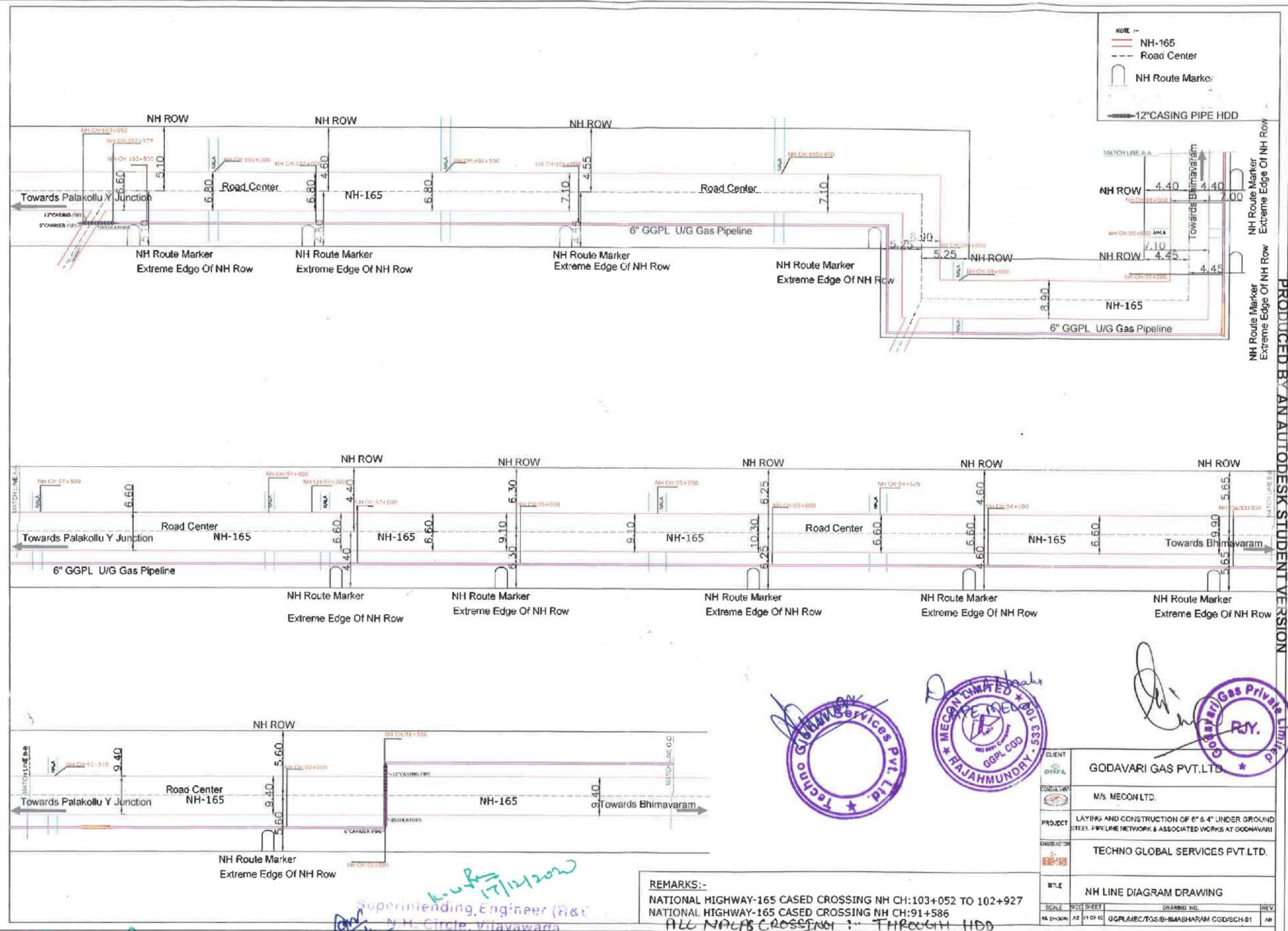
PROPOSED HDD PROFILE FOR ROAD CROSSING AT CH+7+110 TO 17+120

NT8	A3	1 OF 1	GOPLMEOTGSWEST OODAVARI CDDULLAMPARU TO RIMAVARAM HICO - 01	01
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SHEET-01

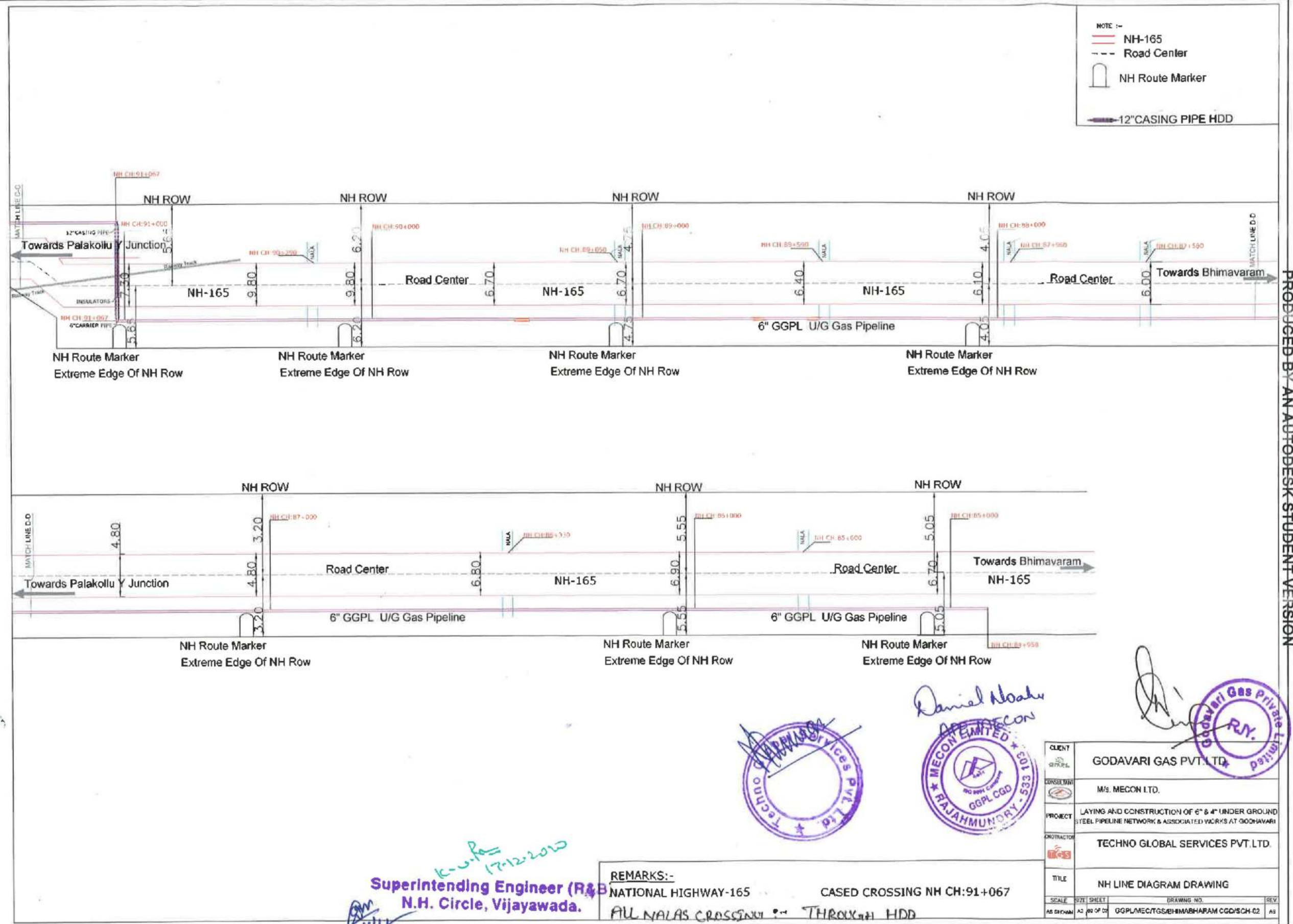
PRODUCED BY AN AUTODESK STUDENT VERSION



PRODUCED BY AN AUTODESK STUDENT VERSION

SHEET-02

PRODUCED BY AN AUTODESK STUDENT VERSION



PRODUCED BY AN AUTODESK STUDENT VERSION

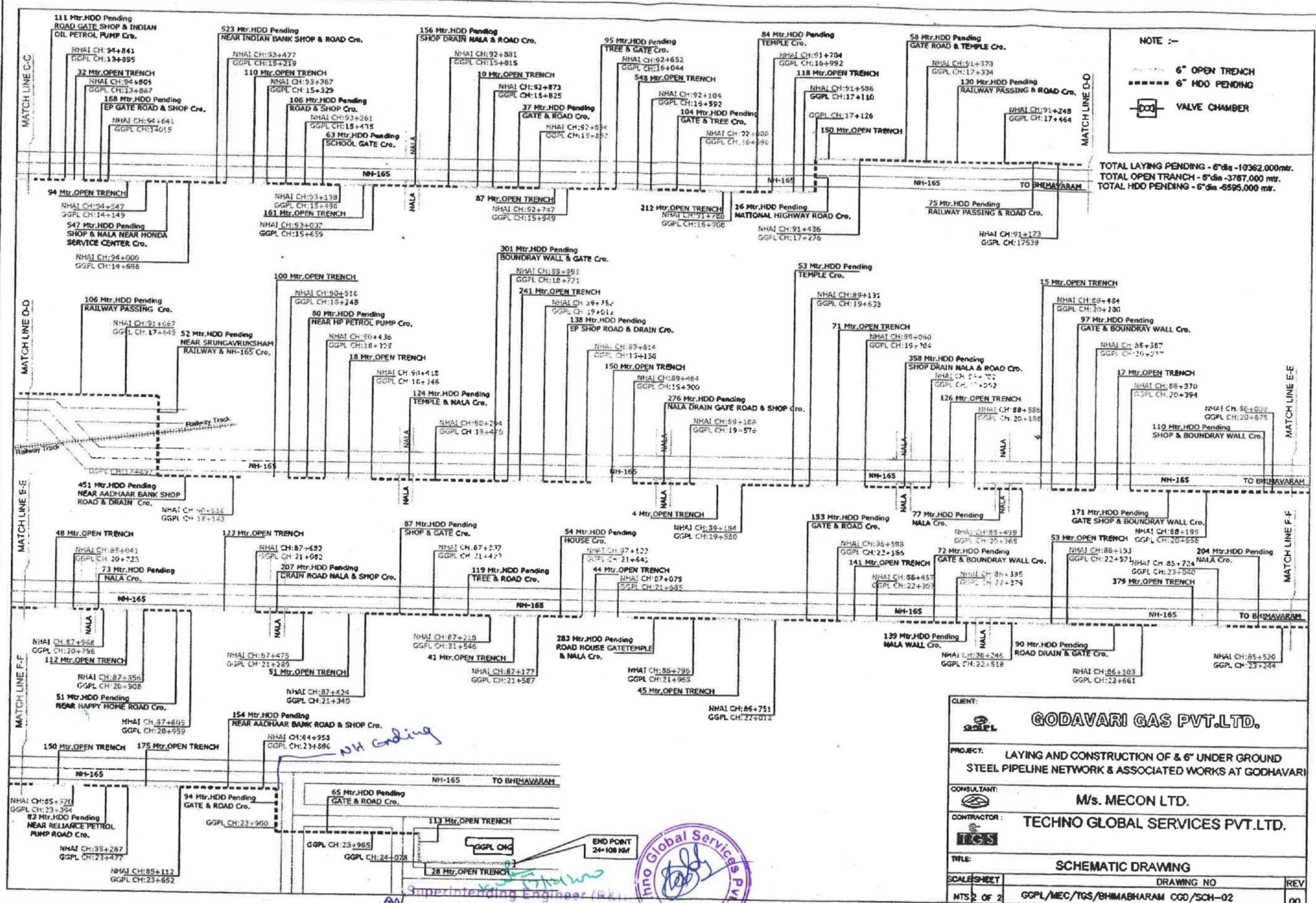
Superintending Engineer (R&B)  
N.H. Circle, Vijayawada.

REMARKS:-  
NATIONAL HIGHWAY-165  
CASED CROSSING NH CH:91+067  
ALL NALAS CROSSING THROUGH HDD

M. Srinivas Rao  
Executive Engineer (R&B)

K. Nageswara Rao  
10/12/2020





CLIENT:		
GODAVARI GAS PVT.LTD.		
PROJECT:		
LAYING AND CONSTRUCTION OF 6" UNDER GROUND STEEL PIPELINE NETWORK & ASSOCIATED WORKS AT GODAVARI		
CONSULTANT:		
M/s. MECON LTD.		
CONTRACTOR:		
TECHNO GLOBAL SERVICES PVT.LTD.		
TITLE:		
SCHEMATIC DRAWING		
SCALE SHEET	DRAWING NO	REV
NTS 2 OF 2	GCPL/MEC/TGS/BHIMABHARAM CGD/SCH-02	00

M. Srinivas Rao  
 Dy. Executive Engineer (R&D)

K. Nagesh Rao  
 10/12/2020



PROPOSED HDD PROFILE FOR ROAD NALA & RAILWAY CROSSING BY HDD METHOD  
NEAR SRUNGAVRUKSHAM RAILWAY STATION GGPL CH:17+645 TO 17+697 & NHAI CH:91+067

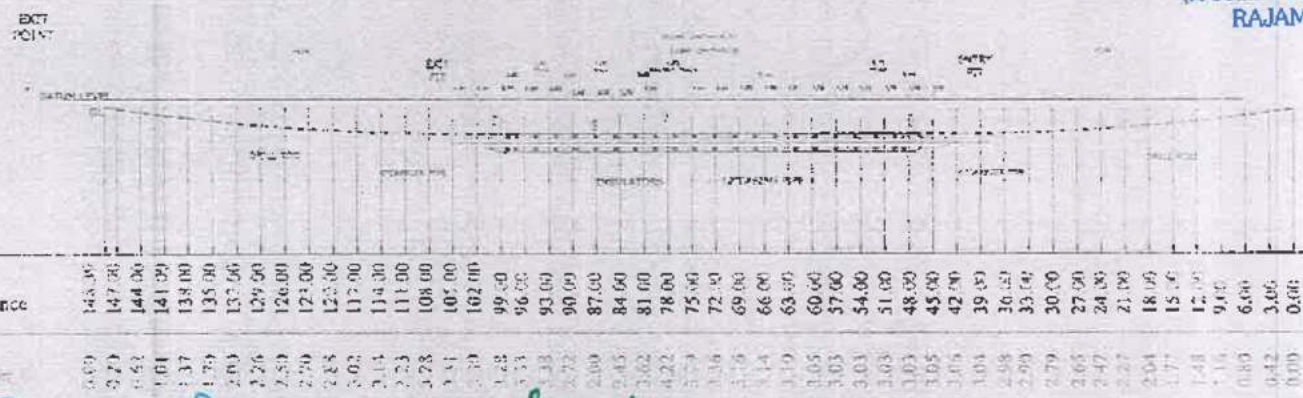
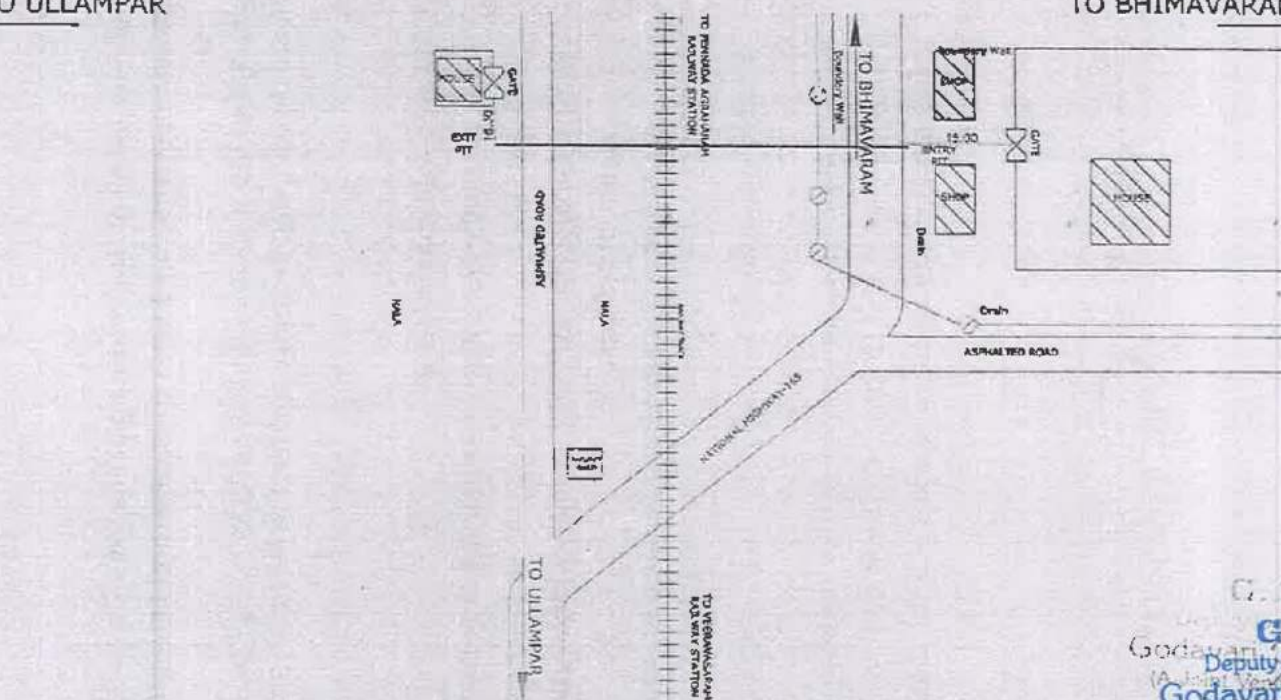
TO ULLAMPAR

TO BHIMAVARAM

- Notes:-
1. All dimensions are in Meters
  2. Bed Profile as per Site Survey
  3. Pipe Specs: 6" NB API 5L Gr. A 32 X 6.4 mm W. 211K
  4. Casing Pipe Specs: 12"
  5. Method for pipeline Laying: HDD

Technical Data:-

Entry Angle	= 8.00°
Exit Angle	= 9.00°
Radius of Curvature	= 300.00
Hor. Dist	= 52.00 Mtr
Curved Dist	= 52.00 Mtr
Maximum Depth/Cover	= 4.22 Mtr
From Ground Level	
Minimum Cover From	= 2.66 Mtr
From Ground Level	



**G. ANKAIAH**  
Deputy General Manager (CGM)  
**Godavari Gas Private Limited**  
(A Joint Venture of APSC & HPCL)  
RAJAMAHENDRAVARAM.

ENTRY POINT

GODAVARI GAS PRIVATE LIMITED

RAJAMAHENDRAVARAM

TECHNO GLOBAL SERVICES PVT. LTD.

*M. Srinivasulu*  
25/6/2020  
Dy. Executive Engineer (R&B)  
NH Sub-Division, Bhimavaram.

*R. Srinivasulu*  
25/6/2020  
EXECUTIVE ENGINEER (R&B)  
N.H. DIVISION, VIJAYAWADA

*Superintending Engineer (R&B)*  
17/12/2020  
N.H. Circle, Vijayawada.

PROPOSED HDD PROFILE FOR ROAD CROSSING BY HDD METHOD NEAR Y JUNCTION PALAKOLLU  
GGPL CH:05+644 TO 05+769 & NH CH:103+052 TO 102+927 ✓

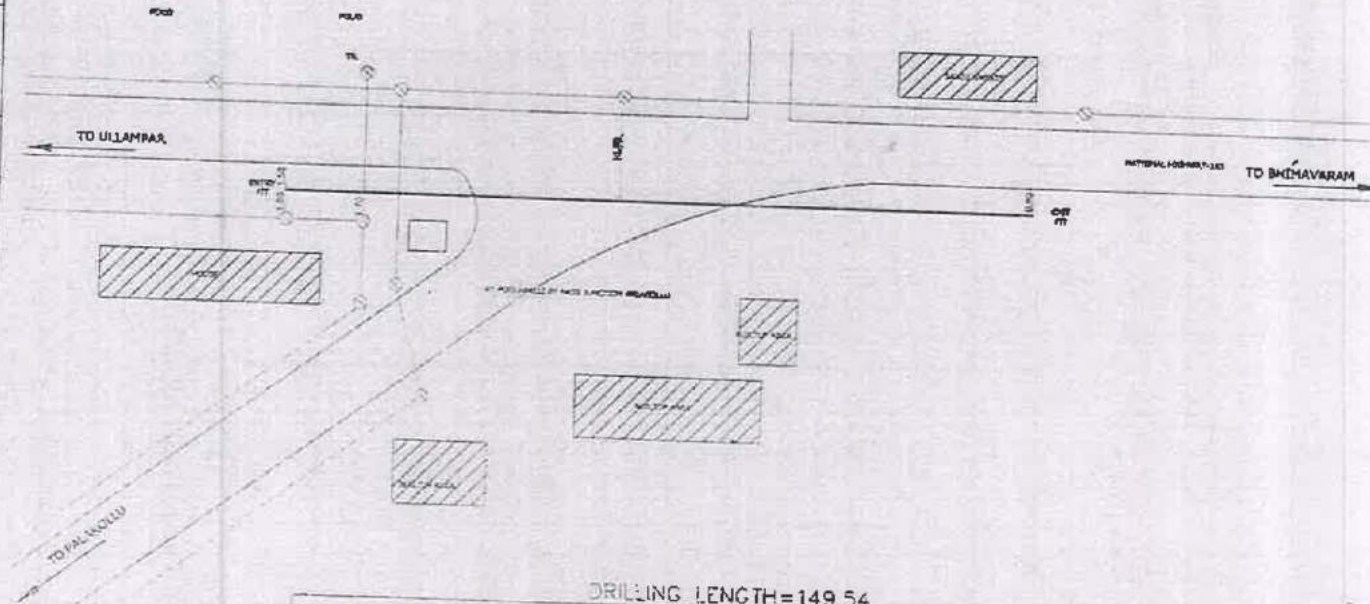
TO ULLAMPAR

TO BHIMAVARAM

Notes:-

1. All dimensions are in Meters
2. Bod Profile as per Site Survey
3. Pipe Specs: 6" NB API SL Gr. 52 X 5 + 100 W THK
4. Method for pipeline Laying: HDD

Entry Angle = 6.00°  
Exit Angle = 7.00°  
Radius of Curvature = 240.00 Mtr  
Hor. Length = 125.00 Mtr  
Curved Length = 125.07 Mtr  
Maximum Depth/Cover = 2.81 Mtr  
From Ground Level  
Minimum Cover From = 1.50 Mtr  
From Ground Level

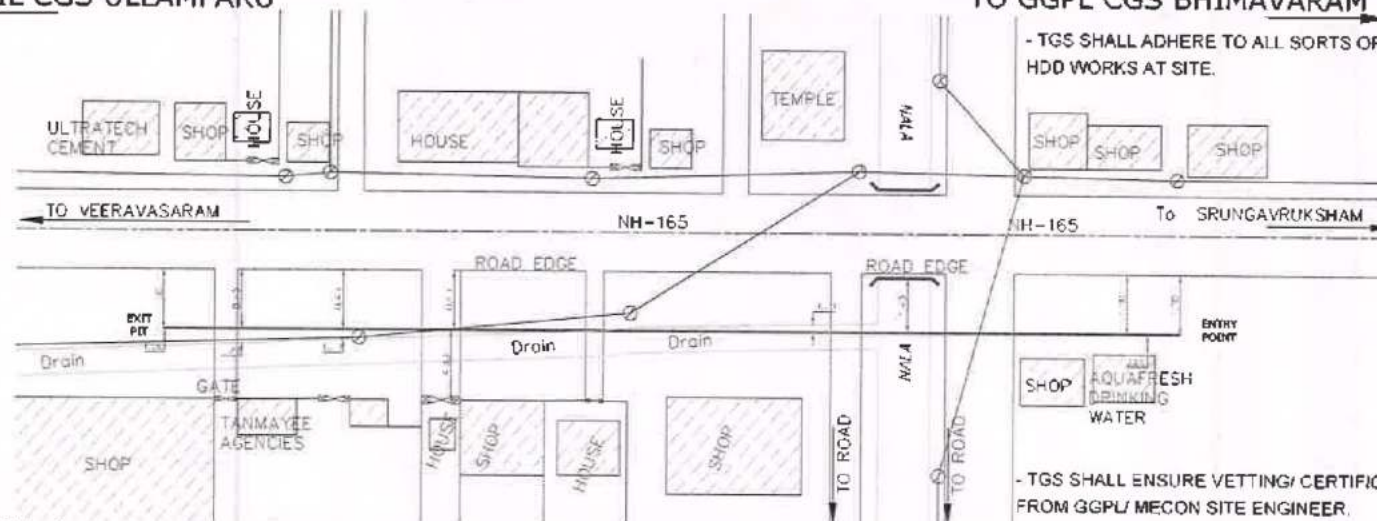


		DRILLING LENGTH=149.54			
1.63		HORIZONTAL LENGTH=125.00		12	
		62.00			
		ROAD			
		30.30			
START POINT		END POINT		END POINT	
0.00		1.00		2.00	
3.00		4.00		5.00	
6.00		7.00		8.00	
9.00		10.00		11.00	
12.00		13.00		14.00	
15.00		16.00		17.00	
18.00		19.00		20.00	
21.00		22.00		23.00	
24.00		25.00		26.00	
27.00		28.00		29.00	
30.00		31.00		32.00	
33.00		34.00		35.00	
36.00		37.00		38.00	
39.00		40.00		41.00	
42.00		43.00		44.00	
45.00		46.00		47.00	
48.00		49.00		50.00	
51.00		52.00		53.00	
54.00		55.00		56.00	
57.00		58.00		59.00	
60.00		61.00		62.00	
63.00		64.00		65.00	
66.00		67.00		68.00	
69.00		70.00		71.00	
72.00		73.00		74.00	
75.00		76.00		77.00	
78.00		79.00		80.00	
81.00		82.00		83.00	
84.00		85.00		86.00	
87.00		88.00		89.00	
90.00		91.00		92.00	
93.00		94.00		95.00	
96.00		97.00		98.00	
99.00		100.00		101.00	
102.00		103.00		104.00	
105.00		106.00		107.00	
108.00		109.00		110.00	
111.00		112.00		113.00	
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117.00		118.00		119.00	
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126.00		127.00		128.00	
129.00		130.00		131.00	
132.00		133.00		134.00	
135.00		136.00		137.00	
138.00		139.00		140.00	
141.00		142.00		143.00	
144.00		145.00		146.00	
147.00		148.00		149.00	
150.00		151.00		152.00	
153.00		154.00		155.00	
156.00		157.00		158.00	
159.00		160.00		161.00	
162.00		163.00		164.00	
165.00		166.00		167.00	
168.00		169.00		170.00	
171.00		172.00		173.00	
174.00		175.00		176.00	
177.00		178.00		179.00	
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789.00		790.00		791.00	
792.00		793.00		794.00	
795.00		796.00		797.00	
798.00		799.00		800.00	

# PROPOSED HDD PROFILE FOR GATE ROAD SHOP DRAIN & NALA CROSSING AT CH:15+659 TO 15+815 (NEAR AQUAFRESH DRINKING WATER)

GAIL CGS ULLAMPARU

TO GGPL CGS BHIMAVARAM



## Notes:-

1. All dimensions are in Meters
2. Bed Profile as per Site Survey
3. Pipe Specs: 6" NB API 5L Gr.x 52 X6.4 mm W.THK
4. Method for pipeline Laying: HDD\*\*

- TGS SHALL ADHERE TO ALL SORTS OF QUALITY & SAFETY NORMS DURING EXECUTION OF HDD WORKS AT SITE.

## Technical Data:-

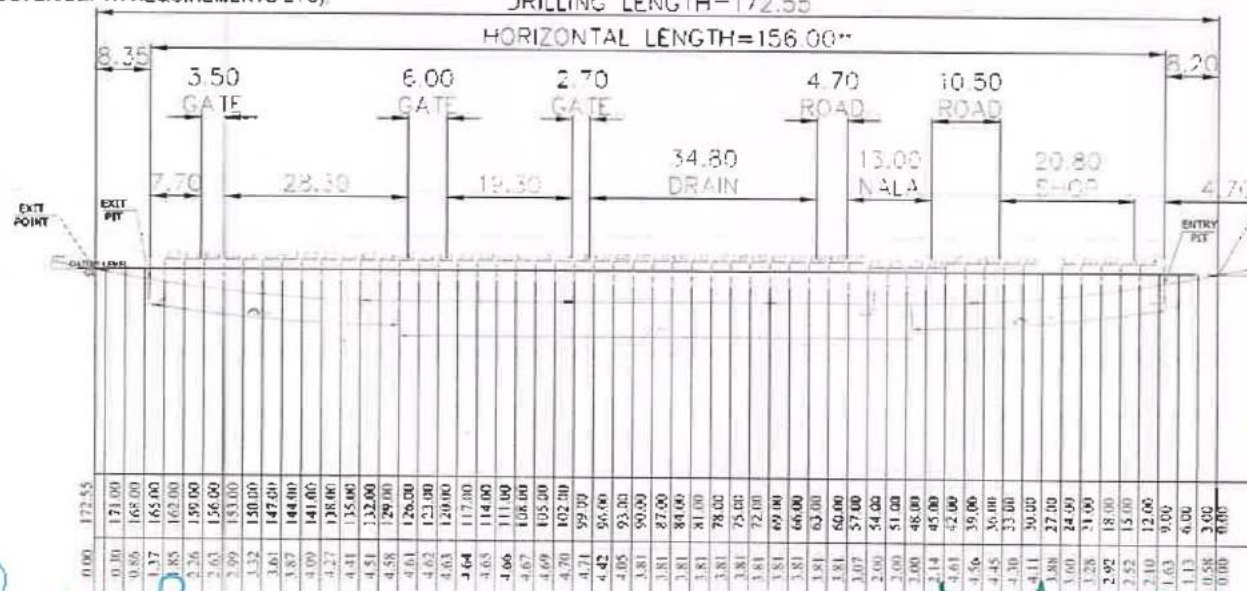
Entry Angle	= 11.00°
Exit Angle	= 11.00°
Radius of Curvature	= 240.00 Mtr.
Hor. Length	= 156.00 Mtr.
Curved Length	= 156.35 Mtr.
Maximum Depth/Cover	= 4.71 Mtr.
From Ground Level	
Minimum Cover From	= 1.50 Mtr.
From Ground Level	

- TGS SHALL ENSURE VETTING/ CERTIFICATION OF ACTUAL SITE CONDITION/ REQUIREMENT FROM GGPL/ MECON SITE ENGINEER.

\*\* - APPROVAL OF PIPELINE LAYING ALONG NH-165 ACROSS ROAD, GATE, SHOP, NALA & DRAIN AND ADJACENT TO ROAD & DRAIN EDGE BY HDD METHOD & ITS ASSOCIATED CROSSING LENGTH IS SUBJECT TO THE PERMISSION BY SANCTIONING AUTHORITY AND IS BASED ON CROSSING METHODOLOGY & SITE CONSTRAINTS FOUND DURING JOINT SITE VISIT WITH GGPL/MECON SITE ENGINEERS AND CROSSING LENGTH FINALISED ACCORDINGLY AS PER ACTUAL SITE CONDITION (ALSO CONSIDERING SAFETY, POSSIBLE COLLAPSE OF STRUCTURES, INADEQUATE SPACE FOR NORMAL LAYING, TRAFFIC CONGESTION, HDD GEOMETRY, MINIMUM COVER/DEPTH REQUIREMENTS ETC).

DRILLING LENGTH-172.55

HORIZONTAL LENGTH=156.00\*\*



APPROVED AS NOTED  
(CLEARED FOR EXECUTION SUBJECT TO INCORPORATION OF COMMENTS & RESUBMISSION FOR FINAL APPROVAL)

## CHECKED BY:-

SANDEEP RANJAN  
SR. MANAGER  
FOR MECON, BENGALURU

## VERIFIED BY:-

A VENKATA RAO  
GM I/C (M&C) & PC  
FOR MECON, BENGALURU

GODAVARI GAS PVT.LTD.

M/s. MECON LTD.

PROJECT: LAYING AND CONSTRUCTION OF 6" & 4" UNDER GROUND  
STEEL PIPELINE NETWORK & ASSOCIATED WORKS AT GODAVARI

CONTRACTOR: TECHNO GLOBAL SERVICES PVT.LTD.

Superintending Engineer (R&amp;B)

N.H. Circle, Vijayawada.

GROUND PROFILE

EXECUTIVE ENGINEER (R&amp;B)

N.H. DIVISION, VIJAYAWADA

Dy. Executive Engineer (R&B)  
NH Sub-Division, Bhimavaram

## CHECK LIST

( National Highway -165)

ANNEXURE - III

Guidelines for processing the proposal for laying Utility/Gas Line in the land along National Highway vested with NHAI/PWD/BRO

S. No.	Item	Information/ status Crossing - 1	Remarks
1	General Information		
1.1	Name and Address of the Applicant/Agency	M/s Godavari Gas Private Limited, 85-6-23/2, Morampudi Junction, RTC complex road, Rajahmundry	G. Ankaiah, Dy.General Manager (CGM) Office No. 08832476111
1.2	National Highway Number	165	
1.3	State	Andhra Pradesh	
1.4	Location	Bhimavaram, West Godavari (D)	
1.5	(Chainage in km)	84.958 KM to 103.052 KM	Towards Palakollu
1.6	Length in Meters	18,094 Mtrs	
1.7	Width of available ROW		
	(a) Left side from center line towards increasing chainage/ km direction.	Not Available	
	(b) Right side from center line towards increasing chainage/ km direction.	Not Available	
1.8	Proposal to lay underground electrical cable.	Not Applicable	
	(a) Left side from center line towards increasing chainage/ km direction.	Not Applicable	
	(b) Right side from center line towards increasing chainage/ km direction.	Not Applicable	
1.9	Proposal to acquire land	Not Applicable	
	(a) Left side from center line	Not Applicable	
	(b) Right side from center line	Not Applicable	
1.10	Whether proposal is in the same side where land is not to be acquired.	Not Applicable	
	If not then where to lay the cable.	Not Applicable	
1.11	Details of already laid services, if any, along the proposed route.	Nil	
1.12	Number of existing lanes (2 / 4 / 6 / 8 lanes)	2	
1.13	Proposed Number of lanes (2 lane with paved shoulders 4/6 / 6/8 lanes)	Not Applicable	
1.14	Service road existing or not	No	
	If yes then which side		
	(a) Left side from center line		
	(b) Right side from center line		
1.15	Proposed Service road	No	
	(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.	Service road not available	

Dy. Executive Engineer (R&B)  
NH Sub-Division, Bhimavaram.

EXECUTIVE ENGINEER (R&B)  
N.H. DIVISION, VIJAYAWADA

G. ANKAIAH  
Deputy General Manager (CGM)  
Godavari Gas Private Limited  
(A Joint Venture of APGDC & HPCL)  
RAJAMAHENDRAVARAM.

Superintending Engineer (R&B)

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 bridges. If Yes, then mention the methodology proposed for the same.	No	
1.19	<b>If crossings of the road involved</b> 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, Highway to be crossed at three locations. 1) CH 102/927 to CH 103/052 2) CH 91/586 3) CH 91/067 - Alongwith Railway crossing	As the 6" CS pipeline with thickness of 6.4 mm is laid at depth of more than 2.5 mtrs through HDD technology hence it is proposed with casing.
	(a) Whether existing drainage structures are allowed to carry the utility pipelines.	NA	
	(b) Is it on a line normal to NH	Yes	
	(c) What is the distance of crossing the utility pipelines from the existing structures. Crossings shall not be too near the existing structures on the National Highway, the minimum distance being 15 meter.	There is no existing utilites, strucutres in the proposed crossing location.	
	(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.	API 5L Gr. B (LS: 3589) Not Applicable	
	(e) Ends of the casing/conduit pipe shall be sealed from the outside, so that it does not act as a drainage path.	Yes Not Applicable	
	(f) The casing/conduit pipe should, as minimum extend from drain to drain in cuts and toe of slope toe of slope in the fills.	Yes Not Applicable	
	(g) The top of the casing/conduit pipe should be at least 1.2 meter below the surface of the road subject to being at least 0.3 m below the drain inverts. Mention the proposed details.	Yes, the minimum cover shall be maintained 1.5 mtrs above the Not Applicable Casing Pipe from the top of the Road.	
	(h) Mention the methodology proposed for crossing of road for proposed Sewage/Gas Pipeline. Crossing shall be by boring method (HDD) (Trench Less Technology) specially where the existing road pavement is of cement concrete or dense bituminous concrete type.	Yes, Crossing of the road shall be done by HDD/Trenchless Technology Method.	<b>G. ANKAIAH</b> Deputy General Manager (CGM)
	(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.	Not Applicable EXECUTIVE ENGINEER (R&B) N.H. DIVISION, VIJAYAWADA	<b>Godavari Gas Private Limited</b> (A Joint Venture of APGDC & HPCL) RAJAMAHENDRAVARAM.

2	Document / Drawings enclosed with the proposal		
2.1	<p>Cross section showing the size of trench for open trenching method (Is it normal size of 1.2m deepX 0.3m wide)</p> <p>(i) Should not be greater than 60 Cm wider than the outer diameter of the pipe.</p> <p>(ii) Located as close to the extreme edge of the right-of-way as possible but not less than 15 meter from the centre-lines of the nearest carriageway.</p> <p>(iii) Shall not be permitted to run along the National Highways when the road formation is situated in double cutting. Nor shall these be laid over the existing culverts and bridges.</p> <p>(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.</p>	Enclosed	<p>1. Proposal is for laying the natural gas pipeline along the National Highway on the edge of ROW.</p> <p>2. Proposed cross section diagram indicating size of the pipe and depth is enclosed.</p>
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, cable from the edge of ROW, important mile stone, intersections, cross drainage works etc.	Not Applicable	
2.4	Methodology for laying of Sewage/Natural gas pipe line.		
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, Methodology of refilling of trench	Yes	Yes, Pipeline laying shall be carried out by HDD where open trenching method is not possible.
	(a) The trench width should be at least 30 cm, but not more than 60 cm wider than the outer diameter of the pipe.	Yes	
	(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	
	<p>(c) The backfill shall be completed in two stages</p> <p>(i) side fill to the level of the top of the pipe and</p> <p>(ii) overfill to the bottom of the road crust.</p>	Yes	

Dy. Exer  
NH Sub

Engineer (R&B)

EXECUTIVE ENGINEER (R&B)  
N.H. DIVISION, VIJAYAWADA

**G. ANKAIAH**  
Deputy General Manager (CGM)  
Godavari Gas Private Limited  
(A Joint Venture of APGDC & HPCL)  
RAJAMAHENDRAVARAN

*[Signature]*

Superintending Engineer (R&B)  
N.H. Circle, Vijayawada.

	d) The sidefill 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 expenses of agency owning the utilit line	Yes	
2.4.2	Horizontal Directional Drilling (HDD) Method.	Yes	
2.4.3	Methodology for laying of Pipeline through CD works and method of laying. Incase where the carrying of gas pipe line on the bridge becomes inescapable.	Not Applicable	
3	Draft License Agreement signed by two witnesses.	Enclosed	
3.1	The licensee fee estimate as per Ministry's guidelines issues vide circular No. RW/NH-33044/29/2015/S&R(R) dated 22.11.2016.	GGPL agrees for the same as per requirement of NHAI	
4	Whether Performance Bank Guarantee as per Ministry's Circular no. RW/NH-33044/29/2015/ S&R(R) dated 22.11.2016 is obtained.	GGPL agrees for the same as per requirement of NHAI	
4.1	Confirmation of BG has been obtained or not as per MoRTH/NHAI guidelines	GGPL agrees for the same as per requirement of NHAI	
5	Affidavit / Undertaking from the applicant for the following is to be furnished:		
5.1	Undertaking for Not to Damage any other utility, if damaged then to pay the losses either to NHAI or to the concerned agency.	Yes, Enclosed	
5.2	Undertaking for Renewal of Bank Guarantee as and when asked by MORTH/NHAI.	Yes	
5.3	Undetaking for Confirmation all standard condition of Ministry Circulars & NHAI's guideline	Yes	
5.4	Underataking for indemnity against all damages and claims.	Yes	
5.5	Underataking for management of traffic movement during laying of utility line without hampering the	Yes	

EXECUTIVE ENGINEER (R&B)

N.H. DIVISION, VIJAYAWADA

Superintending Engineer, (R&B)

N.H. Circle, Vijayawada

Dy. Executive Engineer (R&B)

N.H. Circle, Bhimavaram

ANKAIAH

General Manager

Jayanti Gas Private Limited

(A Joint Venture of A



RAJAMAHENDRAVARAM

limited

(IPCL)

RAJAMAHENDRAVARAM

N.H. Circle, Vijayawada

5.6	Undertaking if any claim is raised by the concessionaire/ contractor then the same has to be paid by the applicant	Yes	
5.7	Undertaking that prior approval of the NHAI / MoRTH shall be obtained before undertaking any work of installation, shifting or repairs or alterations to the utility located in the National Highway right-of-ways.	Yes	
5.8	Undertaking that expenditure, if any, incurred by NHAI for repairing any damage caused to the National Highway by the laying, Maintenance or shifting of the utility line will be borne by the applicant agency owing	Yes	
5.9	Undertaking that text of the license deed is as per verbatim of MoRTH format (issued vide Ministry's Circular no. RW/NH-33044/29/2015/S&R(R) dated 22.11.2016	Yes	
5.10	Undertaking that the applicant has obtained various safety clearances from the respective authorities such as Directorate of Electricity, Chief controller of Explosives, Petroleum and Explosive Safety Organization, Oil Industry Safety Directorate, State/Central Pollution Control Board and any other statutory clearances applicable, before applying to Highway Administration.	Yes	1. Authorization From Petroleum & Natural Gas Regulatory Board for development of CGD & Natural Gas Network in West Godavari District geographical area obtained. Copy 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 NHAI at the cost of the agency owning the utility line within a reasonable time (not exceeding 60 days) of the intimation given.	Yes	
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 own cost not with standing the permission granted within such time as will be stipulated by NHAI for future six- lanning or an other development.	Yes	Enclosed
6	Who will sign the agreement on behalf of Gas pipe line agency.	Dy. General Manager(CGM), GGPL	<b>G. ANKAIAH</b> Deputy General Manager (CGM) Godavari Gas Private Limited (A Joint Venture of APGDC & HPCL) RAJAM HENDRAVARAM.
	Power of attorney to sign the agreement on behalf of Gas pipe line agency.	 EXECUTIVE ENGINEER (R&B) N.H. DIVISION, VIJAYAWADA	 SUPERINTENDING ENGINEER (R&B) N.H. CIRCLE, VIJAYAWADA.
7	Certificate from the project Director	Dy. Executive Engineer (R&B) NH Sub-Division, Bhimavaram	

7.1	Certificate that the proposal is confirming to all standards conditions issued vide Ministry's Circular No: RW/NH-33044/29/2015/S&(R) Dated 22.11.2016. <i>Executive Engineer (R&amp;B), NH Division, Vijayawada</i>	Yes	Enclosed
7.2	Certificate from <del>BB</del> in the following format (Yes/No) (i) "It is certified that any other location of the Pipe Line would be extremely difficult and unreasonable costly and the installation of Gas pipe line within ROW will not adversely affect the design, stability & traffic safety of the highway nor the likely future improvement such as widening of the carriageway, easing of curve etc". (ii) for 6 -laning (a) Where feasibility is available "I do certify that there will be no hindrance to proposed six-laning based on the feasibility report considering proposed structures at the said location". (b) In case feasibility report is not available "I do certify that sufficient ROW is available at site for accommodating proposed six-laning".	Yes	Enclosed
8	If NH section proposed to be taken up by NHAI on BOT basis, - a clause is to be inserted in the agreement. "The permitted Highway on which Licensee has been granted the right to lay 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.-man Build, Operate and Transfer Basis] and therefore, the licensee shall honour the same."	NA	
9	Who will supervise the work of laying of gas supply pipe line.		
	(a) On Behalf of Applicant	Dy. General Manager(CGM), GGPL	
	(b) On Behalf of MoRTH/NHAI	Executive Engineer (R&B) , NH Division, Vijayawada	
10	Who will ensure that the defects in road portion after laying of gas Supply pipe line are corrected and if not corrected then what action will be taken.		
	(a) On Behalf of Applicant	Dy. General Manager(CGM), GGPL	
	(b) On Behalf of MoRTH/NHAI	Executive Engineer (R&B) , NH Division, Vijayawada	

**Dy. Executive Engineer (R&B)**  
NH Sub-Division, Bhimavaram

**EXECUTIVE ENGINEER (R&B)**  
N.H. DIVISION, VIJAYAWADA

**Superintending Engineer (R&B)**  
N.H. Circle, Vijayawada

**G. ANH**  
Deputy General Manager (CGM)  
**Godavari Gas Private Limited**  
(A Joint Venture of GPGC & HPCL)  
RAJAMAHENDRAVARAM

11	Who will pay the claims for damages done/disruption in working of Concessionaire if asked by the Concessionaire. <i>Executive Engineer</i>	M/s Godavari Gas Private Limited	
12	A certificate from <del>the</del> that he will enter the proposed permission in the register of records of the permissions in the prescribed proforma (copy enclosed).	Enclosed	M/s GGPL will agree for the same as per requirement of NHAI / MoRTH
13	If any previous approval is accorded for laying of underground Gas Supply Pipe line then Photocopy of register of records of permissions accorded (as maintained by <del>the</del> ) then copy be enclosed.	NA	M/s GGPL will agree for the same as per requirement of NHAI / MoRTH

*M. Sri*  
**Dy. Executive Engineer (R&B)**  
**NH Sub-Division, Bhimavaram.**

*Asst. Engr*  
**EXECUTIVE ENGINEER (R&B)**  
**N.H. DIVISION, VIJAYAWADA**

*G. Ankaiah*  
**G. ANKAIAH**  
**Deputy General Manager (CGM)**  
**Godavari Gas Private Limited**  
**(A Joint Venture of APGDC & HPCL)**  
**RAJAMAHENDRAVARAM.**

*K. S. S. S.*  
**Superintending Engineer (R&B)**  
**N.H. Circle, Vijayawada.**  
*Am*

Grains: "EXPLOSIVES" Nagpur  
Website: <http://explosives.peso.in>  
Email: [explosives@explosives.peso.in](mailto:explosives@explosives.peso.in)

Telephone: 8712-2510248  
FAX: 2510577

All communications intended for this Office should be addressed to the "Chief Controller of Explosives" and NOT to him by name.



GOVERNMENT OF INDIA  
Ministry of Commerce and Industry  
**PETROLEUM AND EXPLOSIVES SAFETY ORGANISATION (PESO)**  
(Formerly Department of Explosives)  
"A" BLOCK, 5<sup>TH</sup> FLOOR, CGO COMPLEX  
Seminary Hills, Nagpur- 440 006

7 SEP 2014

No.P-2 (4) Misc/2013  
Dated: 16.09.2014

To:

M/s. Gail Gas Ltd.,  
13<sup>th</sup>/14<sup>th</sup> Floor,  
GAIL Jubilee Tower,  
B-35-36, Sector-I,  
Noida - 201301 (U.P.).

गैल गैस लिमिटेड / SPEED POST

Sub: NOC/Approval of pipeline - Laying within the Charge area of PNGRB authorised GA - part of CGD (City Gas Distribution) Network.

Dear Sirs,

Please refer to your letter No. GAIL GAS/NDA/CGD/CCOE/5.2/2014 dated 30.09.2014 on the above subject.

It is informed that Natural Gas pipeline of a CGD operator within a city limits need not be treated as cross country pipeline and as such no approval from Chief Controller of Explosives/PESO is required to be obtained.

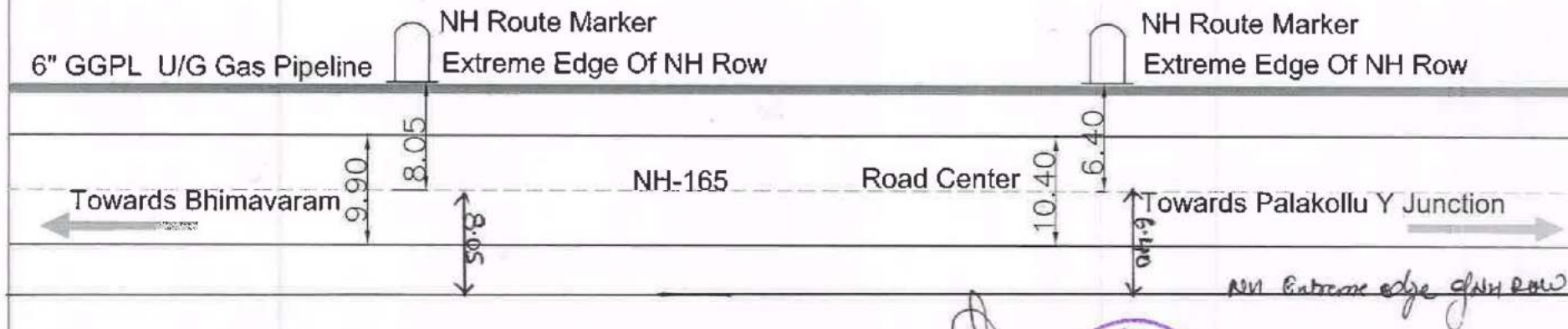
Yours faithfully,

(Ashendra Singh)  
Controller of Explosives  
For Chief Controller of Explosives



ANNEXURE - VI

PRODUCED BY AN AUTODESK STUDENT VERSION



- NH-165
- Road Center
- NH Route Marker
- 6" GGPL U/G Gas Pipeline

EXECUTIVE ENGINEER (R&B)  
N.H. DIVISION, VIJAYAWADA

Dy. Executive Engineer (R&B)  
NH Sub-Division, Bhimavaram

CLIENT	GODAVARI GAS PVT.LTD.		
CONSULTANT	M/s. MECON LTD.		
PROJECT	LAYING AND CONSTRUCTION OF 6" & 4" UNDER GROUND STEEL PIPELINE NETWORK & ASSOCIATED WORKS AT GODHAVARI		
CONTRACTOR	TECHNO GLOBAL SERVICES PVT.LTD.		
TITLE	NH LINE DIAGRAM DRAWING		
SCALE	SIZE	SHEET	DRAWING NO.
AS SHOWN	A4	01 OF 01	GGPL/MEC/TGS/BHIMABHARAM CGD/LNG-01
			REV
			00

Superintending Engineer (R&B)  
N.H. Circle, Vijayawada.

ANNEXURE - VI

# ANNEXURE - VII

## ANNEXURE-I

### Calculation of Licence Fees & Bank Guarantee Amount

Proposal for granting laying permission of 6" CS Pipeline for service of Natural Gas from CH 84.958 KM to CH 103.052 KM along NH-165 road By M/s Godavari Gas Pvt Ltd.

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/Sq.Mtrs. (Rate per Acre/4046.86)	Amount Rs	Remark
1	Gunupudi	84.958	88.5	3542	0.300	1062.6	1754.4467	1864275.018	
2	Srungavruksham	88.5	95.5	7000	0.300	2100	679.5391983	1427032.316	8,76,607
3	Palakole	95.5	102.927	7427	0.300	2228.1	1141.625853	2543656.563	25,43,657
<b>Crossing of NH-165</b>									
4	Palakole	102.927	103.052	125.00	0.300	37.5	1141.6259	42810.96949	42,811
5	Srungavruksham	91.586	-	16	0.300	4.8	679.5391983	3261.788152	32,62
6	Srungavruksham	91.067	-	16	0.300	4.8	679.5391983	3261.788152	
<b>Total</b>								5884298.444	34,66,337
<b>Licence Fees (Rs/Month)</b>							5884298.444	49035.82036	Divided by 10
							10*12		= 3,46,634
<b>Total Licence fees for 5 years (12*5)</b>								2942149.222	for five years
<b>Total Licence fees payable by M/s Godavari Gas Pvt. Ltd. For Laying the Public Utility Services ( for public Utility 33% of industrial Utilities as per point no. 5 of MoRTH guide lines vide letter no RW/NH-33044/29/2015/S&amp;R* Dated 22nd Nov.2016 )</b>								970909.2432	= 17,33,169
<b>Total Amount Payable (Rs)</b>								9,70,909.24	33% = 5,71,946

### Performance Bank Guarantee Amount Calculation

Amount of Performance Bank Guarantee to be submitted = Total length of Utilities in meters \* Rs 100/- per route meter (<=300mm dia/Width)

i.e 18126.00 X 100 1812600.00

Performance Bank Guarantee Amount (Rs)= 18,12,600.00

Dy. Executive Engineer (R&B)  
NH Sub-Division, Bhimavaram

EXECUTIVE ENGINEER (R&B)  
N.H. DIVISION, VIJAYAWADA

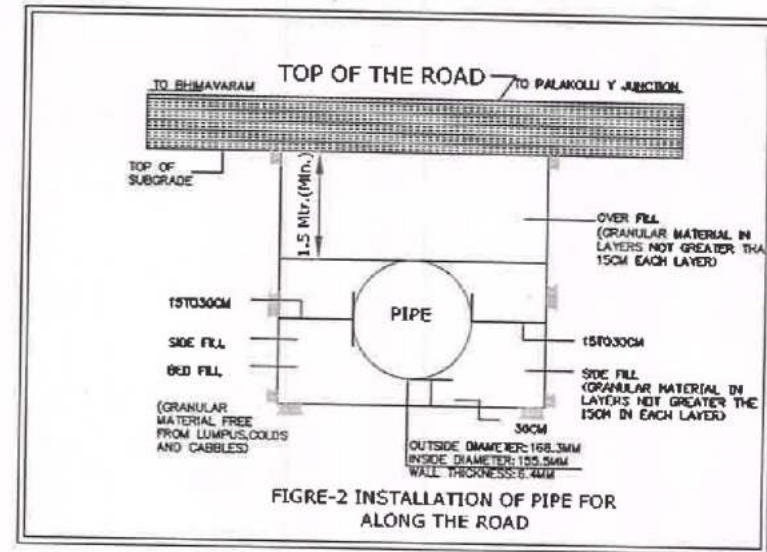
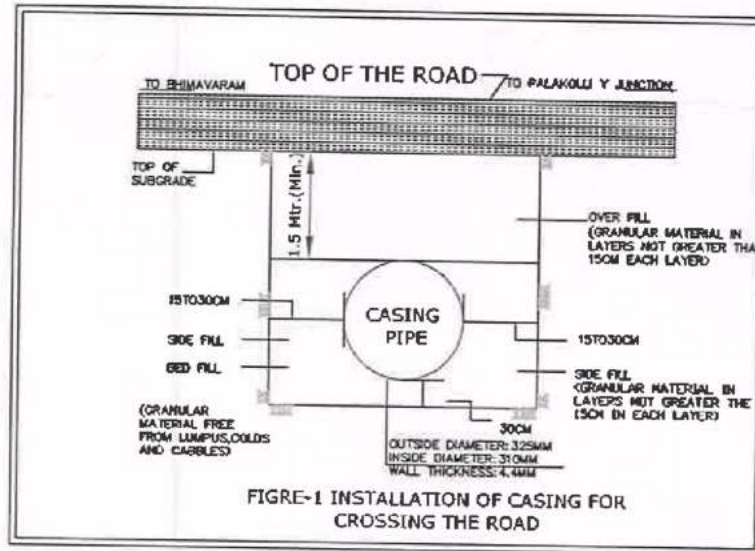
91.2 - 95.5 = 4300m \* 3m 129059m 679.54 8,76,607

25,43,657

Superintending Engineer (R&B)  
N.H. Circle, Vijayawada.



# TYPICAL CROSS SECTIONAL DRAWING



PRODUCED BY AN AUTODESK STUDENT VERSION

PRODUCED BY AN AUTODESK STUDENT VERSION

ANNEXURE - VIII

M. Srinivasan  
Dy. Executive Engineer (R&E)  
NH Sub-Division, Bhimavaram

R. Sankar  
EXECUTIVE ENGINEER (R&E)  
N.H. DIVISION, VIJAYAWADA



CLIENT	GODAVARI GAS PVT.LTD.
PROJECT	LAYING AND CONSTRUCTION OF 6" & 4" UNDER GROUND STEEL PIPELINE NETWORK & ASSOCIATED WORKS AT GODHAVARI
CONSULTANT	M/s. MECON LTD.
CONTRACTOR	TECHNO GLOBAL SERVICES PVT.LTD.
TITLE	NHA1 Permitting Cross Sectional Drawing
NTS A4	GGPL/MEC/TGS/BHIMAVARAM/CQD/NHA1-01

Superintending Engineer (R&E)  
N.H. Circle, Vijayawada.