No. RO/VJA/Misc.24/B/NH-544D/SI.no.104 Government of India Ministry of Road Transport &Highways Regional Office, Vijayawada Door No.41-29-45A, 3rd & 4th floors, MORTH/NHAI Buildings, Ranigarithota,

Near Kanakadurga Varadhi, Krishnalanka, Vijayawada-520013. Tele: 0866-2571985

Dated: 02.06.2022

Invitation of Public Comments

Sub: Proposal for Permission for laying 16" dia. underground multi – product petroleum pipeline along with 40mm dia. HDPE ducts for OFC by M/s. Bharat Petroleum Corporation Limited at Km.348/375 of NH 544D of Kurnool-Narasaraopeta road in the State of 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, AP vide letter dated 04.02.2022 for laying 16" dia. underground multi – product petroleum pipeline along with 40mm dia. HDPE ducts for OFC by M/s. Bharat Petroleum Corporation Limited for crossing at Km.348/375 of NH 544D of Kurnool-Narasaraopeta road in the State of 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 Highway crossing permission along & across National Highways shall be put out in the public domain for 30 days for seeking claims and objections on grounds of public inconvenience, safety and general public interest.

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, Door No.41-29-45A, 3rd & 4th floors, MORTH/NHAI Buildings, Ranigarithota, Near Kanakadurga Varadhi, Krishnalanka, Vijayawada-520013, Email id: <u>romorthvijayawada@gmail.com</u>.

Yours Faithfully,

(Venkatalah M) Assistant Engineer, For Regional Officer, MoRTH, Vijayawada

Copy to:

Encl: As above

- 1) Senior Technical Director, NIC for uploading on the Ministry's website.
- 2) The Chief Engineer(R&B), NH & CRF, AP.
- **3)** M/s Bharat Petroleum Corporation Limited, Krishnapatnam Hyderabad Project, 8-2-618/2, 2nd floor, Reliance Humsafar Building, Road No.11, Banjara hills, Hyderabad 500034.

GOVERNMENT OF ANDHRA PRADESH ROADS AND BUILDINGS DEPARTMENT

1 7

From:

Sri V. Ramachandra, M.Tech, Chief Engineer(R&B) National Highways & CRF, State HoD Offices Building, MG Road, Vijayawada – 520010 The Regional Officer, 2517 MoRT&H, 4th Floor, Near Kanaka Durga Varadhi, Rani Gari Thota, KrishnaLanka, Vijayawada – 520 013.

BECEN

Lr. No. OFC & Ptlm pipeline/NH544D/KM348.375/EENH/DEE1/AEE2/2022,Dt:04.02.2022

Sir,

- Sub: R&B Department National Highways Krishnapatnam Hyderabad pipeline project of M/s Bharat Petroleum Corporation Ltd. – Request for granting Permission for laying of 16" dia. Underground Multi-Product Petroleum pipeline along with 40mm dia. HDPE ducts for OFC across NH544D in Kurnool – Narasaraopet Road @ KM348/375 – Proposals furnished – Permission requested – Reg.
- Ref: 1. Ministry circular no. RW/NH-33044/29/2015/S&R®, dated 22.11.2016
 - RO/MoRT&H/VJA, Ir. no. RO/VJA/Misc24BAccess/Utility/7, dated 13.04.2017.
 - 3. SE/NH/VJA, Ir. No. Road Cutting/Permission/OFC/NH544D/ AEE2/2021, dated 01.01.2022.

Adverting to the subject cited, it is to furnish that M/s Bharat Petroleum Corporation Ltd. have applied for grant of permission for laying 16" dia. Underground Multi-Product Petroleum pipeline along with 40mm dia. HDPE ducts for OFC across NH544D in Kurnool – Narasaraopet Road @ KM348/375.

The license fee and Performance Bank Guarantee fee for the above work are as below:

- License fee Rs.515.00
- Performance Bank Guarantee fee: Rs.11,250.00

Further, the following are herewith furnished:

 The proposal is to lay 16" dia. Underground Multi-Product Petroleum pipeline along with 40mm dia. HDPE ducts for OFC across NH544D in Kurnool – Narasaraopet Road @ KM348/375.

ary.

- Total length of proposal is 0.045KMs across the road.
- There is one road crossing involved.
- The carriageway of the said stretch is 2Lane.
- The existing ROW is 45.00mts.
- The firm has proposed to 16" dia. Underground Multi-Product Petroleum pipeline along with 40mm dia. HDPE ducts for OFC through Horizontal Boring Method at a depth of 2.50Mts. from top of the road and at a depth of 1.50mts. from the top of adjacent natural GL.

The firm has submitted the checklist and all the undertakings required to be submitted for according permission and approval for laying OFC as stipulated vide references 1st and 2nd cited. A copy of the documents submitted by the firm is herewith furnished.

Therefore permission may be accorded for laying 16" dia. Underground Multi-Product Petroleum pipeline along with 40mm dia. HDPE ducts for OFC across NH544D in Kurnool – Narasaraopet Road @ KM348/375 so as to enable them to commence the laying of Optical Fibre Cable.

Encl.: booklets -2nos.

Yours sincerely,

for Chief Engineer (R&B) National Highways & CRF

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

भारत पेट्रोलियम कॉर्परेशन लिमिटेड

(भारत सरकार का उपक्रम) कष्णापट्टनम - हैद्राबाद पाइपलाइन परियोजना

8-2-618/2, दूसरा तल, रिलैयन्स हमसफ़र भवन, रोइ नं 11, बंजारा हिल्स, हैद्राबाद -500 034



Bharat Petroleum Corporation Limited (A Govt. of India Enterprise) **Krishnapatnam - Hyderabad Pipeline Project** 8-2-618/2, 2nd Floor, Reliance Humsafar Building, Road No.11, Banjara Hills, Hyderabad - 500 034.

DT. 27.01.2020

energising lives

BPCL.KHPL.NH.AP.02

Executive Engineer, R&B Department, NH Division, Vijaywada, Andhra Pradesh

ŝ.

Subject

Krishnapatnam – Hyderabad Pipeline Project of M/s Bharat Petroleum Corporation Limited: Request for granting permission for laying of 16 inch Dia underground multi-product petroleum pipeline along with 40 mm dia HDPE ducts for Optical Fiber Cable (OFC) across NH-544D Kurnool - Narasaraopet Road at Ch. 348.375 Km coming under your jurisdiction in the state of Andhra Pradesh.

Sir,

We, **Bharat Petroleum Corporation Limited**, a Govt. of India Enterprise under the aegis of **Ministry of Petroleum & Natural Gas**, are the second largest company in the country effecting the supplies of essential-commodities like MS, HSD and SKO etc. to civilian as well as various Government Agencies. We propose to lay a 450 KMs long cross-country multiproduct pipeline from our under construction Coastal import terminal at Krishnapatnam Port at Nellore in Andhra Pradesh state to our proposed terminal near Madaram Village, Ghatkesar Mandal, Medchal Malkajgiri District in Telangana State. The said pipeline is being laid for transportation of finished petroleum products from our refineries at Mumbai and Kochi. The proposed pipeline shall pass through the districts of Nellore, Prakasam and Guntur of Andhra Pradesh. The approximate length of pipeline in Andhra Pradesh state is 335 KMs.

We wish to inform that Petroleum and Natural Gas Regulatory Board (PNGRB), a regulatory board under MoPNG, has issued Letter of Intent authorizing us to execute the project vide letter no.:PNGRB/Auth/3-PPPL(10)/2019 dated 17-Feb-2020. Copy enclosed as Annexure-1.

The proposed 16" diameter, Carbon steel, API 5L Gr X65, pipeline, along with one OFC cable on both sides of the pipeline, is intended to cross the NH-544D Kurnool - Narasaraopet Road at Ch. 348.375 Km which is under your jurisdiction, in the state of Andhra Pradesh. The pipeline is proposed to be laid at a minimum depth as defined in Oil Industry Safety Directorate [OISD] standards and Petroleum & Natural Gas Regulatory Board [PNGRB] guidelines.

We would like to assure you that all necessary safety precautions will be ensured and followed during the laying of pipeline across and location shall be restored back to its normal position after laying the pipeline.

As you are kindly aware, pipeline transportation of hydrocarbons is not only the safest and the most economically viable alternative for transport of energy thereby reducing strain on public transport systems but also helps curb pollution.

रजिस्टर्ड ऑफिस: भारत भवन, 4 और 6 करीमभॉय रोड़, बेलार्ड इस्टेट, पोस्ट बॉक्स नं. 688, मुंबई-400 001 दूरभाष: 022-22713000, 22714000. फेक्स: 022-22713874

Registered Office: Bharat Bhavan, 4 & 6 Currimbhoy Road, Ballard Estate, P. B. No. 688, Mumbai-400 001. Ph: 022-22713000, 22714000. Fax: 022-22713874



भारत पेट्रोलियम कॉर्पोरेशन लिमिटेड (भारत सरकार का उपक्रम) कृष्णपट्नम – हैदराबाद पाइपलाईन परियोजना



BHARAT PETROLEUM CORPORATION LIMITED. (A Govt. of India Enterprise) KRISHNAPATNAM - HYDERABAD PIPELINE PROJECT

BPCL.KHPL.NH.AP.03

DT. 07.10.2021

Asst. Executive Engineer(R&B), NH Section Narasaraopet, Andhra Pradesh

5

Subject

Krishnapatnam – Hyderabad Pipeline Project of M/s Bharat Petroleum Corporation Limited: Request for granting permission for laying of 16 inch Dia underground multi-product petroleum pipeline along with 40 mm dia HDPE ducts for Optical Fiber Cable (OFC) across NH-544D Ananthapur- Guntur Road at Ch. 348.375 Km coming under your jurisdiction in the state of Andhra Pradesh.

Reference :

1. Our letter No. BPCL.KHPL.NH.AP.02 dated 27.01.2021 2. Your letter No. NH 544D/BPCL/2021 dated 30.09.2021.

Sir,

Reference above, we are submitting Calculation of License fees & performance Bank Guarantee for laying of 16 inch Dia underground multi-product petroleum pipeline along with 40 mm dia HDPE ducts for Optical Fiber Cable (OFC) across NH-544D Ananthapur- Guntur Road at Ch. 348.375 Km in the state of Andhra Pradesh.

Krishnapatnam – Hyderabad Pipeline Project of Bharat Petroleum Corporation Limited is of national importance and is being implemented in a time bound manner. This ambitious project will be monitored closely by the Ministry of Petroleum & Natural Gas in the Govt. of India. Pipeline infrastructure development will also contribute to national prosperity for Socio-economic needs. Therefore, most expeditious actions are requested to kindly accord necessary permission for crossing the Road under your jurisdiction as per the above, on priority to enable BPCL to complete the project as per time schedules.

Thanking you.

Yours faithfully, For BHARAT PETROLEUM CORPORATION LTD.

B. MANOHAR PROJECT LEADER KRISHNAPATNAM – HYDERABAD PIPELINE PROJECT HYDERABAD. Mobile: +91 9849230330 Email: manoharb@bharatpetroleum.in

Enclose: As above

रजिस्टई ऑफिस: भारत भवन, 4 और 6 करीमघॉय रोड़, बेलार्ड इस्टेट, पोस्ट बॉक्स नं. 688, मुंबई-400 001 दूरभाष: 022-22713000, 22714000, फेक्स: 022-22713874 कार्यालय का पता: 264/A, पहला तल ,जीएचवी हाउस (केनरा बैंक के ऊपर) रोड नं. 10. जूबली हिल्स ,हैदराबाद- दूरभाष500 033: 040-29300400,29300500,9849230330

Registered Office: Bharat Bhavan, 4 & 6 Currimbhoy Road, Ballard Estate, P. B. No. 688, Mumbal-400 001. Ph: 022-22713000, 22714000. Fax: 022-22713874 Office Address: 264/A, 1st Floor, GHB House (Above Canara Bank), Road No. 10, Jubilee Hills, Hyderabad – 500 033. Ph: 040-29300400, 29300500,9849230330 Krishnapatnam – Hyderabad Pipeline Project of Bharat Petroleum Corporation Limited is of national importance and is being implemented in a time bound manner. This ambitious project will be monitored closely by the Ministry of Petroleum & Natural Gas in the Govt. of India. Pipeline infrastructure development will also contribute to national prosperity for Socio-economic needs. Therefore, most expeditious actions are requested to kindly accord necessary permission for crossing the NH-544D Kurnool - Narasaraopet Road at Ch. 348.375 Km under your jurisdiction as per the above, on priority to enable BPCL to complete the project as per time schedules. BPCL shall bear the necessary fee / charges as applicable.

Thanking you.

Yours faithfully, For BHARAT PETROLEUM CORPORATION LTD.

PROJECT LEADER Krishnapatnam Hyedrabad Pipeline Project Bharat Petroleum Corporation Limited 8-2 618/2, 2nd Floor, Reliance Homsafar Building, Hino, 11, Banjara Hills, Hyderabad - 500034

B. MANOHAR PROJECT LEADER KRISHNAPATNAM – HYDERABAD PIPELINE PROJECT HYDERABAD.

INSPECTIONREPORT

The proposal of "laying of BPCL mulit-product Petroleum pipelineproposed to lay 16-inchDia Underground Multi-product Petroleum pipelinealong with 40mm HDPE Ducts for Optical Fiber Cable (OFC) at Km 348/4 of Ananthapur – Guntur Section Road of NH-544D to Cross road by Horizontal Boring Method in jurisdiction of (R&B) NH Division, Vijayawada submitted by Bharat Petroleum Corporation Limited and site inspection report is as follows on date: 7.10.2021

The total length of the BPCL Petroleum Pipeline to be laid across the road at Km Km 348/4of NH- 544D by Horizontal Boring Method is 45 Mtr.

The firm has proposed that the BPCL Petroleum pipeline shall be laid through 22 Inch Dia. MS casing by Boring Method at a depth of 2.5 Mts (Minimum) from top of the road and at a depth of 1.50 Mts from top of adjacent natural ground level.

- 1. The ROW of the road varies from 45 Mts in the location
- Restoration of trench should be done by the agency as specified by the Ministry Vide F.No RW/NH-33044/29/2015/S&R(R) Dt: 22-11-2016.
- 3. The agency has submitted under taking for the submission of Performance Bank Guarantee. Indemnity Bond. Certificate foe relocation of pipeline in case 4/6Laning of the road and under taking to comply with the MoRT&H Guidelines.
- 4. The Methodology of laying pipeline and other documents submitted by the agency is attached here with.
- 5. Proposed pipeline shall cross normal to the road.

P C Intok

Assistant Executive Engineer (R&B) N.H. Section : Narasa Eucler

Deputy Executive Engineer (R & 8) M.H. Sub-Division, GUNTUR

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

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

CERTIFICATE

This is to certify that the proposal for laying of 16 inch Dia underground Multi- Product Petroleum pipeline along with 40 mm dia HDPE ducts for Optical Fiber Cable (OFC) in a 22 inch dia casing pipe, across National Highway-544D at chainage Km 348.375 in R&B, NH Division, Vijayawada of Andhra Pradesh state for "Krishnapatnam Hyderabad pipeline project " satisfies all standard conditions as per MoRTH&H Guidelines Vide Letter No. RW/NH-39044/29/2015/S&R (R); Date: 22/Nov/2016.

CP Fulloly

0

Assistant Executive Engineer (R&B) N.H. Section : Narasaraopet

LUN 3/11/201

Deputy Executive Engineer (R & B) N.H. Sub-Division, GUNTUR

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

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

Sinta



पेट्रोलियम एवं प्राकृतिक गैस विनियामक बोर्ड Petroleum and Natural Gas Regulatory Board प्रथम-तल, वर्ल्ड ट्रेड सेंटर, बाबर रोड, नई दिल्ली110001 1st Floor, World Trade Centre, Babar Road, New Delhi – 110001 फैक्स नं/.Fax No. 91 11 23709151; E-mail contact@pngrb.gov.in

Ref: PNGRB/Auth/3-PPPL(10)/2019

Date: 17.02.2020

То

Bharat Petroleum Corporation Limited [Kind Attn.: Shri D Raj Kumar, C&MD] Bharat Bhawan 4 & 6, Currimbhoy Road, Ballard Estate, Mumbai - 400 001 Email: cmd@bharatpetroleum.in

Subject: Letter of Intent for Grant of Authorization of Krishnapatnam -Hyderabad Petroleum & Petroleum Products Pipeline to Bharat Petroleum Corporation Limited (BID/PPL/05/2019/01/KHPL)

Sir,

Kindly refer the bid submitted by the Bharat Petroleum Corporation Limited (BPCL) for the proposed Krishnapatnam - Hyderabad Petroleum & Petroleum Products Pipeline against the Bid No. BID/PPL/05/2019/01/KHPL. After opening of financial bid on 13.12.2019, BPCL has been selected for Grant of Authorization for Krishnapatnam - Hyderabad Petroleum & Petroleum Products Pipeline, as per the extent shown in the map of the application - cum - bid document.

2. You are, therefore, requested to submit the Performance Bond of Rs. 13.77 Crore as per the provisions of Regulation 8 of the PNGRB (Authorizing Entities to Lay, Build, Operate or Expand Petroleum and Petroleum Products Pipelines) Regulations, 2010 within 15 days from the date of this Letter of Intent so that Grant of Authorization in Schedule-D format of the PNGRB (Authorizing Entities to Lay, Build, Operate or Expand Petroleum and Petroleum Products Pipelines) Regulations, 2010 could be issued.

3. Grant of Authorization shall be governed by the provisions of the relevant Regulations, various terms & conditions contained in the 'Application cum Bid document' including the clarifications issued by PNGRB w.r.t. Bid No. BID/PPL/

05/2019/01/KHPL and Schedule-D of the PNGRB (Authorizing Entities to Lay, Build, Operate or Expand Petroleum and Petroleum Products Pipelines) Regulations, 2010.

4. Kindly acknowledge receipt of this letter and arrange to furnish the Performance Bond within the due date.

Yours faithfully (Arvind Kumar) Additional Adviser

	CHECK LIST				
propo	lines for Project Directors/ Divisional Engineer / Executive Engineer for processing the sal for laying petroleum pipeline and OFC in the land National Highway				
Relev	ant circulars :				
1.	1. Ministry circular No. NH-III/P/66/76 dated 18-11-1976				
2.	Ministry circular No. RW-NJ-III/P/66/76 dated 01-05-1982				
3.	Ministry circular No. RW/NH-11037/1/86-DOI(II) dated 28-07-1993				
4.	Ministry circular No. RW/NH-11037/1/86-DOI dated 19-01-1995				
5.	Ministry Circular No.RW/NH-34066/2/95/S&R dated 25-10-1999				
6.	Ministry Circular No.RW/NH-34066/7/2003 S&R (B) dated 17-09-2003				
7.	Ministry Circular No.RW/NH-33044/29/2015/S&R(R) dated 22.11.2016				

Check list for getting approval for laying of Petroleum pipeline With OFC on NH land

S.No.	Item	Information/Status	Remarks
	General Information	Bharat Petroleum Corporation Limited Intends to lay Multi-product petroleum Pipeline with OFC From Krishnapatnam –	
		Hyderabad. This Proposal is for	
1		Permission for laying the pipeline across	
		NH-544D at Ch. 348.375 Km in the State of Andhra Pradesh. The pipeline at this	
		crossing will be laid at a minimum depth	
		of 1.5 Mtr. Below the nature ground label,	
		by Horizontal Boring Method, along with	
	1	40 mm dia HDPE duct for OFC.	
1.1	Name and address of the	Bharat Petroleum Corporation Limited	
	Applicant/Agency	Krishnapatnam – Hyderabad Pipeline	
		Project, 8-2-618/2, 2nd Floor, Reliance	
		Humsafar Building Road No. 11, Banjara	
4.0		Hills, Hyderabad – 500 034	
1.2	National Highway Number	NH-544D	
1.3 1.4	State	Andhra Pradesh	
1.4	Location	Chainage Between KM 348 and 349 KM at	
		Village- Kamepalle	
		Mandal Santhamaguluru, District- Prakasam	
1.5	(Chainage in km)	348.375 Km	
1.6	Length in Meters		
1.7	Width of available ROW		
	(a) Left side from center	NH Crossing	
	line towards		
	increasing	0 21/144	
	chainage/km	EXECUTIVE ENGINEER (R&B)	
-	direction	N.H. DIVISION, VIJAYAWADA	
C	D Can.	0	
_	inlideou	Stister and P	
Assistant Executive Engineer (R&D) NH. Section : Narasaraupet		PROJECT LEADER	
		Krishnapatnam Hyedrabad Pipeline Pro	-
		Dididt Petroleum Cornoration U-in	
	Ultury	Page 1 of 12 0°2°010/2, 2nd Floor, Reliance Humssfar B	utlatu -
	S/IIIM	Road no. 11, Banjara Hills, Hyderabad - 50	0034
511	Deputy Executive Engineer (R & B)	60 July	÷
	N.H. Sub-Division, GUNTUR	Superintending Engineer (R&B)	
		Qi N.H. Circle, Vijayawada.	

[(b) Right side from	NH Crossing
	centre line towards	NH Crossing
	increasing	
	chainage/km	
	direction	
1.8	Proposal to lay underground	
	petroleum pipeline along	Pipeline will be laid across NH at this
	with OFC for supply of	location.
	petroleum products	
	(a) Left side from center	NA
	line towards	
	increasing	
	chainage/km	
	direction	
	(i) Right side from	NA
	centre line towards	
	increasing	
	chainage/km direction	
1.9	Proposal to acquire land	No NH land acquired for pipeline leving
1.0	(a) Left side from center	No NH land acquired for pipeline laying NA
	line	
	(b) Right side from	NA
	center line	
1.10		NA
1.10	Whether proposal is in the same side where land is not	NA
	to be acquired	
	If not then where to lay the	NA
	cable.	
1.11	Details of already laid	
	services, if any along the	
	proposed route	
1.12	Number of existing lanes (2/4/6/8 lanes).	4 2
1,13	Proposed number of lanes	-
	(2 lane with paved	
	shoulders/4/6/8 lanes).	
1.14	Service road existing or not	NO
	If yes then which side	
	(a) Left side from center	NA
	line	
	(b) Right side from	NA
1.15	center line	
1.10	Proposed service road (a) Left side from center	- Goott
	line	21/11/4
	(c) Right side from	EXECUTIVE ENGINEER (R&B)
	center line	N.H. DIVISION, VIJAYAWADA
1.16	Whether proposal to lay the	ΝΔ
	petroleum pipeline is after	artista all
C		Zard
C	12 V Tylioly	PROJECT LEADER
A	ssistant Executive Engineer (R&B)	Cultury Reproduction Hydrabad Pipeline Project
	NH. Section : Narasaracoet	Page 2 of 12 8-2-518/2, 2nd Floor, Reliance Humsafar Building,
/e.	A.95 M.	Page 2 of 12 Realing and Hoor, Kellance Humsafar Building,
	0	M.H. Sub-Division, GUNTUR
		- IIIII
		Superintending Engineer (R&B)
		(2 N.H. Circle, Vijayawada,

 \bigcirc

the service read and main carriage way NA 1.17 Whether carrying of sewage/gas pipeline has been proposed on the methodology proposed for the same. NA 1.18 Whether carrying of sewage/gas pipeline has been proposed on the parapet/ any part of the bridges. NA 1.18 Whether carrying of sewage/gas pipeline has been proposed on the parapet/ any part of the bridges. NA 1.19 Whether carrying of sewage/gas pipeline has been proposed on the parapet/ any part of the bridges. NA 1.19 Whether carrying of sewage/gas pipeline has been proposed on the parapet/ any part of the bridges. NA 1.19 If crossings of the road involved Yes Crossing will be done Horizontal Boring Method 1.19 If crossings of the road involved Yes Crossing will be done Horizontal Boring Method (a) Whether existing drainage structures are allowed to carry petroleum pipeline from the existing structures. Crossings shall not be too near the existing structures on the National Highway, minimum distance being 15 meter. Greater than 15 M (c) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum line shall Carrier pipeline will be laid in a steel casing pipe of 22' dia. Carrier pipeline will be laid in a steel casing pipe of 22' dia. Carrier pipeline will be laid in a steel casing pipe of 12 Mat. DIVSION, VIJATAWADA Mat. DIVSION, VIJATAWADA Metabolica castiron. Page 3 of 12 Metabolica castiron. Page 3 of			
carriage way NA 1.17 Whether carrying of sewage/gas pipeline has been proposed on highway Bridges. NA If yes, then mention the methodology proposed for the same. NA 1.18 Whether carrying of sewage/gas pipeline has been proposed on the parapet/ any part of the bridges. NA 1.19 If crossings of the road involved NA 1.19 If crossings of the road involved Yes Crossing will be done Horizontal Boring Method 1.19 If crossing the road involved to carry agency owing the line No (a) Whether existing drainage structures are allowed to carry petroleum pipeline to the sating structures or crossing shall not be too near the existing structures. No (c) What is the distance of crossing shall not be too near the existing structures or chould pipe in the case of electric cable) carrying the petroleum pipelines from the existing structures on the National Highway, minimum distance being 15 meter. Carrier pipeline will be laid in a steel casing pipe of 22° dia. (c) What is the distance of crossing shall not be too near the existing structures on the National Highway, minimum distance being 15 meter. Carrier pipeline will be laid in a steel casing pipe of 22° dia. (d) The casing pipe(or could tips in the case of electric casif on petroleum ine shall be of steel, cast iron. EVECUTIVE ENCINETER (EAB) Not steel the case of electric casif on petroleum ine shall be of steel cast iron. EVECUTIVE ENCINETER (EAB)		the service road or between	
1.17 Whether carrying of seven proposed on highway Bridges. NA If yes, then mention the methodology proposed for the same. NA 1.18 Whether carrying of seven proposed on the parapet' any part of the bridges. NA 1.18 Whether carrying of seven proposed for the same. NA 1.19 If ress then mention the methodology proposed for the same. NA 1.19 If crossings of the road involved Yes Crossing will be done Horizontal Boring Method 1.19 If crossings of the road involved Yes Crossing will be done Horizontal Boring Method 1.19 If crossings of the road involved Yes Crossing will be done Horizontal Boring Method 1.19 If crossings of the road involved Yes Crossing Wethod 9 If orosings of the road involved to carry petroleum pipelines from the existing structures on the National Highway, minimum distance being 15 meter. Greater than 15 M (c) What is the distance crossing shall not be too near the existing structures on the National Highway, minimum distance being 15 meter. Carrier pipeline will be laid in a steel casing pipe of 22" dia. (d) The casing pipe(or conduit pipe in the casi of electric cashe pipe of 22" dia. All of the steel proteon free throat Periodeum Conduits pipe the petroleum line shall be conduct the steel casing pipe of 22" dia. (e)		12	
sewage/gas pipeline has been proposed on highway Bridges. If yes, then mention the methodology proposed for the same. 1.18 Whether carrying of sewage/gas pipeline has been proposed on the parapet' any part of the bridges. NA 1.19 If crossings of the road involved Yes Crossing will be done Horizontal Boring Method 1.19 If crossings of the road involved the same. Yes Crossing will be done Horizontal Boring Method 1.19 If crossings of the road involved the same. Yes Crossing will be done Horizontal Boring Method 1.19 If crossings of the road involved the same. Yes Crossing will be done Horizontal Boring Method 1.19 If crossings of the road involved the same. Yes Crossing will be done Horizontal Boring Method 1.19 If crossing the line Yes Crossing will be done Horizontal Boring Method (a) Whether existing structures on the science of crossing the petroleum pipeline Yes (b) It is on a line normal to NH Crossing shall not be too near the existing structures on the National Highway, minimum distance being 15 meter. Greater than 15 M (c) What is the distance on the case of electric cable (casi ron, pipeline will be laid in a steel case of electric cable (casi ron, pipeline will be laid in a steel case of electric cable (casi ron, pipeline Will Stance Decord	4 47		A15
been proposed on highway Bridges. If yes, then mention the methodology proposed for the same. NA 1.18 Whether carrying of seven proposed on the parapet' any part of the bridges. If Yes, then mention the methodology proposed for the same. NA 1.19 Whether carrying of seven proposed on the parapet' any part of the bridges. Yes Crossing will be done Horizontal Boring Method 1.19 If crossings of the road involved Yes Crossing will be done Horizontal Boring Method 1.19 If crossings of the road involved Yes Crossing will be done Horizontal Boring Method (1.19 If crossings of the road involved Yes Crossing will be done Horizontal Boring Method (1.19 If crossings of the road involved No (1.19 If crossings of the road involved No (2) Whether existing drainage structures are allowed to carry petroleum pipeline from the existing structures. Crossing shall not be too near the existing structures on the National Highway, minimum distance being 15 meter. Greater than 15 M (4) The casing pipe(or condult pipe in the petroleum line shall be of steel, cast iron, CXECUTIVE ENGINEER (BBB). Carrier pipeline will be laid in a steel casing pipe of 22° dia. M.H. DIVISION, VIANAWADA Metar Petroleum functional floating Page 3 of 12 Mathodia Page 3 of 12 Page 3 of 12 Mathodia Page 3 of 12 Page 3 of 12 </td <td>1.17</td> <td></td> <td>NA</td>	1.17		NA
Bridges. If yes, then mention the methodology proposed for the same. 1.18 Whether carrying of sewage/gas pipeline has been proposed on the parapet/ any part of the bridges. NA 1.19 If Yes, then mention the methodology proposed for the same. NA 1.19 If crossings of the road involved Yes Crossing will be done Horizontal Boring Method 1.19 If crossings of the road involved Yes Crossing will be done Horizontal Boring Method 1.19 If crossings of the road involved Yes Crossing will be done Horizontal Boring Method (1) If yes, it shall be either encased in pipes or through structure or conduits specially built for the purpose at the expenses of the agency owing the line No (a) Whether existing structures on pipeline pipeline No (b) NH Corressing the petroleum pipelines from the existing structures on the National Highway, minimum distance being 15 meter. Greater than 15 M (c) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum line shall be of steel, cast iron. Pit/SION, VUAYAWADA FROUTTIEADER (c) The casing pipe(or conduit pipe in the case of electric cast iron. Pit/SION, VUAYAWADA FROUTTIEADER (c) The casing pipe(or conduit pipe in the case of electric cast iron. Pit/SION, VUAYAWADA FROUTTIEADER (c)			
If yes, then mention the methodology proposed for the same. NA 1.18 Whether carrying of seven proposed on the parapet/ any part of the bridges. NA If Yes, then mention the methodology proposed for the same. Yes Crossing will be done Horizontal Boring Method 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 the purpose at the existing drainage structures are allowed to carry petroleum pipeline No (a) Whether existing drainage structures. No Creater than 15 M (c) What is the distance of crossing the petroleum pipelines from the existing structures. Creater than 15 M (c) What is the distance of corssing the petroleum pipelines from the existing structures on the National Highway, minimum distance being 15 meter. Carrier pipeline will be laid in a steel casing pipe of 22° dia. (d) The casing pipe (or conduit pipe in the case of electric cable) carrying the petroleum line shall be of steel, cast iron, EXECUTIVE ENOINCER (RAB) Page 3 of 12 Assestant Executive Exponence (RAB) Page 3 of 12 Page 3 of 12 Page 3 of 12 Damage Structures (RAB) Page 3 of 12			
Initial constraints Image: Constraints 1.18 Whether carrying of sewage/gas pipeline has been proposed on the parapet/any part of the bridges. NA If Yes, then mention the methodology proposed for the same. NA 1.19 If crossings of the road involved Yes Crossing will be done Horizontal Boring Method 1.19 If crossings of the road involved in pipes or through structure or conduits specially built for the purpose at the expenses of the agency owing the line No (a) Whether existing drainage structures are allowed to carry petroleum pipeline No (b) It is on a line normal to NH Yes Greater than 15 M (c) What is the distance of crossing the petroleum pipelines from the existing structures. Crossing shall not be too near the existing structures on the National Highway, minimum distance being 15 meter. Garrier pipeline will be laid in a steel casing pipe of 22° dia. (d) The casing pipe(or conduit pipe in the existing structures on the National Highway minimum distance being 15 meter. Carrier pipeline will be laid in a steel casing pipe of 22° dia. (d) The casing pipe(or conduit be into the casing pipe of 22° dia. M.H. Division, MAXAWADA And And And And And And And And And An			
1.18 Whether carrying of sewage/gas pipeline has been proposed on the parapet/ any part of the bridges. NA 1.18 Whether carrying of sewage/gas pipeline has been proposed on the bridges. NA 1.19 If crossings of the road involved Yes Crossing will be done Horizontal Boring Method 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 the purpose at the expenses of the agency owing the line Yes (a) Whether existing drainage structures are allowed to carry petroleum pipeline No (b) It is on a line normal to N Yes (c) What is the distance of crossing shall not be too near the existing structures. Crossing shall not be too near the existing structures on the National Highway, minimum distance being 15 meter. Grarier pipeline will be laid in a steel casing pipe of 22° dia. (d) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum line shall be of steel, cast iron, EXECUTIVE ENGINEER (PAS). PROJECT LEADER MA Section : Matastradel What is the distance of the approleum hine shall of the existing structures on the National Highway. Minimum distance being 15 meter. Section : Matastradel (d) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum ince shall be of steel, cast iron, EXECUTIVE ENCINEER (PAS). PROJECT LEADER			
1.18 Whether carrying of sewage/gas pipeline has been proposed on the parapet/ any part of the bridges. NA 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 the purpose at the expenses of the agency owing the line Yes Crossing will be done Horizontal Boring Method (a) Whether existing drainage structures are allowed to carry puetroleum pipeline No (b) It is the distance of crossing the petroleum pipeline from the existing structures. Crossing shall not be too near the existing structures or conduits gravely minum distance being 15 meter. Server than 15 M (c) What is the distance of crossing the petroleum pipeline from the existing structures or conduit pipe in the existing structures or conduit pipe in the NH Carrier pipeline will be laid in a steel casing pipe of 22° dia. (d) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum line shall be of steel, cast iron, RYECUTIVE ENCINPER (PAB) NA W Gifter Labre ROIECT LADR M EVECUTIVE ENCINPER (PAB) ROIECT LADR M ROIECT LADR ROIECT LADR M <td< td=""><td></td><td></td><td></td></td<>			
sewage/gas pipeline has been proposed on the parapet/ any part of the bridges. If Yes, then mention the methodology proposed for the same. Yes Crossing will be done Horizontal Boring Method 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 the purpose at the expenses of the agency owing the line (a) Whether existing drainage structures are allowed to carry petroleum pipeline Yes (b) It is on a line normal to NH No (c) What is the distance of crossing the petroleum pipelines from the existing structures on the National Highway, minimum distance being 15 meter. Greater than 15 M (c) What is the distance of crossing shall not be too near the existing structures on the National Highway, minimum distance being 15 meter. Carrier pipeline will be laid in a steel casing pipe of 22" dia. (c) The casing pipe(or conduit pipe in the petroleum line shall be of steel, cast iron, NH. DIVISION, VIJAYAWADA WH. Section : Matastraost Carrier pipeline will be laid in a steel casing pipe of 22" dia. WH Grid M Mata Structures are a 3 of 12 Recent Executive Englished e 2 6192, 2nd Hook, Stance Homostar Building, Rodine, 11, Banjar Hill, Hordelad Pipetro Project Bana Peroleum Grapaties Linded e 2 6192, 2nd Hook, Stance Homostar Building, Rodine, 11, Banjar Hill, Hordelad Pipetro Finder Bana Peroleum Grapaties Linded e 2 6192, 2nd Hook, Stance Homostar Building, Rodine, 11, Banjar Hill, Hordelad Pipetro Finder Bana Peroleum Copaties Linded e 2 6192, 2nd Hook, Stance Homostar Building, Rodine, 11, Banjar Hill, Hordelad Pipetris Facility, Stance Homostar Building, Rodine, 11, Banjar Hill, H			
been proposed on the parapet/ any part of the bridges. If Yes, then mention the methodology proposed for the same. 1.19 If crossings of the road in pipes or through structure or conduits specially built for the purpose at the expenses of the agency owing the line Yes Crossing will be done Horizontal Boring Method (a) Whether existing drainage structures are allowed to carry petroleum pipeline No (b) It is on a line normal to NH Yes (c) What is the distance of crossing the line of crossing the getroleum pipelines from the existing structures. Crossings shall not be too near the existing structures. Crossings shall not be too near the existing structures. Crossing shall not be too near the existing structures. Crossing shall not be too near the existing structures. Crossing shall not be too near the existing structures. Crossing pipe for 22" dia. (d) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum line shall be of steel, cast inon. EXECUTIVE ENCINCERER (EAS). Carrier pipeline will be laid in a steel casing pipe of 22" dia. Assettine Executive Eng. a. (noo) NHAWMADA Area and the petroleum line shall be of steel, cast inon. EXECUTIVE ENCINCERER (EAS). No. H. DINSION, VIAVAWADA Area and the conder building. Resettine Statuter Eng. a. (noo) NHA Statuter Uncoder Building. No. EXECUTIVE ENCINCER (EAS). Massettine Executive Eng. a. (noo) NHA MARMADA Area and the product Statuter (EAB). Page 3 of 12 Page 3 of 12 Page 3 of 12	1,18		NA
parapet/any part of the bridges. parapet/any part of the bridges. If Yes, then mention the methodology proposed for the same. Yes Crossing will be done Horizontal Boring Method 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 the purpose at the expenses of the agency owing the line Yes Crossing will be done Horizontal Boring Method (a) Whether existing drainage structures are allowed to carry petroleum pipeline No (b) It is on a line normal to NH Yes (c) What is the distance of crossing the petroleum pipelines from the existing structures on the National Highway, minimum distance being 15 meter. Greater than 15 M (c) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum line shall be of steel, cast iron, EXECUTIVE ENGINEER (B.G.) Carrier pipeline will be laid in a steel casing pipe of 22" dia. (d) The casing pipe(or conduit pipe in the case of electric cable) of arrying the petroleum line shall be of steel, cast iron, EXECUTIVE ENGINEER (B.G.) MH.EUNY ENGINEER (B.G.) MALENTRAM Redict Paper Redict Paper Assection Executive Engineer (B.G.) MH.EUNY ENGINEER (B.G.) Redict Paper Male Difference Fried Bage 3 of 12 Superintending Engineer fried Bage 3 of 12 Male Difference Fried Redict Capperature (F.G.) Superintending Engineer (F.G.)			
bridges. If Yes, then mention the methodology proposed for the same. Yes Crossing will be done Horizontal Boring Method 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 the purpose at the expenses of the agency owing the line Yes Crossing will be done Horizontal Boring Method (a) Whether existing drainage structures are allowed to carry petroleum pipeline from the existing structures. Crossings shall not be too near the existing structures on the National Highway, minimum distance being 15 meter. No (c) What is the distance of crossing the petroleum pipelines from the existing structures. Crossings shall not be too near the existing structures on the National Highway, minimum distance being 15 meter. Greater than 15 M (d) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum line shall be of steel, cast iron. NH. Section: Narasaraoot Carrier pipeline will be laid in a steel casing pipe of 22" dia. MH. DIVISION VIATION VIATI			the second se
If Yes, then mention the methodology proposed for the same. 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 the purpose at the expenses of the agency owing the line Yes Crossing Wethod (a) Whether existing drainage structures are allowed to carry petroleum pipeline No (b) It is on a line normal to NH Greater than 15 M (c) What is the distance of crossing the petroleum pipelines from the existing structures. Crossing shall not be too near the existing structures on the National Highway, minimum distance being 15 meter. Greater than 15 M (d) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum line shall be of steel, cast iron. EXECUTIVE ENGINEER (RAB) Carrier pipeline will be laid in a steel casing pipe of 22° dia. (c) What is the cleating shall be of steel, cast iron. EXECUTIVE ENGINEER (RAB) Carrier pipeline will be laid in a steel casing pipe of 22° dia. (d) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum line shall be of steel, cast iron. EXECUTIVE ENGINEER (RAB) Mitheduter formation siniced Based with the distance bear of the state of the st			
methodology proposed for the same. Yes Crossing will be done Horizontal Boring Method 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 the purpose at the expenses of the agency owing the line Yes Crossing will be done Horizontal Boring Method (a) Whether existing drainage structures are allowed to carry petroleum pipeline No (b) It is on a line normal to NH Yes (c) What is the distance of crossing the petroleum pipelines from the existing structures. Crossings shall not be too near the existing structures on the National Highway, minimum distance being 15 meter. Greater than 15 M (d) The casing pipe(or cohe) carrying the petroleum line shall be of steel, cast iron. Carrier pipeline will be laid in a steel casing pipe of 22" dia. WH-Highway, Minimum distance being 15 meter. M.H. DIVISION, VUMAYANDA Methodatan Hydrolad Pipeling Project Cable) carrying the petroleum line shall be of steel, cast iron. M.H. DIVISION, VUMAYANDA Methodatan Hydrolad Pipeling Project Ebitat Petroleum Corporation Linited 8-2-518/2, 2ml Flopen Methodatan Hydrolad Pipeling Project Batat Petroleum Corporation Linited 8-2-518/2, 2ml Flopen Methodatan Hydrolad Pipeling Pipelet Batat Petroleum Corporation Linited 8-2-518/2, 2ml Flopen Corporation Linited 8-2-518/2, 2ml Flopen Corporation Existing 8-2-518/2, 2ml Flopen Corporation Linited 8-2-518/2, 2ml Flopen Corporation			
the same. the same. 1.19 If crossings of the road involved Yes Crossing will be done Horizontal Boring Method If yes, it shall be either encased in pipes or through structure or conduits specially built for the purpose at the expenses of the agency owing the line Boring Method (a) Whether existing drainage structures are allowed to carry petroleum pipeline No (b) It is on a line normal to NH Yes (c) What is the distance of crossing the petroleum pipelines from the existing structures. Crossing shall not be too near the existing structures on the National Highway, minimum distance being 15 meter. Greater than 15 M (d) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum ine shall be of steel, cast iron. Carrier pipeline will be laid in a steel casing pipe of 22' dia. (d) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum line shall be of steel, cast iron. CARRET PAGE (PAGE) (d) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum line shall be of steel, cast iron. CARRET (PAGE) (d) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum Conduct prove the structure of the petroleum Conduct prove the petroleum Conduct provet petroleum Conduct			2
1.19 If crossings of the road involved Yes Crossing will be done Horizontal Boring Method If yes, it shall be either encased in pipes or through structure or conduits specially built for the purpose at the expenses of the agency owing the line No (a) Whether existing drainage structures are allowed to carry petroleum pipeline No (b) It is on a line normal to NH Yes (c) What is the distance of crossing the petroleum pipelines from the existing structures. Crossing shall not be too near the existing structures on the National Highway, minimum distance being 15 meter. Greater than 15 M (d) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum line shall be of steel, cast iron. Carrier pipeline will be laid in a steel casing pipe of 22" dia. WH. Section: Narasaraopet NH. Section: Nar			
involved Boring Method If yes, it shall be either encased in pipes or through structure or conduits specially built for the purpose at the expenses of the agency owing the line No (a) Whether existing drainage structures are allowed to carry petroleum pipeline No (b) It is on a line normal to NH Yes (c) What is the distance of crossing the petroleum pipelines from the existing structures. Crossings shall not be too near the existing structures on the National Highway, minimum distance being 15 meter. Greater than 15 M (d) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum ine shall be of steel, cast iron. NH. Section: Narasaraopet NH.	4.40		
If yes, it shall be either encased in pipes or through structure or conduits specially built for the purpose at the expenses of the agency owing the line No (a) Whether existing drainage structures are allowed to carry petroleum pipeline No (b) It is on a line normal to NH Yes (c) What is the distance of crossing the petroleum pipelines from the existing structures. Crossings shall not be too near the existing structures on the National Highway, minimum distance being 15 meter. Greater than 15 M (d) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum line shall be of steel, cast iron. Carrier pipeline will be laid in a steel casing pipe of 22" dia. WH. Section: Narasaraoet NH. Section: Narasaraoet NA. DIVISION, VIJAYWADA MARCHARDAR Project Ebrard Petroleum Conduits functions. United Page 3 of 12	1.19		
encased in pipes or through structure or conduits specially built for the purpose at the expenses of the agency owing the line No (a) Whether existing drainage structures are allowed to carry petroleum pipeline No (b) It is on a line normal to NH Yes (c) What is the distance of crossing the petroleum pipelines from the existing structures. Crossings shall not be too near the existing structures on the National Highway, minimum distance being 15 meter. Greater than 15 M (d) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum line shall be of steel, cast iron, NH. Setcion : Narasaraotet Carrier pipeline will be laid in a steel casing pipe of 22" dia. WH Gruby NH. Setcion : Narasaraotet N.B. DIVISION, VUMYWADA AGAAA Bactant Executive Engeneric (R&B) New Setcion : Narasaraotet Page 3 of 12 Page 3 of 12 Regioner (R&B)			Boring Method
structure or conduits specially built for the expenses of the agency owing the line (a) Whether existing drainage structures are allowed to carry petroleum pipeline (b) It is on a line normal to NH (c) What is the distance of crossing the petroleum pipelines from the existing structures. Crossing shall not be too near the existing structures on the National Highway, minimum distance being 15 meter. (d) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum line shall be of steel, cast iron, EXECUTIVE ENCINEER (RAB) CM Film M Assistant Executive Engeneric (RAB) Not Section : Narasaraoot Page 3 of 12			
specially built for the purpose at the expenses of the agency owing the line No (a) Whether existing drainage structures are allowed to carry petroleum pipeline No (b) It is on a line normal to NH Yes (c) What is the distance of crossing the petroleum pipelines from the existing structures. Crossings shall not be too near the existing structures on the National Highway, minimum distance being 15 meter. Greater than 15 M (d) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum line shall be of steel, cast iron, EXECUTIVE ENCINEER (BAB) Carrier pipeline will be laid in a steel casing pipe of 22" dia. Modeline English and the petroleum line shall be of steel, cast iron, EXECUTIVE ENCINEER (BAB) NH. DIVISION, VIAXWADA ROUET FROFT Bage 3 of 12 Mathematic English and the petroleum Corporation English Superintending Englisher Project Dataset Petroleum Corporation English Superintending Englisher (BAB)			
purpose at the expenses of the agency owing the line No (a) Whether existing drainage structures are allowed to carry petroleum pipeline No (b) It is on a line normal to NH Yes (c) What is the distance of crossing the petroleum pipelines from the existing structures. Greater than 15 M (c) What is the distance of crossing shall not be too near the existing structures on the National Highway, minimum distance being 15 meter. Greater than 15 M (d) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum line shall be of steel, cast iron, EXECUTIVE ENGINEER (BAB) Carrier pipeline will be laid in a steel casing pipe of 22" dia. MH. DIVISION, VIJAYAWADA PROFECT (FADER Krishnopathan Hydrobad Pipeline Project Ehrant Petroleum Corporations Einited 8-2-613/2, 2nd Floor, Reliance Homedar Building, Rood no. 11, Banjara Hills, Bydry abad - 500034			
the agency owing the line Image structures (a) Whether existing No (a) Whether existing No (b) It is on a line normal Yes (c) What is the distance of crossing the petroleum pipelines Greater than 15 M (c) What is the distance of crossing shall not be too near the existing structures on the National Greater than 15 M (d) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum line shall be of steel, cast iron, EXECUTIVE ENCINEER (FAS) Carrier pipeline will be laid in a steel casing pipe of 22" dia. (d) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum line shall be of steel, cast iron, EXECUTIVE ENCINEER (FAS) M.H. DIVISION, VIJAYAWADA Massetant Executive Engancer (R AS) Mediater Project Page 3 of 12 Page 3 of 12 Page 3 of 12 Paging a fills, Medical Placer (R&B)			
(a) Whether existing drainage structures are allowed to carry petroleum pipeline No (b) It is on a line normal to NH Yes (c) What is the distance of crossing the petroleum pipelines from the existing structures. Crossings shall not be too near the existing structures on the National Highway, minimum distance being 15 meter. Greater than 15 M (d) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum line shall be of steel, cast iron, EXECUTIVE ENGINEER (RAS) Carrier pipeline will be laid in a steel casing pipe of 22" dia. Chefter of steel, cast iron, EXECUTIVE ENGINEER (RAS) N.H. DIVISION, VIJAYAWADA Assetant Executive Enget as troop NH. Section : Narasarapoet Page 3 of 12 Page 3 of 12 Page 3 of 12			
drainage structures are allowed to carry petroleum pipeline Yes (b) It is on a line normal to NH Yes (c) What is the distance of crossing the petroleum pipelines from the existing structures. Crossings shall not be too near the existing structures on the National Highway, minimum distance being 15 meter. Greater than 15 M (d) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum line shall be of steel, cast iron, EXECUTIVE ENGINEER (RAB) Carrier pipeline will be laid in a steel casing pipe of 22" dia. Charter Pipeline will be laid in a steel casing pipe of 22" dia. Carrier pipeline will be laid in a steel casing pipe of 22" dia. Mathematical Problem Project NH. Section : Narasarapoet N.H. DIVISION, VIJAYAWADA Page 3 of 12 Page 3 of 12 Proventy Economic Explorer (R&B) Superintending Engineer (R&B)			No
are allowed to carry petroleum pipeline (b) It is on a line normal to NH (c) What is the distance of crossing the petroleum pipelines from the existing structures. Crossings shall not be too near the existing structures on the National Highway, minimum distance being 15 meter. Greater than 15 M (d) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum line shall be of steel, cast iron, EXECUTIVE ENGINEER (RAS). Carrier pipeline will be laid in a steel casing pipe of 22° dia. (d) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum line shall be of steel, cast iron, EXECUTIVE ENGINEER (RAS). M.H. DIVISION, VIJAYAWADA M.H. DIVISION, VIJAYAWADA PROFECT LEADER M.H. DIVISION, VIJAYAWADA Page 3 of 12 Page 3 of 12 Page 3 of 12 Upsynety Encounting Engineer (R&B) Superintending Engineer (R&B)			
petroleum pipeline (b) It is on a line normal to NH (c) What is the distance of crossing the petroleum pipelines from the existing structures. Greater than 15 M Crossings shall not be too near the existing structures on the National Highway, minimum distance being 15 meter. Greater than 15 M (d) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum line shall be of steel, cast iron, EXECUTIVE ENCINEER (RAB) Carrier pipeline will be laid in a steel casing pipe of 22" dia. WH Funda N.H. DIVISION, VIJAYAWADA PROJECT LEADER Kristmapatnam Hydrabad Pipeline Project Ebrart Petroleum Corporation Engineer Page 3 of 12 Page 3 of 12 Page 3 of 12 Upsympty Encoder Engineer (R&B) Superintending Engineer (R&B)			
(b) It is on a line normal to NH Yes (c) What is the distance of crossing the petroleum pipelines from the existing structures. Crossings shall not be too near the existing structures on the National Highway, minimum distance being 15 meter. Greater than 15 M (d) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum line shall be of steel, cast iron, EXECUTIVE ENGINEER (RAB) Carrier pipeline will be laid in a steel casing pipe of 22" dia. (d) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum line shall be of steel, cast iron, EXECUTIVE ENGINEER (RAB) Carrier pipeline will be laid in a steel casing pipe of 22" dia. (A. The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum line shall be of steel, cast iron, EXECUTIVE ENGINEER (RAB) PROJECT (FADER Krishnapatnam Hyedrabad Pipeline Project Ebarat Petroleum Corporation Limited B-2 619/2, 2nd Hoor, Reliance Humafar Building, Rod no. 11, Banjara Hills, Hydrabad- 500034 (browned Ebaction Ebarator (RAB) Superintending Engineer (RAB)			
to NH (c) What is the distance of crossing the petroleum pipelines from the existing structures. Crossings shall not be too near the existing structures on the National Highway, minimum distance being 15 meter. Greater than 15 M (d) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum line shall be of steel, cast iron, EXECUTIVE ENGINEER (BAB) Carrier pipeline will be laid in a steel casing pipe of 22" dia. What is the distance of crossing shall not be too near the existing structures on the National Highway, minimum distance being 15 meter. Carrier pipeline will be laid in a steel casing pipe of 22" dia. (d) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum line shall be of steel, cast iron, EXECUTIVE ENGINEER (BAB) Carrier pipeline will be laid in a steel casing pipe of 22" dia. What is the distance existing structures on the National be of steel, cast iron, EXECUTIVE ENGINEER (BAB) Carrier pipeline will be laid in a steel casing pipe of 22" dia. What is the distance case of electric cable) carrying the petroleum line shall be of steel, cast iron, EXECUTIVE ENGINEER (BAB) Recent the steel bharat Petroleum Corporation timited bharat Petroleum Corporation timited bharat Allis, Huterobad - 50034 March Dispense Project Bharat Petroleum Corporation timited bharat petr			Yes
(c) What is the distance of crossing the petroleum pipelines from the existing structures. Crossings shall not be too near the existing structures on the National Highway, minimum distance being 15 meter. Greater than 15 M (d) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum line shall be of steel, cast iron, EXECUTIVE ENGINEER (RAG) Carrier pipeline will be laid in a steel casing pipe of 22" dia. (d) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum line shall be of steel, cast iron, EXECUTIVE ENGINEER (RAG) Carrier pipeline will be laid in a steel casing pipe of 22" dia. (d) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum line shall be of steel, cast iron, EXECUTIVE ENGINEER (RAG) Carrier pipeline will be laid in a steel casing pipe of 22" dia. (d) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum line shall be of steel, cast iron, EXECUTIVE ENGINEER (RAG) N.H. DIVISION, VIJAYAWADA (d) Figure Project Shara Petroleum Corporation timited Barat Petroleum Corporation timited Barat Pe			
petroleum pipelines from the existing structures. Crossings shall not be too near the existing structures on the National Highway, minimum distance being 15 meter. Carrier pipeline will be laid in a steel casing pipe of 22" dia. (d) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum line shall be of steel, cast iron, EXECUTIVE ENCINEER (R&B) Carrier pipeline will be laid in a steel casing pipe of 22" dia. WH. Section : Narasarapoet N.H. DIVISION, VIJAYAWADA PROJECT IFADER Kristnapatnam Hyderabad Pipeine Project Eharat Petroleum Corporation itnited Page 3 of 12 Page 3 of 12 Page 3 of 12 Despendy Exponent (R & B) Superintending Engineer (R&B)		(c) What is the distance	Greater than 15 M
petroleum pipelines from the existing structures. Crossings shall not be too near the existing structures on the National Highway, minimum distance being 15 meter. Carrier pipeline will be laid in a steel casing pipe of 22" dia. (d) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum line shall be of steel, cast iron, EXECUTIVE ENCINEER (R&B) Carrier pipeline will be laid in a steel casing pipe of 22" dia. WH. Section : Narasarapoet N.H. DIVISION, VIJAYAWADA PROJECT IFADER Kristnapatnam Hyderabad Pipeine Project Eharat Petroleum Corporation itnited Page 3 of 12 Page 3 of 12 Page 3 of 12 Despendy Exponent (R & B) Superintending Engineer (R&B)		of crossing the	
from the existing structures. Crossings shall not be too near the existing structures on the National Highway, minimum distance being 15 meter. Carrier pipeline will be laid in a steel casing pipe of 22" dia. (d) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum line shall be of steel, cast iron, EXECUTIVE ENCINEER (RAB) Carrier pipeline will be laid in a steel casing pipe of 22" dia. WH. Section : Narasaraopet N.H. DIVISION, VIJAYAWADA PROJECT IFADER Krishnapanam Hyedrabad Pipeine Project Eharat Petroleum Corporation Limited 8-2-618/2, 2nd Floor, Reliance Humsafar Building, Road no. 11, Banjara Hills, Huderabad - 500034		petroleum pipelines	
Crossings shall not be too near the existing structures on the National Highway, minimum distance being 15 meter. Carrier pipeline will be laid in a steel casing pipe of 22" dia. (d) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum line shall be of steel, cast iron, EXECUTIVE ENGINEER (R&R) Carrier pipeline will be laid in a steel casing pipe of 22" dia. WH. Division, VIJAYAWADA PROJECT LEADER Krishnapatham Hydrabad Pipeline Project Bharat Petroleum Corporation Linited M.H. Division, VIJAYAWADA Project English Project Bharat Petroleum Corporation Linited M.H. Division, VIJAYAWADA Project EADER Krishnapatham Hydrabad Pipeline Project Bharat Petroleum Corporation Linited Market Division Page 3 of 12 Market Division Page 3 of 12 Disputer Encounting Engineer (R&B) Superintending Engineer (R&B)			
be too near the existing structures on Highway, minimum distance being 15 meter. (d) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum line shall be of steel, cast iron, EXECUTIVE ENGINEER (R&B) N.H. DIVISION, VIJAYAWADA Assistant Executive Engage at (rocc) N.H. Section : Narasaraopet Page 3 of 12 Page 3 of 12 Baran Hills, hyderabad - 500034		-	
existing structures on the National Highway, minimum distance being 15 meter. Carrier pipeline will be laid in a steel casing pipe of 22" dia. (d) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum line shall be of steel, cast iron, EXECUTIVE ENGINEER (RAB) Carrier pipeline will be laid in a steel casing pipe of 22" dia. WH. Section : Narasaraopet M.H. DIVISION, VIJAYAWADA PROJECT IFADER Krishnapatnam Hyedrabad Pipeline Project Eharat Petroleum Corporation Limited MH. Section : Narasaraopet Page 3 of 12 Road no. 11, Banjara Hills, Hyderabad - 500034 Magnetic Englished (R&B) Superintending Engineer (R&B)		Crossings shall not	
the National Highway, minimum Highway, minimum distance being 15 meter. (d) The casing pipe(or conduit pipe in the Carrier pipeline will be laid in a steel case of electric casing pipe of 22" dia. cable) carrying the Detroleum line shall be of steel, cast iron, EXECUTIVE ENGINEER (R&B) M.H. DIVISION, VIJAYAWADA M.H. DIVISION, VIJAYAWADA Warding Page 3 of 12		be too near the	
Highway, minimum distance being 15 meter. (d) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum line shall be of steel, cast iron, EXECUTIVE ENCINEER (BAB) M.H. DIVISION, VIJAYAWADA M.H. DIVISION, VIJAYAWADA Page 3 of 12 Page 3 of 12 Page 3 of 12 Page 3 of 12 Despective Encoder (R&B) Despective Encoder (R&B)		existing structures on	
distance being 15 meter. (d) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum line shall be of steel, cast iron, EXECUTIVE ENGINEER (R&B) Charter pipeline will be laid in a steel casing pipe of 22" dia. Charter pipeline will be laid in a steel casing pipe of 22" dia. Charter pipeline will be laid in a steel casing pipe of 22" dia. Charter pipeline will be laid in a steel casing pipe of 22" dia. Charter pipeline will be laid in a steel casing pipe of 22" dia. Charter pipeline will be laid in a steel casing pipe of 22" dia. Charter pipeline will be laid in a steel casing pipe of 22" dia. Charter pipeline will be laid in a steel casing pipe of 22" dia. Charter pipeline will be laid in a steel casing pipe of 22" dia. Charter pipeline will be laid in a steel casing pipe of 22" dia. Charter pipeline will be laid in a steel casing pipe of 22" dia. Charter pipeline will be laid in a steel casing pipe of 22" dia. Charter pipeline will be laid in a steel casing pipe of 22" dia. Charter pipeline will be laid in a steel casing pipe of 22" dia. Charter pipeline will be laid in a steel casing pipe of 22" dia. Charter pipeline will be laid in a steel casing pipe of 22" dia. Charter pipeline will be laid in a steel casing pipe of 22" dia. Charter pipeline will be laid in a steel casing pipe of 22" dia.			
meter. (d) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum line shall be of steel, cast iron, EXECUTIVE ENGINEER (R&R) Carrier pipeline will be laid in a steel casing pipe of 22" dia. Charter pipeline will be laid in a steel casing pipe of 22" dia. Carrier pipeline will be laid in a steel casing pipe of 22" dia. Charter pipeline will be laid in a steel casing pipe of 22" dia. Carrier pipeline will be laid in a steel casing pipe of 22" dia. Charter pipeline will be laid in a steel casing pipe of 22" dia. Carrier pipeline will be laid in a steel casing pipe of 22" dia. Charter pipeline will be laid in a steel casing pipe of 22" dia. Carrier pipeline will be laid in a steel casing pipe of 22" dia. Charter pipeline will be laid in a steel casing pipe of 22" dia. Carrier pipeline will be laid in a steel casing pipe of 22" dia. Charter pipeline will be laid in a steel casing pipe of 22" dia. Carrier pipeline will be laid in a steel casing pipe of 22" dia. Charter pipeline will be laid in a steel casing pipe of 22" dia. Carrier pipeline will be laid in a steel casing pipe of 22" dia. Charter pipeline will be laid in a steel casing pipe of 22" dia. Carrier pipeline will be laid in a steel casing pipe of 22" dia. Charter pipeline will be laid in a steel casing pipe of steel, cast iron, EXECUTIVE ENGINEER (R&B) Charter pipeline will be laid in a steel casing pipe of 22" dia. NH. Division, Vijayawada engeline project Bharat Petroleum Corporatio		Highway, minimum	
(d) The casing pipe(or conduit pipe in the case of electric cable) carrying the petroleum line shall be of steel, cast iron, EXECUTIVE ENGINEER (RAR) Carrier pipeline will be laid in a steel casing pipe of 22" dia. \mathcal{M}		distance being 15	
conduit pipe in the case of electric cable) carrying the petroleum line shall be of steel, cast iron, EXECUTIVE ENGINEER (RAB) CD-GTISTY MH. Section : Narasaraopet MH. Section : Narasaraopet Page 3 of 12 Page 3 of 12 Superintending Engineer (R&B) Desputy Executive Engineer (R&B) Desputy Executive Engineer (R&B)			
case of electric cable) carrying the petroleum line shall be of steel, cast iron, EXECUTIVE ENGINEER (RAB) CD Guide M.H. DIVISION, VIJAYAWADA Assistant Executive Englisher an (rooc) N.H. Section : Narasaraopet Page 3 of 12 Page 3 of 12 Page 3 of 12 Despute Englisher Englisher (R&B)			
cable) carrying the petroleum line shall be of steel, cast iron, EXECUTIVE ENGINEER (RAB) CP Guider N.H. DIVISION, VIJAYAWADA Assistant Executive Englisher (NGC) M.H. DIVISION, VIJAYAWADA MH. Section : Narasaraopet Page 3 of 12 Page 3 of 12 Barat Petroleum Corporation Limited Borputive Englisher (RAB) Buperintending Engineer (RAB)		· ·	casing pipe of 22" dia.
petroleum line shall be of steel, cast iron, EXECUTIVE ENGINEER (R&B) CD-Galody N.H. DIVISION, VIJAYAWADA Assistant Executive Englisher (node) NH. Section : Narasaraopet Page 3 of 12 Desputy Englisher (R & B) Desputy Englisher (R & B)			
be of steel, cast iron, EXECUTIVE ENGINEER (BAB) CP Gilloly Assistant Executive Engineer (RGC) NH. Section : Narasaraopet Page 3 of 12 Desputy Executive Engineer (RGB) NH. Section : Narasaraopet Desputy Executive Engineer (RGB) Desputy Executive Engineer (RGB)			21/144
CP Guidy N.H. DIVISION, VIJAYAWADA Assistant Executive Engacina (1966) SuftAn NH. Section : Narasaraopet Page 3 of 12 Page 3 of 12 Solution: Reliance Humsafar Building, Road no. 11, Banjara Hills, Hyderabad - 500034 Desputive Encounting Engineer (R&B) Superintending Engineer (R&B)			
Assistant Executive Engineer (NGC) NH. Section : Narasaraopet Page 3 of 12 Desputy Europerform Exercise (R & B) Desputy Europerform Exercise (R & B) Page 3 of 12 Page 3 of 12		De of steel, cast iron, E	
Assistant Executive Engandian (1900) NH. Section : Narasaraopet Page 3 of 12 Desputy Executive Engineer (R&B) Desputy Executive Engineer (R&B)		CP Fuller	
Assistant Executive Engineer (NGC) NH. Section : Narasaraopet Page 3 of 12 Desputy Executive Engineer (R & B) Mage 3 of 12 NH. Section : Narasaraopet Page 3 of 12 NH. Section : Narasaraopet NH. Section : Narasaraopet Page 3 of 12 NH. Section : Narasaraopet Page 3 of 12 NH. Section : Narasaraopet Page 3 of 12 NH. Section : Narasaraopet Superintending Engineer (R&B)			
Page 3 of 12 Page 3 of 12 8-2-618/2, 2nd Floor, Reliance Humsafar Building, Road no. 11, Banjara Hills, Hyderabad - 500034 Superintending Engineer (R&B)			Krishnapatnam Hyedrabad Pipeline Project
10 sponty Exception (R & B) Note point (R & B) Note point (R & B) Note point (R & B)		NH. Section : Narasaraopet	Bharat Petroleum Corporation Limited
Deputy Executive Explanar (R & B) Superintending Engineer (R&B)	ŝ		Page 3 of 12 8-2-618/2, 2nd Floor, Reliance Humsafar Building,
		Curry Juny	Add Ho. 11, Banjara Hills, Hyderabad - 500034
		100 putry Exception Fundance (10 B	in the
		M.N. Bub-Division, GUNTUR,	Superintending Engineer (R&B)

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. (e) Ends of casing	Yes
/conduit pipe shall be	
sealed from the outside, so that it	
does not act as a	
 drainage path. (f) The casing/conduit	Yes
pipe should, as	163
minimum extend from drain to drain in	
cuts and toe of slope	
 in the fills. (g) The top of the	Yes
casing/conduit pipe	
should be at least 1.2 meters below the	
surface of the road	
subject to being at least 0.3 m below the	
drain inverts.	
Mention the proposed details.	
(h) Mention the	Crossing shall be done Horizontal boring
methodology proposed for	Method
crossings of road for	
the proposed Sewage/gas pipe	
line.	
Crossings shall be by boring	
method(Trenchless Technology),	
specially, where the	
existing road pavement is of	(2) 21/1/M
cement concrete or	
dense bituminous concrete type.	EXECUTIVE ENGINEER (RAT
(i) The casing/conduit	Yes Or M
pipe shall be	Jelin lp
at rivioly	DOURCELEADY
Assistant Executive Engineer (R&B)	PROJECT LEADER Krishnapatnam Hyedrabad Pipeline Project
N.H. Section : Narasaraopet	Bharat Petroleum Corporation Limited Page 4 of 12 8-2-618/2, 2nd Floor, Reliance Humsafar Building,
Clean 1200	Road no. 11, Banjara Hills, Hyderahad - 500034
Deputy Executive Engineer (R &	1) E Sitte
N.H. Sub-Division, GUNTUR	
	A FLOOR A AND A REAL FLOOR FROM A POST OF A

 \bigcirc

 \bigcirc

		installed with an			
	1	even bearing			
		throughout its length			
_		and in such a	1		
		manner as to prevent			
		the formation of a			
	2	waterway along it. Document/Drawings to be	Yes		
	4	enclosed with the proposal	res		
	2.1	Cross section showing the	Not applicab		
		size of trench for open			
		trenching method			
		(Is it normal size of 1.2m			
		deep *0.3m wide)			
		i. Should not be			
		greater than 60cm			
		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 15m from the			
		center lines of the			
		nearest carriageway			
		iii. Shall not be			
		permitted to run			
		along the National			
		Highways when the			
		road formation is			
		situated in double cutting. Nor shall be			
		laid over the existing			
		culverts and bridges.			
		iv. These should be so			
		laid that their top is			
		least 0.6m below the			
		ground level so as			
		not to obstruct			
		drainage of the road			
		land.			
	2.2	Cross section showing the	Attached		
		size of pit and location of			
		cable for Cased Crossing method			-
	2.3	Strip plan/Route plan	Incorporated	in the Drawing	
	2.0	showing the petroleum/Gas	moorporated	In the Drawing	И
		pipe line, chainage, width of			0 D 1
		ROW, distance of proposed			&B)
		pipe line from the edge of		N.H. DIVISION, VIJAYAWAD	A
		co fe		Saluf D	
		14/10/4		Carrot	
		2 CONTRACTOR N		PROJECT LEADER	
		Assistant Executive Engineer (R&B) N.H. Section : Narasaraopet		Krishnapatnam Hyedrabad Pipeline Project	
	X.	A A A A A A A A A A A A A A A A A A A	Page 5 of 12	Bharat Petroleum Corporation Limited	
		Velun		8-2-618/2, 2nd Floor, Reliance Humsafar Building, Road no. 14, Banjara Hills, Hyderabad - 500014	
		3/1/1 4-1		The The State Stat	
		Beputy Executive Engineer (R.A.)	31	Superintending Engineer (R&B)	
		M.H. Ratio-Derivition, GUNT(3)	94 - C	And at the Closele Milenawada	

Ō

	ROW, important mile stone, intersections, cross drainage		
	works etc.		
2.4	Methodology for laying of	Crossing will be done Horizontal boring	
244	the petroleum pipe line.	Method -detailed procedure attached	
2.4.1	Open trenching method. (may be allowed in the petroleum corridor only where pavement is neither cement concrete nor dense bituminous concrete type. If yes, what is the methodology of refilling of trench.	Horizontal boring Method	
	(a) The trench width	YES Agreed	
	should be at least 30cm, but not more than 60 cm wider than the outer diameter of the pipe.		
	(b) For filling of the	NA	
	trench, bedding shall be at a depth of not less than 30cm. it shall consist of granular material, free of lumps, clods and cobbles and graded to yield a firm surface without a sudden change in the bearing value. Unsuitable soil and rock edged should be excavated and replaced by selected material.		
	 (c) The backfill shall be completed in two stages (i) side fill to level of the top of the pipe and (ii) overfill to the bottom of the road crust. 	NA	
	(d) The side fill shall	NA	
	consist of granular material laid in15cm layers each consolidated by mechanical	EXECUTIVE ENGINEER (R&E: N.H. DIVISION, VIJAYAWADA	
L	CD Can	Stuly Do	
Ĵ.	Assistant Executive Engineer (R&B) NH. Section : Narasaraopet	PROJECT LEADER Krishnapatnam Hyedrabad Pipeline Project Bharat Petroleum Corporation Limited 8-2-618/2, 2nd Floor, Reliance Humsafar Building, Rozono. 11, Banjara Hills, Hyderaba	
	· · · · · · · · · · · · · · · · · · ·	6 Tilu	
	Beputy Executive Engineer (R N.H. Sub-Division, GUNTU	Superintending Engineer (R&B)	

 \bigcirc

r		
	tempering and	
	controlled addition of	
	moisture to 95% of	
-	the proctor's density.	
	Overfill shall be	
	compacted to the	
	same density as the	
	material that has	
	been removed.	
	Consolidation by	
	saturation or ponding	
	will not be permitted	
	(e) The road crust shall	NA
	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.	
	(f) The excavation shall	NA
	be protected by flagman, signs and	
	barricades, and red	
	lights during night	
	hours.	
	(g) If required, a	NA
	diversion shall be	
	constructed at the	
	expense of agency	
	owing the petroleum	
	line.	
2.4.2	Horizontal directional drilling	Horizontal boring Method
	(HDD) method.	
2.4.3	Methodology for laying of	NA
	pipe line through CD works	
	and method of laying. In	
	cases where the carrying of	
	gas pipe line on the bridge	
2	becomes inescapable.	
3	Draft license Agreement is	Yes, Enclosed
3.1	signed by two witnesses The license fee estimate as	
3.1		Enclosed
	per Ministry's guidelines issued vide circular no.	Q 21/14
	RW/NH-	EXECUTIVE ENGINEER (R&B
	33044/29/2015/S&R(R)	Q N.H. DIVISION, VIJAYAWADA
	dated 22.11.2016	atura
4	Whether performance Bank	Bharat Petroleum Corporation Limited Will An
	- C	
(CP Siglion	a of
	Assistant Executive Engineer (R&B)	A Certa
	N.H. Section : Narasaraopet	PROJECT LEADER
ķ	THE SECTOR : MARASARAUDH	Page 7 of 12 Krishnapatnam Hyedrabad Pipeline Project
	\cap	Bharat Petroleum Corporation Landes
	6	eputy Executive Enginees (Re18)2, 2nd Floor, Reliance Humsafar Building, M.M. Sub-Division, GUNTKUEd no. 11, Banjara Hills, Hyderabad - 500034
	Superintending Engineer (Re	B)
	Qi N.H. Circle, Vijayawadi	
	see barner was easily a shart as	

 \bigcirc

Ö

	guarantee as per Ministry's circular no. RW/NH- 33044/29/2015/S&R(R) doted 22.41.2016 is	be pay Bank guarantee as intimated by NHAI / Authorized Agency	undertaking for agreement
	dated 22.11.2016 is obtained		is attached here with
4.1	Confirmation of BG has	Yes	An
	been obtained or not as per MoRTH/NHAI guidelines		undertaking for agreement is attached here with
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, Enclosed	
5.3	Undertaking for confirming all standard condition of Ministry circulars and NHAI's guidelines.	Yes, Enclosed	
5.4	Undertaking for Indemnity against all damages and claims.	Yes, Enclosed	
5.5	Undertaking for management of traffic movement during laying of petroleum line withouthampering the traffic	Yes, Enclosed	
5.6	Undertaking that if any claim is raised by the concessionaire/contractor then the same has to be paid by the applicant.	Yes, Enclosed	
5.7	Undertaking that prior approval of the NHAI shall be obtained before undertaking any work for installation, shifting or repairs, or alterations to the petroleum located in the National Highway right-of- ways.	Que Stiller	2.TIL 2.TIL NGINEER (F8 N, VIJAYAWADA
	CD-G	Deputy Executive Engineer (R & B)	-L
	Assistante	M.H. Sub-Division, GUNTUR	
	Assistant Executive Engineer (R&E	Page 8 of 12 Krishnapatnam Hyedrabad Pipel Bharat Petroleum Corporation 8-2-618/2, 2nd Floor, Reliance Hum	Limited
	Superintending E	Road no. 11, Banjara Hills, Hydera	

	5.8	Undertaking that	Yes, Enclosed		
		expenditure, if any, incurred			
		by NHAI for repairing any			
_		damage caused to the			
		National Highway by the			
		laying, maintenance or			
		shifting of the petroleum line			
		will be borne by the			
		applicant agency owing the			
		line.			
1	5.9	Undertaking that text of the	Yes, Enclosed		
		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			
	5.10	Undertaking that the	Yes, Enclosed		
		applicant has obtained			
		various safety clearances			
		from the representative			
		authorities such as			
		Directorate of Electricity, Chief controller of			
		Explosives, Petroleum and			
		Explosive safety			
		Organization, Oil Industry			
		safety Directorate,			
		State/Central pollution			
		control board and any other			
		statutory clearances as			
		applicable, before applying			
		to Highway Administration			
	5,11	If the MoRTH/NHAI consider	Yes, Enclosed		
		it necessary in future to			
		move the petroleum 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 owing the			
		petroleum line within a	0		
		reasonable time (not exceeding 60 days) of the			
		intimation given.			
	5.12	Certificate from the applicant	Enclosed		
	••••	in the following format	LINOSCO	2	
		(i) laying of Gas pipe line		40	Ziliely
		will not have any deleterious			N
		effects on any of the bridge		EXECUTIVES	ENGINEER (R&B)
			intending Engin	cer (R&B) AT IN DIVISIO	N. VIJAYAWAUA
		WI WINDLY SIN.F	I. Circle, Vija)	eer (R&B) Stinkn 10	
				anot	
		Assistant Executive Engineer (F		PROJECT LEADER	
		A A A A A A A A A A A A A A A A A A A	Page 9 of 12	Krishnapatnam Hyedrabad Pipeline	
		(Buun		Bharat Petroleum Corporation Li	
		alulwy		8-2-518/2, 2nd Floor, Reliance Humsan	Contraction of the second se
		Deputy Executive Engineer (R	8 B1	Road no. 11, Banjara Hill <mark>s, Hyder</mark> abac	(- 00002A
		N.N. Sull-Obdaton Ottorright			

		components and roadway		
		safety for traffic.		
	1	(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 NHAI" for		
		future six-lanning or any		
		other development."		
	6	Who will sign the agreement	B. MANOHAR	
	U	on behalf of petroleum		and the second second
			PROJECT LEADER, Bharat Petroleum	
		product pipe line agency.	Corporation Limited Krishnapatnam -	
			Hyderabad Pipeline Project,	
			8-2-618/2, 2nd Floor, Reliance Humsafar	
~			Building Road No. 11, Banjara Hills,	
\bigcirc			Hyderabad – 500 034	
		Power of Attorney to sign	Available	
		the agreement is available		
		or not		
	7	The project Director will		
		submit the following		
		Certificates		
	7.1	Certificate that the proposal	Yes/No	
		is confirming to all standard		
		conditions issued vide		
		Ministry's circular No:		
		RW/NH-		
		33044/29/2015/S&(R) dated		
		22.11.2016		
	7.2			
	1.2	Certificate from PD in the	Yes/No	
		following format		
		(i)" It is certified that any		
9		other location of the Gas		
		pipe line would be		
		extremely difficult and		
		unreasonable costly and		
		the installation of Gas		
		pipe line within ROW will		
		not adversely affect the		
		design, stability & traffic		
		safety of the Highway		\bigcirc
		nor the likely future	\wedge	1
		improvement such as	- (POT	21/2/4
		widening of the	PED	N N N
		carriageway easing of	FXEQUTIVE E	NGINEER (R&B)
		curve etc."	Engineer (R&B) N.H. DIVISION	, VIJAYAWADA
	L	Q Superintent		A CONTRACTOR OF STREET
		CR CITNH. CIT	cle, Vijayawada.	
		in initialy	man	~
		Assistant Execution	PROJECT LEADER	λ.
		MH. Section . Mardsbridge	Krishpapathan Hyedrahad Pipetine	Project
			Page 10 of 12 Bharat Petroleum Corporation Lin	
		aluna	8-2-618/2, 2nd Floor, Reliance Humsafa	
		Blulwy	Road no. 11, Banjara Hills, Hyderabad	
		Deputy Executive Engineer (R &		
		M PL NATR-INSteam CM IN TI NO		

		(ii)for 6-lanning	
		(a) Where feasibility is	
		available	
_		"I do certify that there	
		will be no hindrance	
		to proposed six-	
		laning based on the	
		feasibility report	
	1	considering	
		proposed structures	
		at the said location".	χ
		(b) In case feasibility	
		report is not available	
		"I do certify that	
		sufficient ROW is	
	1	available at site for	
	1	accommodating	
0	0	proposed six-lining".	
	8	If NH section proposed to be	Yes
		taken up by NHAI on BOT	
		basis – a clause is to be	
		inserted in the agreement.	
		"The permitted Highway on	
		which License 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 Kmto	
		kmof NH no	
		on Build:	
		operate and transfer basis]	
		and therefore, the license	
2		shall honour the same."	
\bigcirc	9	Who will supervise the work	
		of laying of Gas pipe line	
		(a) On behalf of the	Bharat Petroleum Corporation Limited
		Applicant	Krishnapatnam – Hyderabad Pipeline
		, ipplieding	Project.
		(b) On behalf of the	Executive Engineer, R&B Department,
		MoRTH/NHAI	NH Division,
	10	Who will ensure that the	
	10	defects in road portion after	
		laying of Gas pipe line are	
		corrected and if not	0 10 21/12/14
		corrected then what action	EXECUTIVE ENGINEER (R&B)
		will be taken.	
		Cubenime	
		Superint	ending Engineer (RGB) Gran
		OL MILON N.H.	Lircle, vijayawada. 211 - 44
	0.0	Bookie in T	Cart
		Assistant Executive Engineer (R&B)	PROJECT LEADER
	1	NH. Section : Narasaraopet	Krishnapatnam Hyedrabad Pipeline Project
			Page 11 of 12 Bharat Petroleum Corporation Limited
		aller	8-2-618/2, 2nd Floor, Reliance Humsafar Building,
		Blulm	Road no. 11, Banjara Hills, Hyderabad - 500034
		Beputy Executive Engineer (R & B)	
		N.H. Sub-Division, GUNTUR	

	(a) On behalf of the applicant	PROJECT LEADER, Bharat Petroleum Corporation Limited Krishnapatnam – Hyderabad Pipeline Project.	
11	(b) On behalf of NHAI Who will pay the claims for damage done/disruption in working of concessionaire if asked by the concessionaire		
	On behalf of the applicant	PROJECT LEADER, Bharat Petroleum Corporation Limited Krishnapatnam – Hyderabad Pipeline Project.	
12	A certificate from PD that he will enter the proposed permission in the register of record of the permission in the prescribed proforma (copy enclosed)	Yes	
13	If any various approval is accorded for laying of underground Gas pipe line then Photocopy of register of records of permission accorded (as maintained by PD) be enclosed.		

Assistant Executive Engineer (R&B) N.H. Section : Narasaraopat

PROJECT LEADER

K-ishnapatnam Hyedrabad Pipeline Project **Bharat Petroleum Corporation Limited** 8-2-618/2, 2nd Floor, Reliance Humsafar Building, Road no. 11, Banjara Hills, Hyderabad - 500034

3/4/2001

Deputy Executive Engineer (R & B) M.M. Sub-Division, GUNTUR

21/12/1 **EXECUTIVE ENGINEER (R&B)** N.H. DIVISION, VIJAYAWADA

8 21/12/21 Superintending Engineer (R&B) Oj N.H. Circle, Vijayawada.

भारत पेट्रोलियम कॉर्पोरेशन लिमिटेड भारत सरकार का उपक्रम पाइपलाइन परियोजनाए



BHARAT PETROLEUM CORPORATION LTD. A Govt. of India Enterprise Pipeline Projects

Date: 11th JAN, 2021

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Shri B. Manohar, Project Leader (KHPL Project), Hyderabad is authorized to sign applications and associated letters on behalf of Bharat Petroleum Corporation Limited to all the statutory authorities like Forest, NHAI, Railways, PWD / Roads & Buildings Department, I&CAD / Water Resources Department, RWS Department / Mission Bhagiratha, Panchayat Raj & Rural Development Department, HMDA, State Industries Department, State Revenue Department etc. and all the administration authorities like DM, SDM, Tehsildar, Police etc. in the states of Andhra Pradesh and Telangana for obtaining clearances / crossing permissions and assistance in connection with laying of Petroleum product pipeline from Krishnapatnam Coastal Installation, Nellore District, Andhra Pradesh to Hyderabad Terminal, Hyderabad, Telangana.

He shall be the authorized signatory as Project Leader on behalf of Bharat Petroleum Corp. Ltd.

The signature of Mr. B. Manohar is attested herewith.

Biju Gopinath Chief General Manager Projects (Pipelines) BPCL, Mumbai.

I hereby attest the signature of Mr. B. Manohar, Project Leader (KHPL), Hyderabad.

(B. Manohar)

Attested by Biju Gopinath Chief General Manager Projects (Pipelines) BPCL, Mumbai.

कार्यालय का पता: प्रियदर्शिनी बिल्डिंग. 5वीं मंजिल, ट्रॉम्बे इंडस्ट्रियल एरिया, ई ई हाईवे, सायन, मुंबई - 400 022, फोन: 24062345, 24011499 रजिस्टर्ड ऑफिस: भारत भवन. 4 & 6, करीमभॉय रोड, बेलाई इस्टेट, मुंबई-400 001. फोन: 2271 3000/4000. फैयरा: 2271 3837

Office Address: Priyadarshini Building, 5th floor, Trombay Industrial Area, E E Highway, Sion, Mumbai - 400 022, Phone: 24062345, 24011499 Registered Office: Bharat Bhavan, 4 & 6, Currimbhoy Road, Ballard Estate, Mumbai - 400 001. Phone: 2217 3000/4000, Fax: 22713837 Email : info@bharatpetroleum.in__Website : www.bhat.textroleum.in__CIN : L23220MH1952GOI008931

भारतीय पेर च्यायिक बीस रुपये रु.20 रि.20 INDIA NON JUDICIAL

అంద్రప్రదేశ్ आंध्र प्रदेश ANDHRA PRADESH

S.L. NO 10006 Dete 16-12.200 Bid-SOLD TO: Manohan Burro slo kanakaiah. Hyderabad SOLD TO: Self Go Bhanat petroleum Corporation Limited. Line. 0903022/2012-14 FORWHOOM Self Go Bhanat petroleum Corporation Limited. R.L. No. 0903002 of 2018-2020 Nunnevan Street, Buchireddypalen. Cell 8374879972

CERTIFICATE

77AA 444300

I B. MANOHAR , working as a Project Leader, Bharat Petroleum Corporation Ltd, Krishnapatnam – Hyderabad Pipeline Project, Hyderabad do certify,

- 1. Laying of Multi-Product Petroleum pipeline will not have any deleterious effects on any of the bridge components and road way safety for traffic.
- We do undertake that we will relocate service raod/approach road/utilities at our own cost notwithstanding the permission granted within such time as will be stipulated by NH Division / MoRTH Authorities, for future six –lining or any other development.

B. MANOHAR PROJECT LEADER KRISHNAPATNAM – HYDERABAD PIPELINE PROJECT HYDERABAD

> PROJECT LEADER Krishnapatnam Hyedrabad Pipeline Project Bharat Petroleum Corporation timited 8-2-618/2, 2nd Floor, Reliance Humsafar Building, Road no. 11, Banjara Hills, Hyderabad - 500034

01	lice	oft	ha
Sub	Re	C 88	trar
11	B SEI	P 70	70

Buchireddynalem Nellore Dist.

....

भारतीय पर न्यायिक बीस रुपये रु.20 हिंग्य हिंग हिंग हिंग हिंग रि.20 हिंग हिंग हिंग हिंग हिंग हिंग रि.20 हिंग हिंग हिंग हिंग हिंग हिंग हिंग हैं राष्ट्रा होय हैं कि साम कि साम हिंग हैं राष्ट्र होय हैं कि साम हिंग हैं कि साम हैं राष्ट्र होय है कि साम है कि सा

ಅಂಧ್ರವ್ಷ^{ತ್ರ} आंध्र प्रदेश ANDHRA PRADESH

S.L. No 10008 Date 16-12-2020 Mar SOLD TO MAINDHAN BUYTA SID KANAKAIAH. Hydenabad FOR WHOOM Self Constant Detroleum Corporation (imited Numaron Strat Buchkeddynaion), CHEPURD LARSHMI Licenced Stamp Vender L.No. 0903022/2012-14 B.L. No. 0903022/2012-14 B.L. No. 0903022 of 2018-2020 HUMMARON Self Constant Detroleum Corporation (imited Numaron Strat Buchkeddynaion), Can B374879972

Undertaking

In[®] connection with the permission for laying of Krishnapatnam – Hyderabad Multi-Product Petroleum pipeline with OFC across NH-544D at Ch. 348.375 Km. I B. MANOHAR, working as a Project Leader, Bharat Petroleum Corporation Ltd, Krishnapatnam – Hyderabad Pipeline Project, Hyderabad by Undertake,

- 1. Not to damage any other utility, if damaged then to pay the losses either to NH Division or to the concerned agency.
- 2. To renewal of bank guarantee for the further period if the work is not completed to the satisfaction of NH Division / MoRTH Authority with in the stipulated period .
- 3. To confirming all standard condition of NH Division / MoRTH Authority guidelines issued by Ministry of Road Transport & Highway / NH vide Ministry circular No. NH-III/P/66/76 dated 18-11-1976, Ministry circular No. RW-NJ-III/P/66/76 dated 01-05-1982, Ministry circular No. RW/NH-11037/1/86-DOI (II) dated 28-07-1993, Ministry circular No. RW/NH-11037/1/86-DOI dated 19-01-1995, Ministry Circular No.RW/NH-34066/2/95/S&R dated 25-10-1999, Ministry Circular No.RW/NH-34066/7/2003 S&R (B) dated 17-09-2003, Ministry Circular No.RW/NH-33044/29/2015/S&R(R) dated 22.11.2016

PROJECT LEADER

Page 1 of 2

Krishnapatnam Hyedrabad Pipeline Project Bharat Petroleum Corporation Limited 8-2-618/2, 2nd Floor, Reliance Humsafar Building Road no. 11, Banjara Hills, Hyderabad - 5000 -

Office of the Sub Reals' di 1991 2023 17 Buch! N. ł OTPROP WAY sources make the transmission of the state for the

- 4. To shift the Multi-Product Petroleum pipeline as and when required by NH Division / MoRTH Authority at own cost.
- 5. To shift the Multi-Product Petroleum pipeline if necessitated due to 6 lining / widening of NH.
- 6. To indemnify NH Division / MoRTH Authority indemnity against all damage and claim.
- 7. To manage traffic movement and ensure there is no traffic disruption during the laying of the pipeline.
- 8. To pay if any claim is raised by concessionaire.
- 9. To obtain prior approval of NH Division / MoRTH Authority before undertaking any work for installation, shifting or repairs, or alteration to the petroleum in the National Highway Right of ways
- 10. To bear any expenditure, if any, incurred by NH Division / MoRTH Authority for repairing any damage caused to the National Highway by the laying, maintenance or shifting of the petroleum line will be borne by us.
- 11. If the NH Division / MoRTH Authority considers it necessary in future to move the petroleum 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 owing the petroleum line within reasonable time (not exceeding 60 days) of the intimation given.

Date:

Place:

For Bharat Petroleum Corporation Limited

PROJECT LEADER

Krishnapatnam Hyedrabad Pipeline Project Bharat Petroleum Corporation Limited 8-2-618/2, 2nd Floor, Reliance Humsafar Building, Road no. 11, Banjara Hills, Hyderabad - 500034

