



# भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन एवं राजमार्ग मंत्रालय, भारत सरकार)

## National Highways Authority of India

(Ministry of Road Transport & Highways, Govt. of India)

क्षेत्रीय कार्यालय-पश्चिम उ०प्र०, लखनऊ

Regional Office- West UP, Lucknow

3/248, विशाल खण्ड, गोमती नगर, लखनऊ-226010 (उ.प्र.)

3/248, Vishal Khand, Gomti Nagar, Lucknow-226010 (UP)

19001/1/RO-W-UP/NH-19/18"Dia-UG/km.465/NOC/165

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Dated: 21.04.2020

### Invitation of Public Comments

**Sub:** Permission for crossing of NH-2, 18" diameter Bina-Panki (Kanpur) petroleum product pipeline with dedicated OFC cable at km. 465 at Gadankheda, Kanpur Nagar in the State of Uttar Pradesh - reg.

The Project Leader, M/s Bharat Petroleum Corporation Limited has submitted the proposal for crossing of NH-2, 18" diameter Bina-Panki (Kanpur) petroleum product pipeline with dedicated OFC cable at km. 465 at Gadankheda, Kanpur Nagar in the State of Uttar Pradesh.

2. From the submitted proposal, it is seen that the crossing length is proposed 60m at ch. 451+540. Diameter of the Pipeline/ Cable is 18". Execution work will be carried out through Auger Boring with a depth of 1.2m from the existing ground level. Width of available ROW in LHS & RHS is 30m-30m from center of NH. The existing NH is 6-lane divide carriageway.

3. As per the guidelines, issued by the Ministry vide OM No.RW/NH-33044/29/2015/ S&R(R) dated 22.11.2016, the application 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).

4. In view of the above, comments of the public on the above application is invited to the below mentioned address, which should reach by this office within 30 days from the date of publication beyond which no comments shall be entertained.

**The General Manager cum Regional Officer,**

**National Highways Authority of India**

**Regional Office, UP-West, Lucknow**

**3/248, Vishal Khand, Gomti Nagar**

**Lucknow-226 010**

**E-mail: rowestup@nhai.org & rowestup@gmail.com**

This issues with the approval of RO-West (UP).

**Encl:** As above.

Sd/-  
(Pankaj Kumar)  
DGM (T)  
For RO-West, UP

#### Copy to:

1. Web Admin, NHAI-HQ- with request for uploading on the NHAI website.
2. The Technical Director, NIC, Transport Bhawan, New Delhi- with request for uploading on the Ministry's website.
3. The Project Leader, M/s Bharat Petroleum Corporation Limited, Bina-Panki (Kanpur) Pipeline Project, Kanpur with a direction to submit compliance of this office letter No.152 dated 17.03.2020 and deposition of License Fee in "Bharat Kosh" through proper channel.
4. The PD, PIU-Kanpur for compliance of Sl. No. (3) above.

***"Building a nation, not just Roads."***

## Check list for Crossing Permissions across Etawah - Kanpur Highway NH-02 by Bharat Petroleum Corporation Limited

S. No.	Item	Information / Status	Remarks
1	General Information	Laying of 18" Dia Pipeline under Bina - Panki (Kanpur) Petroleum Pipeline Project.	
1.1	Name and Address of the Applicant / Agency	Bharat Petroleum Corporation Ltd., Sewree-K, A- Installation, 2nd Floor, ERP Building, Sewree Fort Road, Sewree-East, Mumbai-400015	
1.2	National Highway Number	NH-02	
1.3	State	Uttar Pradesh	
1.4	Location	National Highway No. 02, Etawah - Kanpur Highway NH chainage 451+540 Kms crossing at Village- Gadankhera Tehsil- Kanpur Sadar, District- Kanpur Nagar in the State of Uttar Pradesh.	
1.5	Chainage in km	Across NH-2 at 451+540 Km	
1.6	Length in Meters	Across NH-2 60m	
1.7	Width of available ROW	Left - 30.0 meter Center of NH Right - 30.0 meter Center of NH	
1.8	Proposal to lay underground Natural CS Petroleum pipeline	Across NH-2 at 451+540 Km	
	(a) Left from center line towards increasing chainage / km direction	30m	
	(b) Right side from center line towards increasing chainage / km direction	30m	
1.9	Proposal to acquire land	NA	
	(a) Left side from center line	NA	
	(b) Right side from center line	NA	
1.10	Whether proposal is in the same side where land is not to be acquired	Acquisition of land is not required.	
	If not then where to lay the Pipeline	Across NH-2 at 451+540 Km	
1.11	Details of already laid services, if any, along the proposed route	NA	
1.12	No. of Lanes (2/4/6/8 lanes) existing	6 lane	
1.13	Proposed Number of lanes (2 lanes with paved shoulder 4/6/8 lanes)	6 lane	
1.14	Service road existing or not	Yes	
	If yes then which side		
	(a) Left side from center line	Yes	
	(b) Right side from center line	Yes	


Project Director  
National Highways Authority of India  
P.O., Kanpur


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भा.रा.सा.प्रा., प.व. कानपुर

सचेतन बी एम / SACHETAN B M  
प्रोजेक्ट लीडर / PROJECT LEADER  
बीना - पंकी (कानपुर) पाइप लाइन परियोजना  
BINA - PANKI (KANPUR) PIPELINE PROJECT  
भारत पेट्रोलियम कॉर्पोरेशन लिमिटेड  
BHARAT PETROLEUM CORPORATION LTD.  
कानपुर (उ.प्र.) / KANPUR (U.P.) - 208020




S. No.	Item	Information / Status	Remarks
1.15	Proposed service road		
	(a) Left side from center line		
	(b) Right side from center line		
1.16	Whether proposal to lay Petroleum pipeline is after the service road or between the service road and main carriageway	After the service road and across the National Highway	
1.17	The Permission for laying of Petroleum pipeline shall be considered for approval / rejection based on the Ministry Circulars mentioned as above		
	(a) Carrying of Petroleum pipeline on Highway bridges shall not be permitted as Petroleum pipes can accelerate the process of corrosion or may cause explosions, thus being much more injurious than leakage of Petroleum product	NA	
	(b) Carrying of Petroleum pipelines on bridges shall also discouraged however if the Petroleum supply authorities seem to have no other viable alternative and approach the highway authority well in time before the design of the bridge in finalized they may be permitted to carry the pipeline on independent super structure supported on extended portion of piers and abutments in such a manner that in the final arrangement enough free space around the super structure of the bridge remains available for inspection and repairs etc.	NA	
	(c) Cost of required extension of the substructure as well as that of the supporting super structure shall be borne by the agency-in-charge of the utilities.	NA	
	(d) Services are not being allowed indiscriminately on the parapet / any part of the bridges, safety of the bridges has to be kept in view while permitting various services along bridge. Approvals to be accorded in this regard with the concurrence of the Ministry's Project Chief Engineers only	NA	

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S. No.	Item	Information / Status	Remarks
1.18	If crossing of the road involved	Yes	
	If yes, it shall be either encased in pipes or through structure or conduits specially build for that purpose at the expensed of the agency owning the line	Yes	
	(a) Existing drainage structures shall not be allowed to carry the lines	Yes	
	(b) Is it on a line normal to NH	Yes	
	(c) Crossing shall not be too near the existing structures on the national highway, the minimum distance being 15 meter. What is the distance from the existing structures	Yes. The distance from the existing structure more than 15m.	
	(d) The casing pipe (or conduit pipe in the case of electric / OFC cable) carrying the utility line shall be of steel, case iron, or reinforced cement concrete and have adequate strength and be large enough to permit ready withdrawal of the carrier pipe / cable	Yes	
	(e) Ends of the casing / conduit pipe shall be sealed from the outside, so that it does not act as a drainage path	Yes	
	(f) The casing / conduit pipe should, as minimum extend from drain to drain in cuts and toe to slope toe of slope in the fills	Yes	
	(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.	Yes	
	(h) Crossing shall be by boring method (HDD) especially where the existing road pavement is of cement concrete or dense bituminous concrete type	Yes	
	(i) The casing / conduit pipe shall be installed with an even bewaring throughout its length and in such a manner as to prevent the formation of a waterway along it.	Yes	
2	Document / Drawings enclosed with the proposal	Yes	
2.1	Cross section showing the size of trench for open trenching method (is it normal size of 1.2m deep X 0.3 wide)	N.A.	
	(i) Should be greater than 60 cm wider	N.A.	

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कानपुर (उ.प्र.) / KANPUR (U.P.) - 208020



S. No.	Item	Information / Status	Remarks
	than outer diameter of the pipe		
	(ii) Located as close to the extreme edge of the right-of-way as possible but not less than 15 meter from the centre-lines of the nearest carriageway	N.A.	
	(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	N.A.	
	(iv) These should be so laid that their top is at least 0.6 meter below the ground level so as not obstruct drainage of the road land	N.A.	
2.2	Cross section showing the size of pit and location of pipe for HDD method	Attached	
2.3	Strip plan / Route Plan showing Petroleum pipe line, Chainage, width of ROW, distance of proposed cable from the edge of ROW, important mile stone, intersections, cross drainage works etc.	Incorporated in the drawing	
2.4	Methodology for laying of showing Petroleum pipe line	Auger Boring	
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	N.A.	
	(a) The trench width should be at least 30 cm, but not more than 60 cm wider than the outer diameter of the pipe	N.A.	
	(b) For filling of the trench, Bedding shall be to a depth of not less than 30 cm. It shall consists of granular material free of lumps, clods and cobbles and graded to yield a firm surface without sudden change in the bearing value	N.A.	
	Unusable soil and rock edged should be excavated and replaced by selected material	N.A.	
	(c) The backfill shall be completed in two stage (i) side fill to the level of the top to the pipes and (ii) overfill to eh bottom of the road crust	N.A.	
	(d) The side fill shall consist of granular	N.A.	

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S. No.	Item	Information / Status	Remarks
	material laid in 15 cm layers each consolidated by mechanical tampering and controlled tampering and controlled addition of moisture to 95% of the Proctor's Density Over fill shall be compacted to the same density as the material that had been removed. Consolidation by saturation or pending will not be permitted		
	(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.	N.A.	
	(f) The excavation shall be protected by flagman, signs and barricades, and red lights during night hours	N.A.	
	(g) If required, a diversion shall be constructed the expensed of agency owning the utility line	N.A.	
2.4.2	Horizontal Directional drilling (HDD) Method	Yes (Auger Boring)	
2.4.3	Laying of Petroleum Supply Pipe Line through CD works and method of laying		
	(a) On approaches, the water mains / cables shall be carried along a line as close to the edge of the right-of-way as possible upto a distance of 30m from the bridge and subject to all other stipulation contained in this Ministry's guidelines issued with letter No. NH-HI/P66/76 dated 19.11.1976	The pipeline shall be laid across the NH-2 by Auger Boring.	
3	Draft License Agreement signed by two witness	Yes	
4	Performance Bank Guarantee in favour of NHA has to be obtained @ Rs. 100/0- per running meter (parallel to NH) and Rs. 100000/- per crossing of NH, for a period of one year initially (extendable if required till satisfactory completion of work) as a security for ensuring / making good the excavated trench for laying the cables / ducts by proper filling and compaction, clearing Debris / loose earth produced due to execution of trenching at least 50m		

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S. No.	Item	Information / Status	Remarks
	away from the edge of the right of way. No payment shall be payable by the NHAI to the licensee for clearing debris / loose earth.		
4.1	Performance BG as per above is to be obtained		
4.2	Confirmation of BG has been obtained as per NHAI Guidelines		
5	Affidavit / undertaking from the application		
5.1	Not to Damage to other utility, if damaged then pay the losses either to NHAI or to the Concerned agency	Yes	
5.2	Renewal of Bank Guarantee		
5.3	Confirming all standard condition of NHAI's guideline	Yes	
5.4	Shifting of Petroleum supply pipe line as and when required by NHAI at their own cost	Yes	
5.5	Shifting due to 6 lanning / widening of NH	Yes	
5.6	Indemnity against all damages and claims clause (xxiv)	Yes	
5.7	Traffic movement during laying of Petroleum supply pipe line to be managed by the applicant	Yes	
5.8	If any claim is raised by the concessionaire then the same has to be paid by the applicant	Yes	
5.9	Prior approval of the NHAI shall be obtained before undertaking any work if installation, shifting or repairs, or alteration to the showing Petroleum supply pipe line located in the National Highway right-of-way	Yes	
5.10	Expenditure, if any incurred by NHAI for repairing any damage caused to the National Highway by the laying, maintenance or shifting of the Petroleum supply pipe line will be borne by the agency owning the line	Yes	
5.11	If the NHAI considers if necessary in future to move the utility line for any work of improvement or repairs to eh road, it will be carried out as desired by the NHAI at the cost of the agency	Yes	

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S. No.	Item	Information / Status	Remarks
	owning the utility line within a reasonable time (not exceeding 60 days) of the intimation given		
5.12	Certificate from the application in the following format		
	(i) Laying of Petroleum supply pipe line will not have any deleterious effects on any of the bridge components and roadway safety for traffic	Yes	
	(ii) For 6-lanning "We do undertake that I will relocate service road / approach road / utilities at my own cost notwithstanding the permission granted with such time as will be stipulated by NHAI" for future six-lanning or any other development	Yes	
6	Who will sign the agreement on behalf of Petroleum supply pipe line agency?	PROJECT LEADER, BINA PANKI (KANPUR) PIPELINE PROJECT, KANPUR	
7	Certificate from the Project Director		
7.1	Certificate from confirming of all standard condition issued vide ministry circular No. Ministry Circular No. NH-41 (58)/68 dated 31.01.1969, Ministry circular No. RW/NH-III/P/66/76 dated 18/19.11.1976, Ministry Circular No. RW/NH-1103/1/86-DOI (ii) Dated 28.07.1993. Ministry circular No. RW/NH-34066/2/9/S&R dated 25.10.1999 and Ministry Circular No. RW/NH-330231/19-99 dated 17.10.2003	Attached	



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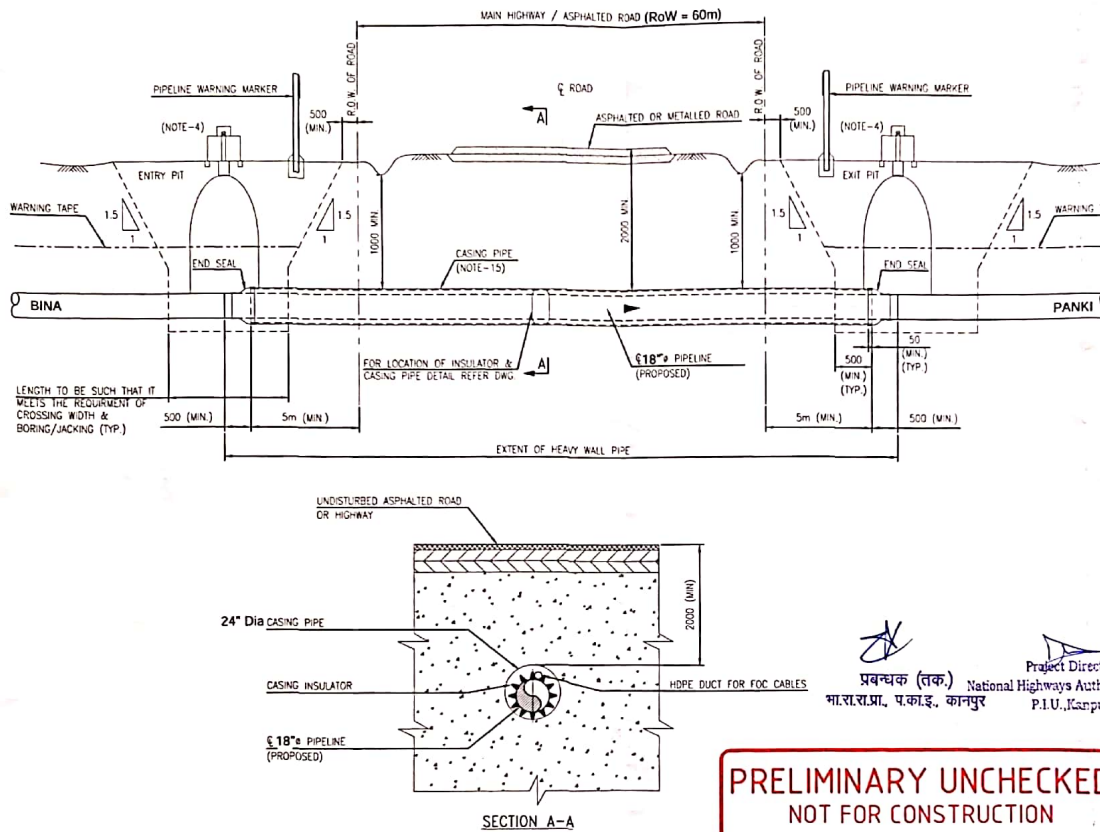


प्र.प्र.  
भारत पेट्रोलियम कॉर्पोरेशन लिमिटेड  
कानपुर



Project Director  
National Highways Authority of India  
P.U., Kanpur





# NOTES:-

1. ALL DIMENSIONS ARE IN MILLIMETRES, UNLESS OTHERWISE SPECIFIED.
2. REFER API 1102 (LATEST EDITION) FOR OTHER DESIGN AND INSTALLATION REQUIREMENTS.
3. AT EACH CROSSING, PIPELINE CROSSING WARNING SIGN SHALL BE INSTALLED ON EITHER SIDE OF THE CROSSING.
4. FOR CP LEAD TERMINAL BOX DETAILS, REFER RELEVANT STANDARD / SPECIFICATION.
5. CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS WITH RESPECT TO SURVEY DETAILS OF EACH CROSSING AND PREPARE DETAILED DRAWING FOR INDIVIDUAL CROSSING FOR COMPANY / CONCERNED AUTHORITIES' APPROVAL BEFORE COMMENCEMENT OF CONSTRUCTION.
6. ALL PIPELINE JOINTS BELOW CROSSING SHALL BE 100% RADIOGRAPHED.
7. ELECTRICAL INSULATION BETWEEN CASING AND CARRIER PIPES SHALL BE CHECKED WITH SUITABLE MEGGER.
8. AFTER INSTALLATION OF CASING AND CARRIER PIPES THE ROAD SURROUNDING SHALL BE RESTORED TO THE SATISFACTION OF COMPANY / CONCERNED ROAD AUTHORITIES.
9. PIPELINE SECTION SHALL BE PRETESTED HYDROSTATICALLY, SEPARATELY FROM THE MAIN LINE TESTING WHEN REQUIRED BY THE CONCERNED AUTHORITIES / AS DIRECTED BY COMPANY.
10. ANGLE OF INTERSECTION BETWEEN PIPELINE AND THE ROAD / HIGHWAY SHALL BE AS CLOSE TO 90° AS POSSIBLE, BUT IN NO CASE LESS THAN 45°.
11. JACKING / BURE THROUGH TECHNIQUE SHALL BE USED FOR THE CROSSING UNLESS SPECIFIED OTHERWISE.
12. FOR DETAILED PIPELINE LAYING REQUIREMENT REFER SPECIFICATION FOR PIPELINE CONSTRUCTION DOC. NO. \_\_\_\_\_.
13. FOC SHALL BE LAD IN ACCORDANCE WITH SPECIFICATIONS FOR SUPPLY, LAYING OF FIBRE OPTIC CABLES & ASSOCIATED WORK.
14. LAYING OF WARNING TAPE AND SIZE AS PER THE TENDER REQUIREMENT.
15. THE CASING PIPE SHALL EXTEND A MINIMUM OF 500mm BEYOND THE TOE OF SLOPE OR BASE GRADE, 900mm BEYOND THE BOTTOM OF THE DRAINAGE DITCH, WHICHEVER IS GREATER.
16. THE ANNUAL SPACE BETWEEN CASING PIPE & CARRIER PIPE SHALL BE FILLED WITH APPROVED BENTONITE POWDER. THE BENTONITE GEL SHALL BE PUMPED THROUGH VENT ON ONE END AND RECEIPT AT THE OTHER END WILL INDICATE COMPLETE GAP FILL.
17. THE CARRIER PIPE SHALL BE INDEPENDENTLY SUPPORTED OUTSIDE THE CASING PIPE.
18. FOR CASING PIPE AND END SEAL DETAILS REFER DRAWING NO. \_\_\_\_\_.

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Project Director  
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सचेतन जी एम/SACHETAN B M  
वरिष्ठ प्रबंधक / Sr. Manager  
पाइप लाइन वीरियोजना / Pipeline Projects  
भारत पेट्रोलियम कॉर्पोरेशन लिमिटेड  
BHARAT PETROLEUM CORPORATION LIMITED

**PRELIMINARY UNCHECKED  
NOT FOR CONSTRUCTION**

**OneWay**  
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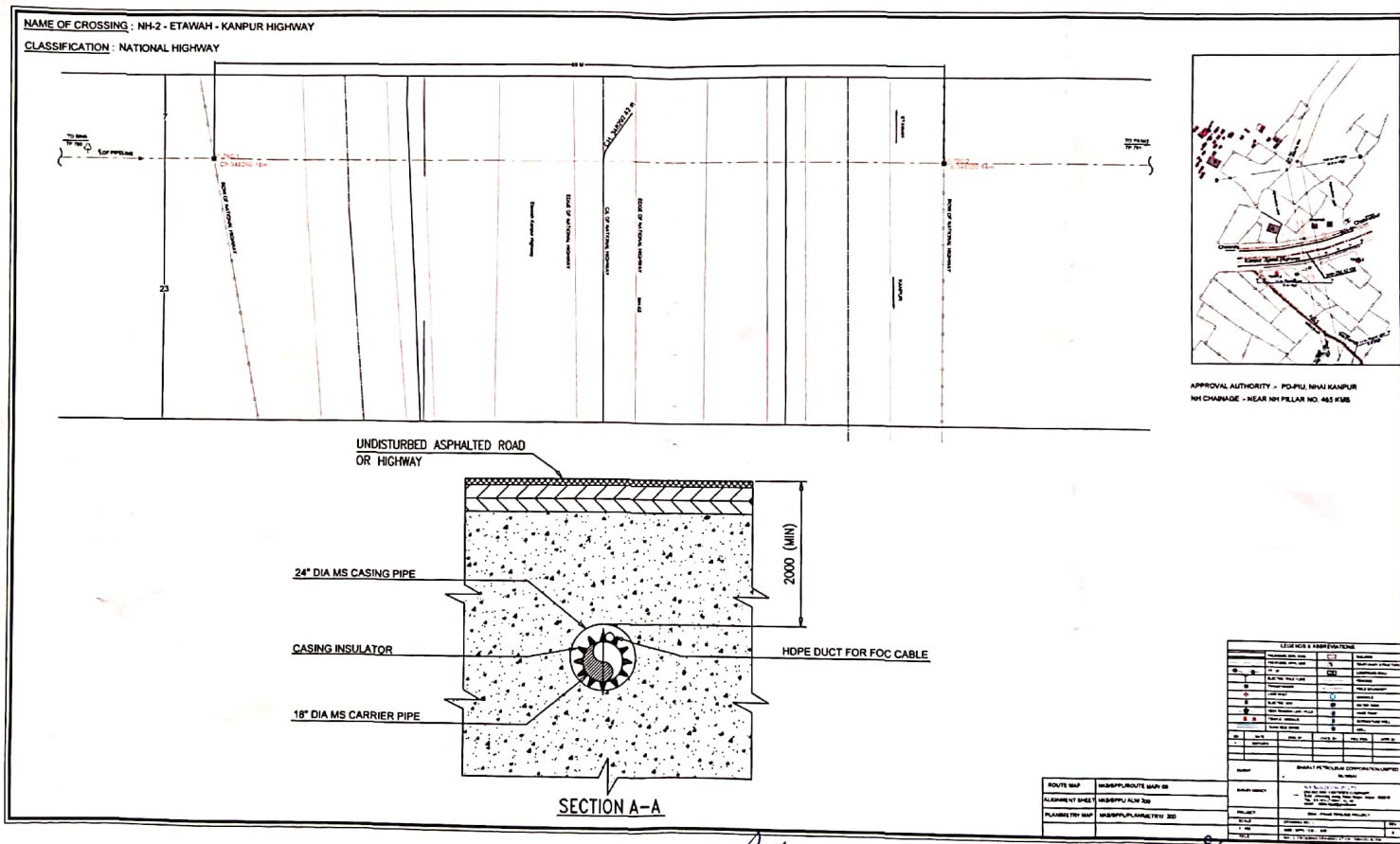
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ABN 61 001 279 812

REV	DATE	REVISION DESCRIPTION	DRN	CHKD	DES	ENG CHK	APPRD	CUST

CUSTOMER	INSERT CUSTOMER LOGO AND NAME
CONSULTANT	<b>WorleyParsons</b> resources & energy
This drawing is prepared solely for the use of the contractual customer of WorleyParsons and WorleyParsons assumes no liability to any other party for any representations contained in this drawing.	

PROJECT TYPICAL DETAILS FOR PIPELINE CASED ROAD/HIGHWAY CROSSING (AUGER BORING)			
WORLEYPARSONS PROJECT No.	SHEET	SCALE	REV
TO BE ALLOTTED	01	N.T.S.	B
DRG No.	TO BE ALLOTTED		

WORLEYPARSONS\_A3\_REVO



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सचिव प्रबंधक /Sr. Manager  
पाइप लाइन परियोजना/Pipeline Project:  
भारत पेट्रोलियम कॉर्पोरेशन लिमिटेड  
BHARAT PETROLEUM CORPORATION LIM.



