



हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड

(भारत सरकार उपक्रम) पंजीकृत कार्यालय : 17, जमशेदजी टाटा रोड, मुंबई - 400 020.

HINDUSTAN PETROLEUM CORPORATION LIMITED

(A Government of India Enterprise) REGISTERED OFFICE : 17, JAMSHEDJI TATA ROAD, MUMBAI - 400 020.
सी. आई. एन. /C.I.N. : L23201MH1952GOI008858

पाइपलाइन परियोजना, बेंगलूरु # 332, दारुस सलाम बिल्डिंग, दूसरा मंजिल, क्वीन्स रोड, बेंगलूरु - 560 052. दूरभाष : 080-22535400
Pipeline Projects, Bengaluru # 332, Darus Salam Building, Second Floor, Queens Road, Bengaluru - 560 052. Phone : 080-22535400

Dy. No.	1286
Date.	11/04/18
PD	
Mgr (T)	
M (F & A)	

18/4
10.04.2018
PA

Ref: VDPL/NH/RR/NV/NH-48/01

To,
Project Director,
National Highway Authority of India,
Project Implementation Unit (NS)
Door No. 259/1, Salem Main Road,
Near KAKC Petrol Bunk,
Krishnagiri - 635 001, Tamil Nadu

(Kind Attn: Sh. D V Narayana, Dy. General Manager (Tech) & Project Director)

Sub: Request for Permission for laying of HPCL's Vijayawada-Dharmapuri Petroleum Product Pipeline of 16" dia with OFC along the National Highway- 48 / Old NH 46 (Krishnagiri to Chennai) with in the NH RoW /Utility Corridor from Km 0.000 to Km 4.462 in the District of Krishnagiri of Tamilnadu State. Approx. length is 4.462 Km.
21.915

Ref: (i) M/s. HPCL Lr. No. HPCL/NH/RR/NH-48/GKY DTD 22.1.18
(ii) M/s. HPCL Lr. No. HPCL/BNG/VDPL/TN/OFC/2018 DTD 8.2.18
(iii) Letter from NHAI vide no. NHAI/11013/17/2002/PIU- K'GIRI/576 dtd 26.3.18

Dear Sir,

This is in reference to HPCL's application for laying its Vijayawada Dharmapuri Petroleum Product Pipeline along NH-48 (Old NH-46) vide our application referred above. As already proposed vide application, the pipeline will be laid at LHS (towards Vellore) of NH at a distance 1 - 2 meter from the existing RoW. The proposed pipeline would be laid in a trench of width 1-1.2 m and would be laid at a minimum depth of 2 meters below the ground level. The land would be immediately restored to its original condition after laying as recommended by NHAI.

Also as advised by your office, it was asked to submit the proposal showing the OFC separately in the drawings. Hence, we have prepared strip maps showing the existing facilities and utilities in the NH RoW. We have also marked our proposed pipeline route along with OFC and prepared typical methodology of crossings at different locations, including ones where there are permanent structures in ROW or there is a congestion of existing facilities. Typical cross section drawings for each type of locational constraints has been also made.

Wherever there are constraints of space separate methodology has been proposed and the same is detailed below:

1. For conditions when sufficient place is available sufficient place is available between road edge and Existing Utility at LHS (towards Vellore) for laying HPCL proposes to lay the 16" dia product Pipeline at LHS within the NH-48 RoW for the required length of 4.46 Km. Pipeline will be laid normally by open cut method and will be laid at minimum depth of 2m below the GL.
2. For congested areas where sufficient space is not available between existing road edge and utility corridor HPCL proposes to lay the pipeline at the extreme edge of the service road either by carefully exposing the existing utilities by excavation and laying the petroleum line at a depth of 1 metre below the existing utilities. If exposing the utilities by excavation is not possible the pipeline would be laid by trenchless method at a minimum depth of 1 metre below the existing utilities.
3. For Major crossings like SH, NH, Rivers, Railways, Major intersections, pipeline will be laid by open cut or trenchless method without disturbing the over ground facilities on case to case basis taking utmost precautions of safety. In case if space is not available in the existing NH RoW a deviation can be also taken at these crossings locations and the line would be laid outside the NH ROU.
4. For places where there are permanent structures in the ROW, pipeline will be laid by trenchless method without disturbing the over ground facilities taking utmost precautions of safety.
5. In case of crossings of minor roads and Drains & Nala, pipeline will be laid by open cut method at a depth of 2-3 m below GL Bed level by open cut method by making temporary bunds for water. Necessary protection measures will be installed to withstand all types of pressure, erosions etc.

Sufficient distance will be maintained considering future expansion of structures for Major Bridges at river locations by detouring the pipeline alignment outside the NH - ROW.

Necessary permissions will be obtained from concerned Authorities as required for crossing Railway line, Water bodies, other roads etc.

HPCL will also ensure that bare minimum trees along the NH corridor will be cut and that too after taking due permission by concerned department and necessary compensations and re-plantation charges will be paid by HPCL wherever there are no access for laying activity due to line of trees.

Typical cross sections indicating proposed HPCL's VDPL pipeline alignment along with OFC are enclosed as Annexure-1.

1: 2500 strip Plans indicating details of NH, RoW, existing utilities, crossings etc. are enclosed as Annexure-2.

Hence, we request you kindly reconsider permitting laying the Pipeline within the ROW of NH in view of the following:

- (a) Right of Use is only for a width of 1.2m. Available space only would be used for construction. Trench shall be filled up and compacted to satisfaction of the Engineer-in-charge. The width of digging trench shall be kept to minimum (about 1-1.2m).
- (b) Pipeline will be laid at a minimum depth of 2 m from the natural ground level. Warning markers, Safety valves etc. will be provided wherever necessary.
- (c) Pipeline will be so placed that at no time there is interference with the maintenance of the National Highways.
- (d) All necessary safety precautions for road, traffic and general public will be taken during construction and subsequent maintenance period.
- (e) Trees damaged, if any, during the laying will be replanted by HPCL or necessary compensation will be remitted to NHAI for the same.
- (f) We have also provided necessary undertaking to shift/removal of pipeline at HPCL's cost during widening/developmental works on receipt of such notices from NHAI.

Since this is the project of National importance, time bound and monitored by Project Monitoring Group of Prime Minister Office, we once again request you to kindly process our request at the earliest.

Thanking you

Yours faithfully,

R. Ramesh,
GM - Pipeline Projects

R. Ramesh,
General Manager - Pipeline Projects
Hindustan Petroleum Corporation Limited
2nd Floor, No. 332, Darus Salam Building,
Queen's Road, Bangalore - 560 052.

CHECK - LIST

Guidelines for Project Director for processing the proposal for laying 16" dia Petroleum product pipeline across National Highway-48 / NH-46(OLD) vested with NHAI.

•Relevant circulars of Ministry of Road Transport and Highways.

1. Ministry Circular No. RW/NH-33044/29/2015/S&R(R) Dated 22/11/2016.

Check list for getting approval for laying HPCL's Vijayawada - Dharmapuri Petroleum Product Pipeline of 16" dia across National Highway-48 / NH-46(OLD) Land.

Sr. No.	Item	Information / Status	Remarks
1	General Information	Laying pipeline across to NH-48 / NH-46(OLD)(Vellore - Krishnagiri).	
1.1	Name and Address of the Applicant/Agency	Hindustan Petroleum Corporation Limited, No-332, Darus Salam Building, II Floor, Queens Road, Bangalore-560052, 080 22535400	
1.2	National Highway Number	NH-48 / NH-46(OLD)	
1.3	State	Tamilnadu	
1.4	Location	Oppathavadi	
1.5	(Chainage in km)	Km 21/915	
1.6	Length in Meters	50.0m	
1.7	Width of available ROW		
	(a) Left side from center line towards increasing chainage/ km direction	As per drawing attached	
	(b) Right side from center line towards increasing chainage/ km direction	As per drawing attached	
1.8	Proposal to lay underground Petroleum Product pipe	-	
	(a) Left side from center line towards increasing chainage/ km direction	As per drawing attached	
	(b) Right side from center line towards increasing chainage/ km direction	As per drawing attached	
1.9	Proposal to acquire land	-	
	(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	Only crossing at (Km 21/915)	
	If not then where to lay the cable		
1.11	Details of already laid services, if any, along the proposed route	NA	
1.12	Number of existing lanes (2/4 / 6/8 lanes).	6	
1.13	Proposed Number of lanes (2 lane with		

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General Manager - Pipelining Projects
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Queen's Road, Bangalore - 560052

	paved shoulders/4 / 6/8 lanes)		
1.14	Service road existing or not	Not Existing	
	If yes then which side	Not Existing	
	(a) Left side from center line	Not Existing	
	(b) Right side from center line	Not Existing	
1.15	Proposed Service road		
	(a) Left side from center line	No	
	(b) Right side from center line	No	
1.16	Whether proposal to lay Pipe line is after the service road or between the service road and main carriageway.	Main Carriageway Crossing	
1.17	The permission for lay pipeline shall be considered for approval/ rejection.		
	(i) Where the ROW is more than 45m then the duct cable shall be laid at the edge of right of way within the utility corridor of 2m width, duly keeping in view the future widening.	Yes	
	(ii) Where land is yet to be acquired for 6 laning and the position of new carriageway has been decided then the pipe line shall be laid at the edge of right of way within the utility corridor of 2m width, on that side of existing carriageway where extra land is not proposed to be acquired for 6 laning.	NA	
	(iii) Where the widening plan for 6 laning is not yet decided and available ROW is around 30m or less, a judicious decision would need to be taken for permitting the laying of Petroleum product pipeline. This could be within 1.5m to 2m of utility corridor at the edge of existing ROW, duly keeping in view the possible widening plans.	NA	
	(iv) Where ROW is restricted and adequate only to accommodate the carriageway, central verge, shoulders and drains(e.g. highways in cutting thorough hilly/ rolling terrain), the cable shall be laid clear of the drain.	NA	
	(v) Where land strip for utility corridor cannot be conveniently earmarked (available ROW restricted to the toe of the embankment) for laying of cable/ducts, the permission may be refused.	NA	
1.18	No. of applicants on the same stretch		
1.19	Whether the case of multiple licenses		
1.20	If so furnish a joint implementation programmer to lay their respective ducts within stipulated time frame.	NA	
1.21	If crossings of the road involved If Yes, it shall only be through trench-less technology	Yes it will be done by Trench less method	

2	Document /Drawings to be enclosed with the proposal.	Yes, Enclosed	
2.1	Cross section showing the size of trench for open trenching method (Is it normal size of 1.65m deep X 0.5m wide) Should not be greater than 1.2m in width in multiple ducts.	Normal size of 1.65m deep X 0.5m wide	
2.2	Cross section showing the size of pit and location of cable for HDD method.	Yes attached	
2.3	Strip plan/ Route Plan showing the pipe line, Chainage, width of ROW, distance of proposed, Gas pipe line from the edge of ROW, important mile stone, intersections, cross drainage works etc.	Enclosed	
2.4	Methodology for laying of Petroleum product pipe line.	Enclosed	
2.4.1	Open trenching method. If yes, methodology of refilling of trench.	N/A	
2.4.2	Horizontal Directional Drilling (HDD) Method	Yes	
2.4.3	Laying of Petroleum product Pipe Line through CD works and method of laying. In cases where the carrying of pipe line on the bridge becomes inescapable.	N/A	-
3	Draft License Agreement signed by two witnesses	Enclosed	
4	Performance Bank Guarantee	HPCL will pay BG as intimated by NHAH	
4.1	Confirmation of BG has been obtained as per the NHAH guidelines.	BG shall be submitted s per NHAH Guidelines	
5	Affidavit / Undertaking from the Applicant for the following is to be furnished	Enclosed	
5.1	Not to Damage to other utility, if damaged then to pay the losses either to NHAH or to the concerned agency.	Enclosed	
5.2	Renewal of Bank Guarantee.	Will be done if necessary	
5.3	Confirming all standard condition of NHAH's guidelines.	Enclosed	
5.4	Shifting of Petroleum product pipe line as and when required by the NHAH at their own cost.	Enclosed	
5.5	Shifting of petroleum product pipe line due to 6 lanning / widening of NH	Enclosed	
5.6	Indemnity against all damages and claims clause (xxiv)	Enclosed	
5.7	Traffic movement during laying of Petroleum product pipe line to be managed by the applicant.	Enclosed	
5.8	If any claim is raised by the Concessionaire then the same has to be paid by the applicant.	Enclosed	
5.12	Certificate for 6-lanning from the applicant in the following format	Yes	

	"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 the NHAI for future Eight- laning or any other development"		
6.	Power of Attorney in favor of authorized signatory	Enclosed	
7.	Copy of DOT license		
8.	Certificate from the Project Director	Yes	
8.1	Certificate for confirming of all standard condition issued vide Ministry Circular No.RW/NH-33044/17/2000-S&R dated 29.09.2000 and NHAI's guidelines issued vide No. NHAI/OEC/2K/Vol II dated 7.11.2000 and Ministry's Circular No. RW/NH-33044/27/2000 S&R dated 21.03.2006.	Enclosed	
8.2	Certificate for 6-lanning from from PD in the following format.	Yes	
	(a) Where feasibility is available "I do certify that there will be no hindrance to proposed Eight-laning based on the feasibility report considering proposed structures at the said location". (b) In case feasibility report is not available "I do certify that sufficient ROW is available at site for accommodating proposed Eight-laning".		
9.	The agreement fee of Rs.1 shall be charged		
10.	If NH section proposed to be taken up by NHAI on BOT basis - a clause in para 17 to be inserted in the agreement. "The permitted Highway on which Licensee has been granted the right to lay petroleum product Pipeline/duct has also been granted as a right of way to the concessionaire under the concession agreement for up-gradation of 21/915 km section from Km- 21 to Km-22 of NH-48 / NH-46(OLD)on Build, Operate and Transfer Basis and therefore, the licensee shall honor the same."	Enclosed	
11.	Who will supervise the work of laying of Petroleum product pipe line.	HPCL	
12.	Who will ensure that the defects in road portion after laying of Petroleum product pipe line are corrected and if not corrected then what action will be taken.	HPCL	
13	Who will pay the claims for damages done/disruption in working of Concessionaire if asked by the Concessionaire?	HPCL	
14	A certificate from PD that he will enter the proposed		

Format for Maintaining Records of Right-of-way permission granted for laying of Petroleum Product Pipe Line. (To be maintained separately for every NH)

1. Name of State : Tamilnadu
2. Name of NH Division : NHAJ, Krishnagiri, Tamilnadu
3. NH Number : NH-48 / 46 (old)

Sl. No.	Location (Chainage In km)	Left or right side of NH (towards increasing chainage/km direction)	Section and reach	Kind of Service	Name of licensee and contact address	Date of signing of agreement	Date of validity of agreement	Date of last inspection of site	Any deviation from MOST standard norms	Remarks
1	21.915km In between (21 to 22)	LHS		Petroleum product pipeline	Hindustan Petroleum Corporation Limited, No-332, Darus Salam Building, 11 Floor, Queens Road, Bangalore-560052, 080 22535400.				No	Crossing the NH-48 / NH-46(OLD)

Very truly yours,

R. Ramesh
G.M - Pipeline Projects

R. Ramesh,
General Manager - Pipeline Projects
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