



**IMC LIMITED**

Corporate Office : "NEELADRI", 3rd Floor, No. 9, Cenotaph Road, Alwarpet, Chennai - 600 018.  
Tel.: +91-44-4590 2222, 4590 2299, Fax : +91-44-4590 2200, E-Mail : admin@imc.net.in URL : www.imc.net.in

49/C Received by hand  
on 23/12/16  
Program

20<sup>th</sup> Dec 2016

To  
The Secretary  
Petroleum and Natural Gas Regulatory Board  
1<sup>st</sup> Floor, World Trade Centre  
Babar Road  
New Delhi – 110001

Dear Sir,

**Sub: Expression of Interest (EOI) to Lay, Build & Operate Petroleum Product (LPG) Pipeline from Ennore – Chennai – Tiruchirappalli - Madurai**

Please find enclosed the application in the form of Schedule A for Expression of Interest by IMC Limited to Lay, Build and Operate a Petroleum Product (LPG) Pipeline from, Ennore upto Madurai.

We request you to initiate the process as per the regulation to grant authorization for Laying, building and operating the subject mentioned petroleum product (LPG) pipeline. In case IMC Limited is successful and gets authorization for subject pipeline then it will Lay, Build, Operate the Petroleum & Petroleum product (LPG) pipeline under its own name or through a SPV where IMC Limited holds majority (above 50%) equity or through its existing subsidiaries where it holds majority (above 50%) equity

Thanking you,

Yours faithfully  
for **IMC Limited**

**Vimal Chopra**  
**Sr. Vice President – Business Development**



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**Schedule A**  
**[See regulation 4(1) and 5(6)]**

**Application form for submitting Expression of Interest by an entity desirous of laying, building, operating or expanding a petroleum and petroleum products pipeline**

- A. Only an entity which complies with the minimum eligibility criteria as per regulation 5 (6) of Petroleum and Natural Gas Regulatory Board (Authorizing Entities to Lay, Build, Operate or Expand Petroleum and Petroleum Product Pipelines) Regulation, 2010 is eligible to Submit its application for submission of expression of interest to the Board.
- B. Entities must enclose documentary proof in support of its meeting the minimum eligibility criteria

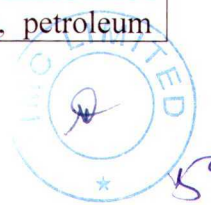
Statement of Minimum Eligibility Criteria as per Regulation 5(6)

S. No	Sub-Regulation Ref.	Criteria Condition	Submittals/ Remarks
1	5(6)(a)	Application Fee	Submitted Application Fee Rs 10,000/- in the form of Demand draft
2	5(6)(b)	Technically capable of laying and building petroleum and petroleum products pipeline as per the following qualifying criteria:	
	(i)	Entity has on its own laid, built either a hydrocarbon pipeline length not less than 300 km on a cumulative basis or a city or local natural gas distribution network	NA
	(ii)	Entity has a JV with another entity, which in the past has above experience	NA
	(iii)	Lump sum turnkey or project management consultancy basis through one or more technically competent firms, which in the past have laid and built a hydrocarbon pipeline of a length not less than three hundred kilometers or a city or local natural gas distribution network	We are in discussions with several EPC companies and we intend to outsource the execution of Petroleum Product pipeline to competent EPC pipeline laying firms. The following companies have shown interest to be associated with us and most of them have executed more than 300 KM of hydrocarbon pipelines:





			<p>1) KSS Petron Private Limited  2) Coortech International Private Limited  3) ACE Pipeline Contracts Pvt Limited  4) Jaihind Projects Limited  5) Fernas Construction Company Inc</p> <p>We also intend to explore other technically competent firms in case we are granted authorization</p>
	(iv)	Entity has an adequate no. of technically qualified personnel with requisite experience.	<p>We have adequate number of technically qualified personnel with experience in construction and pre-commissioning of hydrocarbon pipelines to independently undertake and execute the petroleum and petroleum product pipeline project on a standalone basis.</p> <p>CVs of the technical personnel are enclosed</p>
3	5(6)(c)	Technical Capability - Operating & Maintaining Petroleum and Petroleum Products Pipeline - under any of:	
	(i)	Entity on its own has experience of at least one year in O&M of a Petroleum and Petroleum Products Pipeline not less than 300 km on a cumulative basis	NA
	(ii)	Entity has a JV with another entity which has above relevant experience	NA
	(iii)	Entity intends to operate and maintain the proposed petroleum, petroleum products pipeline through an appropriate firms' technical assistance agreement for a period of at least one year with another party having experience of at least one year in operations and maintenance of a petroleum and petroleum products pipeline	NA
	(iv)	Entity has an adequate number of technically qualified personnel with experience in commissioning and operation and maintenance (O&M) of petroleum, petroleum	We have adequate number of technically qualified personnel with experience in commissioning and operation and maintenance (O&M) of petroleum, petroleum

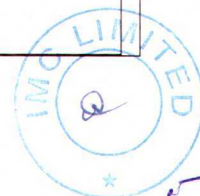




		products pipeline and also has a plan to independently undertake the O&M activities of a petroleum, petroleum products pipeline on a standalone basis	product pipeline. CVs of the operation & maintenance personnel are enclosed
4	5(6)(d)	Entity has adequate financial strength to execute proposed Petroleum and Petroleum Product Pipeline - Min Networth as per Regulations	Annual Reports for the years 2014-15 and 2015-16 are enclosed  IMC Limited consolidated Networth is Rs 7110.20 Million as on 31 <sup>st</sup> March 2016 which is over and above the requirement of PNGRB regulation for qualification of this project.
5	5(6)(e)	Entity, if not a company registered under Companies Act 1956, undertakes to convert to a company registered under companies Act	IMC Limited is registered under Companies Act 2013. If authorized, IMC may form a SPV with majority equity or else it may use any of its existing subsidiary companies for execution, where IMC Limited has majority equity.

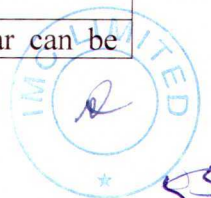
C. The entity submitting the expression of interest must submit the following information:

1	General Details			
A	Name of the Entity	<b>IMC Limited</b>		
B	Type of firm – Public Limited Company / Private Limited Company / Partnership firm / Proprietorship firm / Others (please specify)	Public Limited Company		
C	Date of incorporation and date of commencement of business	2 <sup>nd</sup> April 1935		
D	Address of the Registered office	“Neeladri”, 3 <sup>rd</sup> Floor, 9, Cenotaph Road, Alwarpet, Chennai – 600 018		
E	Name, addresses, telephone numbers, e-mails of all directors / partners / proprietor.	<b>Name of the Director</b>	<b>Address &amp; Telephone No</b>	<b>e-mail ID</b>
		Atluri Mallesh Rao	“Neeladri”, 3 <sup>rd</sup> Floor, 9, Cenotaph Road, Alwarpet, Chennai – 600018 Ph No: 91-44-	<a href="mailto:admin@imc.net.in">admin@imc.net.in</a>





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		Atluri Amulya Rao	“Neeladri”, 3rd Floor, 9, Cenotaph Road, Alwarpet, Chennai – 600018 Ph No: 91-44-4590222 admin@imc.net.in
		M.Bala Subramaniam	“Neeladri”, 3rd Floor, 9, Cenotaph Road, Alwarpet, Chennai – 600018 Ph No: 91-44-4590222 admin@imc.net.in
		Vishal Kashyap Mahadevia	“Neeladri”, 3rd Floor, 9, Cenotaph Road, Alwarpet, Chennai – 600018 Ph No: 91-44-4590222 admin@imc.net.in
		Manthena Venkata Anantha Seetharama Raju	“Neeladri”, 3rd Floor, 9, Cenotaph Road, Alwarpet, Chennai – 600018 Ph No: 91-44-4590222 admin@imc.net.in
		Munuswamy Balasubramanian	“Neeladri”, 3rd Floor, 9, Cenotaph Road, Alwarpet, Chennai – 600018 Ph No: 91-44-4590222 admin@imc.net.in
2	Primary Technical Data		
A	Point of origin and the end point of the proposed petroleum and petroleum products pipeline	We propose a LPG pipeline which can transfer Petroleum Products (LPG) from Ennore upto Madurai.  The proposed Petroleum Product (LPG) Pipeline will Originate at Ennore via Chennai, Tiruchirappalli upto Madurai	
B	Indicative route of the proposed petroleum and petroleum products pipeline indicating the likely petroleum products injection points and likely delivery points depicted on a physical map	The length of pipeline will be approximately 526 KM. from Ennore pass through Chennai, Tiruchirappalli and terminate at Madurai. The Indicative route map is enclosed	
C	Petroleum products	Imported LPG of about 1 Million MT per year can be	





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	availability position	transferred from Ennore upto Madurai via Tiruchirappalli through the proposed pipeline.
D	Potential demand of petroleum products enroute the petroleum and petroleum product pipeline	Potential Demand will be around 1.5 Million MT
E	Assessment of total volume for transportation in the proposed petroleum and petroleum products pipeline	Around 1.5 Million MT per year as explained in point no. D
F	Any other issue considered as relevant by the entity	NIL
3	Application fee of Rs. _____ paid vide demand draft/ pay order number <____> and dated <____> drawn on <name of bank and branch>.	Andhra Bank, Chennai Demand Draft No"257657" dated 19 <sup>th</sup> Dec 2016 for Rs 10,000/-

Date: 20<sup>th</sup> Dec 2016

Place: Chennai

for **IMC Limited**

**Vimal Chopra**  
**Sr. Vice President – Business Development**



**List of Technically Qualified Personnel of IMC Limited**  
(As per clause No. 5(6) (b) (iv) of the regulation)

S.No	Name	Designation	Experience
1	K. Ramakrishna	Head – Projects	<p>25 years of experience in design, engineering, procurement, project management, pre-commissioning and commissioning. Over 18 years with IMC Limited</p> <p>Experience in the following areas:</p> <ul style="list-style-type: none"> <li>➤ <b>Execution of oil and gas storage terminals and hydrocarbon steel pipelines including booster stations</b></li> <li>➤ Building of pipelines for LPG and other liquefied gases from port jetty to the import terminals at Kandla and Ennore</li> <li>➤ Implementation of Fire Protection System and other safety and environmental protection systems for marine facilities, hydrocarbon storage terminals including pipelines</li> <li>➤ <b>Environment Impact Assessment and Risk Assessment studies for hydrocarbon terminals and pipelines</b></li> <li>➤ <b>Obtaining statutory permissions such as Environmental Clearance (including CRZ), Consent for Establishment and Operation from Pollution Control Board, License from Petroleum and Safety Explosives Organization (PESO) etc</b></li> <li>➤ <b>Acquisition of Right of Way (RoW) for hydrocarbon pipelines</b></li> </ul>

S.No	Name	Designation	Experience
2	P. Raveendran	Dy. General Manager - Projects	<p>24 years of experience in Project Management, Planning and Construction Management in Oil and Gas and Petrochemical Sectors</p> <p>19 years of experience at Larsen and Toubro (L&amp;T) Limited in the areas of Engineering, Planning and Construction activities at various locations in India and abroad</p> <p><b>Experience in execution of large hydrocarbon projects for IOCL, MRPL, CPCL and Reliance</b></p> <p><b>Execution of Crude Oil pipeline project for CPCL</b></p> <p><b>Engineering, Procurement Co-ordination and Construction of hydrocarbon storage and pipeline facility for a Lube Oil Plant in Malaysia (Petronas Refinery)</b></p> <p>Project Management and Construction Supervision of petroleum class terminals and pipelines at Pipavav and Dighi Ports</p> <p><b>Safety Management of Hydrocarbon installations under construction</b></p>
3	K. Kumararaja	Sr. Manager - Projects	<p>19 years of experience in the areas of Liquid Bulk and Gas Terminals and Pipelines</p> <p>Experience in Planning, Basic and Detailed Engineering, Cost Estimation, Contract Management and Construction Supervision</p> <p>At IMC, a key member of the Projects Team that implemented liquid bulk storage terminals and pipelines at Kandla, Ennore, Kakinada, Vishakapatnam, Haldia and Pipavav ports.</p> <p><b>Experience includes obtaining Right of Way for hydrocarbon pipelines</b></p>

S.No	Name	Designation	Experience
			<p><b>and securing statutory permits for terminals and pipelines</b></p> <p>Design and Cost Estimation of LPG pipelines</p> <p>Design and implementation of Crude Oil Storage and Pipeline systems at Kandla Port</p> <p>Design and laying of naphtha pipeline from port terminal to railway loading facility</p>
4	P. Kanthan	Dy Manager (Projects) (Certified Project Management Professional)	<p>15 years' experience in Project Planning and Co-ordination, Construction Supervision and Project Management of hydrocarbon terminals, pipelines and City Gas Distribution projects</p> <p>Experience in planning and co-ordination of setting up Natural Gas/CNG Pipelines and spur pipelines for supply to industries as part of CGD networks</p> <p>As Site Engineer for the development of hydrocarbon marine and storage terminal with pipelines at Ennore Port</p> <p><b>Construction supervision experience in Single Point Mooring Systems and Sub-Sea Pipelines for Crude Oil</b></p> <p><b>Supervision of Geo-Technical and Geo-Physical surveys for crude oil and hydrocarbon pipelines routing</b></p>
5	Sethu Parvatha Rajan	Asst Manager (Projects)	<p>8 years' experience in construction supervision, project management and quality assurance/quality control of large projects in the oil and gas sector</p> <p>Worked in Maytas Infra Limited, Larsen and Toubro Ltd, and Hyundai Heavy Industries</p> <p>Experience in the following projects:</p> <ul style="list-style-type: none"> <li>➤ <b>Rajkot-Jam Nagar Gas Pipeline</b></li> </ul>

S.No	Name	Designation	Experience
			<ul style="list-style-type: none"> <li>➤ <b>Barmer-Salaya Crude Oil and Gas Pipeline</b></li> <li>➤ <b>Salaya-Bhogat Crude Oil and Gas Pipeline</b></li> <li>➤ Polypropylene Unit for Bhatinda Refinery</li> <li>➤ Integrated off-shore Crude Oil Handling Facilities at Paradip</li> </ul>
6	B.M. Shashidhar	Terminal In-Charge	<p>22 years of experience, of which more than 12 years in technical, operational and safety areas of hydrocarbon pipelines and installations</p> <p>Served for over 7 years as Station-in-Charge of Mangalore-Hassan-Bangalore Pipeline, Devangonhi</p> <p><b>Experience includes Right of Use acquisition with Competent Authority for laying pipelines under P&amp;MP Act and declare the area acquired under the Act</b></p> <p>Involved in execution of hydrocarbon pipeline project including setting up of pump stations, terminal stations, SV stations and installation of Mainline Valves</p> <p><b>Pre-commissioning of critical sections of pipelines crossing rail/road/water bodies and commissioning of pipeline after hydrotesting</b></p> <p><b>Safety Management of hydrocarbon pipeline including ultrasonic and radiographic tests</b></p> <p>Experienced in O&amp;M of fire protection systems, cathodic protection system for pipelines and maintenance of SV and IP stations</p> <p>As Station-In-Charge, participated in the Monthly Distribution Plan meeting with the Oil Marketing Companies for finalizing the quantity distribution plans, accounting and billing for the pipeline transportation</p>

**List of Technically Qualified Personnel of IMC Limited**

(As per clause No. 5(6) (c) (iv) of the regulation)

S.No	Name	Designation	Experience
1	Vimal Chopra	Sr.Vice President	<p>27 years of experience in execution, project management, commercial and business development functions in the oil and gas sector</p> <p>Worked for several oil and gas companies – IOCL, Marubeni Corporation, Continental Grain India Pvt Ltd, SAW Pipes Ltd, Indraprastha Gas Ltd., Punj Lloyd Ltd and IOT Infrastructure and Energy Services Ltd.</p> <p>Successfully managed large EPC/LSTK pipeline projects (crude oil and natural gas)</p> <p>Worked on the following pipeline projects:</p> <ul style="list-style-type: none"> <li>(a) Uran-Trombay Offshore pipeline project</li> <li>(b) Dahej-Vijaipur gas pipeline</li> <li>(c) Dahej-Uran gas pipeline</li> <li>(d) Mundra-Delhi crude oil pipeline</li> <li>(e) East-West gas pipeline</li> <li>(f) Dharod-Jaffrabad pipeline</li> </ul> <p>At <b>Indraprastha Gas Ltd</b>, was responsible for <b>marketing of CNG and related commercial activities</b> including stock accounting and reconciliation, billing and collection</p> <p>Served as Chief Manager in Continental Grain India, responsible for marketing of bulk LPG to Oil Marketing Companies and private LPG trading companies</p> <p><b>Experience in acquiring Right of Way for cross country pipelines</b></p>

S.No	Name	Designation	Experience
2	Ashwani Chanana	Vice President	<p>31 years of experience in the Oil and Gas Sector</p> <p>Work Experience:</p> <p>(1) Oil and Natural Gas Corporation</p> <p><b>Operation and Maintenance of natural gas installation and pipelines including gas compressors in ONGC fields of Lakwa, Geleky and Rudrasagar</b></p> <p><b>Operations and Maintenance of Natural Gas installations of ONGC Uran and Hazira</b></p> <p><b>Safety management of natural gas installations</b></p> <p><b>Securing Right of Way/Clearance in Sonari region</b></p> <p>(2) Unocal India, Bangladesh and Myanmar</p> <p><b>Management of commercial issues relating to gas supply, pricing and accounting</b></p> <p>(3) British Gas India</p> <p><b>Marketing and commercial issues relating to natural gas supply to Indian customers</b></p> <p>(4) JV of Itera Oil and Gas Pte Ltd and Sun Group (Moscow)</p> <p>Marketing and commercial matters relating to supply of natural gas to customers in Nigeria</p> <p>Exploration and Production activities for oil and gas blocks in India, Russia, Myanmar and Nigeria</p>
3	Hemant Kumar	Asst. Vice President	<p>23 years of experience in the Oil &amp; Gas Sector under</p> <p><b>Commissioning of a hydrocarbon pipeline</b></p>

S.No	Name	Designation	Experience
			<ul style="list-style-type: none"> <li>• Tripura Gas Pipeline</li> </ul> <p><b>Operation and maintenance of petroleum and petroleum products pipelines and petroleum products installations</b></p> <ul style="list-style-type: none"> <li>• Worked with SCADA team in GAIL</li> <li>• Involved in O&amp;M of Kharsang (AP) Gas Field Gas Pipelines of Jubilent</li> </ul>
4	J Udaya Shankar	Sr.Manager (Operations)	<p>18 years of hands-on experience in bulk liquid terminal operations in India handling petroleum products, petrochemicals, chemicals, vegetable oils and molasses.</p> <p>Served as Shift-In-Charge at Petronet Mangalore-Hassan-Bangalore (MHB) Pipeline Installation, Devangonhi, Karnataka</p> <p>Managing receipt, interfacing, storage of petroleum products and dispatch to distribution terminals of Oil Marketing Companies</p> <p>Inventory management of receipt and dispatches</p> <p>Presently located at the Corporate Office of IMC Limited as the Senior Manager Corporate Operations and is in-charge of co-ordinating operations and maintenance and technical supports to all terminals of the IMC Group.</p> <p>Served as Terminal Manager at Karwar Terminal handling petroleum products and as Deputy Manager (Operations) at Mangalore Petroleum Class Installation</p> <p>Experience in receipt of bulk liquids from ships, storage and dispatch via road trucks, rail wagons, pipelines etc</p>

S.No	Name	Designation	Experience
			<p>Hands-on experience in pre-commissioning and commissioning activities of petroleum class terminals</p> <p>Revamping and refurbishment of terminals including fire protection system, tank truck loading gantries and pipelines</p> <p><b>Designated Management Representative for IMC Group for ISO 9001 and ISO 14001 implementation.</b></p> <p><b>Certified Lead Auditor – ISO 9001 and ISO 14001</b></p> <p><b>Responsible for conducting internal Operations and HSE Audits in all terminals of IMC Group</b></p>
5	Santhosh M	Senior Engineer	<p>10 years of experience in project management, construction, operations and maintenance of crude oil pipelines (Mundra-Bhatinda pipeline and Mangalore-Hassan-Bangalore pipeline)</p> <p>Involved in <b>O&amp;M activities of the Mundra-Bhatinda cross country pipelines</b> (HPCL-Mittal Pipeline Limited)</p> <p>Stationed at Dhansa receipt terminal, responsible for receipt and dispatch operations including the management of intermediate pigging stations and sectionalizing valve stations along the crude oil pipeline</p> <p>Safety Management of hydrocarbon pipelines</p> <p><b>O&amp;M of Mangalore-Hassan-Bangalore cross country pipeline</b> (Petronet MHB Ltd, Devangonhi)</p> <p>O&amp;M of SCADA-Teleom, CCTV, EPABX, SDH based OFC communication and instrumentation systems</p>

S.No	Name	Designation	Experience
			Maintenance of MoVs, valves, pumps, DG sets and electrical panels  Maintenance of Fire Fighting System  Presently, serving as Sr. Engineering, responsible for O&M activities at IMC's New Mangalore Port Terminal (Petroleum Class A installation with pipelines)





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10<sup>th</sup> April 2017

DA/MTA

Petroleum and Natural Gas Regulatory Board  
1<sup>st</sup> Floor, World Trade Centre  
Babar Road  
New Delhi – 110001

26/4/17  
12/4/2017

**Kind Attn: Mr. Aravind Kumar – Additional Adviser**

Dear Sir,

**Sub: Expression of Interest (EOI) to Lay, Build & Operate Petroleum Product (LPG) Pipeline from Ennore – Chennai – Tiruchirappalli - Madurai**

This has reference to your letter no: Infra/PLP/43/IMC/ETMPL/01/16 dated 21<sup>st</sup> Mar 2017.

We would like to inform that Ennore Tank Terminal Private Limited (ETTPL), a wholly owned subsidiary of IMC Limited, has set up and is operating a Marine Liquid Jetty and Storage Terminal at Kamarjar (Ennore) Port, under a 30 year Build, Operate and Transfer Agreement.

ETTPL's Liquid Jetty is handling LPG imports and the current import volumes are 1.43 million tonnes per annum (during FY 2015-16). ETTPL berths LPG VLGCs, unloads Propane and Butane and pumped in separate LTCS pipelines to the LPG import terminal of Indian Oil Petronas Pvt Ltd (IPPL), located about 10 km from the jetty, outside the port premises. ETTPL also owns the LTCS Propane / Butane Pipelines within the Port premises. After blending of propane and butane at IPPL's import terminal, LPG is loaded into road trucks for distribution to bottling plants in various parts of Tamil Nadu.

The proposed Ennore-Chennai-Tiruchirappalli-Madurai LPG pipeline will emanate from IPPL LPG refrigerated terminal and will also be connected to CPCL Refinery at Manali for transportation of LPG.

The proposed LPG pipeline is expected to transport imported LPG from ships, LPG from IPPL's Terminal and LPG from CPCL refinery. At the moment, most of the movement of LPG from IPPL Terminal at Ennore and CPCL Refinery is by tank trucks and Pipelines will greatly facilitate the LPG logistics in South India.

Most of LPG (greater than 90% of total volumes) is being handled / bottled by Oil / Gas PSUs. This percentage will come down as LPG business is slowly opened up in future.



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IMC is an Oil & Gas Infrastructure company and provides logistics services to other parties & intends to do the same with LPG pipelines. It will carry its own LPG volumes that will be mainly for Industrial usage and its percentage will grow with passage of time.

This is the existing business Model of IMC and it is an excellent opportunity to provide LPG infrastructure in south India, where IMC has its major business strengths.

Kindly process the subject EOI as soon as possible.

Thanking you,

**Yours Sincerely  
for IMC Limited**

A handwritten signature in blue ink, appearing to read "Vimal Chopra", with a long horizontal stroke extending to the right.

**Vimal Chopra  
Sr. Vice President - BD**



**IMC LIMITED**

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Received by hand  
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21/C

9<sup>th</sup> Feb 2017

To

The Additional Adviser  
Petroleum and Natural Gas Regulatory Board  
1<sup>st</sup> Floor, World Trade Centre  
Babar Road  
New Delhi – 110001

Handwritten notes: HAA/54, 10/2/17, DA (MTA)

Kind Attn: Mr. Arvind Kumar

Dear Sir,

**Sub: Expression of Interest (EOI) to lay, build , operate or expand LPG pipeline from Ennore to Madurai**

This has reference to your letter no: Infra/PLP/43/IMC/ETMPL/01/16 dated 25<sup>th</sup> Jan 2017.

Please find below our response to your queries.

- 1) **Route of the Pipeline:** In the Eoi, IMC has not provided the detailed route of the pipeline with probable delivery points. Therefore, it is advised to submit the detailed route covering the main districts/ cities, through which the pipeline will pass and the likely delivery points falling in the proposed route.

**IMC response:**

The proposed LPG Pipeline will originate from Ennore and will pass through various districts/cities namely Manali, Chennai, Chenglepet, Madurantakam, Tindivanam, Villupuram, Perambalur, Asanur, Tiruchirapalli and Madurai

The proposed pipeline will carry imported LPG from the LPG import terminal being operated at Ennore by Indian Oil Petronas Pvt Ltd (IPPL). The IPPL Terminal receives imported LPG from the Liquid Jetty operated by Ennore Tank Terminals Pvt Ltd (ETTPL) at Kamarajar Port (earlier known as Ennore Port).

The proposed pipeline will pass near Chennai Petroleum Corporation Limited (CPCL) refinery at Manali, Chennai. It is envisaged that LPG produced by CPCL refinery will also be pumped into the proposed pipeline for onward transportation.

The likely key delivery points would be the existing bottling points of OMCs located at Ennore, Chennai, Chengelpet, Madurantakam, Tiruchirappalli and Madurai. From Tiruchirapalli, LPG can be transported through trucks to the existing Thanjavur and Mannargudi bottling points.

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It is expected that new bottling plants of OMCs and private sector companies are likely to come up along the pipeline route, from where LPG can be further distributed to other cities/districts.

The detailed route map of the pipeline from Ennore to Madurai showing the districts/cities is enclosed at (Annexure-1).

**2. LPG availability:** It has been simply informed that around 1 MMTPA of imported LPG can be transferred from Ennore to Madurai via Tiruchirapalli. Neither any concrete future plan of LPG import nor any documentary proof in this regard has been submitted in this regard. Hence, to substantiate the volume proposed, IMC Ltd should confirm the availability of LPG and future off-take plan over the next 20 years along with sufficient documentary evidence.

**IMC Response:**

There is adequate LPG availability in the region to feed the proposed Pipeline. The proposed LPG pipeline will have two main sources - imported LPG from Ennore and indigenous LPG from CPCL refinery at Manali, which is about 20 km from Ennore.

The availability of LPG for the proposed pipeline is summarized below:

Year	LPG production at CPCL refinery (MMTPA)	LPG imports through ETTPL Jetty at Kamarajar (Ennore) Port (MMTPA)	Total LPG availability (MMTPA)
2012-13	0.31	0.60	0.91
2013-14	0.35	1.07	1.42
2014-15	0.33	1.29	1.62
2015-16	0.28	1.43	1.71

We are enclosing documentary support as below:

- (a) Ministry of Petroleum and Natural Gas statistics for LPG production at CPCL refinery (Annexure-2)
- (b) Statement of year wise LPG imports from Ennore Tank Terminals Pvt Ltd (Annexure-3)

The total LPG availability from CPCL refinery is about 0.3 MMTPA. LPG supplies via Kamarajar (Ennore) Port was about 1.43 MMTPA in 2015-16. Hence the total availability of LPG was 1.71 MMTPA.

**3. Potential Demand of LPG:** The projected demand is given around 1.5 MMTPA without any proper justification or back-up. A justification of the long term demand along with the commitment of potential customers/shippers should be submitted.

**IMC response:**

The total consumption of LPG in Tamilnadu and adjoining areas was about 1.71 MMTPA in 2015-16. On an all India level, LPG demand increased to 19.55 MMT in 2015-16, a growth of 8.6 percent. The Government of India has initiated several steps to achieve higher penetration of LPG across the length and breadth of the country.

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LPG demand is expected to grow at 7-9 percent in the future years. In respect of Tamilnadu region, the increase in demand of LPG in future would have to be met by imports.

With demand increasing at 7 percent per annum, the projected requirement of LPG in the coming years would be as below:

Year	LPG demand MMTPA (domestic + imports)
2017-18	1.80
2018-19	1.93
2019-20	2.07
2020-21	2.21
2021-22	2.37
2024-25	2.90
2029-30	4.07

From the above long term projections, the potential demand of 1.5 MMTPA is well justified. The potential users of the proposed LPG pipeline would be the Oil Marketing Companies viz, IOCL, BPCL and HPCL and the private sector refining and LPG marketing companies.

Yours truly,

for **IMC Limited**

A handwritten signature in blue ink, appearing to read 'Vimal Chopra'.

**Vimal Chopra**  
**Sr. Vice President – Business Development**



Date: February 08, 2017

**To Whom So Ever It May Concern**

**LPG imports at Kamarajar (Ennore) Port**

This is to confirm that, we, Ennore Tank Terminals Pvt Ltd., have set up a Marine Liquid Terminal, comprising jetty and storage tank facility at Kamarajar Port (earlier known as Ennore Port) on Build, Operate and Transfer basis. The Liquid Terminal is operational and handles petroleum products, chemicals and LPG.

LPG imports through our terminal (Jetty) during the last five years are as under:

Year	Import quantity (Million Metric Tonnes)
2011-12	- NIL
2012-13	- 0.604
2013-14	- 1.065
2014-15	- 1.294
2015-16	- 1.435

Regards

**For Ennore Tank Terminals Private Limited.**

**Authorized Signatory**

III.4 Refinery-wise Production of Petroleum Products during 2015-16 (P)

Refinery/Plant	(in TMT)														Total Production	Fuel & Losses	Crude Processed
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)			
IOC, Guwahati	39	223	17	32	109	625	-1	0	0	0	0	0	59	0	1103	117	904
IOC, Barauni	336	1219	221	0	764	3295	0	61	-7	0.00	0	0	147	0	6079	574	6545
IOC, Koyali	554	1783	762	400	776	7050	18	456	0	367	0	0	808	0	13246	1270	13820
IOC, Haldia	245	546	487	373	885	2864	0	863	0	651	157	0	0	0	7133	676	7776
IOC, Mathura	445	1311	501	477	492	3224	0	1200	0	770	0	0	0	0	8640	719	8860
IOC, Digboi	9	83	1	0	11	263	33	76	0	0	0	0	34	26	541	63	562
IOC, Panipat	767	1715	1499	1262	717	7023	0	248	0	320	0	0	932	0	15501	1475	15282
IOCL, Bongaigaon, Assam	58	155	184	6	123	1442	98	34	0	0	0	0	153	0	2253	209	2442
IOCL, Paradip, Odisha	87	29	214	5	106	610	0	0	0	0	0	0	56	0	1107	456	1817
BPCL, Mumbai:	490	2140	744	804	311	6202	68	858	29	557	270	0	0	0	12802	605	13371
BPCL, Kochi	558	2067	391	480	208	5377	23	679	52	223	0	0	0	0	10164	645	10712
BPCL, Mumbai	405	1377	353	448	224	2708	95	620	0	610	423	0	0	0	7468	628	8013
HPCL, Vishakhapatnam	419	1655	354	97	551	3760	96	955	-2	587	0	0	0	0	8558	706	9220
CPCL(MRL), Manali	282	955	580	643	300	3669	0	943	0	564	188	0	0	21	8330	877	9100
CPCL(MRL), Narimanam	19	0	207	0	22	209	0	0	94	0	0	0	0	0	550	25	544
NRL, Numaligarh	46	511	-11	67	134	1652	0	0	0	0	0	0	96	23	2521	148	2520
MRPL, Mangalore	803	1165	1574	1001	563	6454	0	604	71	183	0	0	857	0	14166	1543	15532
ONGC, Tatipaka	0	0	16	0	3	25	0	0	22	0	0	0	0	0	66	1	67
RPL, Jamnagar	373	2566	5972	2617	0	9328	0	1015	0	0	0	0	2805	0	32331	2582	32428
RPL, SEZ	813	9959	1681	1973	0	15999	0	679	0	0	0	0	3746	0	41089	3429	37133
EOI, Vadinar	761	3163	744	479	206	9161	0	177	0	324	0	0	2120	0	18315	1101	19101
BOIL, Bina	208	1095	-1	369	616	3037	0	0	0	0	0	0	487	0	5916	451	6402
HMEL, Bathinda	844	1604	263	251	318	4591	0	0	0	0	0	0	1021	0	10029	686	10713
Total Refinery	8562	35321	16751	11786	7438	98579	429	9468	259	5157	1037	0	13322	70	227908	18986	232865
Fractionators	2006	0	1110	3	65	8	0	0	0	0	0	0	0	0	4016	0	0
Grand Total	10568	35321	17861	11789	7504	98588	429	9468	259	5157	1037	0	13322	70	231924	18986	232865

Source: Oil Companies  
P: Provisional

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III.3(b) Refinery-wise Production of Petroleum Products during 2012-13

Refinery	(Figures in TMT)																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
	LPG	Motor Spirit	Naphtha	Aviation Turbine Fuel	Superior Kerosene Oil	High Speed Diesel	Light Diesel Oil	Furnace Oil	Low Sulphur Heavy	Bitumen	Lube Oil	Petroleum Coke	Fuel & Losses	Total Production	Crude		
<b>(a) PUBLIC SECTOR</b>	<b>4529</b>	<b>13374</b>	<b>8807</b>	<b>6461</b>	<b>6399</b>	<b>50330</b>	<b>400</b>	<b>10445</b>	<b>1364</b>	<b>4486</b>	<b>896</b>	<b>1923</b>	<b>10160</b>	<b>112329</b>	<b>120303</b>		
IOC, Digbel	8	98	-7	-	39	336	13	83	-	-	-	40	67	652	660		
IOC, Guwahati	39	138	27	58	14	622	8	-	-	-	-	55	116	881	956		
IOC, Barauni	310	975	237	-	829	3101	-4	71	-1	7	-	142	583	5732	6344		
IOC, Koyali	489	1526	785	393	815	6020	30	570	390	575	-	606	1270	12480	13155		
IOC, Haldia	218	450	545	345	718	2684	-	1038	-	515	185	-	702	6793	7490		
IOC, Mathura	305	965	636	597	421	3156	-	1099	294	570	-	-	745	8281	8561		
IOC, Panipat	713	1408	1196	1150	840	7132	-	36	93	306	-	-	1590	14112	15126		
IOC, Bongaigaon, Assam	51	206	124	-	139	1302	114	47	0	-	-	129	248	2116	2356		
BPCL, Mumbai	452	1366	1586	742	446	5354	70	1146	104	602	215	-	816	12458	13077		
BPCL, Kochi	471	1300	675	423	241	4600	-	937	218	225	-	-	720	9985	10105		
HPCL, Mumbai	435	1358	409	537	331	2211	84	847	-1	631	362	-	585	7388	7748		
HPCL, Vishakhapatnam	383	1262	251	66	582	3116	85	1026	183	395	-	-	608	7452	8028		
CPCL(MRL), Marolli	311	911	483	632	353	3227	-	1431	-	448	134	-	915	8140	9105		
NRL, Numaligarh	15	-	261	-	66	220	-	-	75	-	-	-	7	635	640		
MPL, Mangalore	48	299	108	61	147	1648	-	-	-	-	-	65	179	2973	2478		
ONGC, Talpaka	281	1102	1482	1458	411	5573	-	2113	-14	213	-	-	1009	13394	14415		
<b>(b) PRIVATE SECTOR</b>	<b>2513</b>	<b>15326</b>	<b>8130</b>	<b>3371</b>	<b>563</b>	<b>36071</b>	<b>0</b>	<b>3245</b>	<b>25</b>	<b>184</b>	<b>0</b>	<b>8154</b>	<b>7171</b>	<b>91197</b>	<b>88273</b>		
RPL, Jamnagar	753	3452	5662	2118	-	10448	-	1438	0	-	0	2837	2649	32755	32613		
RPL, SEZ	938	8930	1631	1243	-	16604	-	770	-	-	-	3578	3350	39399	35892		
EOL, Vadinar	821	2944	837	10	563	9020	-	1037	-	184	0	1739	1171	19043	19769		
<b>(c) JOINT VENTURE</b>	<b>653</b>	<b>1418</b>	<b>417</b>	<b>246</b>	<b>905</b>	<b>4683</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>867</b>	<b>1017</b>	<b>9692</b>	<b>10636</b>		
BORL, Bina	177	822	94	238	683	2715	-	-	-	-	-	410	534	5209	5732		
HMEL, Bathinda	476	596	323	8	222	1968	-	-	-	-	-	457	483	4483	4904		
<b>(d) Fractionators</b>	<b>2130</b>	<b>0</b>	<b>1664</b>	<b>11</b>	<b>103</b>	<b>18</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4518</b>	<b>-</b>		
GAIL	1078	-	137	-	-	-	-	-	-	-	-	-	-	1376	-		
ONGC (Hazira, Ujan & Ankwar)	1007	-	1527	11	103	18	-	-	-	-	-	-	-	3096	-		
OIL	46	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
<b>Grand Total</b>	<b>9825</b>	<b>30118</b>	<b>19018</b>	<b>10088</b>	<b>7971</b>	<b>91103</b>	<b>400</b>	<b>13690</b>	<b>1364</b>	<b>4670</b>	<b>896</b>	<b>10943</b>	<b>18347</b>	<b>217736</b>	<b>219212</b>		

Note: 1. Excludes other inputs from RIL Refineries Crude throughput  
2. Includes Production from Fractionators (ONGC, OIL & GAIL)

III.4 Refinery-wise Production of Petroleum Products during 2014-15\*

(Figures in TMT)

Refinery/Plant	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
	LPG	Motor Spirit	Naphtha	ATF	SKO	HSDO	LDO	Furnace Oil	LSHS	Bitumen	Lube Oil	Petroleum Coke	Waxes	Total Production	Fuel & Losses	Crude Processed	
IOC, Guwahati	41	152	27	34	80	672	-1	0	0	0	0	60	0	1067	122	1006	
IOC, Barauni	292	1113	102	0	713	2971	0	40	3	-0.03	0	132	0	5412	546	5944	
IOC, Koyali	568	1744	542	385	799	6418	15	385	121	467	0	761	0	12492	1272	13285	
IOC, Haldia	251	567	391	327	865	2879	0	893	0	558	204	0	0	7008	664	7650	
IOC, Mathura	337	1187	437	506	493	3020	0	1368	0	702	0	0	0	8243	695	8515	
IOC, Digboi	9	89	-1	0	17	327	15	69	0	0	0	35	29	591	61	591	
IOC, Panipat	674	1418	1554	1049	804	6363	0	0	27	416	0	869	0	14110	1445	14191	
IOCL, Bongaigaon, Assam	53	153	156	0	127	1448	81	28	0	0	0	139	0.00	2186	220	2403	
BPCL, Mumbai	429	1910	799	812	302	5750	58	1044	105	545	246	0	0.00	12346	611	12821	
BPCL, Kochi	526	1776	492	455	186	5255	22	662	116	185	0	0	0.00	9803	643	10356	
HPCL, Mumbai	379	1297	499	409	191	2538	70	665	-11	522	295	0	0.00	7030	556	7408	
HPCL, Vishakhapatnam	429	1545	519	77	614	3617	89	723	197	384	0	0	0.00	8241	652	8770	
CPCL (MRL), Manali	327	1050	568	704	381	4237	11	1282	0	428	201	0	24.90	9421	912	10251	
CPCL (MRL), Narimanam	15	0	137	0	12	237	0	0	137	0	0	0	0.00	539	23	531	
NR, Numaligarh	54	392	111	83	184	1833	0	0	0	0	0	93	0.00	2754	175	2777	
MRPL, Mangalore	502	1070	1332	1214	537	5683	0	1873	-43	149	0	367	0.00	13169	1479	14632	
ONGC, Tairpaka	0	0	9	0	2	20	0	0	19	0	0	0	0	50	1	51	
RPL, Jamnagar	393	2715	5599	2398	0	9957	0	1285	0	0	0	2844	0	30864	2317	30867	
RPL, SEZ	872	8848	1893	2000	0	15495	0	728	0	0	0	3600	0	39329	3234	37174	
EOL, Vadinar	768	3215	749	123	381	9598	0	203	0	275	0	2248	0	19804	1090	20491	
BORL, Bina	194	1055	35	407	544	2922	0	0	0	0	0	530	0	5782	479	6209	
HIMEL, Bathinda	548	1029	194	109	255	3180	0	0	0	0	0	770	0	6900	473	7318	
<b>Total Refinery</b>	<b>7662</b>	<b>32325</b>	<b>16145</b>	<b>11092</b>	<b>7487</b>	<b>94418</b>	<b>358</b>	<b>11248</b>	<b>671</b>	<b>4632</b>	<b>946</b>	<b>12448</b>	<b>53</b>	<b>217141</b>	<b>17669</b>	<b>223242</b>	
Gail	1095	-	1147	-	-	-	-	-	-	-	-	-	-	2674	-	-	
ONGC	1039	-	99	11	72	9	-	-	-	-	-	-	-	1277	-	-	
OIL	44	-	-	-	-	-	-	-	-	-	-	-	-	44	-	-	
Fractionators	2178	-	1246	11	72	9	-	-	-	-	-	-	-	3994	-	-	
<b>Grand Total</b>	<b>9840</b>	<b>32325</b>	<b>17391</b>	<b>11103</b>	<b>7559</b>	<b>94428</b>	<b>358</b>	<b>11248</b>	<b>671</b>	<b>4632</b>	<b>946</b>	<b>12448</b>	<b>53</b>	<b>221136</b>	<b>17669</b>	<b>223242</b>	

\*Provisional

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III.3(b) Refinery-wise Production of Petroleum Products during 2013-14\*

Refinery	Figures in TMT																	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	LPG	Motor Spirit	Naphtha	ATF	SKO	HSDO	LDO	Furnace Oil	LSHS	Bitumen	Lube Oil	Petroleum Coke	Waxes	Total Production	Fuel & Losses	Crude Throughput		
<b>(a) PUBLIC SECTOR</b>	4509	13806	8705	6810	6167	50549	423	10651	485	4521	941	2074	56	112738	9868	119547		
IOC, Digboi	8	104	-1	0	24	334	25	84	0	0	0	35	33	650	65	651		
IOC, Guwahati	45	123	31	47	59	705	5	0	0	0	0	61	0	1078	118	1019		
IOC, Barauni	317	1191	125	0	820	3249	0	67	0	-1	0	124	0	5948	582	6478		
IOC, Koyali	489	1587	721	347	806	6023	29	827	-16	557	0	681	0	12300	1257	12960		
IOC, Haldia	238	460	578	365	889	2802	0	1082	0	567	175	0	0	7233	734	7952		
IOC, Mathura	210	617	503	418	355	2354	0	1188	0	554	0	0	0	6370	594	6641		
IOC, Panipat	735	1514	1351	1334	892	6650	0	226	14	385	0	978	0	14795	1506	15098		
IOCL, Bongaigaon, Assam	48	174	134	0	174	1344	116	-1	0	0	0	128	0	2121	226	2328		
BPCL, Mumbai	416	1437	1511	760	271	5577	45	1130	72	567	239	0	0	12365	810	12684		
BPCL, Kochi	514	1529	666	466	185	4833	17	782	119	278	0	0	0	9674	648	10285		
HPCL, Mumbai	378	1329	383	501	273	2219	84	805	4	612	386	0	0	7213	534	7785		
HPCL, Vishakhapatnam	423	1348	331	40	616	3007	102	826	162	340	0	0	0	7246	588	7776		
CPCL(MRL), Manali	349	997	640	673	315	4008	0	1355	0	481	141	0	23	9169	906	10065		
CPCL(MRL), Narimanam	18	0	213	0	52	202	0	0	74	0	0	0	0	558	10	559		
NRL, Numaligarh	53	309	161	73	172	1719	0	0	0	0	0	67	0	2557	139	2613		
MRPL, Mangalore	267	1086	1350	1787	261	5502	0	2281	28	180	0	0	0	13357	1150	14589		
ONGC, Tatpaka	0	0	10	0	6	20	0	0	28	0	0	0	0	64	1	65		
<b>(b) PRIVATE SECTOR</b>	2455	14360	7808	3992	375	36560	0	2270	0	265	0	8760	0	90101	6938	88229		
RPL, Jamnagar	658	2917	5112	2423	0	10195	0	1148	0	0	0	2799	0	30815	2582	30307		
RPL, SEZ	997	8329	1898	1552	0	16782	0	718	0	0	0	3849	0	39799	3329	37720		
EOL, Vadinar	800	3114	798	17	375	9583	0	404	0	265	0	2112	0	19487	1028	20202		
<b>(c) JOINT VENTURE</b>	926	2109	525	408	796	6633	0	0	0	0	0	1234	0	13617	1061	14721		
BORL, Bina	159	876	99	297	502	2542	0	0	0	0	0	438	0	4994	468	5450		
HMEL, Bathinda	767	1233	425	111	294	4091	0	0	0	0	0	795	0	8623	593	9271		
<b>(d) Fractionators</b>	2140	-	1468	10	80	16	0	-	-	-	-	-	-	4300	-	-		
Gail	1027	-	120	-	-	-	-	-	-	-	-	-	-	1302	-	-		
ONGC (Hazira, Uran & Ank-war)	1067	-	1348	10	80	16	0	-	-	-	-	-	-	2951	-	-		
OIL	47	-	-	-	-	-	-	-	-	-	-	-	-	47	-	-		
<b>Grand Total</b>	<b>10030</b>	<b>30275</b>	<b>18505</b>	<b>11220</b>	<b>7418</b>	<b>93759</b>	<b>423</b>	<b>12920</b>	<b>485</b>	<b>4785</b>	<b>941</b>	<b>12068</b>	<b>56</b>	<b>220756</b>	<b>17868</b>	<b>222497</b>		

\*Provisional

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Annexure - 1

