



पी एन जी आर बी
PNGRB/.....1849
दिनांक.....
Dt..... 24/12/2020

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इंडियन ऑयल कॉर्पोरेशन लिमिटेड

पाइपलाइन्स प्रभाग : ए-1, उद्योग मार्ग,
सेक्टर-1, नौएडा-201301 (उ.प्र.)

Indian Oil Corporation Limited

Pipelines Division : A-1, Udyog Marg,
Sector-1, NOIDA-201301 (U.P.)

Website : www.iocl.com

E-Mail : pldivision@indianoil.in

फोन Phone : 91-120-2448844, 2448888

फैक्स } 91-120-2448031 (Vig), 2448022 (HR/A&W), 2448023 (Fin/IS),

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2448028 (PJ/Mech/T&I), 2448029 (Maint/P&C)



पाइपलाइन्स प्रभाग
Pipelines Division

PL/PJ/S/PJATFPL/I

To,

The Secretary,

Petroleum & Natural Gas Regulatory Board,
First Floor, World Trade Centre, Babar Road,
New Delhi - 110001

Subject: Expression of Interest (EoI) for Laying, Building and Operating ATF Pipeline from Palwal (Haryana) to upcoming Jewar International Airport

Respected Ma'am,

A green field international airport under National Capital Region (NCR) is under development at Jewar Village in Gautam Buddh Nagar (Uttar Pradesh). The proposed site for the airport is located at north of Jewar Village, in Gautam Buddh Nagar District of Uttar Pradesh.

As traffic at Indira Gandhi International Airport (IGIA) continues to grow, part traffic from IGIA is expected to spill over to the proposed airport at Jewar. It is expected that in next 30 years, passenger traffic of upcoming Jewar airport is expected to be that of present-day passenger handling at IGIA, Delhi. Therefore, in the long-term, the expected ATF demand for Jewar airport would be too significant to be transported by existing road mode.

A fuel farm location is proposed in the Western part of the upcoming Jewar airport site. The required fuel infrastructure for the initial phases is planned to be built prior to the opening of the airport and the facility could then be expanded in phases to meet future demand. However, presently, there is no product pipeline of any OMCs/ entity passing in the vicinity of proposed Jewar airport location. In the absence of product pipeline, ATF would have to be transported through road movement, which would not be a safer option in already highly congested Delhi-NCR traffic.

Presently, IOCL operates two refineries in proximity of NCR namely Mathura and Panipat refinery, which are interconnected through Mathura - Delhi (Bijwasan) Product Pipeline and Panipat - Bijwasan Pipeline. Mathura - Delhi Pipeline en route to Bijwasan Terminal passes through Palwal located at about 80 km from Mathura refinery.

Contd.

सी.आई.एन. : एल23201एमएच1959जीओआई011388

CIN : L23201MH1959GOI011388

पंजीकृत कार्यालय : जी-9, अली यावर जंग मार्ग, बान्द्रा (पूर्व), मुम्बई-400 051 (भारत)
Regd. Office : G-9, Ali Yavar Jung Marg, Bandra (East), Mumbai-400 051 (India)

M. Sarwan

JA (Auth) December 24, 2020
AC(A-2)
24/12
JA/4 (Auth)

Considering the inherent advantages of pipeline transportation and operational necessity for connecting upcoming Jewar airport through pipeline, we submit herewith our 'Expression of Interest' to lay, build and operate a common carrier ATF Pipeline from Palwal (Haryana) to upcoming Jewar International Airport.

Salient details of proposed Palwal - Jewar ATF Pipeline are as under.

- ❖ **Length:** 36 km; based on desktop study
- ❖ **Pipeline Size:** 14" OD x 0.25" WT; API 5L X60 grade
- ❖ **Capacity:** 2.5 MMTPA (including common carrier capacity)
- ❖ **Originating Pump Station:** Palwal Pumping Station
- ❖ **Delivery Station(s):** Jewar Airport Terminal Station

We are also enclosing following documents for your perusal.

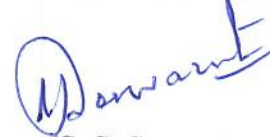
- (i) Detailed application form as prescribed (**Schedule-A**) for submitting EoI along with an indicative Route Map (**Annexure-I**)
- (ii) Statement of Minimum Eligibility Conditions with details of experience in Hydrocarbon Pipelines (**Annexure-II**) along with
 - List of pipelines designed and built by IOCL as **Annexure-II (a)**,
 - List of pipelines operated by IOCL as **Annexure-II (b)**.
- (iii) Application Fee of Rs.1,00,000/- (Rupees One Lakh only) vide Demand Draft No. 823444 Dated 23.12.2020 drawn on SBI, New Delhi is also enclosed.

You are requested to kindly process our application for the subject pipeline and initiate the process to grant authorization at the earliest.

Thanking you,

Encl. As above.

Yours Sincerely,



(S. S. Sawant)

CGM(PJ-Systems)

Indian Oil Corporation Limited

एस. एस. सावंत / S. S. Sawant
मुख्य महाप्रबंधक (परियोजना - प्रणाली)
Chief General Manager (Projects-Systems)
इंडियन ऑयल कॉर्पोरेशन लिमिटेड
INDIAN OIL CORPORATION LIMITED
(पाइपलाइन्स प्रभाग/Pipelines Division)
ए-1, उद्योग मार्ग, सेक्टर-1, नोएडा-201301
A-1, UDYOG MARG, SECTOR-1, NOIDA - 201301

Schedule A

[see regulations 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 the Petroleum and Natural Gas Regulatory Board (Authorizing Entities to Lay, Build, Operate or Expand Petroleum and Petroleum Products Pipelines) Regulations, 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 conditions as per Regulations is attached as **Annexure-II**.

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

1.	General Details	Particulars
A.	Name of the Entity	Indian Oil Corporation Limited
B.	Type of firm – Public Limited Company / Private Limited Company / Partnership firm / Proprietorship firm / Others (please specify)	Public Sector Undertaking (A Govt. of India Enterprise)
C.	Date of incorporation and date of commencement of business	13.6.1959 as Indian Oil Company Limited. Upon merger with Indian Refineries Limited on 1.9.1964, name of the company was changed to Indian Oil Corporation Limited
D.	Address of the Registered office	Indian Oil Bhavan, G-9, Ali Yavar Jung Marg, Bandra (East), Mumbai-400051
E.	Name, addresses, telephone numbers, e-mails of all directors / partners / proprietor.	Enclosed as Annexure-A-1
2.	Primary Technical Data	A green field international airport is under development at Jewar Village in Gautam Buddh Nagar (Uttar Pradesh). ATF tank storage facilities at Jewar airport terminal to support safe and

(Signature)

1.	General Details	Particulars
		<p>continuous operation has been contemplated in phase-I of airport development for receipt of ATF by pipeline.</p> <p>Presently, there is no product pipeline of any OMCs / entity passing in the vicinity of proposed Jewar airport location. In the absence of product pipeline, ATF would have to be transported through road movement, which would not be a safe option in already highly congested Delhi-NCR traffic.</p> <p>The proposed pipeline connectivity from Palwal (Haryana) to upcoming Jewar International Airport would ensure uninterrupted supply of ATF to meet Jewar Airport requirement in a safe, eco-friendly and reliable manner.</p>
A.	Point of origin and the end point of the proposed petroleum and petroleum products pipeline	<p>Point of Origin- Palwal End Point- Jewar Airport Fuel Farm Proposed Length – Approx. 36 km Product to be transported - ATF</p>
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	<p>Enclosed as Annexure-I</p> <p>Injection Point- Palwal in the state of Haryana; [where IOCL would develop its own ATF storage facility by receiving ATF from Mathura refinery]</p> <p>Delivery Point- Aviation Fuel-Farm Location within Jewar Airport</p>
C.	Petroleum products availability position	<p>ATF demand of Jewar would be supplied from Palwal (Haryana). ATF at Palwal would be sourced from IOCL's Mathura Refinery.</p>
D	Potential demand of petroleum products en route the petroleum and petroleum product pipeline	<p>Projected ATF demand is estimated to about 0.7 MMTPA by 2029-30 and 1.8 MMTPA by 2039-40</p>



1.	General Details	Particulars
E	Assessment of total volume for transportation in the proposed petroleum and petroleum products pipeline	Projected ATF demand for transportation through proposed pipeline is estimated to about 0.7 MMTPA by 2029-30
F	Any other issue considered as relevant by the entity	Nil
3	Application fee of Rs.1,00,000 paid vide demand draft/ pay order number <__> and dated <__> drawn on <name of bank and branch>.	Demand Draft No. 823444 Dated 23.12.2020 drawn on SBI, New Delhi

Date: 24.12.2020

Place: NOIDA, U.P.

Name and signature of entity or authorized signatory

Official Seal

एस. एस. सावंत / S. S. Sawant
 मुख्य महाप्रबंधक (परियोजना - प्रणाली)
 Chief General Manager (Projects - Systems)
 इंडियन ऑयल कॉर्पोरेशन लिमिटेड
 INDIAN OIL CORPORATION LIMITED
 (पाइपलाइन्स प्रभाग/Pipelines Division)
 ए-1, उद्योग मार्ग, सैक्टर-1, नोएडा-201301
 A-1, UDYOG MARG, SECTOR-1, NOIDA - 201301

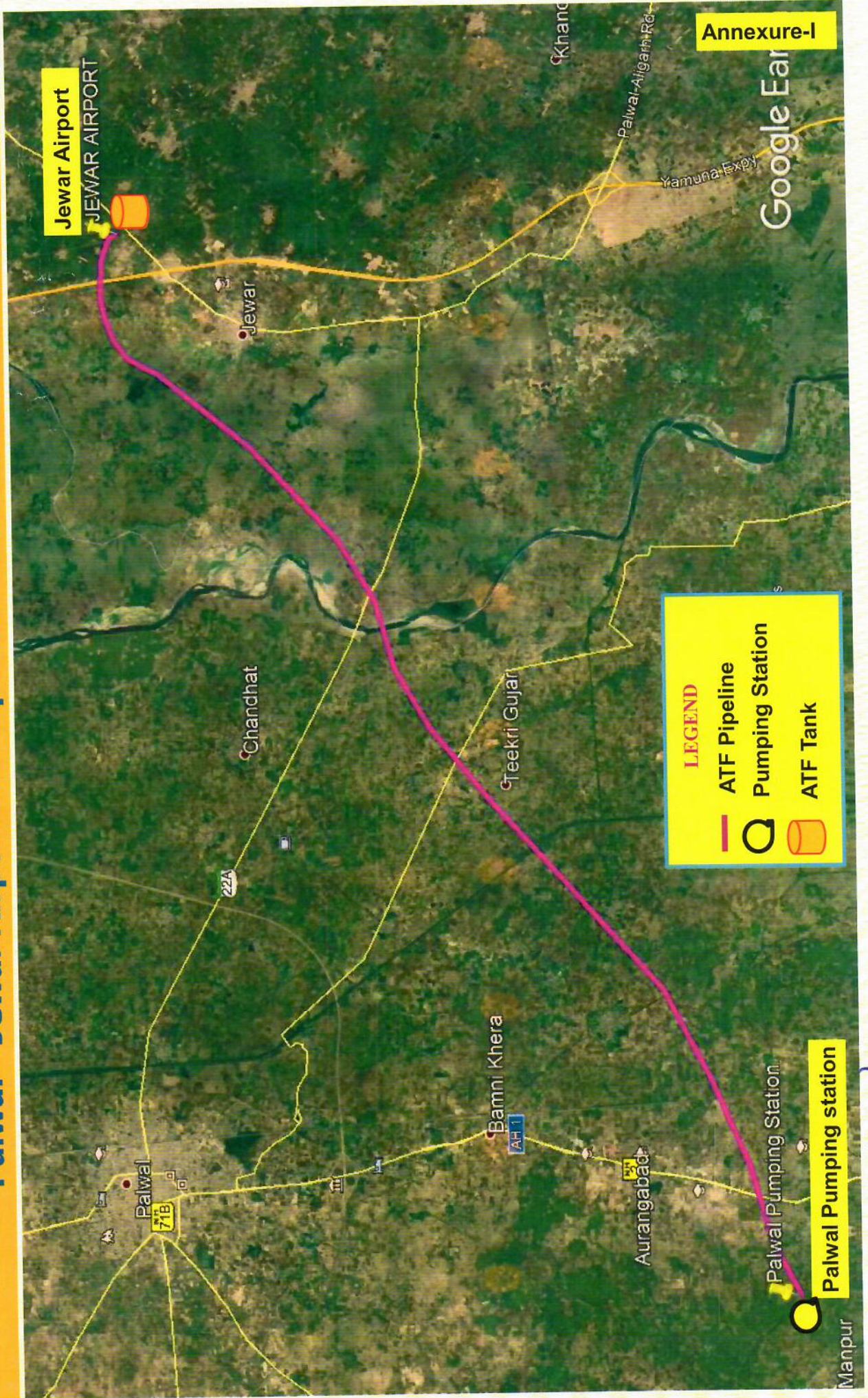
INDIAN OIL CORPORATION LIMITED

LIST OF BOARD OF DIRECTORS EFFECTIVE 22ND SEPTEMBER, 2020

1. **Shri Shrikant Madhav Vaidya
Chairman**
Indian Oil Corporation Limited
Corporate Office
Plot 3079/3, Sadiq Nagar
J.B.Tito Marg
New Delhi-110 049.
2. **Shri G.K.Satish
Director (Planning & Business
Development)**
Indian Oil Corporation Limited
IndianOil Bhavan
No.1, Sri Aurobindo Marg
Yusuf Sarai
New Delhi-110 016.
3. **Dr.S.S.V.Ramakumar
Director (R&D)**
Indian Oil Corporation Limited
R&D Centre
Sector 13
Faridabad-121 002.
Haryana.
4. **Shri Ranjan Kumar Mohapatra
Director (Human Resources)**
Indian Oil Corporation Limited
Corporate Office
Plot 3079/3
Sadiq Nagar
J.B.Tito Marg
New Delhi-110 049.
5. **Shri Gurmeet Singh
Director (Marketing)**
Indian Oil Corporation Limited
(Marketing Division)
IndianOil Bhavan,
G-9, Ali Yavar Jung Marg
Bandra (East)
Mumbai – 400 051.
6. **Shri Akshay Kumar Singh
Director (Pipelines)**
Indian Oil Corporation Limited
A-1, Udyog Marg
Sector-1
Noida-201 301.
7. **Shri Sandeep Kumar Gupta
Director (Finance)**
Indian Oil Corporation Limited
Corporate Office
Plot 3079/3, Sadiq Nagar
J.B.Tito Marg
New Delhi-110 049.
8. **Dr. Navneet Mohan Kothari
Government Director
Joint Secretary(M), MoP&NG**
Shastri Bhavan
New Delhi – 110 001.
9. **Smt.Indrani Kaushal
Government Director
Economic Adviser, MoP&NG**
Shastri Bhavan
New Delhi – 110 001.
10. **Shri Rajendra Arlekar
Independent Director**
H.No. G-1, Golden Hill Apartments
Near Ambabai Temple
Mangor Hill, Vasco-Da-Gama
South Goa
Goa-403 802.
11. **Ms.Lata Usendi
Independent Director**
House 644, Ward 18
Sargipalpara
Bastar
Kondagaon-494 226
Chhattisgarh.



Palwal - Jewar Airport ATF Pipeline - Indicative Route Map



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S. No.	Regulation Reference	Criteria/Condition	Submission
		shall have the freedom to choose such firms at the time of execution of the project and the Board reserves the right to cross verify the credential of the firms included in the list and seek clarifications.	
		(iv) entity has an 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 products pipeline project on a standalone basis;	Yes. IOCL has a dedicated pipeline projects team of more than 400 qualified and experienced personnel. IOCL has already built number of petroleum pipelines and is operating and maintaining 14,864 km of hydrocarbon pipelines.
3	5(6)c	Entity is technically capable of operating and maintaining petroleum and petroleum products pipeline as per the following qualifying criteria, namely:-	
		(i) entity on its own has an experience of at least one year in operations and maintenance of a petroleum and petroleum products pipeline of a length not less than three hundred kilometers on a cumulative basis;	IOCL operates largest liquid hydrocarbon pipeline network in the country. List of petroleum product pipelines under operation is attached as Annexure-II(b) .
		(ii) entity has a joint venture with another entity (with at least eleven per cent. holding of that entity) which has an experience of at least one year in operations and maintenance of a petroleum and petroleum products pipeline;	Not Applicable
		(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;	Not Applicable

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S. No.	Regulation Reference	Criteria/Condition	Submission
		(iv) entity has an 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;	Yes. IOCL, in its Pipelines Division, has more than 2200 highly qualified and experienced personnel located across the country, managing operation and maintenance of 14,864 km of petroleum pipelines.
4	5(6)d	The entity has adequate financial strength to execute the proposed petroleum, petroleum products pipeline project and operate and maintain the same.	Yes. A copy of Annual Financial report for 2019-20 is attached Annexure-II(c) .
5	5(6)e	The entity, on being declared as a successful bidder and not being a company registered under the Companies Act, 1956, shall convert itself into a company registered under the Companies Act, 1956;	Not Applicable; entity already registered under the Companies Act, 1956.
6	5(6)f	The entity shall have a plan for utilization of the capacity in the proposed petroleum and petroleum products pipeline	The pipeline envisages connectivity to the upcoming International Airport at Jewar (U.P.) for supply of ATF to Jewar Airport from Palwal . The pipeline capacity has been determined considering long-term demand of next 25 years.
7	5(6)g	The entity shall furnish a bid bond in the form of Bank Guarantee along with the submission of the application-cum-bid as per the applicable regulations	It would be submitted at an appropriate time, as advised by PNGRB as per the applicable regulations
8	5(6)h	Entity submitting the bid should not have charges framed under Chapter IX of the Act or have been punished or imposed any penalty under section 28;	No charges have been, framed & and No penalties imposed on IOCL under the Act.
9	5(6)i	The entity agrees to build extra capacity in the petroleum and petroleum products pipeline as per the regulations	Agreed to.

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List of Pipelines laid & built by IOCL

S.No.	Pipeline	Year of Commissioning	Length (km)	Dia(inch)	Capacity (MMTPA)
Common Carrier Pipelines					
Common Carrier Products pipelines excluding LPG					
1	Chennai Trichy Madurai Pipeline	2005/2012	683	14/12/10	2.30
2	Paradip Raipur Ranchi Pipeline	2016/2017	1073	18/16/14/12/10	5.00
3	Devangonhi Devanhalli Pipeline	2008	36	8	0.66
Total Products pipelines excluding LPG			1792		7.96
Natural Gas Pipelines					
S.No.	Pipeline	Year of Commissioning	Length (km)	Dia(inch)	Capacity (MMSCMD)
1	Dadri Panipat R-LNG Pipeline	2010/2012/2014	141	30	9.50
2	Ennore-Thiruvallur-Bengaluru-Puducherry-Nagapattinam- Madurai-Tuticorn R-LNG Pipeline	2019	22	16/6	12.19
Total Natural Gas pipelines			163		21.69
Total Common Carrier Pipelines (Product+ Natural Gas Pipelines)			1955		7.96 MMTPA + 21.69 MMSCMD
Captive Pipeline					
Products pipelines excluding LPG					
S.No.	Pipeline	Year of Commissioning	Length (km)	Dia(inch)	Capacity (MMTPA)
1	Koyali Sanganer Pipeline with extension upto Panipat via JPNPL	1996/2003/2012/2015/2017/2019	1644	18/12/10/22/16	5.00
2	Koyali Dahej Pipeline	2006	197	14	2.60
3	Koyali Ratlam Pipeline	2009	265	16	2.00
4	Panipat Bhatinda Pipeline	1996	219	14	1.50
5	Panipat Rewari Pipeline	2004/2014	155	12	2.10
6	Panipat Ambala Jalandhar Pipeline and branch line to Una	1982/2003/2019	495	14/12/10	3.50
7	Panipat Delhi Pipeline	1982/2012	189	14/10	3.00
8	Panipat Bijwasan ATF line	2010	111	10	3.70
9	Mathura Delhi Pipeline	1982	147	16	1.20
10	Mathura Tundla Pipeline	2003	56	16	2.45
11	Mathura Bharatpur Pipeline	2010	21	8	0.18
12	Chennai Bangalore Pipeline	2010/2012	290	14/12	0.20
13	Chennai Meenambakkam ATF Pipeline	2008	95	8	
14	Kolkata ATF pipeline	2018	27	8	
Total (Product pipelines excluding LPG)			3911		27.43
LPG Pipelines					
S.No.	Pipeline	Year of Commissioning	Length (km)	Dia(inch)	Capacity (MMTPA)
1	Panipat Jalandhar LPG Pipeline	2008/2018	280	12/10	0.7
2	Paradip Haldia Durgapur LPG Pipeline	2017/2020	873	10	1.27
Total (LPG Pipelines)			1153		1.97
Crude oil pipelines					
S.No.	Pipeline	Year of Commissioning	Length (km)	Dia(inch)	Capacity (MMTPA)
1	Salaya Mathura Pipeline	1978/2015/2017	2660	42/28/24	25.00
2	Mundra Panipat Pipeline	1996/2006	1194	28/22	8.40
3	Paradip Haldia Barauni Pipeline	1999/2009/2012/2015/2016	1447	48/36/30/18	15.20
Total (Crude Oil Pipelines)			5301		48.60
Total Captive Pipelines (Product+LPG+Crude Oil Pipelines)			10365		78.00
Total IOCL Pipelines (Common Carrier + Captive Pipeline)			12320		85.96 MMTPA + 21.69 MMSCMD

List of Pipelines Operated by IOCL

S.No.	Pipeline	Year of Commissioning	Length (km)	Dia(inch)	Capacity (MMTPA)
Common Carrier Pipeline					
Products pipelines excluding LPG					
1	Chennai Trichy Madurai Pipeline	2005/2012	683	14/12/10	2.30
2	Paradip Raipur Ranchi Pipeline	2016/2017	1073	18/16/14/12/10	5.00
3	Devangonhi Devanhalli Pipeline	2008	36	8	0.66
Total Products pipelines excluding LPG			1792		7.96
Natural gas pipelines					
S.No.	Pipeline	Year of Commissioning	Length (km)	Dia(inch)	Capacity (MMSCMD)
1	Dadri Panipat R-LNG Pipeline	2010/2012/2014	141	30	9.5
2	Ennore-Thiruvallur-Bengaluru-Puducherry-Nagapattinam- Madurai-Tuticorn R LNG Pipeline	2019	22	16/6	12.19
Total Natural Gas pipelines			163		21.69
Total Common Carrier Pipelines (Product+ Natural Gas Pipelines)			1955		7.96 MMTPA + 21.69 MMSCMD
Captive Pipeline					
Products pipelines excluding LPG					
S.No.	Pipeline	Year of Commissioning	Length (km)	Dia(inch)	Capacity (MMTPA)
1	Koyali Ahmedabad Pipeline	1966/2017	79	8	1.1
2	Koyali Sanganer Pipeline with extension upto Panipat via JPNPL	1996/2003/2012/2015/2017/2019	1644	18/12/1022/16	5.00
3	Koyali Dahej Pipeline	2006	197	14	2.60
4	Koyali Ratlam Pipeline	2009	265	16	2.00
5	Barauni Kanpur Pipeline	1966/2017/2019	1227	12/20/2010	3.50
6	Haldia Mourigram Rajbandh Pipeline	1972	277	12	1.35
7	Haldia Barauni Pipeline	1967/2014	526	12	1.25
8	Guwahati Siliguri Pipeline	1964	435	8	1.40
9	Panipat Bhatinda Pipeline	1996	219	14	1.50
10	Panipat Rewari Pipeline	2004/2014	155	12	2.10
11	Panipat Ambala Jalandhar Pipeline and branch line to Una	1982/2003/2019	495	14/12/10	3.50
12	Panipat Delhi Pipeline	1982/2012	189	14/10	3.00
13	Panipat Bijwasan ATF line	2010	111	10	3.70
14	Mathura Delhi Pipeline	1982	147	16	1.20
15	Mathura Tundla Pipeline	2003	56	16	2.45
16	Mathura Bharatpur Pipeline	2010	21	8	0.18
17	Chennai Bangalore Pipeline	2010/2012	290	14/12	0.20
18	Chennai Meenambakkam ATF Pipeline	2008	95	8	
19	Kolkata ATF pipeline	2018	27	8	
Total (Product pipelines excluding LPG)			6455		36.03
LPG Pipelines					
S.No.	Pipeline	Year of Commissioning	Length (km)	Dia(inch)	Capacity (MMTPA)
1	Panipat Jalandhar LPG Pipeline	2008/2018	280	12/10	0.7
2	Paradip Haldia Durgapur LPG Pipeline	2017/2020	873	10	1.27
Total (LPG Pipelines)			1153		1.97
Crude oil pipelines					
S.No.	Pipeline	Year of Commissioning	Length (km)	Dia(inch)	Capacity (MMTPA)
1	Salaya Mathura Pipeline	1978/2015/2017	2660	42/28/24	25
2	Mundra Panipat Pipeline	1996/2006	1194	28/22	8.4
3	Paradip Haldia Barauni Pipeline	1999/2009/2012/2015/2016	1447	48/36/30/18	15.2
Total (Crude Oil Pipelines)			5301		48.6
Total Captive Pipelines (Product+LPG+Crude Oil Pipelines)			12909		86.6
Total IOCL Pipelines (Common Carrier + Captive Pipeline)			14864		94.56 MMTPA + 21.69 MMSCMD