

**J-11011/72/2015-IA II (I)**  
**Government of India**  
**Ministry of Environment, Forest and Climate Change**  
**(I.A. Division)**

**Indira Paryavaran Bhawan**  
**Aliganj, jorbagh Road**  
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**Dated: 24<sup>th</sup> February, 2016**

To,

The General Manager (PJ- Monitoring)  
M/s Indian Oil Corporation Ltd. (Pipelines Division)  
Indian Oil Corporation Ltd. G-9, Ali Yavar Jung Marg  
Bandra (east), Mumbai,  
Maharashtra-400051

**Fax.: 120-2448844; 0120-2448888**

**Subject: Salaya-Mathura pipeline (SMPL) system feeds crude oil to the three landlocked refineries of Indian Oil viz. Koyali, Mathura and Panipat by M/s IOCL – Environmental Clearance reg.**

**Ref.: Your online proposal no. IA/GJ/IND2/27024/2015 dated 24<sup>th</sup> July, 2015.**

Sir,

This has reference to your online proposal no. IA/GJ/IND2/27024/2015 dated 24<sup>th</sup> July, 2015 alongwith project documents including Form 1, Prefeasibility Report, Draft Terms of References and EIA/EMP report on the above mentioned subject.

2.0 The Ministry of Environment, Forest and Climate Change has examined the application. It is noted that the proposal is for debottlenecking of Salaya Mathura Pipeline(SMPL) to augment the existing crude oil supply chain by laying a new underground pipeline originating from Moda (Gujarat) and after traversing through Rajasthan will terminate at Manpuria (Dausa district). Further an additional pipeline will be laid in Rewari District of Haryana. The total length of the pipeline will be 798 kms (approx.). Out of 798 kms (approx.) of new Pipeline, 287 kms of Pipeline would be laid in the State of Gujarat, 498 kms of Pipeline would be laid in the State of Rajasthan and 13 Kms of Pipeline would be laid in the state of Haryana. The crude supply from this pipeline will be fed to IOCL's three inland refineries Koyali (Gujarat), Mathura (Uttar Pradesh) and Panipat (Haryana) to meet their increased capacities. In order to cater to the peak processing crude oil requirement of Mathura, Panipat (post P-15) and Koyali refineries in the short term, it is proposed to debottleneck/augment the capacity of Salaya-Viramgam section from 21 MMTPA to 25 MMTPA, Viramgam-Koyali section from 8.5 MMTPA to 9 MMTPA, Viramgam-Chaksu section from 13.5 MMTPA to 16.5 MMTPA, Chaksu-Mathura section from 7.5 MMTPA to 9.2 MMTPA and Chaksu-Panipat section from 6 MMTPA to 7.3 MMTPA. Besides replacement of 17 old MLPUs/ Engines of SMPL is under consideration for approval. The same has also been considered in the project scheme. The pipeline alignment is within 10 km range of two wildlife sanctuaries namely Jessore Sloth Bear Sanctuary (2.7 Km) and Balaram – Ambaji Wildlife sanctuary in Banaskantha District, Gujarat (0.09 km). Cost of project is Rs. 1584 Crore. Pipeline will pass Gujarat, Rajasthan and Haryana. Forest area of 5.03 ha is involved in the said project. It is reported that for Gujarat, 1<sup>st</sup> Stage Forest Clearance received on 29.01.2013, 2<sup>nd</sup> Stage Forest Clearance received on 27.01.2014 for 6 districts. In principle forest clearance for Banaskantha district received on



25.02.2015. For Rajasthan, 1<sup>st</sup> and 2<sup>nd</sup> stage Forest clearance received on 10.05.2013 & 08.08.2013 respectively. Final stage of forest clearance received on 20.11.2014. Following is the list of utilities and associated facilities:

S. N.	Parameter	Vadinar	Rajkot	Surendra nagar	Viramgam	Sidhpur	Remarks
1	Existing Land (acres)	290	7.41	7	245	4.45	No additional land is acquired
2	Additional Process Water Requirement KL/Day	Nil	0.25	Nil	0.25	Nil	Will be met through existing source
3	Power Requirement	Being enhanced 3.5 MVA to 7.2 MVA	Being enhanced from 400 KVA TO 500 KVA	No change	Being enhanced from 2.5 MVA to 8.6 MVA	No change	Arranged through State Electricity Board
4	Additional Domestic Water Requirement KL/Day	Nil	Nil	Nil	Nil	Nil	No change in operating manpower setup
5	Additional Sanitary Facilities	Nil	Nil	Nil	Nil	Nil	No change in operating manpower setup
6	Colony for Operatinon Staff	Existing	Existing	Existing	Existing	Existing	No change in operating manpower setup

S. No.	Parameter	Abu Road	Rajola	Chaksu	Rewari	Remarks
1	Existing Land (acres)	15.1	7.04 +5.04*	115	14.33	*No additional land is acquired except at Rajola, where 5 acre land has been acquired
2	Additional Process Water Requirement KL/Day	0.5	0.5	Nil	Nil	Will be met through existing source
3	Power Requirement	Being enhanced from 350 KVA to 500 KVA	Being enhanced from 195 KVA to 400 KVA	Being enhanced from 1.1 MVA to 6.5 MVA	Being enhanced from 4.5 MVA to 5.5 MVA	Arranged through State Electricity Board
4	Additional Domestic Water Requirement KL/Day	Nil	Nil	Nil	Nil	No change in operating manpower setup
5	Additional Sanitary Facilities	Nil	Nil	Nil	Nil	No change in operating manpower setup
6	Colony for Operatinon Staff	Existing	Existing	Existing	Existing	No change in operating manpower setup



Details of Crossings in Debottlenecking of Salaya-Mathura Pipeline Project are as given below:

S. No.	Type of Crossings	Total Number	In Banaskantha District
1.	Major Rivers	42	1
2.	Major Water bodies	37	5
3.	National Highways	12	2
4.	State Highways	41	1
5.	Other roads	255	18
6.	Railway Crossings	14	2

4.0 All Oil & Gas Transportation Pipeline (crude and refinery/petrochemical products) passing through national parks/sanctuaries/coral reefs/ecologically sensitive areas (including LNG Terminal) are listed at S.N. 6 (a) under category 'A' and appraised at Central level.

5.0 Public hearing was exempted as per section 7 (ii) of EIA, Notification, 2006.

6.0 The proposal was considered by the Expert Appraisal Committee (Industry) in its 38<sup>th</sup> meeting held during 20<sup>th</sup>– 21<sup>st</sup> April, 2015 and 2<sup>nd</sup> meeting held during 16<sup>th</sup> -17<sup>th</sup> December, 2015 respectively. Project Proponent presented EIA / EMP report as per the TOR. EAC has found the EIA / EMP Report and additional information to be adequate and in full consonance with the presented TORs. The Committee recommended the proposal for environmental clearance.

7.0 Based on the information submitted by the project proponent, the Ministry of Environment and Forests hereby accords environmental clearance to above project under the provisions of EIA Notification dated 14<sup>th</sup> September 2006, subject to the compliance of the following Specific and General Conditions:

**A. SPECIFIC CONDITIONS :**

- i. Prior clearance under the Wildlife (Protection) Act, 1972, shall be obtained from the Standing Committee of the National Board for Wildlife as the pipeline project passes through Eco-sensitive Zone of Jessore Sloth Bear Sanctuary and Balaram – Ambaji Wildlife sanctuary .
- ii. Forest clearance for the forest land involved in the pipeline project shall be obtained.
- iii. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.
- iv. The project authority i.e. M/s IOCL shall ensure restoration of the Right of Way to preconstruction level as soon as construction activity completed. To ensure prevention of soil erosion, backfilled areas should be properly compacted.
- v. Annual safety audit shall be carried out for the initial three years by an independent agency and report submitted to this Ministry for ensuring the strict compliance of safety regulations on operation and maintenance.
- vi. The construction of pipeline particularly at the river and stream crossing shall be done during dry seasons to avoid disturbance of breeding seasons and soil erosion. The riverbed, embankments and / dykes shall be restored adequately after installation of crossings.
- vii. Sewage/ canteen wastewater shall be treated in STP. In any case, no treated/untreated wastewater shall be discharged openly in and around the project site as well as waterbodies.



- viii. Pipeline wall thickness and minimum depth of burial at river crossings and casings at rails, major road crossings shall be in conformity with ANSI/ASME requirements.
- ix. The company shall follow horizontal drilling technique for laying of pipeline while passing through major rivers.
- x. The project authorities shall install SCADA system with dedicated optical fiber based telecommunication link for safe operation of pipeline and Leak Detection System. Additional sectionalizing valves in the residential areas and sensitive location shall be provided to prevent the leaking of gas going to the atmosphere in the event of pipeline failure. Intelligent pigging facility shall be provided for the entire pipeline system for internal corrosion monitoring. Coating and impressed current cathodic protection system shall be provided to prevent external corrosion.
- xi. The project authorities shall patrol and inspect the pipeline regularly for detection of faults as per OISD guidelines and continuous monitoring of pipeline operation by adopting non-destructive method(s) of testing as envisaged in the EMP. Pearson survey and continuous potential survey shall be carried out at regular intervals to ensure the adequacy of cathodic protection system.
- xii. All the recommendations mentioned in the risk assessment report shall be implemented.
- xiii. Necessary approvals from Chief Controller of Explosives must be obtained before commission of project. Requisite On-site and Off-site Disaster Management Plans shall be prepared and implemented. It is necessary that integrated DMP should be in place as the pipeline is passing through four Districts.
- xiv. The acoustic chambers/barriers should be provided for individual units wherever feasible in the compressor stations.
- xv. The workers camp should have arrangement for safe drinking water, hygienic kitchen and sanitation facilities. The wastewater should be properly treated before disposal.
- xvi. The company shall obtain all requisite clearances for fire safety and explosives and shall comply with the stipulation made by the respective authorities.
- xvii. Occupational health surveillance of worker shall be done on a regular basis and records maintained as per the Factory Act.
- xviii. The Company shall harvest surface as well as rainwater from the rooftops of the buildings proposed in the project and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve fresh water.
- xix. At least 1 % of the total cost of the project should be earmarked towards the Enterprise Social Commitment (ESC) based on local needs and action plan with financial and physical breakup/details should be prepared and submitted to the Ministry's Regional Office at Bhopal. M/s IOCL shall utilize the earmarked funds for implementation of sanitation program under Swach Bharat Abhiyan. Implementation of such program should be ensured accordingly in a time bound manner.

**B. GENERAL CONDITIONS:**

- i. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board (SPCB), State Government and any other statutory authority.
- ii. No further expansion or modification in the project shall be carried out without prior approval of the Ministry of Environment & Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.



- iii. The project authorities must strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 2000 as amended subsequently. Prior approvals from Chief Inspectorate of Factories, Chief Controller of Explosives, Fire Safety Inspectorate etc. must be obtained, wherever applicable.
- iv. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).
- v. A separate Environmental Management Cell equipped with full fledged laboratory facilities must be set up to carry out the environmental management and monitoring functions.
- vi. Adequate funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures and shall be used to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government alongwith the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purposes.
- vii. The Regional Office of this Ministry/Central Pollution Control Board/State Pollution Control Board will monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.
- viii. A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad / Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.
- ix. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, HC (Methane & Non-methane), VOCs (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
- x. The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry / CPCB / SPCB shall monitor the stipulated conditions.
- xi. The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company alongwith the status of compliance of environmental conditions and shall also be sent to the respective Regional Offices of the MOEF by e-mail.
- xii. The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment and Forests at <http://envfor.nic.in>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in



the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional office.

- xiii. Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.

8.0 The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

9.0 The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.

10.0 The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Water Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.

  
(Lalit Bokolia)  
Additional Director

Copy to:-

1. The Principal Secretary, Forests & Environment Department, Government of Gujarat, Sachivalaya, 8<sup>th</sup> Floor, Gandhi Nagar - 382 010, Gujarat.
2. The Principal Secretary, Department of Environment, Government of Uttar Pradesh, Sachivalaya, Bapu Bhawan, Adjacent to Vidhan Sabha, Lucknow - 226001, U.P.
3. The Principal Secretary, Environment & Forests Department, Government of Rajasthan, Secretariat, Jaipur.
4. The Chief Conservator of Forests (Western Zone), Ministry of Environment & Forests, Regional Office, E-5, Arera Colony, Link Road -3, Bhopal -462 016, M.P.
5. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
6. The Chairman, Gujarat State Pollution Control Board, Paryavaran Bhawan, Sector 10 A, Gandhi Nagar-382 043, Gujarat.
7. The Chairman, Uttar Pradesh Pollution Control Board, PICUP Bhawan, Vibhuti Khand, Gomti Nagar, Lucknow - U.P.
8. The Chairman, Rajasthan Pollution Control Board, 20-A, Heera Bagh, Jaipur.
9. Monitoring Cell, Ministry of Environment, Forest & Climate Change, Indira Paryavaran Bhavan, Jor Bagh Road, New Delhi.
10. Guard File/Monitoring File/Record File.

  
(Lalit Bokolia)  
Additional Director