

F. No. J-11011/291/2015-IA.II (I)
Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

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Dated: 22nd June, 2017

To, 
The General Manager
(Shri John J Ammannna)
M/s Indian Oil Corporation Ltd. (IOCL)
Pipelines Division: A-1, Udyog Marg,
Sector-1, Noida - 201 301
Uttar Pradesh

Sub: Laying of 340 KMs (12.75") pipeline with carrying capacity of 800 TMTPA from Jaipur (Rajasthan) to Panipat (Haryana) by M/s Indian Oil Corporation Ltd. (IOCL) – Environmental Clearance – reg.

Ref: Online Proposal No. IA/HR/IND2/31741/2015 dated 06th February, 2017.

Sir,

This has reference to your online proposal no. IA/HR/IND2/31741/2015 dated 06th February, 2017, along with project documents including Form I, Terms of References, Pre-feasibility Report and EIA/EMP Report regarding the above mentioned project.

2. The Ministry of Environment, Forest and Climate Change has examined the application. It is noted that the proposal is for Laying of 340 KMs (12.75") pipeline with carrying capacity of 800 TMTPA from Jaipur (Rajasthan) to Panipat (Haryana) by M/s Indian Oil Corporation Ltd. (IOCL). The proposed project envisages transportation of Naphtha from Koyali refinery to Panipat refinery through existing Koyali-Sanganer Pipeline (KSPL) and thereafter laying a new 340 km long 12.75" dia pipeline. To meet the annual requirement of Naphtha at Panipat Naphtha Cracker Plant (PNCP) to a tune of 2530 TMT, naphtha available at Panipat refinery is 1230 TMT plus Naphtha moved from Mathura to Panipat is 420 TMT, so the remaining quantity of 880 TMT of naphtha will be met from Koyali refinery. It is reported that, pipeline being a closed loop system, no gaseous, liquid, solid and hazardous wastes will be generated during construction and operation phase of the pipeline. It is informed that, as the pipeline is laid 1 to 1.5 m below the ground level and is completely closed system, no significant impact on environment is envisaged. It is reported that the land will be completely restored after pipe laying. The capital cost of the project is ₹ 611.53 crore. It is reported that the proposed pipeline passes through/near Nahargarh, Wildlife sanctuary (Rajasthan) (1.5 Km), Jamva Ramgarh Wildlife



sanctuary (Rajasthan) (14 Km) and Bhindawas Wildlife Sanctuary (Haryana) (8.3 km).

3. All Oil & gas transportation pipe line (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) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'A' and is appraised at Central Level by Expert Appraisal Committee (EAC).

4. The project proposal was considered by the Expert Appraisal Committee (Industry-2) in its 3rd meeting held during 18-19th January, 2015 and 11th meeting held during 20th - 21st July, 2016 and recommended Terms of References (TORs) for the Project. The TOR has been issued by Ministry vide letter dated 05th March, 2016 and an amendment to the TOR has been issued vide letter dated 30th September, 2016.

5. The EAC (Industry-2) in its 21st meeting held during 27th - 29th March, 2017 has considered the proposal for environmental clearance (EC). The Project Proponent and the accredited consultant M/s Mantec Consultants Pvt. Ltd., New Delhi gave a detailed presentation on the salient features of the project and proposed environmental protection measures to be undertaken, as per the Terms of References (TORs).

6. Public hearing for the proposed project has been conducted on 29.11.2016 by Rajasthan State Pollution Control Board. The issues raised were distance residential house construction, size of tree plantation, provision of compensation, etc. EAC has noted that the issues have been properly addressed by the PP in the final EIA/EMP report.

7. Ambient air quality survey was carried out at 30 locations from December 2015-February 2016. Study area for baseline data generation and collection is the area falling within 10 km radius from the Terminal/station and 500m along the pipeline. The resultant concentrations of Pollutants at all locations are well within the NAAQS standard limits.

8. It is informed that detailed hazard identification and risk analysis study was carried out for the proposed project. Risk from the pipeline is below the ALARP region i.e 10^{-6} per year (one in 1 million/years). It is reported that Disaster management plan has been prepared for the proposed project and has been submitted.

9. It is informed that the Nahargarh Wildlife Sanctuary (Rajasthan) is situated at 1.5 km from the project site. The Standing Committee of National Board for Wildlife (SC NBWL) in its 41st meeting held on 02.03.2017 has recommended the proposal. PP has submitted the copy of the recommendations of SC NBWL issued vide Ministry's No. 6-13/2017-WL (41st meeting) dated 28.03.2017. It is reported that, the project is located outside the ESZ (Eco-Sensitive Zone) of Bindwas WLS after the declaration of ESZ of Bindwas Wildlife Sanctuary (Haryana), and hence no wildlife clearance is required for this sanctuary.

10. It is informed that the applications for Forest Clearance has been submitted to the Divisional/Deputy Conservator of Forest, Jaipur and Alwar,

Rajasthan and Rewari, Haryana. It is informed that NOC has been obtained from Forest departments.

11. The EAC, in its 21st meeting held during 27th – 29th March, 2017, has found that the final EIA/EMP report submitted by the PP is adequate. The EAC after detailed deliberations, on the basis of the information and presentation made by the PP, has recommended the project for environmental clearance with certain conditions.

12. Based on the proposal and information submitted by the Project Proponent, and considering the recommendation of the Expert Appraisal Committee (Industry-2), the Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance to the above project under the provisions of EIA Notification dated 14th September 2006, subject to the compliance of the following Specific and General Conditions:

A. Specific Conditions:

- i. 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.
- ii. The project authority i.e. M/s. Indian Oil Corporation Ltd. (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.
- iii. The design, material of construction, assembly, inspection, testing and safety aspects of operation and maintenance of pipeline and transporting the natural gas shall be governed by ASME/ANSI B 31.8/B31.4 and OISD standard 141.
- iv. 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.
- v. 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.
- vi. 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.
- vii. The company shall follow horizontal drilling technique for laying of pipeline while passing through major rivers.
- viii. 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.

- ix. 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.
- x. 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.
- xi. The acoustic chambers/barriers should be provided for individual units wherever feasible in the compressor stations.
- xii. The workers camp should have arrangement for safe drinking water, hygienic kitchen and sanitation facilities. The wastewater should be properly treated before disposal.
- xiii. The company shall obtain all requisite clearances for fire safety and explosives and shall comply with the stipulation made by the respective authorities.
- xiv. The Project Proponent shall spend 2% of project cost under CSR activities for Drinking water (RO) to schools, computer facility to Schools/colleges and solar panel to school/college/health centres, in the villages where the pipeline is passing. PP shall also maintain the facilities.

B. General Conditions:

- i. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Boards, State Governments and any other statutory authority.
- ii. No further expansion or modifications in the pipeline shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. 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 locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.
- iv. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed.
- v. 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 Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).

- vi. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
- vii. The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management and risk mitigation measures relating to the project shall be implemented.
- viii. The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. ESC activities shall be undertaken by involving local villages and administration.
- ix. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- x. A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- xi. The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/pollution control measures shall not be diverted for any other purpose.
- xii. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal.
- xiii. The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
- xiv. The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted 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 along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.
- xv. 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/Committee and may also be seen at Website of the Ministry at <http://moef.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



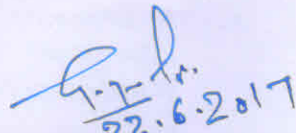
a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.

xvi. The 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 start of the project.

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

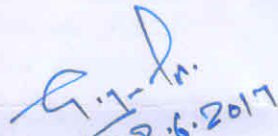
14. The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.

15. The above conditions will be enforced, *inter alia* under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.


22.6.2017
(Yogendra Pal Singh)
Scientist 'D'

Copy to:-

1. The Secretary, Department of Environment, Government of Haryana, SCO 1-2-3, Sector 17 (D), 2nd Floor, Chandigarh.
2. The Secretary, Environment Department, Government of Rajasthan.
3. The Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (NZ), Bays No. 24-25, Sector 31 A, Dakshin Marg, Chandigarh - 160 030.
4. The Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (CZ), Kendriya Bhawan, 5th Floor, Sector "H", Aliganj, Lucknow - 226 020
5. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex East Arjun Nagar, Delhi - 110 032.
6. The Chairman, Haryana State Pollution Control Board, C-11, Sector-6. Panchkula-134109, Haryana.
7. The Chairman, Rajasthan State Pollution Control Board, 4, Institutional Area, Jhalana Doongri, Jaipur.
8. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh, New Delhi - 110 003.
9. Guard File/Monitoring File/Website/Record File.


22.6.2017
(Yogendra Pal Singh)
Scientist 'D'