

F. No. J-11011/443/2008- IA II (I)
Government of India
Ministry of Environment and Forests
(I.A. Division)

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Dated: February 11, 2010

To,
The Dy. General Manager (PJ- Monitoring)
M/s Indian Oil Corporation Limited
Pipeline Division, A-1, Udyog Marg,
Sector-1, NOIDA-201301
Utttar Pradesh

Subject: Laying of Petroleum product branch pipeline system from Viramgam (Gujarat) to Kandla (Gujarat) by M/s Indian Oil Corporation Limited - reg. Environmental clearance

Sir,

This has reference to your letter no. EOL/E&P/ENV/10-09/01 Dated 31ST October, 2009 along with final EIA /EMP report and public hearing reports and subsequent communications dated 14.12.2009 & 19.01.2010 seeking environmental clearance under the Environmental Impact Assessment Notification, 2006..

2.0 The Ministry of Environment and Forests has examined your application. It is noted that M/S Indian Oil Corporation Limited have proposed for laying of Petroleum product branch pipeline system from Viramgam (Gujarat) to Kandla (Gujarat) for transportation of petroleum products such as HSD, MS and SKO. A pipeline system exists from Koyali to Viramgam going further to Sidhpur/Sanganer to transport the products from the Koyali refinery. Under this scheme, a branch pipeline has been envisaged from Viramgam to Kandla for transportation of petroleum products for local requirement at Kandla and for export/ coastal movement ex-Kandla. Subsequent to conversion of Kandla-Panipat section of Kandla-Bhatinda Pipeline (KBPL) to crude oil service and hook up of crude oil pipeline ex-Mundra with KBPL at Churwa, about 14 km of 22" OD pipeline section between Kandla and Churwa has become idle. It is proposed to utilize this section as part of the proposed branch pipeline. The proposed pipe line would pass mostly through agricultural land except at Surajbadi creek (marshy area) of about 7 km. The proposed pipeline would be passing through Wild Ass Sanctuary and Reserve/Protected Forest near Surajbadi village in the Little Rann of Kutch. The company will make all efforts to avoid/minimize crossing of Wild Ass Sanctuary and Reserve/Protected Forest to the extent possible. No change in land use is envisaged. Agriculture land in which pipeline is to be laid will continue to be used for cultivation after completion of pipeline laying.

3.0 The total length of the pipeline will be 231 km (including 14 km of existing pipeline (Ex-KBPL) from Churwa to Kandla). Out of 231 km long pipeline, 16.375 km will be in Ahmedabad, 99.942 km in Surendra Nagar, 27.146 km in Rajkot and 87.44 km in Kutch District. The capacity of transportation of material will be 2 MMTPA (Stage-I) and 4.5 MMTPA (Stage-II). The maximum operating pressure of the pipelines will be Viramgam-Churwa section - 1303 (110.7 kg/sq.cm) and Churwa-Kandla section - 1209 (102.9 kg/sq.cm). The cost of the project is Rs. 349.00 Crores for both the stages.

4.0 The proposal for laying of Viramgam-Kandla branch pipeline system in the Stage-I broadly involves the following activities :

- Installation of pump station at Viramgam for pumping in Viramgam-Kandla branch pipeline.
- Laying of 16" OD, 217 km pipeline from Viramgam to Churwa.
- Installation of scraper station at Churwa.
- Use of about 14 km of 22" OD pipeline section of KBPL between Kandla and Churwa, which has become idle after conversion of Kandla-Panipat section of KBPL to crude oil service.
- Installation of delivery facilities at Kandla.
- Installation of two line balancing tanks of 6000 kl each at Viramgam.

At Viramgam, 2 Main Line Pumping Units (MLPUs) provided in Stage-I for Viramgam-Kandla branch pipeline would be replaced with 4 MLPUs of higher rating to meet the projected throughput requirement in Stage-II.

5.0 The projects regarding Oil and Gas Transportation Pipeline (Crude and Refinery/Petrochemical Products), passing through National Parks/Sanctuaries/Coral Reefs including LNG terminal are listed at S.N. 6(a) under "CATEGORY-A" in the Schedule of EIA Notification, 2006 and are to be appraised at the Central Level. Public hearing for the project for Districts Surendranagar, Kutch, Rajkot & Ahmedabad were held on 23rd September 2009, 18th September 2009, 8th September 2009 & 25th September 2009 respectively.

6.0 The proposal was considered by the Expert Appraisal Committee-2 (Industry) in its 6th meeting held on 14th December, 2009. The Committee sought additional information for reconsideration. On receipt of information, the proposal was considered by the Expert Appraisal Committee-2 (Industry) in its 7th meeting held on 15th -16th January, 2010. The Committee recommended the project for environmental clearance.

7.0 The Ministry of Environment and Forests hereby accords environmental clearance to the above project under the provisions of EIA Notification dated 14th September, 2006 as amended subsequently subject to strict compliance to the following Specific and General Conditions:

A. Specific Conditions

- i. Environmental clearance is subject to obtaining clearance under the wildlife (Protection) Act, 1972 from the National Board for Wildlife since the Pipeline is passing through Wild Ass Sanctuary.
- ii. The 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 shall be properly compacted.
- iii. The company shall monitor PM10, SO2, NOx & HC and displayed periodically at the company's web site.
- iv. 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.
- v. Annual safety audit should 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. Pipeline wall thickness and minimum depth of burial at river crossings and casings at rails, major road crossings should be in conformity with ANSI/ASME requirements.
- viii. The company shall follow horizontal drilling technique for laying of pipeline while passing through major rivers.
- ix. The project authorities shall install SCADA system with dedicated optical fibre based telecommunication link for safe operation of pipeline and Leak Detection System. Additional sectionalizing valves in the residential areas and sensitive installations should be provided to prevent the amount of gas going to the atmosphere in the event of pipeline failure. Intelligent pigging facility should be provided for the entire pipeline system for internal corrosion monitoring. Coating and impressed current cathodic protection system should be provided to prevent external corrosion.

- x. 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 should be carried out at regular intervals to ensure the adequacy of cathodic protection system.
- xi. The fire water facilities at the terminal must be designed as per OISD-117 guidelines. However, for fighting prolonged fires, the company shall firm up a plan for assured water supply from near by ground water source/ surface water source. This must be complied before commissioning the project.
- xii. Recommendations made in the EIA/EMP/ Risk Assessment Report and Public hearing reports shall be complied with.
- xiii. Provision shall be made for the housing for the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plant, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.

B. General Conditions:

- i. The project authority must adhere to the stipulations made by Gujarat State Pollution Control Board and State Governments.
- ii. There will be no change in the pipeline route, design capacity without the prior approval of this Ministry. While laying the pipeline, OISD standards with regard to distance etc; from private buildings, industrial buildings or placed or habitation etc should be followed.
- iii. During the project construction phase, adequate care must be exercised for protection to public life, wildlife, forest power line, buildings etc in the vicinity of pipeline and in consonance with local government regulations.
- iv. The project authorities must strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous chemicals Rules, 1989 as amended in 2000. Prior approvals from Chief Inspectorate of Factories, Chief Controller of Explosives, Fire Safety Inspectorate etc. must be obtained.
- v. Detailed risk analysis of the pipeline and associated facilities must be done once the engineering design and layout is frozen. Based on this, on site and off-site emergency preparedness plan must be prepared. Approval from the nodal agency must be obtained before commissioning the project.

- vi. Adequate provisions for infrastructure facilities such as water supply, fuel, sanitation etc shall be ensured for construction workers during the construction phase so as to avoid felling of trees and pollution of water and the surroundings.
- vii. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the Environmental Management Plan and risk analysis report.
- viii. The project proponent shall have a scheme for social up-liftment in the surrounding villages with reference to contribution in road construction, education of health centres, sanitation facilities, drinking water supply, community awareness and employment to local people whenever and wherever possible both for technical and non-technical jobs.
- ix. The project authorities shall provide requisite funds both recurring and non-recurring to implement the conditions stipulated by the Ministry of Environment & Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purpose.
- x. The implementation of the project vis-à-vis environmental action plans will be monitored by Ministry's Regional office at Bhopal /State Pollution Control Boards/Central Pollution Control Board. A six monthly compliance status report shall be submitted to monitoring agencies.
- xi. A separate environmental management cell with full fledged laboratory facilities to carry out various management and monitoring functions shall be set up under the control of Senior Executive.
- xii. The project proponent shall also submit six monthly reports on the status of compliance of the stipulated E C conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the State Pollution Control Board. The Regional Office of this Ministry at Bhopal/Central Pollution Control Board/State Pollution Control Board shall monitor the stipulated conditions.
- xiii. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad/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 website of the company by the proponent.

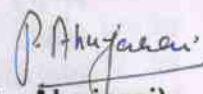
- xiv. The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF 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 State Pollution Control Board/ Committee and may also be seen at Website of the Ministry of Environment and Forests at <http://envfor.nic.in>. This should 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 should be forwarded to the Regional office at Bhopal.
- 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 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 will implement these conditions.

10.0 Any appeal against this environmental clearance shall lie with the National Appellate Authority, if preferred, within a period of 30 days as prescribed under section 11 of the National Environment Appellate Authority Act, 1997.

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


(Dr. P. L. Ahujarai)
Director

Copy to:

1. The Secretary, Forests & Environment Department, Government of Gujarat, Sachivalaya, 8th Floor, Gandhi Nagar-382 010, Gujarat.
2. 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.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Chairman, Gujarat State Pollution Control Board, Paryavaran Bhawan, Sector 10 A, Gandhi Nagar-382 043, Gujarat.
5. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
6. Guard File/Monitoring File/Record File.

(Dr.P.L. Ahujarai)
Director