

F. No. J-11011/239/2010- IA II (I)
Government of India
Ministry of Environment and Forests
(I.A. Division)

ParyavaranBhawan
CGO Complex, Lodhi Road
New Delhi – 110 003

E-mail :vp.upadhyay@nic.in
Telefax:011: 2436 2875
Dated 19th March, 2013

To,

The Deputy General Manager, RKPL Project
M/s Hindustan Petroleum Corporation Ltd
Pipelines Deptt., 8th Floor, North Tower, Scope Minar
District Centre, Laxmi Nagar, Delhi-110092

E-mail: mpeshwar@hpcl.co.in /anujjain@hpcl.co.in; Fax No.: 011-22041103.

Subject: Laying of Petroleum Product Pipeline with Associated Facilities from Rewari, Haryana to Kanpur, U.P. by M/s Hindustan Petroleum Corporation Ltd.– Environmental clearance reg.

Ref. : Your letter no. HPCL/RKPL/ENV_CLR/2012 dated 8th June, 2012.

Sir,

Kindly refer to your letter dated 8th June, 2012 along with project documents including Form I, Terms of References, Pre-feasibility Report, EIA/EMP Report and Public hearing report on the above mentioned subject.

2.0 The Ministry of Environment & Forests has examined your application. It is noted that proposal is for laying of Petroleum Product Pipeline with Associated Facilities from Rewari to Kanpur. Total laying of pipeline in Haryana, Rajasthan and U.P. will be 10.20 km, 137 km & 288.8 km respectively along with 437 km (final survey length is 441.12 Km) pipeline between Rewari, Haryana and Kanpur, UP. The design capacity of the proposed pipeline is 7.98 MTPA. Following facilities will be installed:

1. 18" Dia Pipeline from Rewari (Haryana) to Kanpur (approx. Length 441.12 Km)
 - a) Dispatch Station at Rewari
 - b) SV/CP Station with associated facilities – 11 Nos. along the pipeline route
 - c) IPS Station with associated facilities – SaiyyadpurPran (Uttar Pradesh)
 - d) Receipt, Storage cum Marketing Terminal at Kanpur (Uttar Pradesh)
 - e) Pumping station at Bahadurgarh
2. Additional Tankage Facilities for the storage
 - a) Additional Tankage facilities at Bharatpur (Rajasthan)
 - b) Additional Tankage facilities at Mathura (Uttar Pradesh)
 - c) Additional Tankage facilities at Palanpur (Gujarat)

No national park/wildlife sanctuary/ tiger reserve/elephant reserve/turtle nesting ground /core zone of biosphere reserve is located within 10 Km of project site. During presentation, project proponent confirmed that Bharatpur bird sanctuary is 11 km away from the project site. Rewari to Kanpur pipeline will cross state highway (15 nos.), other roads (268 Nos.), canals (58 Nos.), drains (5 Nos.), nalas (19 Nos.), rivers (15 Nos.), other pipeline

(9 Nos), National Highways (12 Nos.), Railways (12 Nos.), social forests (6 Nos.) and protected forests (8 Nos.).

3.0 Stack of adequate height will be provided to DG set (1x 160 KVA) and DG Set (1x 100 KVA). Water requirement will be met from ground water source. Oily effluent will be treated in effluent treatment plant (ETP) at all tankages/storage/dispatch facilities. The entire cross country pipeline will be monitored and controlled by Supervising Control & Data Acquisition (SCADA). The pipeline will be protected against external corrosion by three layer polyethylene (PE) coating for cross country pipeline and three layered polypropylene and additionally by impressed current cathodic protection system. Excavated earth will be restored properly and backfilled.

4.0 The proposal was considered by the Expert Appraisal Committee (Industry-2) in its 25th and 2nd meetings held during 28th-30th July, 2011 and 29th - 31st October, 2012 respectively.

5.0 All the Petroleum product storage and transportations facilities are listed at S.N. 6(a) under Category 'B' and should have been appraised at the State level. However, due to applicability of general condition, pipeline passing through interstate boundary, project is treated as category 'A' and appraised at the Central Level.

6.0 Public hearing was conducted on 10th April, 2012 for Bharatpur terminal, 14th May, 2012 for Mathura Terminal, 4th May, 2012 for Kanpur Terminal and 3rd April, 2012 for Palanpur Terminal.

7.0 The project has obtained stage-I forest clearance for diversion of forest land in the State of Haryana on 14.11.2012 and Uttar Pradesh on 11.03.2013 respectively from regional office of MoEF, Chandigarh and Lucknow as per the documents submitted by M/s. HPCL to this Ministry.

8.0 The Ministry of Environment and Forests hereby accords environmental clearance to the above project under the provisions of EIA Notification dated 14th September, 2006 subject to strict compliance of the following specific and general conditions:

A. SPECIFIC CONDITIONS :

- i. Comments/recommendations shall be obtained from the State Forest Department regarding the impact of the proposed laying of pipeline on the surrounding reserve forests.
- ii. All the conditions stipulated in the forest clearance shall be implemented.
- iii. The project authority i.e. M/s HPCL 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.
- iv. Adequate buffer zone around the oil tankage shall be maintained, as may be required as per OISD or other statutory requirements.
- v. The company shall monitor PM10, SO₂, NO_x & HC and displayed periodically on the company's web site.

- vi. Regularly monitoring of VOC and HC in the work zone area in the tankages premises shall be carried and data be submitted to Ministry's Regional Office at Lucknow and Kanpur.
- vii. The design, material of construction, assembly, inspection, testing and safety aspects of operation and maintenance of pipeline and transporting the natural gas should be governed by ASME/ANSI B 31.8/B31.4 and OISD standard 141.
- viii. 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.
- ix. 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.
- x. 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.
- xi. The company should follow horizontal drilling technique for laying of pipeline while passing through major rivers.
- xii. 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.
- xiii. 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.
- xiv. 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 nearby ground water source/ surface water source. This must be completed before commissioning the project.
- xv. All the recommendations mentioned in the risk assessment report shall be implemented.
- xvi. All the issues raised during the public hearing/consultation meetings held on 10th April, 2012 for Bharatpur terminal, 14th May, 2012 for Mathura Terminal, 4th May, 2012 for Kanpur Terminal and 3rd April, 2012 for Palanpur Terminal shall be satisfactorily implemented and a separate budget for implementing the same shall be allocated and information submitted to the Ministry's Regional Office at Lucknow and Bhopal.
- xvii. Prior permission shall be obtained from CGWA/SGWA to meet water requirement from ground water source.

- xviii. The company shall construct the garland drain all around the project site to prevent runoff of any oil containing waste into the nearby water bodies. Separate drainage system shall be created for oil contaminated and non-oil contaminated streams. During rainy season, the storm water drains shall be connected to oil water separator and passed through guard pond. Water quality monitoring of guard pond shall be conducted.
- xix. Effluent from washing of storage tanks shall be properly treated in ETP and treated wastewater shall conform to CPCB standards. As proposed, separate treatment system shall be provided for white oil and black oil effluent streams. No effluent shall be discharged outside the premises.
- xx. Oil Industry Safety Directorate guidelines regarding safety against fire, spillage, pollution control etc. shall be followed. Company shall ensure no oil spillage occur during loading / unloading of petroleum products.
- xxi. The project authorities shall strictly comply with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules 1989, as amended in 2000 and the Public Liability Insurance Act for handling of hazardous chemicals etc. All the hazardous waste shall be properly treated and disposed of in accordance with the Hazardous Waste (Management, Handling and Transboundary Movement) Rules 2008.
- xxii. Necessary approvals from Chief Controller of Explosives must be obtained before commission of project. Requisite On-site and Off-site Disaster Management Plans will be prepared and implemented.
- xxiii. The company shall obtain all requisite clearances for fire safety and explosives and shall comply with the stipulation made by the respective authorities.
- xxiv. All storage tanks shall be provided with design features based on applicable OISD standards.
- xxv. No change in the storage capacity and other facilities shall be made without getting proper approval from the Ministry.
- xxvi. Fully automated tank farm management system (TFMS) shall be provided for accounting of products & reconciliation.
- xxvii. Emergency Response Plan shall be based on the guidelines prepared by OISD, DGMS and Govt. of India. Mock drill shall be conducted once in a month.
- xxviii. Bottom oil sludge shall be handled, stored and disposed as per CPCB/ MoEF guidelines. An action plan in this regard including bioremediation shall be submitted to the Ministry and its Regional Office at Lucknow and Bhopal within 3 months of issue of the letter.
- xxix. Occupational health surveillance of worker shall be done on a regular basis and records maintained as per the Factory Act.
- xxx. Green belt shall be developed in 33% of the tankage site area to mitigate the effect of fugitive emission all around the plant in consultation with DFO as per CPCB guidelines. Thick green belt around POL depot shall be ensured.

- xxxi. The Company should 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.
- xxxii. Company should adopt Corporate Environment Policy as per the Ministry's O.M. No. J-11013/41/2006-IA.II (I) dated 26th April, 2011 and implemented.
- xxxiii. Under Corporate Social Responsibility (CSR), sufficient budgetary provision shall be made for health improvement, education, water and electricity supply etc. in and around the project.

B. GENERAL CONDITIONS:

- i. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board (SPCB), State Governments 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 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.
- vi. 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.
- vii. The environmental statement for each financial year ending 31st 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.
- viii. 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.

- ix. 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.

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

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

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


(V P Upadhyay)
Director

Copy to :-

1. The Principal Secretary, Forests & Environment Department, Government of Gujarat, Sachivalaya, 8th Floor, Gandhi Nagar - 382 010, Gujarat.
2. The Principal Secretary, Department of Environment, Government of Uttar Pradesh, Sachivalaya, BapuBhawan, Adjacent to VidhanSabha, Lucknow - 226001, U.P.
3. Secretary, Department of Environment and Forests, Government of Rajasthan, Jaipur, Rajasthan.
4. Chairman, Central Pollution Control Board, PariveshBhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi -110032.
5. Chairman, Rajasthan State Pollution Control Board, 4, Institutional area, Jhalana, Doongri, Jaipur, Rajasthan.
6. The Chairman, Uttar Pradesh Pollution Control Board, PICUPBhawan, VibhutiKhand, Gomti Nagar, Lucknow - U.P.
7. The Chairman, Gujarat State Pollution Control Board, ParyavaranBhawan, Sector 10 A, Gandhi Nagar-382 043, Gujarat.
8. Chief Conservator of Forests (Central), Ministry of Environment and Forests, Region Office (Central), KendriyaBhawan, 5th Floor, Sector-H, Aliganj, Lucknow - 226 024, U.P.
9. 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.
10. The Chairman, Gujarat State Pollution Control Board, ParyavaranBhawan, Sector 10 A, Gandhi Nagar-382 043, Gujarat.
11. Joint Secretary, IA-II, Ministry of Environment and Forests, ParyavaranBhawan, CGO Complex, New Delhi.
12. Monitoring Cell, Ministry of Environment and Forests, ParyavaranBhawan, CGO Complex, New Delhi.
13. Guard File/Monitoring File/Record File.

(V P Upadhyay)
Director