

F. No. J-11011/11/2012 - IA II (I)
Government of India
Ministry of Environment and Forests
(I.A. Division)

Paryavaran Bhawan
CGO Complex, Lodhi Road
New Delhi - 110 003

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Dated 5th September, 2012

To

Shri Krishnakant Thakur,
Chief LPG Manager
M/s Indian Oil Corporation Ltd.
Orissa State Office (LPG Department)
3rd Floor, Alok Bharti Tower,
Bhubaneswar-751007

Shri K K Thakur
DCM (LPG-0)
11/9
(CEA to DCM)

E-mail: krishnathakur@indianoil.co.in; Fax: 0674-2541638;

Subject: Setting up of new LPG Marketing Terminal at Paradip, Village Bittargarh, Tehsil Kujang, District Jagatsinghpur, Orissa by M/s Indian Oil Corporation Ltd. Environmental Clearance reg.

Ref. : Your letter no. PDP/EC/102 dated 15th December, 2011.

Sir,

This has reference to your letter dated 15th December, 2011 alongwith project documents including Form I, Terms of References, Pre-feasibility Report, EIA/EMP Report, Public Hearing Report and subsequent submission of additional information vide letter dated 11th April, 2012 regarding above mentioned project.

2.0 The Ministry of Environment & Forests has examined your application. It is noted that proposal is for setting up of new LPG Marketing Terminal at Paradip, Village Bittargarh, Tehsil Kujang, District Jagatsinghpur, Orissa by M/s Indian Oil Corporation Ltd. Total plot area is 52.7 acres. Total project cost is Rs. 158.9 Crores. No R & R issue is involved. No national park, reserve forest and wildlife sanctuary is located within 10 Km. It is noted that seacoast is located at a distance of 5 Km. The proposed LPG marketing terminal consist of 3 mounded bullets each of 600 MT for the storage of LPG alongwith a LPG bottling plant of capacity 60 TMPTA in the terminal premises. The proposed project is a storage terminal, where LPG received from Paradip IOCL refinery through dedicated pipelines is stored in mounded bullets and dispatched through tank truck to various destination by road. Bottling plant shall use the stored Bulk LPG in the terminal for bottling in domestic/non domestic cylinders and dispatch of filled cylinder to nearby markets. The LPG Marketing Terminal will consist of LPG mounded bullets, LPG pump, Tank lorry filling shed, LPG compressor, Fire and Gas detection system, LPG bottling plant, fire protection system, utilities etc.

3.0 Adequate stack height will be provided to DG set. Fire and gas detectors will be placed at all critical locations in the LPG storage area. Water requirement from ground water source will be 50 m³/day. No industrial effluent will be generated. Domestic effluent generation will be 10.5 m³/day and treated in sewage treatment plant (STP). Treated water from STP will be

recycled/reused within factory premises. No effluent will be discharged outside the premises and 'Zero' discharge concept will be adopted. Spent oil will be sold to authorized recyclers / re-processors.

4.0 The proposal was considered by the State Expert Appraisal Committee, Orissa and Terms of Reference (TOR) awarded by the SEAC, Orissa, vide their letter no. 362/SEAC/241 dated 20th May, 2011 for preparation of EIA/EMP report. The proposal was considered by the Expert Appraisal Committee (Industry-2) in its 32nd and 36th meetings held during 16th-17th February, 2012 and 11th - 12th June, 2012 respectively.

5.0 All the Isolated Storage & Handling of Hazardous Chemicals are listed at S.N. 6(b) under Category 'B' and appraised at the Central level due to non-existent of the SEIAA/SEAC in Orissa.

6.0 Public hearing of the project was held on 9th November, 2011.

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 subject to strict compliance of the following specific and general conditions:

A. SPECIFIC CONDITIONS :

- i. Adequate buffer zone around the tankage facilities shall be provided, as may be required as per OISD or other statutory requirements.
- ii. Regular ambient air quality monitoring of PM₁₀, SO₂, NO_x, VOCs and HC (Methane and Non-methane) shall be monitored and displayed at a convenient location near the main gate of the company and at important public places. The location and results of existing monitoring stations shall be reviewed in consultation with the concerned State Pollution Control Board based on the occurrence of maximum ground level concentration and downwind direction of wind. If required, additional stations should be set up. It will be ensured that at least one monitoring station is set up in up-wind & in down-wind direction along with those in other directions.
- iii. Regularly monitoring of VOC and HC in the work zone area in the plant premises shall be carried and data be submitted to Ministry's Regional Office at Bhubaneswar, CPCB and State Pollution Control Board (SPCB), Orissa. Quarterly monitoring for fugitive emissions shall be carried out as per the guidelines of CPCB and reports submitted to Ministry's Regional Office at Bhubaneswar.
- iv. Total fresh water requirement from ground water source shall not exceed 50 m³/day and prior permission shall be obtained from the CGWA.
- v. Sewage shall be treated in STP. Treated water from STP shall be recycled/reused within factory premises. Water quality of treated sewage shall be monitored regularly and monitoring report shall be submitted to the SPCB, Orissa.
- vi. No effluent shall be discharged outside the premises and 'Zero' discharge concept shall be adopted.

- vii. Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.
- viii. 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.
- ix. 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.
- x. The project authorities should 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 should be properly treated and disposed of in accordance with the Hazardous Waste (Management, Handling and Transboundary Movement) Rules 2008.
- xi. The company shall obtain all requisite clearances for fire safety and explosives and shall comply with the stipulation made by the respective authorities.
- xii. No change in the storage capacity and other facilities should be made without getting proper approval from the Ministry.
- xiii. Tankers should be as per IS 803 and OISD 117 & 118 for safety aspect.
- xiv. 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.
- xv. Additional safety measures shall be taken by using remote operated shut off valve, double block & bleed valve (DBB), impervious dyke wall and un-bonded flexible roof drain pipe.
- xvi. LPG transfer line from refinery to the this LPG terminal shall be laid underground with adequate Cathodic protection against External Corrosion and the SCADA system.
- xvii. IOC while taking part in Offsite Disaster Mock Drill, shall carry out such exercise based on a possible UVCE scenario arising out of the LPG transfer pipeline rupture, in co-ordination with the relevant Authorities.
- xviii. Occupational health surveillance of worker shall be done on a regular basis and records maintained as per the Factory Act.
- xix. Green belt shall be developed in 33% of the plot area to mitigate the effect of fugitive emission all around the plant in consultation with DFO as per CPCB guidelines. Thick green belt around factory premises shall be ensured.
- xx. 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.

- xxi. All the recommendations mentioned in the EMP/DMP shall be implemented.
- xxii. All the issues raised during the public hearing/consultation meeting held on 9th November, 2011 shall be satisfactorily implemented.
- xxiii. Dedicated parking facility for loading and unloading of material shall be provided in the LPG Marketing Terminal. Unit shall develop and implement good traffic management system for their incoming and outgoing vehicles to avoid congestion on the public road.
- xxiv. Company shall 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.
- xxv. 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 shall strictly adhere to the stipulations made by the Orissa State Pollution Control Board.
- ii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and 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 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 station is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.
- 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 Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- v. 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.
- vi. 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, risk mitigation measures and public hearing relating to the project shall be implemented.

- vii. The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.
- viii. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- ix. A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- x. The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment and Forests 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.
- xi. A copy of the clearance letter shall be sent by the project 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.
- xii. 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, the respective Zonal Office of CPCB and OSPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
- xiii. 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.
- xiv. 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://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 concerned Regional Office of the Ministry.
- xv. 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.

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 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.


(P L Ahujara)
Director

Copy to:-

1. The Secretary, Department of Environment, Govt. of Orissa, Bhubaneswar, Orissa.
2. Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi – 110 032.
3. Chairman, Orissa Pollution Control Board, Parivesh Bhavan, A/118, Nikanthhanagar, Unit-8, Bhubaneswar - 751 012, Orissa.
4. The Chief Conservator of Forests (Eastern), Regional Office (EZ), A/3, Chandrasekharapur, Bhubaneswar - 751 023, Orissa.
5. Joint Secretary, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
6. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
7. Monitoring Cell
8. Guard/Record File.


(P L Ahujara)
Director