

F. No. J-11011/289/2011- IA II (I)
Government of India
Ministry of Environment and Forests
(I.A. Division)

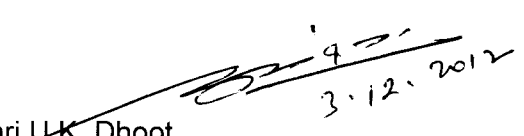
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Dated 29th November, 2012

To,


Shri U.K. Dhoot
Dy. General Manager (PJ-Monitoring)
M/s Indian Oil Corporation Ltd.
A-1, Sector-1, Udyog Marg
NOIDA-201 301, U.P.

E-mail: dhootuk@iocl.co.in ; Fax No.: 0120-2448026

Subject: Setting up of POL Terminal for Storage and Marketing of Petroleum Products at Khunti, Ranchi, Jharkhand by M/s Indian Oil Corporation Ltd. - Environmental Clearance reg.

Ref. : Your letter no. nil dated 10th February, 2012

Sir.

This has reference to your letter dated 10th February, 2012 alongwith Form-1, Prefeasibility Report, EIA/EMP report, Public Hearing Report and subsequent communications vide your letters dated 4th April, 2012, 25th May, 2012 and 14rd September, 2012 on the above mentioned subject.

2.0 The Ministry of Environment & Forests has examined your application. It is noted that proposal is for setting up of POL Terminal for Storage and Marketing of Petroleum Products at Khunti, Ranchi, Jharkhand by M/s Indian Oil Corporation Ltd. POL terminals is to be set up at Khunti, Ranchi for the storage and marketing of petroleum products produced from the grass root refinery (15 MTPM) at Paradip, Orissa and transported through Paradip-Raipur-Ranchi pipeline (PRRPL) to cater demand in Jharkhand. Total cost of the project is Rs. 132.38 Crores. Total plot area is 27.99 acres. No national park/wildlife sanctuary is located within 10 Km. The facilities to be installed at the POL terminal broadly include construction of tanks with storage capacity of 88.481 Kls at Khunti as per details given below:

S.N.	Products	Tank Nos. & Capacity	Total Tankage (Kls)
1.	MS	2x11260, 1x2614	25,134
2.	Ethanol	3x200	600
3.	SKO	3x2301	6,903
4.	HSD	3x11610	34,830
5.	Trans-mix Tank	2x510	1020
9 tanks are above ground & 3		Sub Total	68,487

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underground tanks			
Future Provision:			
1.	MS	1x11260	11,260
2	HSD	1x8734	8,734
Above ground tanks (2Nos.)		Sub-total	19,994
		TOTAL:	88,481

3.0 Air emissions from D.G. sets will be dispersed by providing adequate stack height. Vapor recovery system will be installed to control leakage of vapor from tank/vessels/processing unit. Total fresh water requirement from ground water source will be 10 m³/day. Effluent generated from POL Depot will be treated in effluent treatment plant (ETP)/oil water separator and treated effluent will be recycled/reused within the factory premises. No effluent will be discharged outside the depot premises and 'zero' discharge concept will be followed. Storm water drains will be connected to oil water separator. The bottom tank sludge will be treated by bio-remediation process.

4.0 The proposal was considered by the Expert Appraisal Committee (Industry-2) in its 25th and 33rd meetings held during 28th-30th July, 2011 and 13th-14th April, 2012 respectively and Reconstituted Expert Appraisal Committee (Industry) in its 1st meeting held during 24th -25th September, 2012. The Committee recommended the proposal for environmental clearance.

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 Jharkhand.

6.0 Public hearing of the project was held on 28th December, 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 Petroleum Oil Terminal 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 shall 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. Regular 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 Jharkhand State Pollution Control Board. 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.

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- iv. Vapor recovery system shall be installed to prevent leakage of vapor from tank/vessels/processing and filling areas to ensure no hydrocarbon vapors are released unchecked.
- v. Total fresh water requirement from ground water source shall not exceed 10 m³/day and prior permission should be obtained from the concerned Authority.
- vi. 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 and ensured that monitoring parameters shall not exceed the prescribed standards.
- vii. Effluent from washing of storage tanks in POL Depot shall be properly treated in oil water separator 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.
- viii. Oil Industry Safety Directorate guidelines regarding safety against fire, spillage, pollution control etc. should be followed. Company should ensure no oil spillage occur during loading / unloading of petroleum products.
- ix. 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 Trans-boundary Movement) Rules 2008 and its subsequent amendments.
- x. 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.
- 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. All storage tanks shall be provided with design features based on applicable OISD standards.
- xiii. No change in the storage capacity and other facilities shall be made without getting proper approval from the Ministry.
- xiv. Fully automated tank farm management system (TFMS) will be provided for accounting of products & reconciliation.
- xv. 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.

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- xvi. 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 Bhubaneswar within 3 months of issue of the letter.
- xvii. Occupational health surveillance of worker shall be done on a regular basis and records maintained as per the Factory Act.
- xviii. 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 POL depot should be ensured.
- xix. 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.
- xx. All the recommendations mentioned in the EMP/DMP shall be implemented.
- xxi. Dedicated parking facility for loading and unloading of material should be provided in the POL Depot. Unit should develop and implement good traffic management system for their incoming and outgoing vehicles to avoid congestion on the public road.
- xxii. All the commitment made regarding issues raised during the public hearing/ consultation meeting held on 28th December, 2011 shall be satisfactorily implemented. Adequate budgetary provision to be kept for implementation.
- xxiii. 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.
- xxiv. 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.
- xxv. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, Safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

B. GENERAL CONDITIONS:

- i. The project authorities shall strictly adhere to the stipulations made by the Jharkhand State Pollution Control Board (JSPCB).
- 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,

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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 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).
- iv. 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.
- v. 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.
- vi. 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.
- vii. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- viii. **A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.**
- ix. 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.
- x. 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.
- xi. 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 JSPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.


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- xii. 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.
- xiii. 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.
- xiv. 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.


(A N Singh)
Dy. Director (S)

Copy to:-

1. The Secretary, Department of Environment, Govt. of Jharkhand, Jharkhand.
2. The Chief Conservator of Forests, Regional Office (EZ), A/3, Chandrashekharpur, Bhubaneswar, 751023. Orissa.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Chairman, Jharkhand Pollution Control Board, Town Administrative Building, HEC, Dhurwa, Ranchi- 824004.
5. Adviser, IA II(I), 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. Guard File/Monitoring File/Record File.

(A N Singh)
Dy. Director (S)