

F. No. J-11011/8/2011- 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 24<sup>th</sup> October, 2013

To,

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

E-mail : [dhootuk@iocl.co.in](mailto:dhootuk@iocl.co.in) ; Fax No.: 0120-2448026.

**Subject: Setting Up of Petroleum-Oil-Lubricant (POL) Terminal at Korba, Chhattisgarh by M/s Indian Oil Corporation Ltd. (IOCL) - Environmental Clearance reg.**

**Ref. : (i) Your letters dated 1<sup>st</sup> February, 2012 and 3<sup>rd</sup> September, 2013.**  
**(ii) SEIAA's letter no. 151/SEIAA-CG/EC/Pipeline/KRB/286 dated 1<sup>st</sup> May, 2013 and letter no. 551/SEIAA-CG/EC/pipeline KRB/286 dated 22<sup>nd</sup> July, 2013.**

Sir,

This has reference to your letter dated 1<sup>st</sup> February, 2012 alongwith Form-1, Prefeasibility Report, EIA/EMP report, Public Hearing Report and subsequent communications vide your letter dated 3<sup>rd</sup> September, 2013 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 Petroleum-Oil-Lubricant (POL) Terminal at Korba, Chhattisgarh by M/s Indian Oil Corporation Ltd. (IOCL). Proposed terminal is located inside the closed IBP Div. Explosive plant of IOCL at Village Gopalpur, Tehsil Katghora. Total land area under possession of IOCL is 244.36 acre. Area covered for POL marketing terminal (TOP; Tap off point) is 80 acres and. Out of which, area earmarked for tankage and loading facilities is 49 acres and greenbelt area is 31 acres. It is reported that there are no sensitive areas such as national parks and wildlife sanctuaries located within 15 km distance. Details of product wise tankage proposed at POL terminal are as follows:

S. N.	Tank No.	Product	SIZE OF TANKS	Nominal Capacity (KL)	Tank Type	Class
1.	HSD-1	HSD	34M DIA X13M HT.	11628	Cone Roof	B
2.	HSD-2	HSD	34M DIA X13M HT.	11628	Cone Roof	B
3.	HSD-3	HSD	26M DIA X14.5M HT.	7672	Cone Roof	B
4.	MS-1	MS	26M DIA X16M HT.	7389	Internal Floating Roof	A



5.	MS-2	MS	26M DIA X16M HT.	7389	Internal Floating Roof	A
6.	MS-3	MS	16M DIA X15M HT.	2614	Internal Floating Roof	A
7.	SKO-1	SKO	14M DIA X15M HT.	2301	Cone Roof	B
8.	SKO-2	SKO	14M DIA X15M HT.	2301	Cone Roof	B
9.	SKO-3	SKO	14M DIA X15M HT.	2301	Cone Roof	B
10.	ETHANO L-1	ETHANO L	4.12M DIA X15M HT.	200	U/G	A
11.	ETHANO L-2	ETHANO L	4.12M DIA X15M HT.	200	U/G	A
12.		Transmix Tank	10 M DIA X 9 M HT			
<b>SUB-TOTAL</b>				<b>55623KL</b>		
<b>FUTURE PROVISION :</b>						
13.	MS-4	MS	26M DIA X16M HT.	7389	Floating Roof	A
14.	HSD-4	HSD	34M DIA X13M HT.	11628	Cone Roof	B
<b>SUB-TOTAL</b>				<b>19017</b>		
<b>GRAND TOTAL</b>				<b>74640</b>		

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 and filling areas. Total fresh water requirement from ground water source will be 10 m<sup>3</sup>/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 22<sup>nd</sup>, and 34<sup>th</sup> meetings held during 29<sup>th</sup>-30<sup>th</sup> April, 2011 and 13<sup>th</sup>-14<sup>th</sup> April, 2012 respectively and Reconstituted Expert Appraisal Committee (Industry) in its 11<sup>th</sup> meeting held during 26<sup>th</sup>-27<sup>th</sup> August, 2013. The Committee recommended the proposal for environmental clearance. Project Proponent and the EIA Consultant M/s Mantec Consultants Pvt. Ltd. have presented EIA / EMP report as per the TOR. EAC has found the EIA Study / EMP Report to be adequate and in full consonance with the presented TORs. The Committee recommended the proposal for environmental clearance.

5.0 All the storage of petroleum products are listed at S.N. 6 (b) under category 'B'. However, applicability of general condition due to project location within 10 Km distance from critically polluted area, proposal is treated as category 'A' and appraised by Expert Appraisal Committee (I).

6.0 Public hearing of the project was held on 22<sup>nd</sup> 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 14<sup>th</sup> 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 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 Bhopal, CPCB and State Pollution Control Board.
- iii. 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.
- iv. Total fresh water requirement from ground water source shall not exceed 10 m<sup>3</sup>/day and prior permission should be obtained from the CGWA/SGWA.
- v. 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.
- vi. 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. No effluent shall be discharged outside the premises and 'Zero' effluent discharge concept shall be followed.
- vii. Oil Industry Safety Directorate guidelines regarding safety against fire, spillage, pollution control etc. shall be followed. Company should ensure no oil spillage occur during loading / unloading of petroleum products.
- viii. 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.
- 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 company shall obtain all requisite clearances for fire safety and explosives and shall comply with the stipulation made by the respective authorities.
- xi. All storage tanks shall be provided with design features based on applicable OISD standards.



- xii. No change in the storage capacity and other facilities shall be made without getting proper approval from the Ministry.
- xiii. Fully automated tank farm management system (TFMS) will be provided for accounting of products & reconciliation.
- 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. 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 Bhopal within 3 months of issue of the letter.
- xvi. Occupational health surveillance of worker shall be done on a regular basis and records maintained as per the Factory Act.
- xvii. 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.
- xviii. 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.
- xix. All the recommendations mentioned in the EMP/DMP shall be implemented.
- xx. 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.
- xxi. All the commitment made regarding issues raised during the public hearing/ consultation meeting held on 22<sup>nd</sup> December, 2011 shall be satisfactorily implemented. Adequate budgetary provision to be kept for implementation.
- xxii. Company shall adopt Corporate Environment Policy as per the Ministry's O.M. No. J-11013/41/2006-IA.II(I) dated 26<sup>th</sup> April, 2011 and implemented.
- xxiii. 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.
- xxiv. 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 State Government and State Pollution Control Board (SPCB).



- 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 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 Parishad/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 SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
- xii. The environmental statement for each financial year ending 31<sup>st</sup> 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



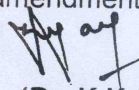
put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.

- 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.

  
(Dr. K K Garg)  
Director

**Copy to:-**

1. The Secretary (Environment), Govt. of Chhattisgarh, Mantralaya, D K S Bhavan, Raipur, Chhattisgarh.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110032.
3. The Chairman, Chhattisgarh Environment Conservation Board, Chhattisgarh Housing Board Colony, Kabir Nagar, Raipur(C.G.)
4. The Principal Chief Conservator of Forests(Central), Ministry of Environment, and Forests, Western Regional Office, Kendriya Paryavaran Bhavan, Link Road No. 3, Ravi Shankar Nagar, Bhopal - 462016
5. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi-110003.
6. Guard file / Record file/ Notice Board

  
(Dr. K K Garg)  
Director