

(811)08267 L-B
I V
S.V.R.

F. No. J-11011/46/2011-IA II (I)
Government of India
Ministry of Environment and Forests
(I.A. Division)

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

E-mail: ik.bokolia@nic.in
Telefax: 011: 2436 6017
Dated: 13th July, 2012

To,

Shri J. S. Patel, Chief Manager (Engg.)
M/s Indian Oil Corporation Ltd.,
G-9, 5th Floor, Ali Yavar Jung Marg
Bandra (East), Mumbai-400051, Maharashtra

E-mail: jspatel@indianoil.co.in ; Fax No.022-26447983:

Subject: Petroleum-Oil-Lubricant (POL) Depot (Storage Capacity; 21,903 KL) at Malom, Village Malom Tuliyaime, Tehsil Imphal, District West Imphal, Manipur by M/s Indian Oil Corporation Ltd. – Environmental Clearance reg.
Ref. : Your letter no. HO/ENG/IMPHAL/RA-REIA dated 9th November, 2011.

Sir,

This has reference to your letter dated 9th November, 2011 alongwith Form-1, Prefeasibility Report, EIA/EMP report, public hearing report and subsequent communications vide your letters dated 9th December, 2011, 22nd December, 2011 and 23rd March, 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 Petroleum-Oil-Lubricant (POL) Depot (Storage Capacity; 21,903 KL) at Malom, Village Malom Tuliyaime, Tehsil Imphal, District West Imphal, Manipur by M/s Indian Oil Corporation Ltd. Total plot area is 36 acres. No rehabilitation and resettlement (R & R) is involved. No bird sanctuary/national park are located within 10 km. Total cost of the project is Rs.70.00 Crores. This Depot projects will be executed in two phases. Under Phase-I, following facilities are proposed:

- i) Products will be received through tank truck by road. Provision will be made for receiving Petrol (MS), High Speed Diesel (HSD) and Superior Kerosene (HSD) & (SKO) by pipeline through independent product pipeline from pump house to tanks.
- ii) Depot will be provided with a total storage capacity of 21,975 KL of tankage (MS, HSD & SKO) and allied facilities and details of storage tanks are as give below:

S.N.	Product/No of tanks	Type of tank	Capacity in KLs
1	MS - 3 Nos.	FRVT	5124 KLs (3x 1708 KL)
2	HSD- 3 Nos.	CRVT	11796 KLs (3x 3932KL)
3	SKO- 3 Nos.	CRVT	5055 KLs (3x 1685 KL)

Under phase-II, railway sliding having provision of full BTPN rake of 48 tank wagons shall be made with provisions of unloading of MS/SKO/HSD/ATF .

3.0 Adequate stack height will be provided to D.G. sets. Vapour recovery system will be provided in Tank Truck Loading (TTL) to recover hydrocarbon. Total fresh water requirement

from ground water source will be 5 m³/day. Effluent generated from POL Depot will be treated in effluent treatment plant (ETP)/ oil water separator (OWS) and treated effluent will be recycled/reused within the depot 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 tank bottom oil sludge will be treated by bio-remediation process.

4.0 The proposal was considered by the Expert Appraisal Committee (Industry-2) in its 18th and 31st meetings held during 20th-21st January, 2011 and 12th-13th January, 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 Manipur.

6.0 Public hearing was conducted on 10th October, 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 Bulk Petroleum Oil & Lubricant (POL) Depot 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, CO, 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 shall 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 within the plant premises shall be carried out and data be submitted to Ministry's Regional Office at Shillong, CPCB and Manipur Pollution Control Board (MPCB). Quarterly monitoring for fugitive emissions shall be carried out as per the guidelines of CPCB and reports submitted to Ministry's Regional Office at Shillong.
- iv. Vapour recovery system shall be provided in Tank Truck Loading (TTL) to recover hydrocarbon.
- v. Total fresh water requirement from ground water source shall not exceed 5 m³/day and prior permission shall be obtained from the CGWA/SGWA.

- 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. As proposed, effluent containing oil from POL Depot shall be properly treated in ETP/oil water separator and treated wastewater shall conform to CPCB standards. Sewage shall be disposed off through septic tank followed by soak pit. No effluent shall be discharged outside the premises. No washing of truck shall be carried out.
- viii. 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.
- 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 Transboundary Movement) Rules 2008.
- x. Risk Assessment Report shall be revised to be based on the Realistic Scenarios and possible Hazard noted and to be taken care of by Preventive and Mitigative Barriers. The report shall be submitted to the Ministry's regional office at Shillong within 3 months.
- xi. Necessary approvals from Chief Controller of Explosives shall be obtained before commission of project. Requisite On-site and Off-site Disaster Management Plans shall be prepared and implemented. 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.
- xii. The company shall obtain all requisite clearances for fire safety and explosives and shall comply with the stipulation made by the respective authorities.
- xiii. MS shall be stored in floating roof tank with liquid mounted seal, foam and water spray system. HSD tanks shall be provided with foam and spray system. Fire fighting system shall be as per the OISD-117 Norms.
- xiv. No change in the storage capacity and other facilities shall be made without getting proper approval from the Ministry.
- xv. Tankers shall be as per IS 803 and OISD 117 & 118 for safety aspect
- xvi. As proposed, fully automated tank farm management system (TFMS) shall be provided for accounting of products & reconciliation.
- xvii. 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 Shillong within 3 months of issue of the letter.

- xviii. Emergency Response Plan should be based on the guidelines prepared by OISD, DGMS and Govt. of India. Mock drill should be conducted once in a month.
- xix. Company shall ensure that no spillage shall occur during storage, handling and transportation of petroleum products.
- xx. The company shall install automatic leak detection system supported with hooters or alarm system.
- xxi. 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.
- xxii. Occupational health surveillance of worker shall be done on a regular basis and records maintained as per the Factory Act.
- xxiii. Green belt should 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 should be ensured.
- xxiv. 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.
- xxv. All the recommendations mentioned in the EMP/DMP shall be implemented.
- xxvi. Dedicated parking facility for loading and unloading of material shall be provided in the POL Depot. Unit shall develop and implement good traffic management system for their incoming and outgoing vehicles to avoid congestion on the public road.
- xxvii. All the issues raised during the public hearing/consultation meeting on 10th October, 2011 shall be satisfactorily implemented.
- xxviii. 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 and adequate budget to be earmarked for implementation as admissible.
- xxix. 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.
- xxx. 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, mobile STP, 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 must strictly adhere to the stipulations made by the Manipur Pollution Control Board (MPCB), State Government 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 (day time) and 70 dBA (night time).
- v. A separate Environmental Management Cell equipped with full fledged laboratory facilities must be set up to carry out the environmental management and monitoring functions.
- vi. 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.
- vii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF, the respective Zonal Office of CPCB and the MPCB.
- viii. 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 MPCB. The Regional Office of this Ministry / CPCB / MPCB shall monitor the stipulated conditions. Environmental Clearance and six monthly compliance status reports shall be posted on the website of the company.
- ix. 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.

- x. 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 MPCB 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.
- xi. 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 shall implement these conditions.

10.0 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.



(Lalit Bokolia)
Joint Director

Copy to:

1. The Addl. Chief Secretary, Department of Environment, Govt. of Manipur, Manipur.
2. The Chief Conservator of Forests, Regional Office (NEZ), Upland Road, Laitumhran Shillong-793003.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Chairman, Manipur Pollution Control Board, Near Imphal West, DC Office Complex, Lamphelpat Imphal- 795004.
5. JS (RG) IA Division, 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.



(Lalit Bokolia)
Joint Director