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F. No. J-11011/377/2011 - 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 23rd April, 2012

To
 Shri D. K. Adhikari,
 Dy. General Manager (Operations)
 M/s Indian Oil Corporation Ltd.
 Marketing Division, Southern Region
 Indian Bhavan, 139, Mahatma Gandhi Road
 Chennai - 600034

Subject: Setting up of Additional Tankage at Petroleum Oil Terminal, Village Monur, Taluk Sankari, District Salem, Tamil Nadu by M/s Indian Oil Corporation Ltd. - Environmental Clearance reg.

Ref.: Your letter no. SKI/SEC dated 17th June, 2011.

Sir
 This has reference to your letter dated 17th June, 2011 alongwith Form-1. Prefeasibility Report EIA/EMP report, Public Hearing Report and subsequent communications vide your letters dated 12th September 2011 and 6th December, 2011 on the above mentioned subject.

The Ministry of Environment & Forests has examined your application. It is noted that proposal is for setting up of additional tankage at Petroleum Oil Terminal, Village Monur, Taluk Sankari, District Salem, Tamil Nadu. Plot area of existing terminal is 30 acres and additional facilities will be developed in the existing premises. No additional land will be required. Total project cost for expansion is Rs. 1356.46 Lakhs. Following are the details of the existing storage tanks facilities.

S.N.	Products	Class A/B/C	No. of Tanks	Capacity each Tank (KL)	Total Capacity (KL)
1	MS	A	2	936	1872
2	MS	A	2	7389	14778
			Subtotal		16650
3	SKO	B	2	3055	6110
4	HSD	B	3	3055	9165
5	HSD	B	2	5303	10606
			Subtotal		25881
6	Ethanol	A	2	70	140
7	Transmix	A/B	1	20	20
			Total		42891

Following additional storage tanks facilities will be installed:

S.N.	Products	Class A/B/C	No. of Tanks	Capacity each Tank (KL)	Total Capacity (KL)
1	HSD	B	2	5406	10812
2	ATF	B	3	3754	11262

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3	MS	A	1	302	302
	Total	-	6	-	22376

6 Nos. of bottom loading bays with depot automation facilities will be provided for tank truck loading

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 private water supply will be 215 m³/day. Effluent generated from POT 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 sent to the refinery for re-processing/bio-remediation. The slop oil obtained from oil water separator will be sent to the authorized re-processors.

4.0 The proposal was considered by the State Expert Appraisal Committee, Tamil Nadu in its meeting held during 22nd & 23rd July, 2010 and Expert Appraisal Committee (Industry-2) in its 30th meeting held during 15th-16th December, 2011 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 Tamil Nadu.

6.0 Public hearing of the project was held on 3rd December, 2010.

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 Terminal shall be provided, as may be required as per OISD or other statutory requirements
- ii. Regular ambient air quality monitoring of PM-₁₀, 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 in the plant premises shall be carried and data be submitted to Ministry's Regional Office at Bangalore, CPCB and Tamil Nadu Pollution Control Board (TNPCB). Quarterly monitoring for fugitive emissions shall be carried out as per the guidelines of CPCB and reports submitted to Ministry's Regional Office at Bangalore.
- iv. Vapor recovery system shall be installed to control leakage of vapor from tank/ vessels/processing unit.
- v. Possibility shall be explored to relocate loading /unloading facilities to a distance from new MS tanks.

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- vi. Total fresh water requirement from private water supply shall not exceed 215 m³/day and prior permission shall be obtained from the concerned Authority. No ground water shall be used.
- vii. 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.
- viii. As proposed, effluent from washing of storage tanks in Depot shall be properly treated in ETP and treated wastewater shall conform to CPCB standards. No effluent shall be discharged outside the premises. Sewage shall be disposed off through septic tank followed by soak pit. No effluent shall be discharged outside the premises.
- ix. 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.
- x. 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.
- 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. 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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- xviii. 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 Bangalore within 3 months of issue of the letter. Bio-remediation site shall be provided with HDPE lining
- xix. The company shall install automatic leak detection system supported with hooters or alarm system.
- xx. 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.
- xxi. Comprehensive Risk Assessment shall be carried to assess the fire and explosion risk due to POL Depot and report submitted to the Ministry and its Regional Office at Bangalore within six months.
- xxii. Unit shall carry out safety audit and report submitted to the Ministry and its Regional Office at Bangalore within six months.
- xxiii. Occupational health surveillance of worker shall be done on a regular basis and records maintained as per the Factory Act.
- xxiv. Green belt shall be developed in 33% of the plot area to mitigate the effect of fugitive emission air around the plant in consultation with DFO as per CPCB guidelines. Thick green belt around factory premises shall be ensured.
- xxv. 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.
- xxvi. All the recommendations mentioned in the EMP/DMP shall be implemented
- xxvii. 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.
- xxviii. Company shall adopt Corporate Environment Policy as per the Ministry's O.P. No J-11013/41/2006-IA.II(I) dated 26th April, 2011 and implemented.
- 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:

The project authorities shall strictly adhere to the stipulations made by the Tamil Nadu Pollution Control Board.

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- 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, Zilla Parishad/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 TNPCB. 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.

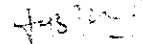
xiv The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at <http://envfor.nic.in>. This shall be advertised within 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 Pollution) Act, 1987, the Environment (Protection) Act, 1986 Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 alongwith their amendments and rules.



(Lalit Bokolia)
Joint Director

Copy to:-

1. The Principal Secretary, Department of Environment, Ground Floor, Panagal Buildings, Jeen's Road, Saidapet, Chennai - 600 015.
2. The Chief Conservator of Forests, Regional Office (Southern Zone), Bangalore, Karnataka Sadan, 4th Floor, E&F Wing, II Block Koramangala, Bangalore-560034
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Chairman, Tamil Nadu Pollution Control Board, Corporate Office, The Anna Salai, Guindy, Chennai - 600 032.
5. Joint Secretary, 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