

**F. No. J-11011/121/2013- IA II (I)**  
**Government of India**  
**Ministry of Environment, Forest and Climate Change**  
**(I.A. Division)**

**Indira Paryavaran Bhawan**  
**Aliganj, Jorbagh Road,**  
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**Dated 5<sup>th</sup> April, 2016**

To,

Shri S. C. Mehta (Executive Director)  
M/s HPCL  
HPCL, Mumbai Refinery, B.D. Patil Marg,  
Chembur, Mumbai- 400074

**E-mail: [scmehta@hpcl.co.in](mailto:scmehta@hpcl.co.in) ; Fax No. 25542008**

**Subject: Construction of Storage tanks associated facilities at Mumbai Refinery– II, Village Anik, Tehsil & District Chembur, Maharashtra by M/s HPCL – Environmental Clearance reg.**

**Ref: Your online proposal no. IA/MH/IND2/30816/2013 dated 8<sup>th</sup> September, 2015.**

Sir,

This has reference to your letter dated 8<sup>th</sup> September, 2015 alongwith project documents including Form I, Terms of References, Pre-feasibility Report, EIA/EMP Report alongwith Public hearing Report regarding above mentioned project.

2.0 The Ministry of Environment, Forests and Climate Change has examined the application. It is noted that the proposal is for construction of Storage tanks associated facilities at Mumbai Refinery– II, Village Anik, Tehsil & District Chembur, Maharashtra by M/s HPCL. The total land required for proposed Calico project is 57 acres. Out of area earmarked for greenbelt is 11.86 acre. Cost of project is Rs. 800 crores.

The proposed project comprises of the following major facilities as part of it:

- Storage facility for six different types of White Oils (MS grade-I, MS grade-II, HSD grade- I, HSD grade- II, SKO, ATF, Naphtha and Slop).
- MS I/MS II Storage Tanks – 8 Numbers (4 Numbers of 29620 KI gross capacity each + 4 Numbers of 14525 KI gross capacity each)
- HSD I/ HSD II Storage Tanks – 6 Numbers (4 Numbers of 29620 KI gross capacity each + 2 Numbers of 14535 KI gross capacity each)
- SKO Storage Tanks – 5 Numbers of 14535 KI gross capacity each
- ATF Storage Tanks – 5 Numbers (4 Numbers of 14927 KI gross capacity each + 1 Numbers of 1584 KI gross capacity)
- Naphtha Storage Tanks – 2 Numbers of 4964 KI gross capacity each
- Slop Storage Tanks – 2 Numbers of 4964 KI gross capacity each

*MR*

- Pipelines to receive all types of oils from the refinery.
- 2 numbers of 12" Pipe for MS-I & MS-II
- 2 numbers of 14" Pipe for HSD-I & HSD-II
- 2 numbers of 8" Pipe for SKO
- 1 number of 10" Pipe for ATF
- 1 number of 6" Pipe for SCN
- 24" new pipeline for MS-I/ MS-II, which will join existing pipeline corridor located just outside the refinery.
- 24" new pipeline for HSD-I/ HSD-II, which will join existing pipeline corridor located just outside the refinery.
- 10" diameter pipeline for dispatch of ATF from Calico to refinery.
- Slop will be transferred to refinery through 3" new pipeline.
- SCN will be transferred to refinery through 6" new pipeline.
- One 8" diameter new pipeline from SKO (Sales) for receipt and one 14" diameter new pipeline for SKO (Sales) for dispatch to Reliance industry through existing pipeline.
- Other associated facilities

3.0 Water requirement for proposed project is 5 m<sup>3</sup>/hr. The water will be sourced from Brihanmumbai Municipal Corporation (BMC). Wastewater from tankages will be treated in the existing ETP of the Refinery. Storm water will be passed through oil and grease trap. Total power requirement shall be 2.3 MW.

4.0 Public Hearing / Public Consultation meeting was conducted 17<sup>th</sup> March, 2015.

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 integrated project of refinery.

6.0 The proposal was considered by the Expert Appraisal Committee (Industry) in its meetings held during 10<sup>th</sup>-11<sup>th</sup> June, 2013, 30<sup>th</sup> September, 2013 – 1<sup>st</sup> October, 2013 and 11<sup>th</sup>-12<sup>th</sup> February, 2016 respectively. Project Proponent and the EIA Consultant namely M/s Engineers India Ltd., have presented EIA / EMP report as per the TOR. EAC has found the EIA / EMP Report and additional information to be satisfactory and in full consonance with the presented TORs. The Committee recommended the proposal for environmental clearance.

7.0 Based on the information submitted by the project proponent, the Ministry of Environment and Forests hereby accords environmental clearance and CRZ clearance to above project under the provisions of EIA Notification dated 14<sup>th</sup> September 2006 and CRZ notification, 2011, subject to the compliance of the following Specific and General Conditions:

**A. SPECIFIC CONDITIONS:**

- i) Adequate buffer zone around the oil tankages, as may be required as per OISD or other statutory requirements.



- ii) Regular online monitoring of VOC and HC in the work zone area in the plant premises should be carried and data be submitted to Ministry's Regional Office at Bhopal, CPCB and State Pollution Control Board.
- iii) Total fresh water requirement from ground water source shall not exceed 5.0 m<sup>3</sup>/hr and prior permission should be obtained from the concerned Authority.
- iv) 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.
- v) The oil draw off shall be treated in the existing ETP of the refinery. The treated effluent will be used for gardening/horticulture purpose. Oily sludge will be disposed off through approved TSDF facilities. No effluent shall be discharged outside the premises.
- vi) Storm water should pass through efficient oil and grease catchers to trap leaked oil and grease
- 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) Fully automated tank farm management system (TFMS) will be provided for accounting of products & reconciliation.
- xiii) 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.
- xiv) Bottom oil sludge shall be handled, stored and disposed as per CPCB/ MoEF guidelines.

- xv) Occupational health surveillance of worker shall be done on a regular basis and records maintained as per the Factory Act.
- xvi) At least 10 meter wide thick green belt shall be developed on all sides along the periphery of the project area, in downward direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.
- xvii) 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.
- xviii) All the recommendations mentioned in the EMP/DMP shall be implemented.
- xix) All the commitment made regarding issues raised during the public hearing/ consultation meeting shall be satisfactorily implemented. Adequate budgetary provision to be kept for implementation.
- xx) 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.
- xxi) 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.
- xxii) 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. 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.
- ii. 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 stations is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.
- 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. The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.
- 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. Usage of Personnel Protection Equipments (PPEs) by all employees/ workers shall be ensured.
- vii. 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.
- viii. 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.
- ix. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- x. A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- xi. As proposed, the company shall earmark sufficient funds toward 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.
- xii. 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 who suggestions/ representations, if any, were received while processing the proposal.
- xiii. 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 the Maharashtra Pollution Control Board. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
- xiv. 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.
- xv. 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.

- xvi. 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.



**(Lalit Bokolia)**  
**Additional Director**

Copy to:-

1. The Principal Secretary, Environment Department, Government of Maharashtra, 15th Floor, New Administrative Building, Mantralaya, Mumbai - 400 032
2. The Chief Conservator of Forests (Central), Kendriya Paryavaran Bhavan, Link Road No.3, Bhopal-462016.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Chairman, Maharashtra Pollution Control Board, Kalpataru Point, 3<sup>rd</sup> and 4<sup>th</sup> floor, Opp. Cine Planet, Sion Circle, Mumbai-400 022.
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhavan, Jor Bagh Road, New Delhi.
6. Guard File/ Record File/ Notice Board.



**(Lalit Bokolia)**  
**Additional Director**