

→ U. Anoop Sakshi / V. C. S.

For info to - MD
Sr VP (PRES) / JS
Regd. Jct 25/6/15

F. No. J-11011/156/2013- IA II (I)
Government of India
Ministry of Environment, Forests and Climate Change
(I.A. Division)

Indira Paryavaran Bhawan
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Dated 22nd June, 2015

To,

Shri A R S Bhandari
Jt. Sr.Vice President-(TS)
Bharat Oman Refineries Ltd.
Post : BORL Residential Township,
Dist. Sagar, Bina-470124
Madhya Pradesh

E-mail: abhairaj.bhandari@borl.co.in ; Fax No.- 91-7580-27 1045

Subject: Additional crude oil tanks (8 nos.) at Village Singach & Vadinar, Tehsil Lalpur and Khambhaliya, District Jamnagar, Gujarat by M/s Bharat Oman Refineries Limited - Environmental Clearance reg.

Ref. : Your letter no. BORL/MOEF/EC/2014/16 dated 23rd November, 2014.

Sir,

This reference to your letter dated 23rd November, 2014 alongwith project documents including Form I, Terms of References, Pre-feasibility Report, EIA/EMP Report, public hearing report regarding above mentioned project.

2.0 The Ministry of Environment, Forests and Climate Change has examined your application. It is noted that proposal is for establishment of 8 additional Crude Oil Tanks at Vadinar, Jamnagar District, Gujarat and utilizing the existing Single Point Mooring (SPM), subsea pipeline connecting the SPM with Crude Oil Terminal (COT), and the cross country Vadinar Bina Pipeline (VBPL) to cater to the increased crude processing rate of 7.8 MMTPA of refinery after expansion. The additional 8 nos. of storage tanks of capacity 60,000 m³ each shall be established within this allotted land. The cost of the proposed project is Rs. 250 Crores. . Total plot area is 167 ha. Part of marine sanctuary and marine national park fall within 15 Km distance of project site. The Chief Conservator of Forest, Marine National Park, Jamnagar vide their letter no. C/JMN/24 T-7/597/2013-14 dated 15th October, 2013 has clarified that the proposed additional crude oil storage tanks of BORL is out of Eco Sensitive Zone area and it does not fall in the area of Marine National Park and Marine Forest. Gujarat CZMA vide their letter no. ENV-10-2014-16-E dated 3rd December, 2014 has clarified that establishment of additional crude oil storage tanks for BORL, Crude Oil Terminal at Vadinar, District Jamnagar does not attract the provisions of CRZ notification 2011.

3.0 In order to control hydrocarbon leakages, the tanks will be provided with double seals to reduce the fugitive emissions. Water requirement from ground water source will be 120 m³/day. The sources of effluent are storm water drainage, crude water draw off from each of the tanks and sanitary wastewater. Storm water will be passed through efficient oil and grease catchers to trap leaked oil and grease. The crude oil draw off will be treated in the effluent treatment plant (ETP). The treated effluent will be used for gardening/horticulture purpose. Oily sludge and Waste/spent oil will be disposed off through authorized re-processors.

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4.0 Public hearing/consultation was conducted on 16th July, 2014.

5.0 All isolated storage & handling of hazardous chemicals are listed at S.N. 6(b) under category 'B' and appraised at state level. Since EC for establishment of existing SPM and Crude oil cross country pipeline obtained from MoEF & CC and considering proposal integrated in nature, the project proposal is treated under category 'A' project.

6.0 The proposal was considered by the Expert Appraisal Committee (Industry) in its 14th, 30th and 36th meetings held during 19th – 20th December, 2013, 22nd-23rd December, 2014 and 16th-17th March, 2015 respectively. Project Proponent and the EIA Consultant namely ABC Techno Labs India Pvt. Ltd and Centre for Environment, Health and Safety, Annamalai University 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 to above project under the provisions of EIA Notification dated 14th September 2006, subject to the compliance of the following Specific and General Conditions:

A. SPECIFIC CONDITIONS:

- i) Adequate buffer zone around the crude 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 120 m³/day and prior permission should be obtained from the CGWA/SGWA.
- 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 crude oil draw off shall be treated in ETP. 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 held on 16th July, 2014 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.

B. GENERAL CONDITIONS:

- i. The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any other statutory authority.
- ii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change. 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 National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be complied.

- iv. 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.
- v. 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).
- vi. 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.
- vii. Usage of Personnel Protection Equipments (PPEs) by all employees/ workers shall be ensured.
- viii. 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.
- ix. 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.
- x. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- xi. A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- xii. 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.
- xiii. 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.
- xiv. 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 Gujarat Pollution Control Board. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
- xv. 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.
- xvi. 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 www.moef.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.

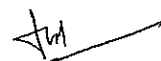
- xvii. The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.

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 alongwith their amendments and rules.

11.0 Environmental Clearance is issued to M/s Bharat Oman Refineries Ltd. for additional crude oil tanks (8 nos.) at Village Singach & Vadinar, Tehsil Lalpur and Khambhaliya, District Jamnagar, Gujarat.



(Lalit Bokolia)
Additional Director

Copy to:-

1. The Principal Secretary, Forests & Environment Department, Government of Gujarat, Sachivalaya, 8th Floor, Gandhi Nagar - 382 010, Gujarat.
2. The Additional Principal Chief Conservator of Forests(central), Ministry of Environment & Forests, Regional Office, E-5, Arera Colony, Link Road -3, Bhopal -462 016, M.P.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Chairman, Gujarat State Pollution Control Board, Paryavaran Bhawan, Sector 10 A, Gandhi Nagar-382 043, Gujarat.
5. Monitoring Cell, Ministry of Environment, Forests and Climate Change, Indira Paryavaran Bhavan, Jorbagh Road, New Delhi.
6. Guard File/Monitoring File/Record File.



(Lalit Bokolia)
Additional Director

