

# MAHARASHTRA POLLUTION CONTROL BOARD

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Mumbai-400 022.

Red/LSI

Consent No. MPCB/RO(HQ)/EIC-NM-38566-12/R/B/CC-920

Date: 13/02/2013

Consent to Operate under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization / Renewal of Authorization under Rule 5 of the Hazardous Wastes (Management, Handling & Transboundry Movement) Rules 2008

[To be referred as Water Act, Air Act and HW (M,H &T) Rules respectively].

CONSENT is hereby granted to,

M/s. Indian Oil Corporation Ltd.,  
JNPT Termial, Plot No.8,Nava Sheva,  
Tal-Uran, Raigad

located in the area declared under the provisions of the Water Act, Air act and Authorization under the provisions of HW(M,H &T) Rules and amendments thereto subject to the provisions of the Act and the Rules and the Orders that may be made further and subject to the following terms and conditions

1. The Consent to Operate is granted for period upto 30/4/2015.
2. The Consent is valid for the Storage and Handling of Petroleum Products to the maximum capacity of 60000 KL at a time.

No.	TANK NUMBER	Product Name	Maximum Capacity at a Time in KL
1.	T-1	HSD	20000 KL
2.	T-2	HSD	20000 KL
3.	T-3	HSD	20000 KL
	<b>TOTAL</b>		<b>60000 KL</b>

### 3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory should be **NIL**.
- (ii) The daily quantity of sewage effluent from the factory should not exceed **2.0 M<sup>3</sup>**.
- (iii) **Sewage Effluent Treatment:** The applicant should provide comprehensive treatment system as is warranted with reference to influent quality and operate and maintain the same continuously so as to achieve the quality of treated effluent to the following standards.

- (1) Suspended Solids Not to exceed 100 mg/l.
- (2) BOD 3 days 27 °C. Not to exceed 100 mg/l.

- (iv) **Sewage Effluent Disposal:** The treated domestic effluent should be soaked in a soak pit, which should be got cleaned periodically. In no Case,effluent shall find its way to water body directly/indirectly at any time.

- (v) Non-Hazardous Solid Wastes: NIL.
- (vi) Other Conditions: Applicant should monitor effluent quality regularly.

**4. The applicant should comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 (to be referred as Cess Act) and amendment Rules, 2003 there under**

The daily water consumption for the following categories is as under:

- (i) Domestic purpose ... 2.00 CMD
- (ii) Industrial Processing ... 0.00 CMD
- (iii) Industrial Cooling ... 0.00 CMD
- (iv) Agriculture/Gardening ... 0.00 CMD

The applicant should regularly submit to the Board the returns of water consumption in the prescribed form and pay the Cess as specified under Section 3 of the said Act.

**5. CONDITIONS UNDER AIR ACT:**

- (i) The applicant should install a comprehensive control system consisting of control equipments as is warranted with reference to generation of emission and operate and maintain the same continuously so as to achieve the level of pollutants to the following standards:

**Control Equipment:**

Air pollution control equipments of sufficient capacity should be provided to Limit the emission.

**a. Standards for Emissions of Air Pollutants:**

- (i) SPM/TPM Not to exceed 150 mg/Nm<sup>3</sup>
- (ii) SO<sub>2</sub> Not to exceed 1.0 Kg/day

**Conditions for D.G. Set**

- a. Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by Treating the room acoustically.
- b. Applicant should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) should also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
- c. The Applicant should take adequate measures for control of noise levels from its own sources within the premises in respect of noise to less than 75 dB(A) during day time and 70 dB(A) during the night time. Day time is reckoned between 6 a.m. to 10 p.m and night time is reckoned between 10 p.m to 6 a.m.
- d. Applicant should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
- e. Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
- f. Proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use

g. D.G. Set should be operated only in case of power failure

h. The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.

**1. Standards for Stack Emissions:**

**(i) The applicant should observe the following fuel pattern**

Sr. No.	Chimney Attached To	Height in Mtrs.
1.	DG Set ( 380KVA)	5.5 Mtrs. Above the roof Bldg.in which it is installed
2.	DG Set ( 380KVA)	5.5 Mtrs. Above the roof Bldg.in which it is installed
3.	Fire.Engine (4 Nos.)	5.5 Mtrs. Above the roof Bldg.in which it is installed

**(ii) The applicant should erect the chimney(s) of the following specifications:-**

Sr. No.	Type Of Fuel	Quantity	UOM
1	Diesel	1500	Lit/Hr.

**(i) Standards for Emissions of VOC Pollutants :**

Sr. No.	Petrochemical process / compounds	Maximum emission limit (mg/Nm <sup>3</sup> ) dry basis.
1	MA, PA, Phenol	20
2	Ethyl benzene (EB), Styrene, Toulene, Xylene, Aromatics, EG, PG	100
3	Non-methane HC (paraffin), Acetone, olefins	150

**(ii) Storage of Volatile Liquids : General Petroleum Products**

(1) Storage tanks with capacity between 4 to 75m<sup>3</sup> and total vapour Pressure (TVP) of more than 10 kpa should have Fixed Roof Tank (FRT) with pressure valve vent.

(2) Storage tank with the capacity between 75 to 500 m<sup>3</sup> and total vapour Pressure (TVP) of 10 to 76 kpa should have Internal Floating Root Tank (IFRT) of External Floating Root Tank (EFRT) or Fixed Roof Tank with vapour control or vapour balancing system.

(3) Storage tanks with the capacity of more than 500 m<sup>3</sup> and total vapour Pressure (TVP) of 10 to 76 kpa should have Internal Floating Roof Tank or External Floating Roof Tank or Fixed Roof Tank with vapour control system.

(4) The tanks with the capacity of more than 75 m<sup>3</sup> and total vapour Pressure (TVP) of more than 76 kpa should have Fixed Root Tank with vapour control system.

(5) Requirement for seals in Floating Roof Tanks:

(i) (a) IFRT and EFRT shall be provided with double seals with minimum vapour recovery of 96%.

(b) Primary seal shall be liquid or shoe mounted for EFRT and vapour mounted for IFRT. Maximum seal gap width will be 4 cm and maximum gap area will be 200 cm<sup>2</sup>/m of tank diameter. (c) Secondary seal shall be rim mounted. Maximum seal gap width will be 1.3 cm and maximum gap area will be 20 cm<sup>2</sup>/m of tank diameter. (d) Material of seal and construction shall ensure high performance and durability.

(ii) Fixed Roof Tanks shall have vapour control efficiency of 95% and vapour balancing efficiency of 90%

(iii) Inspection and maintenance of storage tanks shall be carried out under strict control. For the inspection, API RP 575 may be adopted, In-service inspection with regard seal gap should be carried out once in every six months and repair to be implemented in short time. In future, possibility of on-stream repair of both seals shall be examined.

Emission control for Road tank truck/Rail tank wagon loading		
Loading of Volatile Products	Gasoline and Naphtha:	
	(i) VOC reduction, %	(i) 99.5
	(ii) Emission, gm/m <sup>3</sup>	(ii) 5
Benzene:		
	(i) VOC reduction, %	(i) 99.99
	(ii) Emission, mg/m <sup>3</sup>	(ii) 20
Toluene/Xylene:		
	(i) VOC reduction, %	(i) 99.98
	(ii) Emission, mg/m <sup>3</sup>	(ii) 150
Note:		
(i) It shall be applicable for Gasoline, Naphtha, Benzene, Toluene and Xylene loading.		
(ii) Road tank Truck shall have Bottom loading and Roll tank wagon shall have Top submerged loading.		
(iii) Annual leak testing for vapour collection shall be done.		

(iii) The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB(A) during day time and 70 dB(A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.

(iv) **Other Conditions:**

- 1] The products /Chemicals should be properly stored in tanks which should be absolutely leak proof. At no stage of handling, there should be leakage or spillage.
- 2] The necessary arrangement for collection & treatment of leachate / tank bottom generated underneath the storage tank should be made along with provisions of Oil skimmers & necessary treatment arrangements for the same.

- 3] High level alarm synchronized with cut off capacity should be provided to the storage tanks.
- 4] The storage tanks should be kept in good conditions all the year round with adequate maintenance. The hazardous waste generated in handling, storage and transport should be disposed in accordance with Hazardous waste (M,H & T ) Rules 2008 & related amendments made therein.
- 5] The project authority should prepare On-site & Off-site emergency preparedness plan based on detailed risk analysis.
- 6] The internal roads should be cement concrete and should be maintained with adequate green belt.
- 7] The working area should be impermeable & covered with roof / shed.
- 8] Control Equipment: Applicant should make necessary provisions to arrest the emissions of volatile hydrocarbons to Environment by the way of volatile matter absorption system to the tank vent and monitoring arrangement.
- 9] The Applicant should regularly monitor ambient air quality and the emission of Volatile Organic Compound particularly Benzene, Toluene and Xylene from MoEF approved laboratory.
- 10] Monitoring of ground water (through Piezometric wells) and soil at appropriate places at regular interval (every 3 months) should be carried out to ascertain that these are not getting polluted while operating the booster station.
- 11] The Applicant should not cause any nuisance in surrounding area.
- 12] The industry should not cause any nuisance in surrounding area.
- 13] The industry should monitor emissions of VOC Pollutants and ambient air quality regularly from MoEF approved laboratory.

**6. CONDITIONS UNDER HAZARDOUS WASTE (MANAGEMENT, HANDLING TRANSBOUNDARY MOVEMENT) RULES, 2008:**

The Applicant should handle hazardous wastes as specified below.

Sr. No.	Type Of Waste	Quantity	UOM	Disposal
1	3.1-Oil containing cargo residue, wash water and sludge	60	KL/Year	Send to MWML
2.	5.2-Waste/residues containing oil	--	--	

**7. Industry should comply with following general conditions:**

- i. The applicant should maintain good housekeeping and take adequate measures for control of pollution from all sources so as not to cause nuisance to surrounding area / inhabitants.
- ii. The applicant should bring minimum 33% of the available open land under green coverage/ tree plantation.
- iii. Solid waste – The non hazardous solid waste arising in the factory premises, sweepings, etc., be disposed of scientifically so as not to cause any nuisance / pollution. The applicant should take necessary permissions from civic authorities for disposal to dumping ground.
- iv. The applicant should provide for an alternate electric power source sufficient to operate all pollution control facilities installed by the applicant to maintain compliance with the terms and conditions of the consent. In the absence, the applicant should stop, reduce or otherwise, control production to abide by terms & conditions of this consent regarding pollution levels.
- v. The applicant should not change or alter quantity, quality, the rate of discharge, temperature or the mode of the effluent / emissions or hazardous wastes or control equipments provided for without previous written permission of the Board.

- vi. The applicant should provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous wastes to the Board staff at the terminal or designated points and should pay to the Board for the services rendered in this behalf.
  - vii. The applicant should make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.
  - viii. The firm should submit to this office, the 30<sup>th</sup> day of September every year, the Environmental Statement Report for the financial year ending 31<sup>st</sup> March in the prescribed Form-V as per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
  - ix. An inspection book should be opened and made available to the Board's officers during their visit to the applicant.
  - x. The applicant should install a separate electric meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment should be maintained.
  - xi. Separate drainage system should be provided for collection of trade and sewage effluents. Terminal manholes should be provided at the end of collection system with arrangement for measuring the flow. No effluent should be admitted in the pipes / sewers down-stream of the terminal manholes. No effluent should find its way other than in designed and provided collection System.
  - xii. Neither storm water nor discharge from other premises should be allowed to mix with the effluents from the factory
8. This consent should not be construed as exemption from obtaining Necessary NOC From any other Government agencies as may deem fit Necessary.
  9. The applicant should comply with the MSHIC Rules, 1989 and as amended to date.
  10. The applicant shall submit a Bank Guarantee of Rs. 2 lakhs towards submission of report w.r.t. treatment and disposal of tank bottom sludge within one month and Bank Guarantee of Rs. 2 lakhs towards compliance revised standards for tank farm.
  11. The consent is issued with the approval of Consent Committee Meeting of the Board in its meeting held on 4<sup>th</sup> January, 2013.
  12. The Total Capital Investment of Industry is **Rs. 35.00Crore.**

  
**(Rajeev Kumar Mital, IAS)**  
 Member Secretary

**To,**  
**M/s. Indian Oil Corporation Ltd.,**  
**JNPT Terminal, Plot No.8, Nava Sheva,**  
**Tal-Uran, Raigad**

**Copy to:**

1. RO Navi Mumbai, MPCB: He is directed to obtain necessary Bank Guarantee from the applicant and ensure compliance of consent conditions.
2. SRO Talaja, MPCB.
3. CAO/Cess Branch/Master File

**Received Consent fee of –**

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1.	Rs.2,25,000/-	061293	11 <sup>th</sup> April, 2012	SBI Bank