

# MAHARASHTRA POLLUTION CONTROL BOARD

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Opp. Cineplanet, Near Sion Circle,  
Sion (E), Mumbai-400022.

*Red/L.S.I*

*Consent No: BO/MPCB/RO (HQ)/NK-14959-13/CR/CC- 467 Date: 16/01/2014*

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 & Transboundary Movement) Rules 2008

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

CONSENT is hereby granted to

M/s. Indian Oil Corporation Ltd(Storage),  
Manmad-Nandgaon Road, Panewadi Terminal,  
Vill-Nagapur, Manmad, Tal- Nandgaon, Dist - Nashik.

located in the area declared under the provisions of the Water Act, Air act and Authorization under the provisions of HW (M&H) 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 a period up to --- 30/06/2016.
2. The Consent is valid for the storage of -

Sr. No.	Tank No.	Product Name	Maximum Quantity at a time in KL
1	SR 01	Motor spirit	800
2	SR 02	Motor spirit	800
3	SR 24	Motor spirit	1100
4	SR 25	Motor spirit	1100
5	SR 03	Superior kerosene oil	2000
6	SR 04	Superior kerosene oil	2000
7	SR 05	High Speed Diesel	5000
8	SR 06	High Speed Diesel	5000
9	SR 07	High Speed Diesel	5000
10	SR 08	Ethanol	70
11	SR 09	Ethanol	70
Total			22940

### 3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall be Nil.
- (ii) The daily quantity of sewage effluent from the factory shall not exceed 10.0 M<sup>3</sup>.
- (iii) Trade Effluent :N.A
- (iv) Trade Effluent Disposal:N.A

SRO Nashik/IR/L/58043000

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

(vi) **Sewage Effluent Disposal:** The treated domestic effluent shall be soaked in a soak pit, which shall be got cleaned periodically. Overflow, if any, shall be used on land for gardening / plantation only.

(vii) **Non-Hazardous Solid Wastes:**

Sr. No.	Type Waste	Quantity	UOM	Treatment	Disposal
-----N.A.-----					

(viii) **Other Conditions:** Industry should monitor effluent quality regularly.

**4. The applicant shall 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  | ... | 11.00 CMD |
| (ii) Water gets Polluted & Pollutants are Biodegradable             | ... | 0.00 CMD  |
| (iii) Water gets Polluted, Pollutants are not Biodegradable & Toxic | ... | 0.00 CMD  |
| (iv) Industrial Cooling, spraying in mine pits or boiler feed       | ... | 5.00CMD   |

The applicant shall 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 :**

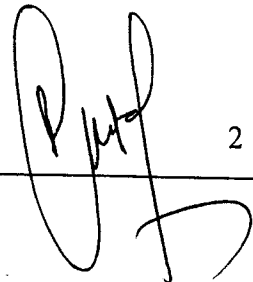
- (i) The applicant shall install a comprehensive control system consisting of control equipments as is warranted with reference to generation of emission and operate and maintain the same continuously so as to achieve the level of pollutants to the following standards:

**a. Control Equipment:**

Industry shall provide dust collector of sufficient capacity to control the emissions.

**6. 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. Industry 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) shall 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 industry shall take adequate measures for control of noise levels from its own sources within the premises in respect of noise to less than 55 dB(A) during day time and 45 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. Industry 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. A 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 shall 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

**7. Standards for Stack Emissions:**

- (i) The applicant shall observe the following fuel pattern:-

Sr. No.	Type Of Fuel	Quantity	UOM
1	HSD	35	Ltrs/hr for each D.G. Set

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

Sr. No.	Chimney Attached To	Height in Mtrs.
1	D.G. Set (250 KVA*2 Nos)	3.5 for each D.G.Set

- (iii) 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

- (iv) The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.

- (v) 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.

(vi) **Other Conditions:**

- 1) The industry should not cause any nuisance in surrounding area.
- 2) The industry should monitor stack emissions and ambient air quality Regularly.

**8. CONDITIONS UNDER HAZARDOUS WASTE (MANAGEMENT, HANDLING & TRANSBOUNDRY MOVEMENT) RULES, 2008:**

(i) The Industry shall handle hazardous wastes as specified below.

Sr. No.	Type Of Waste	Quantity	UOM	Disposal
1	3.3 Sludge and filters contaminated with oil	1.2	KL/Day	Bioremediation

(ii) Treatment: - NIL

1. The authorization is hereby granted to operate a facility for collection, storage, transport & disposal of hazardous waste.
2. The industry should comply with the Hazardous Waste (M&H) Rules, 2003.

a. Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.

b. Industry shall obtain registration from CPCB as a re-refiner of Used oil having environmentally sound technology as per the provisions of Hazardous Waste (Management & Handling) Rules 1989 & Amendment Rules 2003 before commencement of production.

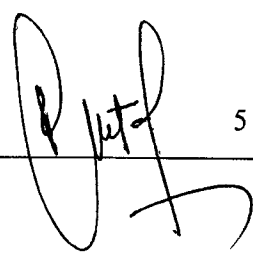
c. The unit has to display and maintain the data online outside the factory main gate in Marathi & English both on a 6'x4' display board in the manner and the report of the compliance along with photograph shall be submitted to this office & concerned Regional Office/ Sub Regional Office.

d. It shall be ensured that the Hazardous waste is handled, managed & disposed of strictly in accordance with the Hazardous Waste (Management & Handling) Rules, 1989 as amended on 2003 and shown & submitted to the Board as & when asked for.

**9. Storage of Volatile Liquids: General Petroleum Products:-**

- (I) 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.
- (II) 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) or External Floating Root Tank (EFRT) or Fixed Roof Tank with vapour control or vapour balancing system.
- (III) 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.
- (IV) 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.
- (V) 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%
- (a) 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

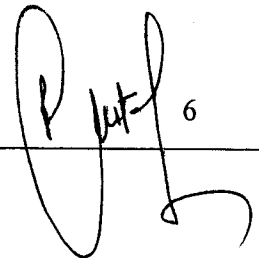


Note:

- (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.

**10. Industry shall comply with following additional conditions:**

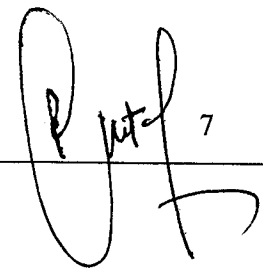
- i. The applicant shall maintain good housekeeping and take adequate measures for control of pollution from all sources so as not to cause nuisance to surrounding area / inhabitants.
- ii. The applicant shall bring minimum 33% of the available open land under green coverage/ tree plantation.
- iii. 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 shall take necessary permissions from civic authorities for disposal to dumping ground.
- iv. The applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by he applicant to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms & conditions of this consent regarding pollution levels.
- v. The applicant shall 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 shall 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 shall pay to the Board for the services rendered in this behalf.
- vii. The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.
- viii. The firm shall 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 shall be opened and made available to the Board's officers during their visit to the applicant.

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- x. The applicant shall 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 shall be maintained.
- xi. Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes / sewers down- stream of the terminal manholes. No effluent shall find its way other than in designed and provided collection System.
- xii. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.

**11. Other Conditions:**


- I. The products /Chemicals shall be properly stored in tanks which shall be absolutely leak proof. At no stage of handling, there shall be leakage or spillage.
- II. The necessary arrangement for collection & treatment of leachate /tank bottom generated underneath the storage tank shall be made along with provisions of Oil skimmers & necessary treatment arrangements for the same.
- III. High level alarm synchronized with cut off capacity shall be provided to the storage tanks.
- IV. The storage tanks shall be kept in good conditions all the year round with adequate maintenance. The hazardous waste generated in handling storage and transport shall disposed in accordance with Hazardous waste (Management & Handling) Rule 1989 & related amendments made therein.
- V. The project authority shall prepare On-site & Off-site emergency preparedness plan based on detailed risk analysis.
- VI. The internal roads shall be cement concrete and shall be maintained with adequate green belt.
- VII. The working area shall be impermeable & covered with roof / shed.
- VIII. Control Equipment: Industry shall 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.
- IX. The Industry shall regularly monitor ambient air quality and the emission of Volatile Organic Compound particularly Benzene, Toluene and Xylene from MoEF approved laboratory.

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- X. 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.
- XI. The industry should not cause any nuisance in surrounding area.
- XII. You shall mark serial nos on all storage tanks to be used. The remaining tanks should be marked 'X' sign in Red & written a 'Tank not in use'. You shall display the name of the material & its quantity in the tank on regular basis.
- XIII. Industry shall implement the notification issued by Ministry of Environment & Forest, Govt. of India. Dated 18 th March 2008 for storage of volatile liquids.

12. This consent is issued pursuant to the decision of Consent Committee Meeting of the Board held on 27<sup>th</sup> December 2013.

13. The Capital investment of the industry is Rs. 39.00 Crs.

  
(Rajeev Kumar Mital, IAS)  
Member Secretary

To,  
M/s. Indian Oil Corporation Ltd(Storage),  
Manmad-Nandgaon Road, Panewadi Terminal,  
Vill-Nagapur, Manmad, Tal- Nandgaon, Dist - Nashik.

Copy to-

1. Regional Officer, MPCB, Nashik/ Sub Regional officer, MPCB, Nashik - They are directed to ensure compliance of consent condition.
2. Chief Accounts Officer, Mumbai, MPCB

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	240000	230714	29 Aug 2013	SBI Bank

3. Cess Branch, MPCB, Mumbai.
4. Master file.