

MAHARASHTRA POLLUTION CONTROL BOARD

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RED/LSI

Consent No. MPCB/RO(HQ)/EIC-PN-11509-11/R/CAC-1399

Date: 15/02/2013

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 & Transboundary 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. Hindustan Petroleum Corporation Ltd.,
Pune-Solapur Pipeline Project,
HPCL Loni Kalbhor, Kadamwakvasti,
Tal: Havali, Dist: Pune

located in the area declared under the provisions of the Water Act, Air act and Authorisation 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 31/10/2015.

2. The Consent is valid for :

- a) Transportation of Petroleum Products viz High Speed Diesel, Motor Spirit and Superior Kerosene Oil through 343 Kms long Pune Solapur underground pipeline project.
- b) Booster/Pumping station for receipt and pumping of Petroleum products viz High Speed Diesel, Motor Spirit and Superior Kerosene Oil through 343 Kms long Pune Solapur underground pipeline project.

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 **4.0 M³**.
- (iii) **Sewage Effluent Treatment:** The applicant shall 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.
- (v) **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

(vi) **Non-Hazardous Solid Wastes:** NIL.

(vii) **Other Conditions:** Industry shall 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	...	5.00 CMD
(ii) Industrial Processing	...	0.00 CMD
(iii) Industrial Cooling	...	0.00 CMD
(iv) Agriculture/Gardening	...	0.00 CMD

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:

Control Equipment:

1. Adequate fume extraction system followed by dust collector of sufficient capacity shall be provided at all dust generating locations and operated properly.
2. There shall not be any secondary (fugitive) emissions

a. Standards for Emissions of Air Pollutants:

- (i) SPM/TPM Not to exceed 150 mg/Nm³
- (ii) SO₂ Not to exceed 6.0 Kg/day.

1. Standards for Stack Emissions:

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

Sr. No.	Type Of Fuel	Quantity	UOM
1	HSD	17.00	Lit/Hr.

(ii) Standards for Emissions of VOC Pollutants :

Sr. No.	Petrochemical process / compounds	Maximum emission limit (mg/Nm ³) 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

(iii) Storage of Volatile Liquids : General Petroleum Products

- (1) Storage tanks with capacity between 4 to 75m³ 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 m³ 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 m³ 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 m³ 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 cm²/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 cm²/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 ³	(ii) 5
	Benzene:	
	(i) VOC reduction, %	(i) 99.99
	(ii) Emission, mg/m ³	(ii) 20
	Toluene/Xylene:	
	(i) VOC reduction, %	(i) 99.98
	(ii) Emission, mg/m ³	(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) The applicant shall erect the chimney(s) of the following specification

Sr. No.	Chimney Attached To	Height in Mtrs.
1.	DG Set (125 KVA)	1.50 trs. Above the roof

6. Conditions for D.G. Set

- a. Noise from the D.G. Set shall be controlled by providing an acoustic enclosure or by treating the room acoustically.
- b. Industry shall provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room shall 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 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. Industry shall 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 shall 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 shall not cause any nuisance in the surrounding area due to operation of D.G. Set.

(i) Other Conditions:

- 1] The petroleum products should be transported through the pipeline which should be absolutely leak proof. At no stage of transport, there should be leakage or spillage.
- 2] Proper design and operational aspects of the system should be provided to ensure that oil and ground water are not contaminate d during the transport of petroleum products.
- 3] The pipeline 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 off in accordance with Hazardous waste (Management & Handling) Rules 1989 and amendments made thereto.
- 4] The project authority should prepare On-site & Off-site emergency preparedness plan based on detailed risk analysis.
- 5] The Industry should regularly monitor the emission of Volatile Organic Compound particularly Benzene, Toluene and Xylene
- 6] The industry should monitor ambient air quality regularly from MoEF approved laboratory.
- 7] Monitoring of ground water (through peizometric 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 transporting the petroleum products.
- 6] The industry should not cause any nuisance in surrounding area.

- (ii) 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.

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

The Industry shall handle hazardous wastes as specified below.

Sr. No.	Item No. as per Schedu I/II	Type Of Waste	Quantit	UOM	Disposal
1	4.1	Oily Sludge	120	Kg/Year	CHWTSDF
2.	5.1	Used/Spent Oil	270	Kg/Year	CHWTSDF
3.	5.2	Waste/Residue containing oil	170	Kg/Year	CHWTSDF

1. The authorization is hereby granted to operate a facility for collection, storage, transport & disposal of hazardous waste.
 - 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.

8. Industry shall comply with following general 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 30th day of September every year, the Environmental Statement Report for the financial year ending 31st March in the prescribed Form-V as per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- ix. As inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 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.
9. The Industry shall comply with the Hazardous Waste (Management, Handling & Trans Boundary Movement) Rules, 2008.
10. The applicant should comply with the MSHIC Rules, 1989 and as amended to date.
11. This Board reserves the right to amend, revoke or add any conditions in this Consent and same shall be binding on the applicant. If any noncompliance of the Conditions of consent to establish observed, the Board will initiate appropriate legal action including forfeiture of bank Guarantee, revocation of consent & further action.
12. This consent is issued with the decision of Consent Appraisal Committee Meeting of the Board held on 24th December, 2012.
13. The Total Capital Investment of Industry is Rs. 263.11 Crore.


(Rajeev Kumar Mital)
Member Secretary

To,
M/s. Hindustan Petroleum Corporation Ltd.,
Pune-Solapur Pipeline Project,
HPCL Loni Kalbhor, Kadamwakvasti,
Tal: Havali, Dist: Pune

Copy to:

RO, MPCB Pune/ SRO, MPCB, Pune-II / CAO / HWM Wing (RO-HQ)

Received Consent fee of –

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	9,00,000/-	083909	21 st August 2012	Bank of Baroda
2	6,78,660/-	083908	21 st August 2012	Bank of Baroda