

# MAHARASHTRA POLLUTION CONTROL BOARD

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EIC No: KN-6548-13

Red/SSI

Consent No. MPCB/ROHQ/ Kalyan /CE/CC/ 232

Date: 8/01/2014

Consent to Establish under Section 25 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

.....  
CONSENT is hereby granted to,

**M/s. Mahanagar Gas Ltd.,  
MGL House No G-33 Block,  
Bandra-Kurla Complex,  
Bandra (E) Mumbai-51-**

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 Establish is valid up to Commissioning of the Project or 5 years whichever is earlier.
2. The consent to establish is valid for below mentioned activity :
  - a) Laying of proposed Natural Gas Transmission and Distribution pipeline of 21 km from Mahape City Gas Station at Plot no: X-5/5, MIDC Mahape with 5 nos of tap offs and CNG Gas Stations within Dombivali-Shil Phata Mahape areas.
  - b) Proposed project involves Transportation and distribution system of piped Natural Gas, quantity estimated 8.17 MMSCM per month through underground pipelines and total length of line 21 km from Mahape City Gas Station at Plot no: X-5/5, MIDC Mahape , with 5 nos of tap offs and CNG Gas stations within Dombivali- Shil Phata- Mahape Areas.

3. **CONDITIONS UNDER WATER ACT:**

- (i) The daily quantity of sewage effluent from construction project shall not exceed Nil
- (ii) **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.

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1	pH	Not to exceed	6.5 to 9.0
2	Suspended Solids	Not to exceed	100 mg/l.
3	BOD 3 Days 27 degree C	Not to exceed	100 mg/l.
4	Fecal Coliform	Not to exceed	500/100/1 mg/l.
5	Residual Chlorine	Not to exceed	01 mg/l.
6	Detergent	Not to exceed	01 mg/l.
7	Floating matters	Not to exceed	10 mg/l
8	COD	Not to exceed	250 mg/l

(ii) **Sewage Effluent Disposal:** The treated domestic effluent shall be 80% recycled and reused for flushing, fire fighting and gardening and remaining shall be discharged to Municipal sewer. In no case, effluent shall find its way to any water body directly/indirectly at any time.

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

Sr. No	Type of Segregated solid waste	Quantity Kg/D	Treatment	Disposal
N.A.				

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	...	-- CMD
(ii) Water gets Polluted & Pollutants are Biodegradable	...	.. CMD
(iii) Water gets Polluted, Pollutants are not Biodegradable & Toxic	...	.. CMD
(iv) Industrial Cooling, spraying		.. 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 (Prevention & Control of Pollution) ACT, 1981:**

(i) The Applicant may install -- of diesel generating sets (DG Sets), of capacity -- shall be equipped with comprehensive control system as is warranted with reference to generations of emissions and operate and maintain the same continuously so as to achieve the level of pollutants to the following standards:

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

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

(ii) **The following measures shall be taken:**

a.	Adequate mitigation measures shall be taken to control emissions of SO <sub>2</sub> , NO <sub>x</sub> , SPM, and RSPM.		
b.	Applicant shall achieve following Ambient Air Quality standards.		
1.	SPM Not to Exceed (Annual Average)	140	µg/ m <sup>3</sup>
	Not to Exceed (24 hours)	200	µg/ m <sup>3</sup>
2.	SO <sub>2</sub> Not to Exceed (Annual Average)	60	µg/ m <sup>3</sup>
	Not to Exceed (24 hours)	80	µg/ m <sup>3</sup>
3.	NO <sub>x</sub> Not to Exceed (Annual Average)	60	µg/ m <sup>3</sup>
	Not to Exceed (24 hours)	80	µg/ m <sup>3</sup>
4.	RSPM Not to Exceed (Annual Average)	60	µg/ m <sup>3</sup>
	Not to Exceed (24 hours)	100	µg/ m <sup>3</sup>

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

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Sr. No.	Type Of Fuel	Quantity
1.	-	-

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

Sr. No.	Chimney Attached To	Height above the roof of building in which it is installed
2.	-	-

(v) Conditions for D.G. Set:

1. Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
2. 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.
3. 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.
4. 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.
5. Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
6. 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.
7. D.G. Set shall be operated only in case of power failure.
8. The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.

(vi) Other Conditions:

- i) 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.
- ii) Proper design and operational aspects of the system should be provided to ensure the oil and ground water are not contaminated during the transport of petroleum products.
- iii) 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 2008.
- iv) The project authority should prepare On-site & Off-site emergency Preparedness plan based on detailed risk analysis.
- v) The Industry should regularly monitor the emission of Volatile Organic Compound particularly Benzene, Toluene and Xylene.
- vi) The industry should monitor ambient air quality regularly from MOEF approved laboratory.
- vii) 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 transporting the petroleum products.
- viii) The industry should not cause any nuisance in surrounding area.

- a) 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.
- b) 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.

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

Sr. N	Type Of Waste	Quantity	UOM	Disposal
1	5.1 Used/Spent oil	20	MT/A	Shall be sent to Authorized reprocessor
2	5.2 Oil containing cotton	500	Kg/month	CHWTSDF
3	33.3 Empty container of Ethyl Mercapatan	3	Nos/month	CHWTSDF

(ii) Treatment: - NIL

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

7. 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 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 the 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.
- 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 Hazardous Waste (Management, Handling and Trans Boundary Movement) Rules, 2008.
10. This consent shall not be constructed as exemption from obtaining necessary, NOC from any other government agencies as may be deemed fit necessary.
11. The applicant shall comply with the guidelines under MSHIC Rules, 1989 and as amended to date.
12. The applicant shall obtain the Environmental Clearance exemption letter from the Ministry of Environment, Forests before applying for consent to operate.
13. This is issued pursuant to the decision of Consent Committee of the Board in its meeting held on 27<sup>th</sup> December, 2013.
14. The Capital investment of the Project is Rs.23.94 Cr.

(Rajeev Kumar Mital, IAS)  
Member Secretary

To,  
M/s. Mahanagar Gas Ltd. ,  
MGL House No G-33 Block,  
Bandra-Kurla Complex,  
Bandra (E) Mumbai-51

1. Regional Officer, MPCB, Kalyan He is directed to obtain necessary Bank Guarantee from the applicant and ensure compliance of consent conditions
2. Sub Regional officer- Kalyan-I MPCB, Thane
3. Chief Accounts Officer, Mumbai, MPCB.

Received consent fee of:-

Sr. No.	Amount	DD. No.	Date	Drawn On
1.	51,000/-	700473	11/10/2013	United Bank of India

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

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