

MAHARASHTRA POLLUTION CONTROL BOARD

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KALPATARU POINT, 3rd Floor,
Sion-Matunga Scheme Rd. No.8,
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Mumbai-400 022.

RED/LSI

Consent No. BO/JD(APC) EIC NO KP-8785-11/O/CC-~~CA~~-263

Date: 07/02/2012

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 (MH & TM) Rules respectively].

CONSENT is hereby granted to

**M/s. Ratnagiri Gas and Power Pvt. Ltd.,
(A Joint Venture of NTPC and GAIL),
LNG Terminal, Gat no. 1036,1037,1039 & 1040,
At & Post Anjanwal Tal: Guhagar,
Dist: Ratnagiri.**

located in the area declared under the provisions of the Water Act, Air act and Authorization under the provisions of HW(MH&TM) 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 – 31.12.2012
2. The Consent is valid for activity of LNG Terminal (Ancillary) for 5.0 MMTPA capacity includes storage and handling of liquefied natural gas (LNG) 4,80,000 M³ and methanol 20 KL at the time as scheduled:

Sr. No.	Product Name	Maximum Capacity at a time.
1	LNG Unloading Storage & Gasification facility Tank-200	160000M ³
2	LNG Unloading Storage & Gasification facility Tank-300	160000M ³
3	LNG Unloading Storage & Gasification facility Tank-400	160000M ³
4	Methanol	20 KL

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 8.0m³.
- (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 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: Nil**

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

(i) Domestic	10.0 CMD
(ii) Industrial processing	--- CMD
(iii) Industrial Cooling	--- CMD
(iv) Industrial Boiler/Cooling etc.	--- CMD
(v) Any other and gardening.	--- 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:

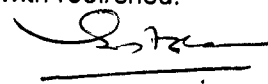
- 1) Flare stack of 30 Mtrs. height with burner should be provided.
- 2) Air pollution control equipments of sufficient capacity should be provided to limit the emissions if any.
- 3) Tower monitors are to be installed by the industry during necessary period of unloading LNG.
- 4) The industry should install water curtains during unloading of LNG.
- 5) The process area should also have fully automatic sprinklers system.
- 6) **Standards for Emissions of Air Pollutants:**
 - (i) SPM/TPM Not to exceed **150 mg/Nm³**
 - (ii) SO₂ from process Not to exceed **50 Mg/Nm³**

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

<u>Sr.No.</u>	<u>Chimney attached to</u>	<u>Height in Mtrs.</u>
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1.	Flare in Gasification Plant	30
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- (iii) 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.
- (iv) The industry should install detectors/monitors to all the isolated Storage tanks.
- (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) Industry shall comply the National Ambient Air Quality Monitoring standards prescribed by the MoEF/CPCB.
- (vii) **Other Conditions:**
- 1) The petroleum products 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 off in accordance with Hazardous Waste (Management, Handling and Transboundary Movement) 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: Industry 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 industry should regularly monitor the emission of Volatile Organic Compound particularly Benzene, Toluene and Xylene.
- 10) The industry should monitor ambient air quality regularly from MoEF approved laboratory.
- 11) The industry should not cause any nuisance in surrounding area.

6. CONDITIONS UNDER HAZARDOUS WASTE (MH & TM) RULES, 2008:

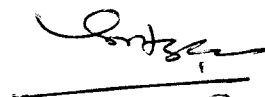
(i) The applicant shall handle hazardous waste as specified below:-

Sr. No.	Type Of Waste	Quantity	UOM	Disposal
1	5.1 Used/Spent oil	220	Kg/Month	Sale to MoEF approved Recyclers
2	Waste/Residue containing oil	10	Kgs/Month	Sale to MoEF approved Recyclers

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. General conditions:

- (i) The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30th September every year on available open plot area, no. of trees surviving as on 31st March of the year and no. of trees planted by September end.
- (ii) The applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by he applicant and operate the same in case of power failure to maintain compliance with the terms and conditions of the consent. In the absence of same, the applicant shall stop, reduce or otherwise, control production to abide by terms & conditions of this consent regarding pollution levels.
- (iii) 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.
- (iv) The firm shall submit MPCB, the Environmental Statement Report for the financial year ending 31st March in the prescribed Form-V as pre the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992 before 30th September every year.
- (v) The applicant shall install a separate 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. The applicant shall also submit a comparative statement of designed power and chemical consumptions vis-a vis actual power and chemical consumption along with Environmental statement.
- (vi) 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. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.



- (vii) 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. An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- (viii) The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
- (ix) 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.
9. 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.
10. This consent should not be construed as exemption from obtaining necessary NOC from any other Government agencies as may deemed fit necessary
11. This Board reserves the right to amend or add any conditions in this consent and the same shall be binding on the Applicant.
12. The consent is issued pursuant to the decision of Consent Appraisal Committee meeting of the Board held on 23.01.2012.
13. The Total Capital investment of industry is **Rs.2469.74 Crores.**

This is issued as per the Office Note dated 02.02.2012 approved by the Hon'ble Chairman of the Board.

For and On Behalf of the
Maharashtra Pollution Control Board,


(V.M. Motghare)
Joint Director (Air Pollution Control)

To,
M/s. Ratnagiri Gas and Power Pvt. Ltd.,
(A Joint Venture of NTPC and GAIL),
LNG Terminal,
At & Post Anjanwal Tal: Guhagar,
Dist: Ratnagiri.

Copy to:

- 1) Regional Officer, MPCB, KolhapurChiplun
3) Chief Accounts Officer, MPCB, Mumbai

Received Consent fee of – as per revised consent fee GR dated 25.08.2011.

Amount	D.D. No.	Date	Drawn on
Rs.49,39,480/-	976437	18.10.2011	State Bank of India

4) Cess Branch, MPCB.