

MAHARASHTRA POLLUTION CONTROL BOARD

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Consent No: Format 1.0/ BO/CAC-Cell/RO-Kilhapur/17th CAC/CC/CAC-10132
Date- 10/12/2013

To,
M/s Ratnagiri Gas & Power Pvt. Ltd.,
Village Anjanwel,
Tal-Guhagar Dist-Ratnagiri.

Subject: Renewal of Consent under RED category.

Ref : 1. Earlier Consent granted vide no. BO/JD(APC)/EIC No KP-11590-
12/R/CC/CAC-2929 dtd 08/04/2013
2. Minutes of CAC meeting held on 04.12.2013

Your application: CR1307000307

Dated: 14/06/2013

For: Renewal of Consent

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 under Rule 5 of the Hazardous Wastes (M, H & T M) Rules 2008 is
considered and the consent is hereby granted subject to the following terms and
conditions and as detailed in the schedule I, II, III & IV annexed to this order:

1. The consent is granted for a period from 01/09/2013 to 31/08/2014
2. The proposed and/or actual capital investment of the industry is
Rs.8644.7466Crs. (As per C.A.Certificate submitted by industry)

3. The Consent is valid for the manufacture of -

Sr. No.	Product / By-Product Name	Maximum Quantity in MT/A
1	Electricity	2001.08 MW (Consists of 670 MW of Block-1; 668.54 MW each of Block-2 & Block-3)+ 34 MW frame-6B or Peaking Turbine.

4. Conditions under Water (P&CP), 1974 Act for discharge of effluent:

Sr. no.	Description	Permitted quantity of discharge (CMD)	Standards to be achieved	Disposal
1.	Trade effluent	97,972	As per Schedule -I	Arabian Sea at a Point Specified by NIO
2.	Domestic effluent	340	As per Schedule -I	After treatment mixed and discharge alongwith trade effluent into Arabian Sea

5. Conditions under Air (P& CP) Act, 1981 for air emissions:

Sr. no.	Description of stack / source	Number of Stack	Standards to be achieved
1.	Process vents attached Turbine	07	As per Schedule -II
2	DG set	06	As per Schedule -II
3.	Incinerator	01	As per Schedule -II

6. Conditions about Non Hazardous Wastes:

Sr. no.	Type Of Waste	Quantity & UoM	Treatment	Disposal
A. Inert Material				
1	Molecular sieves, Activated/anthracite carbon, ion exchange resin	3 MT/A	NA	Landfill
2	Water pre-treatment sludge, cooling tower sludge.	20 MT/A	NA	Landfill
3	Wrappings, pouches, sachets and tetra packs, plastics bottles, broken glass bottles and fused tubes/bulbs.	2 MT/A	NA	Landfill
4	Discarded Clothing	200 Kg/A	NA	Landfill
5	Silica gel	500 Kg	NA	Landfill
6	Thermocol, insulation glass wool	1 MT/A	NA	Landfill
7	Sponge	1 MT/A	NA	Landfill
B. Compostable Material				
1	Kitchen waste	15 MT/A	Vermicomposting	Compost
2	Grass & Leaves	05 MT/A	Vermicomposting	Compost
C. Combustible Materials				
1	Wood and other combustibles like filter cartridges	150 MT/A	NA	Incineration/sale through local vendor
2	Papers & cotton fills, clothings, bags, liners etc.	1 MT/A	NA	Incineration

D. Metals				
1	Used MS drums	500 Nos/A	NA	Sale through Maharashtra State Transport Company
2	Used Intake air filters	7500 Nos	NA	Sale through Maharashtra State Transport Company
3	MS and GI scrapes	750 MT/A	NA	Sale through Maharashtra State Transport Company
4	Tin sheets/wrappers	02 MT/A	NA	Sale through Maharashtra State Transport Company
5	Aluminium wires/cables/sheets	02 MT/A	NA	Sale through Maharashtra State Transport Company
6	Copper wires	02 MT/A	NA	Sale through Maharashtra State Transport Company
E. Reusable Materials				
1	Used HDPE drums & containers	100 Nos/A	NA	Sale through Maharashtra State Transport Company
2	Used tyres	30 Nos/A	NA	Sale through Maharashtra State Transport Company
3	Plastics	1000 kg/A	NA	Sale through Maharashtra State Transport Company
4	Electricals scrape like switches	1000 kg/A	NA	Sale through Maharashtra State Transport Company
5	Insulation covers of cables	1000 kg/A	NA	Sale through Maharashtra State Transport Company
6	Unbroken glass bottles(regent bottles) 50 ml-2.5 litres in categories.	300 Nos/A	NA	Sale through Maharashtra State Transport Company

7	Plastics regent bottles	500 Nos/A	NA	Sale through Maharashtra State Transport Company
8	Rubber materials (V-belts, Gaskets etc)	2000 kg/A	NA	Sale through Maharashtra State Transport Company
9	PVC & HDPE pipes & materials	3 MT/A	NA	Sale through Maharashtra State Transport Company
10	Discarded office furniture	1000 Kg/A	NA	Sale through Maharashtra State Transport Company

7. Conditions under Hazardous Waste (MH & TM) Rules, 2008 for treatment and disposal of hazardous waste:

Sr. No.	Type Of Waste	Category	Quantity	UOM	Treatment	Disposal
1	Used/Spent oil	5.1	7.2	T/M	NA	Authorized recyclers Through MSTC
2	Wastes/Residue containing oil	5.2	6.0	T/M	NA	Authorized recyclers Through MSTC
3	Ash from incinerator	36.2	150	KG/M	Landfill	Secure landfill
4	Discarded containers/barrels used for chemicals	33.3	700	No/M	NA	Sale to vendors
5	Discarded containers of empty paint drums	21	1000	No/Y	NA	Sale to vendors
6	Electronic Waste		2000	Kg/y	NA	Registered recyclers through MSTC
7	Lead Acid Batteries		8000	kg/Y	NA	Registered recyclers through MSTC

8. The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
9. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities.

For and on behalf of the
Maharashtra Pollution Control Board

(Rajeev Kumar Mital, IAS)
Member Secretary

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	7199494	206343	04/06/2013	State Bank of India

The balance fees of Rs1,00,90,000 was already with the Board at the time of previous consent and now it is considered during this renewal of consent.

Copy to:

1. Regional Officer -Kolhapur and Sub-Regional Officer-Chiplun, MPCB,
They are directed to ensure the compliance of the consent conditions.
2. Chief Accounts Officer, MPCB, Mumbai.
3. CC/CAC desk- for record & website updation purposes.

Schedule-I

Terms & conditions for compliance of Water Pollution Control:

1) A] As per your application, you have provided the Effluent Treatment Plant (ETP) with the design capacity of 1000 CMD and effluent generated through cooling 96972 CMD treated in cooling tower and after maintaining temperature dispose into Sea.

B] The Applicant shall operate the effluent treatment plant (ETP) to treat the trade effluent so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

Sr No.	Parameters	Standards prescribed by Board
	I. Compulsory Parameters	Limiting Concentration in mg/l, except for pH
01	pH	5.5 to 9.0
02	Temp	Shall not exceed 5 C above the receiving water temperature
03	FRC	NA
04	SS	100 mg/l
05	O&G	20 mg/l
06	Copper	NA
07	Iron	3 mg/l
08	Zinc	15 mg/l
09	Chromium (Total)	2.0 mg/l
10	Phosphate	NA

C) The treated effluent 98299 CMD shall be disposed into the Sea at a point specified by NIO.

2) A.] As per your consent application, you have provided

- i. Housing Colony sewage treatment system with the design capacity of 240 CMD.
- ii. Housing Colony sewage treatment system with the design capacity of 2x50 CMD.

B] The Applicant shall operate the sewage treatment system to treat the sewage so as to achieve the following standards/ prescribed under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

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

The 100 % treated sewage shall be mixed with cooling water blow down and disposed into Sea at a point specified by NIO.

3) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or and extension or addition thereto.

4) The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.

- 5) The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 and as amended, by installing water meters, filing water cess returns in Form-I and other provisions as contained in the said act.

Sr. no.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	159675
2.	Domestic purpose	800
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	987
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	---- CMD

- 6) The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act,1986 and rule made there under from time to time/ Environmental Clearance / CREP guidelines.

Schedule-II

Terms & conditions for compliance of Air Pollution Control:

1. As per your application, you have provided the Air pollution control (APC) system and erected following stack (s) and to observe the following fuel pattern-

Sr. No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM	S %	SO ₂ Kg/Day
1	Frame 6GT, HRSG-1A, HRSG-1B, HRSG-2A, HRSG-2B, HRSG-3A, HRSG-3B,	1) DLN Combustion system 2) Water injection while on Liquid Fuel	Frame 6 GT- 58 mtrs and 1A,1B,2A, 2B,3A,3B is 98 mtrs	1) Natural gas 2) Naphtha Distillate (Presently Natural Gas is used)	1) 8310 TPD 2) 9360 TPD 3) 9750 TPD	1- NG-NIL, 2- Naptha-0.3%, 3) Dist oil-0.15%	195 MT/D
2	DG-Set-285 KVA, DG-Set-600 KVA, DG-Set-1250 KVA, DG-Set-625 KVA, DG-Set-350 KVA, DG-Set-1000 KVA	Acoustic enclosuer	DG-Set-285 KVA-5 mtrs, DG-Set-600 KVA-5 mtrs, DG-Set-1250 KVA-15 mtrs, DG-Set-625 KVA-15 mtrs, DG-Set-350 KVA-15 mtrs, DG-Set-1000 KVA-15 mtrs,	Disel	Emergency Standby		
5	Incinerator (Non-Hazadous Solid Waste)	Scrubber & Ventury Scrubber	30 mtrs	LDO or HSD max. 45 kg/hr	120 kg/hr	HSD-1%, LDO-1.8%	57.6

2. The Applicant shall provide Specific Air Pollution control equipments as per the conditions of EP Act, 1986 and rule made there under from time to time / Environmental Clearance / CREP guidelines. (Concern section shall mention specific control equipments)

3. The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards:

1	Particulate matter	Not to exceed	150 mg/Nm ³ .
3	NO _x		
3.1	Combined cycle WHRB stacks 1A,1B,2A,2B,3A,3B		
3.1.1	Natural Gas firing	Not to exceed	27 ppm (v/v at 15 % oxygen)
3.1.2	Naptha/Distillate oil firing	Not to exceed	77 ppm (v/v at 15 % oxygen)
3.2	Simple cycle (Peaking) Turbine (Frame-6 GT) Stack		
3.2.1	Natural Gas firing	Not to exceed	42 ppm (v/v at 15 % oxygen)
3.2.2	Naptha/Distillate oil firing	Not to exceed	77 ppm (v/v at 15 % oxygen)

4. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement well before its life come to an end or erection of new pollution control equipment.
5. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).

Maharashtra Pollution Control Board

**Schedule-III
Details of Bank Guarantees**

Sr. No.	Consent (R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	Renewal	5,00,000/-	15 days	Compliance of O&M of Pollution Control Equipments	31.08.2014	31/12/2014

The Validity of the existing BG's mentioned above should be extended upto validity date mentioned above.

Schedule-IV

General Conditions:

- 1) The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
- 2) Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
- 3) 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.
- 4) 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.
- 5) The industry shall take necessary preventive measures to stop overflow of cooling tower water in the environment by providing necessary arrangements including dykewalls, storage ponds etc.
- 6) The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed 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 and conditions of this consent.
- 7) 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.
- 8) The industry shall send used oil to reprocess/re refiners authorized by MPCB & the Hazardous Waste to CHWTSDF Butibori Nagpur as per the provision contain in the HW(MH&TM) Rules 2008.
- 9) The industry should comply with the Hazardous Waste (M,H & TM) Rules, 2008 and submit the Annual Returns as per Rule 5(6) & 22(2) of Hazarsous Waste (M,H & TM) Rules, 2008 for the preceding year April to March in Form-IV by 30th June of every year.
- 10) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 11) **The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.**
- 12) Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act,1981 and Environmental Protection Act,1986 and industry specific standard under EP Rules 1986 which are available on MPCB website(www.mpcb.gov.in).
- 13) **The industry shall constitute an Environmental cell with qualified staff/personnel/agency to see the day to day compliance of consent condition towards Environment Protection.**
- 14) Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
- 15) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.

- 16) 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.
- 17) 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) 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.
 - d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
 - e) 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
 - f) D.G. Set shall be operated only in case of power failure.
 - g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
 - h) The applicant shall comply with the notification of MoEF dated 17.05.2002 regarding noise limit for generator sets run with diesel
- 18) The industry should not cause any nuisance in surrounding area.
- 19) 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.
- 20) The applicant shall maintain good housekeeping.
- 21) The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a statement on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end, with the Environment Statement.
- 22) 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 of solid waste.
- 23) The applicant shall not change or alter the 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. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
- 24) 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.
- 25) The industry shall submit quarterly statement in respect of industries' obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can be downloaded from MPCB official site).
- 26) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 27) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dt. 16.11.2009 as amended.

- 28) The industry shall comply the orders/directions issued by Hon'ble High court & Supreme Court, issued from time to time.
- 29) The industry shall also ensure that all the studies/surveys etc., carried out through external agencies are completed in time and necessary corrective measures are taken.
- 30) The applicant shall Operate online opacity meter/continuous monitoring system for process stack emission analysis & same shall be directly connected to MPCB website <http://mpcb.gov.in> as well as to the respective Regional Office within 3 months period and operate the same regularly.
- 31) The applicant shall Operate continuous automatic ambient air and micrometeorological monitoring station at location indicated by MPC Board to be set up and operate at its own cost for measurement of SO₂, NO_x and particulate matter. These CAAQMS shall also have necessary provision of networking to the Air Quality Monitoring network of MPCB.

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