

MAHARASHTRA POLLUTION CONTROL BOARD

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Consent order No: - BO/EIC No.KP-15946-14/CAC-CELL/CC-2675

Date- /02/2015 10/03/2015

To,
M/s Ratnagiri Gas & Power Pvt. Ltd.,
Village Anjanwel,
Tal-Guhagar Dist-Ratnagiri-415634.

Subject: Renewal of Consent to Operate with increase in capital investment under RED category.

Ref : 1. Earlier Consent granted vide no. Format 1.0/Bo/CAC-Cell/Ro-Kolhapur/17th
CAC/CC/CAC-10132 dtd 10.12.2013. valid till 31.08.2014
2. Minutes of CAC meeting held on 21.01.2015

Your application; CR1408000079

Dated: 25/06/2014

For: Renewal of Consent to Operate with increase in capital investment 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 01/09/2014 to 31/08/2015.
2. The actual capital investment of the industry is Rs. 8673.65 Crs. (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 MTA |
|---------|---------------------------|---|
| | 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 | 97,959 | 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 MSTC |
| 2 | Used Intake air filters | 7500 Nos | NA | Sale through MSTC |

| | | | | |
|------------------------------|--|-----------|----|-------------------|
| 3 | MS and GI scrapes | 750 MT/A | NA | Sale through MSTC |
| 4 | Tin sheets/wrappers | 02 MT/A | NA | Sale through MSTC |
| 5 | Aluminium wires/cables/sheets | 02 MT/A | NA | Sale through MSTC |
| 6 | Copper wires | 02 MT/A | NA | Sale through MSTC |
| E. Reusable Materials | | | | |
| 1 | Used HDPE drums & containers | 100 Nos/A | NA | Sale through MSTC |
| 2 | Used tyres | 30 Nos/A | NA | Sale through MSTC |
| 3 | Plastics | 1000 kg/A | NA | Sale through MSTC |
| 4 | Electricals scrape like switches | 1000 kg/A | NA | Sale through MSTC |
| 5 | Insulation covers of cables | 1000 kg/A | NA | Sale through MSTC |
| 6 | Unbroken glass bottles(regent bottles) 50 ml-2.5 litres in categories. | 300 Nos/A | NA | Sale through MSTC |
| 7 | Plastics regent bottles | 500 Nos/A | NA | Sale through MSTC |
| 8 | Rubber materials (V-belts, Gaskets etc) | 2000 kg/A | NA | Sale through MSTC |
| 9 | PVC & HDPE pipes & materials | 3 MT/A | NA | Sale through MSTC |
| 10 | Discarded office furniture | 1000 Kg/A | NA | Sale through MSTC |


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


(Dr. P. Anbalagan, IAS)
Member Secretary

Received Consent fee of -

| Sr. No. | Amount(Rs.) | DD. No. | Date | Drawn On |
|---------|-------------|---------|------------|---------------------|
| 1 | 17347300 | 087268 | 24/06/2014 | State Bank of India |
| 2 | 75100 | 091752 | 14/02/2015 | State Bank of India |

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 (If any) |
|--------|---------------------------------|---|
| | 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 97959 CMD shall be disposed Discharge to 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. Power Block sewage treatment system with the design capacity of 2x50 CMD.

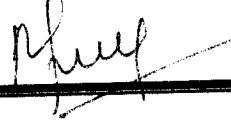
B] The Applicant shall operate the sewage treatment system to treat the sewage so as to achieve the following standards/ prescribed under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

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

C] The treated domestic effluent shall be either used for plantation or 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 | ---- |

- 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 also 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-1, 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 Oil (Presently Natural Gas is used) | 1) 8310 TPD 2) 9360 TPD 3) 9750 TPD | 1- NG-NIL, 2- Napt ha-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 | | |
| 3 | Incinerator (Non-Hazardous 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)

[Handwritten Signature]

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 | NOx | | |
| 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/alteration 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).

Schedule-III
Details of Bank Guarantees

| Sr. No. | Consent (R) | Amt of BG Imposed | Submission Period | Purpose of BG | Compliance Period | Validity Date |
|---------|--------------------------------------|-------------------|-------------------|---|-------------------|---------------|
| 1 | C to R (Existing to be extended) | 5,00,000/- | 15 days | Compliance of O&M of Pollution Control Equipments | 31.08.2015 | 31.12.2015 |

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Maharashtra Pollution Control Board

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 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.
- 9) An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 10) **The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.**
- 11) 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).
- 12) 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.
- 13) 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.
- 14) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- 15) 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.
- 16) **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
- 17) The industry should not cause any nuisance in surrounding area.
- 18) 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.
- 19) The applicant shall maintain good housekeeping.
- 20) 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.
- 21) 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.
- 22) 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.
- 23) 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.
- 24) 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).
- 25) The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 26) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dt. 16.11.2009 as amended.
- 27) The industry shall comply the orders/directions issued by Hon'ble High court & Supreme Court, issued from time to time.
- 28) 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.
- 29) 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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