

# MAHARASHTRA POLLUTION CONTROL BOARD

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Consent order No :- Formate 1.0/ BO/CAC-Cell/ EIC No.NM-5084-14 /14thCAC - 9776  
Date- 21/10/2014

To,  
Oil and Natural Gas Corporation Ltd,  
Dronagiri, Uran, Dist-Raigad

Subject: 1st operate and Renewal with amalgamation of both consents RED category.

Ref : 1. Earlier Consent granted vide no. BO/PAMS/Amendment/EIC NO.NM-1637-10/CC/CAC-794 dated 23.01.2013 and BO/JDPAMS/RONM/EICNO-NM-1931-10/E/CC CAC-60 dated 13.12.2011  
2. Minutes of CAC meeting held on 28.08.2014

Your application: CR1312000204  
Dated:19.12.2013

For: 1st operate and Renewal with amalgamation of both consents 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 01.01.2014 to 31.08.2016.
2. The actual capital investment of the industry is Rs.2245.02 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          |                 |
|---------|---|---------------------------|-----------------|
| I       | Operation of Uran Plant with Additional Processing Unit | a) Crude Oil              | 20 MMTPA        |
|         |   | b) Natural Gas            | 16.00 MMSM3/DAY |
|         |   | c) LPG                    | 0.625 MMTPA     |
|         |   | d) Naptha                 | 0.330 MMTPA     |
|         |   | e) C2-C3                  | 0.625 MMTPA     |
|         |   | f) Electricity generation | 59.6 MW         |

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    | 9000                                  | As per Schedule -I       | Through closed pipeline into sea. |
| 2.      | Domestic effluent | 60                                    | As per Schedule -I       | Septic Tank                       |

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.      | Gas Heater (LPG-I)            | 1               | As per Schedule -II      |
| 2.      | Gas Heater (LPG-II)           | 1               | As per Schedule -II      |
| 3.      | Gas Turbine (LPG-I)           | 1               | As per Schedule -II      |
| 4.      | HRSI-I (GT-1)                 | 1               | As per Schedule -II      |
| 5.      | HRSI-II (GT-2)                | 1               | As per Schedule -II      |
| 6.      | HRSI-III (GT-3)               | 1               | As per Schedule -II      |
| 7.      | Thermax Boiler                | 1               | As per Schedule -II      |
| 8.      | Elevated Flare (Old)          | 1               | As per Schedule -II      |
| 9.      | Elevated Flare (New)          | 1               | As per Schedule -II      |
| 10.     | Box Flare                     | 1               | As per Schedule -II      |
| 11.     | New Boiler                    | 1               | As per Schedule -II      |
| 12.     | Heater                        | 1               | As per Schedule -II      |
| 13.     | DG Set (03 Nos)               | 3               | As per Schedule -II      |

6. Conditions about Non Hazardous Wastes:

| Sr. no. | Type Of Waste | Quantity & UoM | Treatment | Disposal                 |
|---------|---------------|----------------|-----------|--------------------------|
| 1       | Kitchen waste | 50kg/day       | ---       | Through Local body       |
| 2       | Paper waste   | 2kg/day        | ----      | Sale to authorized party |

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       | Filter candle removed from CFU I & II, LPG I & II, S/c ph-II can contain pyrophoric substance | 4.4 ( Sch-I) | 20       | MT/Y | ---       | CHWTSDF  |
| 2       | Sludge from Waste Water treatment   | 4.5 ( Sch-I) | 300      | MT/Y | ---       | CHWTSDF  |
| 3       | Glass Wool  | B2020        | 100      | MT/Y | ---       | CHWTSDF  |
| 4       | Poly Urethane   | B-18         | 30       | MT/Y | ---       | CHWTSDF  |

|    | Foam  | (Sch-II)        |      |      |     |         |
|----|---|-----------------|------|------|-----|---------|
| 5  | Spent carbon / spent charcoal   |                 | 50   | MT/Y | --- | CHWTSDF |
| 6  |   | 34.3 (Sch-I)    |      | MT/Y | --- | CHWTSDF |
| 7  | Electrical Waste  | A - 6 (Sch-II)  | 4    | MT/Y | --- | CHWTSDF |
| 8  | Spent Catalyst & Molecular sieves   | 1.7             | 150  | MT/Y | --- | CHWTSDF |
| 9  | Polypropylene Biotower packing media  | 1.7             | 150  | MT/Y | --- | CHWTSDF |
| 10 | Spent resin   | 34.2            | 10   | MT/Y | --- | CHWTSDF |
| 11 | AFFF  | B-24 (Sch-II)   | 40   | MT/Y | --- | CHWTSDF |
| 12 | Sludge for storage tank   | 3.3 (Sch-I)     | 1000 | MT/Y | --- | CHWTSDF |
| 13 | Batteries (Lead acid & Ni - Cd)   | A4,B-6 (Sch-II) | 2    | MT/Y | --- | CHWTSDF |
| 14 | Electronic Waste  |                 | 2    | MT/Y | --- | CHWTSDF |
| 15 | Filters & Filter material which have organic liquids in them arising from purification of organic compounds | 35.1(Sch-I)     | 5    | MT/Y | --- | CHWTSDF |

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.
10. Industry shall install STP by 30.04.2015 and submit BG of Rs 5 lakhs for the compliance of the same.
11. Industry shall submit an affidavit by 31.10.2014 that power plant 20 X 2 MW installed in 1984 and 19.6 MW installed in 2000 and their capital investment were included in previous consent.

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       | 53,19,100   | 013532  | 22.08.2013 | SBI      |
| 2       | 66, 16,164  | 013703  | 30.01.2013 | SBI      |
| 3       | 1535100     | 916852  | 15.07.2014 | SBI      |
| 4       | 869460      | 014481  | 30.09.2014 | SBI      |

Copy to:

1. Regional Officer – Navi Mumbai and Sub-Regional Officer-Taloja 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 9000CMD.

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)        |
|--------|---------------------------------|---|
|        |                                 | Limiting Concentration in mg/l, except for pH |
| 01     | pH                              | 5.5-9.0                                       |
| 02     | Oil & Grease                    | 10  |
| 03     | BOD (3 days 27°C)               | 30  |
| 04     | Chromium as Cr Hexavalent Total | 0.1   |
| 05     | Copper as Cu                    | 0.05  |
| 06     | Suspended Solids                | 100   |
| 07     | Cyanide as CN                   | 0.0005  |
| 08     | Fluoride                        | 1.5   |
| 09     | Lead as Pb                      | 0.05  |
| 10     | Mercury                         | 0.01  |
| 11     | Zinc                            | 5   |
| 12     | Nickel as Ni                    | 0.1   |

C) The treated effluent shall be discharge to the Sea through well designed marine outfall.

2) A.] As per your consent application, you have provided the septic tanks and soak pits.

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 sewage shall be soaked in a soak pit, which shall be got cleaned periodically.

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                                       | 15000                            |
| 2.      | Domestic purpose   | 100                              |
| 3.      | Processing whereby water gets polluted & pollutants are easily biodegradable                   | 0                                |
| 4.      | Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic | 2600                             |

- 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:**

- 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 <sub>2</sub> Kg/Day |
|---------|----------------------|------------|-----------------|--------------|---|-----|------------------------|
| 1       | Gas Heater (LPG-I)   | Stack      | 25.27           | Natural Gas  | Total Quantity 550134 m <sup>3</sup> /day | Nil | 50 kg/day              |
| 2       | Gas Heater (LPG-II)  |            | 25.27           |              |   |     |                        |
| 3       | Gas Turbine (LPG-I)  |            | 25              |              |   |     |                        |
| 4       | HRSG-I (GT-1)        |            | 30.36           |              |   |     |                        |
| 5       | HRSG-II (GT-2)       |            | 18.36           |              |   |     |                        |
| 6       | HRSG-III (GT-3)      |            | 32.00           |              |   |     |                        |
| 7       | Thermax Boiler       |            | 30.00           |              |   |     |                        |
| 8       | Elevated Flare (Old) |            | 80.00           |              |   |     |                        |
| 9       | Elevated Flare (New) |            | 90.00           |              |   |     |                        |
| 10      | Box Flare            |            | 25.00           |              |   |     |                        |
| 11      | New Boiler           |            | 35.00           |              |   |     |                        |
| 12      | Heater               |            | 35.00           |              |   |     |                        |
| 13      | DG Set (03 nos)      |            | 30.00           | Diesel       | 60 lit/day used only DG set testing time  |     |                        |

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

|                    |               |                          |
|--------------------|---------------|--------------------------|
| Particulate matter | Not to exceed | 150 mg/Nm <sup>3</sup> . |
|--------------------|---------------|--------------------------|

**Emission standards for VOC-HAPs from process vents:**

| Sr.No | Compounds   | Maximum emission limit ( mg/Nm <sup>3</sup> ) |
|-------|---|---|
| 1     | (Toluene Di-isocyanate), TDI, Methylenediphenyl Di-isocyanate (MDI) | 0.1   |

|   |                       |    |
|---|-----------------------|----|
| 2 | Benzene, Butadiene    | 5  |
| 3 | EO, VCM, EDC, CAN, PO | 20 |

**Standards for Emissions of VOC Pollutants:**

| Sr.No | Compounds  | Maximum emission limit ( mg/Nm <sup>3</sup> ), 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  |

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).



**Schedule-III**  
**Details of Bank Guarantees**

| Sr. No. | Consent (C to E/O/R) | Amt of BG Imposed | Submission Period                            | Purpose of BG       | Compliance Period | Validity Date |
|---------|----------------------|-------------------|--|---------------------|-------------------|---------------|
| 1       | C to R               | Rs 5 lakhs        | Within 15 days from date of issue of consent | O & M of PCS        | 31.08.2016        | 31.12.2016    |
| 2       | C to R               | Rs 5 lakhs        | Within 15 days from date of issue of consent | Installation of STP | 30.04.2015        | 30.08.2015    |

#### 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 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.
- 6) 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.
- 7) The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the HW(MH&TM) Rules 2008, which can be recycled/processed/reused/recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc should go for that purpose, in order to reduce load on incineration and landfill site/environment.
- 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 30<sup>th</sup> 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](http://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 31<sup>st</sup> 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 official e-mail address and any change will be duly informed to the MPCB.
- 25) The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dtd. 16.11.2009 as amended.
- 26) The applicant shall comply with the conditions stipulated in Environmental Clearance granted by MoEF/GoM vide No.
- a) environmental clearance for 5,70,000 MTPA Ethane- Propane Recovery Unit (EPRU) Ref: - MoEF clearance vide No. J-11011/12/87-IA, Date 11.06.1990

b) environmental clearances accorded vide Letter No: J-13011/18/95-1A-II dated 01-12-95 MoEF for additional Co-generation facility at Uran

c) Environmental Clearance for Additional Process Facilities & Debutanisation Projects. Ref: MOEF Clearance vide letter No. F.NO. J-11011/635/2008-IA-II(I) Dated 29.04.2009

Corrigendum: F.NO. J-11011/635/2008-IA-II(I) Dated 20.09.2010  
(in case of first consent to operate).

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