

MAHARASHTRA POLLUTION CONTROL BOARD

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Consent order No :- Formate 1.0/ BO/AST/EIC No MU-4882-13/4th/CAC/ 7112
Date- 26/08/2013

To,
M/s Bharat Petroleum Corporation Ltd
Continuous Catalytic Regenerative Reformer (CCR) Unit
Refinery, Mahul,
Mumbai - 74

Subject: Consent to Operate RED category.

- Ref: 1. Earlier Consent granted vide no. BO/RO-M/AST/EIC-MU-1159-09/CC-204 dtd 18/10/2011
2. Minutes of CAC meeting held on 27.06.2013

Your application CO1304000004

Dated: 01.04.2013

For: Consent to 1st Operate
under Section 25/26 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:

- The consent is granted for a period from 01.08.2013 to 31.08.2014
- The proposed and/or actual capital investment of the industry is Rs.1827 Crs.
(As per C.A. Certificate submitted by industry)
- The Consent is valid for the manufacture of -

Sr. No.	Product / By-Product Name	Maximum Quantity in MTP/D
1.	Gas	31
2.	LPG	147
3.	Reformate	3132
4.	Hydrogen	97
5.	PSA off gas	88

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	229	As per Schedule -I	Recycled in cooling water system. The blowdown from the cooling water shall be discharged into the sea through separate channel
2.	Domestic effluent	Nil	N.A	N.A

[Signature]

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.	CCR (NHT - 1) & CCR (NHT- 2)	1	As per Schedule -II
2.	CCR	1	As per Schedule -II

6. 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	Spent Catalyst	4.2	170	MT/M	In-house	Sale to authorized reprocessors or should be sent to CHWTSDF

- The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
- This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities.
- The applicant shall submit Locational clearance within 3 months from the date of consent issued.

For and on behalf of the
Maharashtra Pollution Control Board



(V.M.Motghare)
Member Secretary

22/01/13

Received Consent fee of -

Sr. No.	Amount (Rs)	DD. No.	Date	Drawn On
1	3654000	2444121	15/02/2013	SBI Bank
2	2104000	245872	26/04/2013	SBI Bank

Copy to:

- Regional Officer -Mumbai and Sub-Regional Officer-Mumbai MPCB, 3: They are directed to ensure the compliance of the consent conditions.
- Chief Accounts Officer, MPCB, Mumbai.
- 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 5760 CMD.

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	6.0 to 8.5
02	Oil & Grease	5.0
03	BOD (3 days 27oC)	15.0
04	COD	125.0
05	Suspended Solids	20.0
06	Phenols	0.35
07	Sulphides	0.5
08	CN	0.20
09	Ammonia as N	15.0
10	TKN	40.0
11	P	3.0
12	Cr (Hexavalent)	0.1
13	Cr (Total)	2.0
14	Pb	0.1
15	Hg	0.01
16	Zn	5.0
17	Ni	1.0
18	Cu	1.0
19	V	0.2
20	Benzene	0.1
21	Benzo(a)Pyrene	0.2

C) The treated effluent shall be 100% recycled in the cooling water system. The blowdown from the cooling system shall be discharged into the sea through a separate channel.

2) 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.

3) 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.

- 4) 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	4320
2.	Domestic purpose	8
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	2236
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0

- 5) 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.

Maharashtra Pollution Control Board

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 stacks and to observe the following fuel pattern-

Sr. No.	Stack Attached To	APC System	Height in Mts.	Type of Fuel	Quantity & UoM	S %	SO ₂ Kg/Da
1	CCR (NHT - 1) & CCR (NHT- 2)	Stack	75 (common)	LNG/Fuel gas	12500 kg/hr	Nil	Nil
2	CCR	Stack	88.5				

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:

Particulate matter	Not to exceed	150 mg/Nm ³ .
NOx	Not to exceed	250 mg/Nm ³
CO	Not to exceed	100 mg/Nm ³
H ₂ S in LNG/ fuel gas	Not to exceed	150 mg/Nm ³

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 (C to E/O/R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	C to O	5 lakhs	Within 15 days	Towards O & M of Pollution Control Systems	31.08.2014	31.12.2014



Maharashtra Pollution Control Board

Schedule-IV

General Conditions:

- 1) The applicant shall submit Locational Clearance within three months from the date of consent issued.
- 2) 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.
- 3) Industry should monitor effluent quality, stack emissions and ambient air quality monthly.
- 4) 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.
- 5) 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.
- 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 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.
- 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 Hazardous 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 obtain Consent to Operate from Maharashtra Pollution Control Board before actual commencement of the Unit/ Activity (in case of Consent to establish).
- 12) The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent (in case of Renewal of consent).
- 13) 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).
- 14) 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.
- 15) 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.
- 16) Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
 - 17) 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.
 - 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 yearly statement by 30th September every year on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end.
 - 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 applicant shall comply with the conditions stipulated in Environmental Clearance granted by MoEF vide No. F.No J-11011/582/2011-1AII(I)dtd.7th June 2013.
 - 29) Affidavit undertaking in respect of no change in the status of consent conditions and compliance of the consent conditions the draft can be downloaded from the official web site of the MPCB.
 - 30) The applicant shall install online 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 install three continuous automatic ambient air and micrometeorological monitoring station at location indicated by State Board to be set up and operate at its own cost measure 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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