

MAHARASHTRA POLLUTION CONTROL BOARD

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Kapataru Point
02nd, 03rd & 04th floor
Opp. Cineplanet,
Near Sion Circle, Sion (E),
Mumbai- 400 022

Red/L.S.I

Date: 25/Jan/2013

Consent No. BO/RO/JD(WPC)/MU-4302-12/R/CC/CAC-762

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 (M&H) Rules respectively].

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CONSENT is hereby granted to
Municipal Corporation of Greater Mumbai (MCGM),
Mahapalika Marg, Fort, Mumbai - 400 001
Mumbai city, Maharashtra, India.

located in the area declared under the provisions of the Water Act, Air act and Authorization under the provisions of HW(M&H) 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: 31.03.2013
2. The daily quantity of domestic and industrial effluent shall not excess 2671.4MLD.
3. The Consent is valid for the manufacture of -

Sr No.	Disposal Point /STPs	Qty. of Effluent in MLD	To be discharged in to
A(i)			Thane Creek
1	Ghatkopar Treatment Plant	195	Thane Creek
2	Bhandup Treatment Plant	145	Thane Creek
3	Versova Treatment Plant	115	Malad Creek
4	Malad Treatment Plant	120	Malad Creek
A(ii)			
1	Colaba Treatment Plant	37	Open Sea (through Marine Outfall)
2	Worli Treatment Plant	745	
3	Bandra Treatment Plant	635	

4. **Treatment:** The STP outlet at point 3A(i) mentioned above shall be treated to the following standards:

Sr. No.	Parameter	Limits
1	pH	Between 5.5 to 9.0
2	Suspended Solids	Not to exceed 100 mg/l
3	BOD 3 days 27 C	Not to exceed 100 mg/l.
4	Oil & Grease	Not to exceed 10 mg/l.
5	% Sodium	Not to exceed 60 %
6	Mercury	Not to exceed 0.01 mg/l.
7	Lead	Not to exceed 2.0 mg/l.
8	Copper	Not to exceed 3.0 mg/l.
9	Zinc	Not to exceed 15.0 mg/l.
10	Nickel	Not to exceed 5.0 mg/l.
11	Total Chromium (asCr)	Not to exceed 2.0 mg/l.
12	Bioassay test on fish shall show 90 % survival 90 hours in 100% effluent	

Primary water quality criteria for class SW-II water shall meet following standards at location 3A(ii) mentioned above and as :

Sr. No.	Parameter	Limits
1	pH	Between 6.5 to 8.5
2	Dissolved Oxygen	Not to exceed 4.0 mg/l
3	Colour & Odour	No noticeable colour or offensive odour
4	Floating Matter	Nothing obnoxious or detrimental for use purpose
5	Turbidity	Not to exceed 30 NTU (Nephelo Turbidity Unit)
6	Fecal Coliform	Not to exceed 100/100 ml (MPN)
7	BOD 3 days 27 C	Not to exceed 3 mg/l.
8	Mercury	Not to exceed 0.01 mg/l.
9	Lead	Not to exceed 2.0 mg/l.
10	Copper	Not to exceed 3.0 mg/l.
11	Zinc	Not to exceed 15.0 mg/l.
12	Nickel	Not to exceed 5.0 mg/l.
	Total Chromium (as Cr)	Not to exceed 2.0 mg/l.
12	Bioassay test on fish shall show 90 % survival 90 hours in 100% effluent	

Also, MCGM should monitor water quality in Mumbai area at locations mentioned below and treated effluent shall meet respective standards mentioned as above.

Municipal Corporation of Greater Mumbai should monitor water quality in Mumbai area at following location

- 1) Nariman Point
- 2) Gateway of India
- 3) Malabar Hill
- 4) Hajiali

- 5) Worli Sea Face
- 6) Shivaji Park
- 7) Mithi River
- 8) Mahaim Creek
- 9) Manori Creek
- 10) Mud Creek
- 11) Ulhas Creek at Versova.

5. Disposal:

Collection and Pumping facility and pumping facility shall be made available. Necessary pumping stations with stand-by arrangement shall be provided.

For 3A(i): The treated effluent after achieving the above standards shall be discharged into creeks as stated above. The marine outfall work at Versova and Malad, commencing at Erangal shall be completed by 2011. Prior to that, MCGM should carry out detailed Remote Sensing / GIS study for dispersion and dilution effects at marine outfall at above places through the educational institutions like IIT, Powai, Mumbai.

The MCGM should submit the report of implementation of "Bombay Sewage Disposal Project (BSDP)".

For 3A(ii): The treated effluent from Colaba, Worli & Bandra Outfalls as stated in 3A(ii) shall be disposed off by scientifically laying down marine outfalls upto 3 kms initially, which may be further extended upto 5 kms. Or so, after carrying out the studies of dispersion and dilution.

The schedule for completion of the above treatment and disposal facilities shall be adhered to as per the commitments given in this behalf.

IF the local body is admitting any effluent arising from the industries located in their jurisdiction arrangement shall be made by the local body to see that such admittance:-

- (i) Will not cause the deterioration of sewers / drains.
- (ii) Will not cause any toxicity either at treatment works or enroute.
- (iii) Will not cause harmful effect on people working at treatment work or enroute.

The local body shall fully treat such industrial effluent to meet the above standards.

6. At the outlet terminal, manholes with measuring devices in the form of "V" notches properly calibrated or suitable flow measurement devices shall be provided. No effluent shall find its way other than in designed and provided collection system. Measurement of flow shall be made Board staff at these terminal manholes.
7. The sludge garbage and the solid waste be scientifically collected, transported and composted in a place more than 2 Kms. away on

leeward side. Otherwise may be disposed by incineration / sanitary land filling. The MCGM shall comply with the provisions of Municipal Solid Wastes (Management & Handelling) Rules, 1998 and amendments thereof.

8. The municipal corporation shall at its own cost get the samples of untreated and treated effluent collected and analyzed every three months and shall submit the report thereof to the Sub Regional Officer, Maharashtra Pollution Control Board, Mumbai-I with a copy to the Board Officer and the Regional Officer, Mumbai.
9. A Yearly progress report in the prescribed proforma shall be submitted to the office of Sub Regional Office and the Regional Office, Mumbai stating therein the progress made in respect of execution of treatment and disposal of works under this consent. This report shall be submitted by the 10th April.
10. The Municipal Corporation shall not charge or alter the quantity, the rate of discharge temperature and the mode of disposal of the effluent without previous written permission of the Board Office.
11. The Board reserves the right to revoke, change or alter the terms and conditions of consent by giving one month's notice to the Municipal Corporation.
12. The Municipal Corporation shall provide facility for collection of samples to the Board staff at the terminal manhole.
13. The Municipal Corporation shall make an application for renewal of the consent at least 30 days before the date of expiry of the consent.
14. An inspection Book shall be opened and made available to the Board Officers during their visit to the Municipal Corporation.
15. The Municipal authorities shall comply with the provisions of the Water (Prevention and Control of Pollution) Cess Act, 1977. They shall regularly submit to the Board the returns in the prescribed form and pay cess as specified under Section # of the said Act.
16. **Penalty Clauses :** If the Municipal Corporation fails to implement consent conditions prescribed above within the prescribed time limit, it is liable for prosecution under Section 44 of Water (Prevention and Control of Pollution) Act, 1974, and shall on conviction be liable to penalties provided therein.
17. **General Conditions:**
 - (i) The applicant should bring minimum 33% of the available open land under green coverage/ plantation. The applicant should 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 should provide for an alternate electric power source sufficient to operate all pollution control facilities installed by the 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 should stop, reduce or otherwise, control production to abide by terms & conditions of this consent regarding pollution levels.
- (iii) The applicant should make an application for renewal of the consent at least 30 days before the date of the expiry of the consent. The applicant should 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 should 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.
- (iv) The applicant should 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 should be maintained. The applicant should also submit a comparative statement of designed power and chemical consumptions vis-a vis actual power and chemical consumption along with Environmental statement.
- (v) Separate drainage system should be provided for collection of trade and sewage effluents. Terminal manholes should be provided at the end of collection system with arrangement for measuring the flow. No effluent should be admitted in the pipes/sewers down- stream of the terminal manholes. No effluent should find its way other than in designed and provided collection system. Neither storm water nor discharge from other premises should be allowed to mix with the effluents from the factory.
- (vi) The applicant should 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 should pay to the Board for the services rendered in this behalf. An inspection book should be opened and made available to the Board's officers during their visit to the applicant.
- (vii) The industry should 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 should maintain good house keeping and take adequate measures for control of pollution from all sources so as not to cause nuisance to surrounding area / inhabitants.

18. The Capital investment of the industry is Rs. 100 Lacs.

19. The MCGM shall submit the Bank Guarantee of Rs. 5.0 Lakh in favor of the Regional Officer, Mumbai within 15 days period towards Operation & Maintenance of Sewage Treatment Plant so as to achieve consented standards.
20. This consent is issued pursuant to decision taken in the Consent Appraisal Committee meeting of the Board dated 27/12/2012.

For and on Behalf of the
Maharashtra Pollution Control Board,


(Rajeev Kumar Mital, IAS)
Member Secretary

To,
Municipal Corporation of Greater Mumbai (MCGM),
Mahapalika Marg, Fort, Mumbai - 400 001
Mumbai city, Maharashtra
Mumbai -400001
India

Copy forwarded with compliments to:

1. The Collector, Mumbai
2. The District Health Officer, Zilla Parishad, Mumbai.
3. The Director of Municipal Administration, EDPHQ,
Mantralaya, Mumbai-400 082.

Copy to: RO, MPCB , Mumbai / SRO, MPCB, Mumbai I/II/III/IV / CAO / HWM
Wing - HQ

Received Consent fee of -

Sr. No.	Amount(Rs.)	DD. No.	Date	Drawn On
1	100100	0244488	17 Aug 2012	SBI Bank