

MAHARASHTRA POLLUTION CONTROL BOARD

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Red/LSI

Consent order No: Format1.0 BO/CAC Cell/EIC MU-5880-14 & MU-6664-15/CCA/CAC-11094

Date: 21/08/2015

To,
M/s. Bombay Hospital,
12, New Marine Lines, Mumbai-400 020

Subject: Combined Consent to Operate and BMW Authorization under RED category to Health Care Establishment (HCE).

Ref :

1. Previous Authorization no. MPCB/PSO/BMW/Mumbai/2014-02 dated 07.06.2014 valid upto 28.02.2015.
2. Previous consent for laundry activity vide no. BO/ROM/CCHWA/A/O/49 dtd. 16.01.2009 valid upto 31.12.2010.
3. Your application approved in 4th CAC meeting of 2015-2016 held on 21.07.2015

Your Application: CO1405000125 dtd. 16.04.2014 and CE1503000381 dtd. 11.03.2015

For: Combined Consent to Operate and BMW Authorization

under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981, Authorization under Rule 5 of the Hazardous Wastes (M, H & T M) Rules 2008 and Biomedical Waste (Management and Handling) Rules 1998, as amended is considered and the consent is hereby granted subject to following terms and conditions and as detailed in the schedule I, II, III, IV & V annexed to this order:

1. The combined consent to operate and BMW authorization is granted for a period from 04.06.2012 and **Upto 31.01.2018**
2. The actual capital investment of the Health Care Establishment is Rs. 162 crs.
(As per C.A. certificate submitted by HCE)
3. The Combined Consent is valid for the Activity of –

Sr. No.	Activity	Beds
1	Health Care Establishment with Laundry activity (Total BUA of 5,00,000 sq.m.)	734 nos.

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	50	As per Schedule - I	The treated trade effluent shall be recycled to maximum extent

				for gardening and cooling etc and excess shall be connected to the sewerage system provided by local body.
2.	Domestic effluent	880	As per Schedule -I	The treated effluent be 60% recycled for secondary purposes and remaining shall be connected to the sewerage system provided by local body.

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	DG Set- 200 KVA	1	As Per Schedule -II
2	DG Set- 320 KVA	1	As Per Schedule -II
3	DG Set- 380 KVA	1	As Per Schedule -II

6. Conditions under Hazardous Waste (M, H & T M) Rules, 2008 for treatment and disposal of hazardous waste:

Sr. No.	Type Of Waste	Quantity	UOM	Treatment	Disposal
1	34.3 ETP sludge	50	Kg/M	-	CHWTSDF

7. Non-Hazardous Solid Wastes:

Sr. No.	Type Of Waste	Quantity	UOM	Treatment	Disposal
1	Wet garbage	--	Kg/Day		MCGM vendor
2	Dry garbage	--	Kg/Day		Hand over to local body

8. This 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 agencies.

10. The hospital authority shall submit an undertaking regarding non-applicability of Environmental Clearance and CRZ Clearance and shall provide details of existing BUA and total no. of beds.

11. It is noted that HCE has submitted the letter dtd. 20.07.2015 stating that hospital building was built before the EIA Notification of 07th July, 2004, and hospital has not undertaken any new construction in the hospital site after the above mentioned notification.

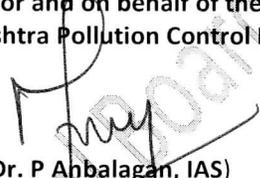
12. This consent is issued subject to conditions mentioned below,

i) The "authorized Person" Director Administrator of M/s. **Bombay Hospital, 12, New Marine Lines, Mumbai-20** shall comply with the provisions of the Environment (Protection) Act, 1986, and the Rules made there under.

ii) Any unauthorized change in equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of this authorization.

- iii) You shall submit details of Management and Handling of outdated, discarded, unused **Cytotoxic drugs** generated in the Cancer centers, research and health care in the format prescribed by CPCB which is available on www.cpcb.nic.in alongwith Annual Report to MPCB with a copy to CPCB before 31st January every year.
- iv) You shall manage the **Mercury Waste** in the HCE in environmentally sound manner (including storage, spilled collection, transportation and disposal) as per CPCB guidelines published on CPCB website www.cpcb.nic.in dated 07.09.2010 as detailed in document entitled "Environmentally Sound Management of Mercury Waste in Health Care Facilities".
- v) You shall submit compliance of Bank Guarantee conditions every six months to Regional Officer, Mumbai for verification purpose.

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	3,22,589/-	131043	10.03.2014	Indian Overseas bank
2	45000/-	249606	16.02.2015	Indian Overseas bank
3	9,00,000/-	303316	06.08.2015	Indian Overseas bank
4	6,07,687/-	303317	06.08.2015	Indian Overseas bank

Copy to:

1. Regional Officer – MPCB, Mumbai: He is directed to forfeit the BG of Rs. 1 lakhs obtained towards Operation and Maintenance of ETP to achieve prescribed discharge standards as JVS reports of the ETP are exceeding the limit and observed non-compliances such as ETP was not in operation and not disposed the ETP sludge to CHWTSDF.
2. Sub -Regional Officer-Mumbai-I, MPCB: He is directed to ensure the compliance of the consent conditions.
3. Chief Accounts Officer, MPCB, Mumbai.
4. CC/CAC desk- for record & website updation purposes.

Schedule-I

I) Terms & Conditions for compliance of Water Pollution Control

1) A] **As per your application, you have proposed to provide the Sewage Treatment Plant (STP) with the adequate design capacity to treat the domestic effluent quantity 880 CMD**

B] The Applicant shall operate the sewage treatment plant (STP) to treat the domestic 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
		Limiting Concentration in mg/l,
01	Oil & Grease	10
02	BOD (3 days 27oC)	30
03	Suspended Solids	50
04	COD	100
05	Detergent	01

C] The treated effluent be 60% recycled for secondary purposes such as toilet flushing, air conditioning, firefighting etc. and remaining shall be connected to the sewerage system provided by local body.

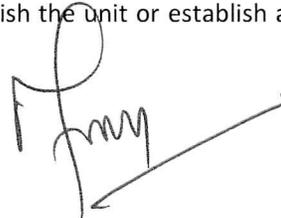
2) A] **As per your application, you have provided Effluent Treatment Plants (ETPs) with the design capacity of 60 CMD.**

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
		Limiting Concentration in mg/l, except for pH
01	pH	Between 5.5 to 9.0
02	BOD (3 days 27oC)	100
03	Suspended Solids	100
04	COD	250
05	Oil & grease	10
06	Detergent	2

C) **The treated trade effluent shall be recycled to maximum extent for gardening and cooling etc and excess shall be connected to the sewerage system provided by local body.**

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 an extension or addition thereto.



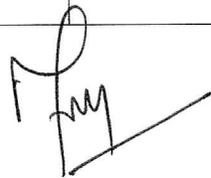
- 4) The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
- 5) The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance / CREP guidelines if applicable.
- 6) In case, the water consumption of the project is not covered under the water consumption of local body, in that situation, the project proponent shall submit the CESS Returns in the prescribed format given under the provision of Water (Prevention & Control of Pollution) Cess Act, 1977 and Rules made thereunder for various category of water consumption.

In case the water consumption is duly assessed under the quantity of water consumption of local body, the project proponent shall submit certificate to that effect from the concern local body with the request not to assess CESS on their water consumption, being already assessed on the water consumption of local body.

II) Conditions under Water (Prevention & Control of Pollution) CESS Act, 1977 as amended

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, boiler feed etc.,	70
2.	Domestic purpose	1200
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	0.00
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0.00



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) to observe the following fuel pattern-

Sr. No.	Stack Attached To	APC System	Height in Mtrs.	Type Of Fuel	Quantity	UOM	S%	SO2 Kg/day
1	DG Set-200 KVA	Acoustic Chamber	2.8*	HSD	35	Ltr/Hr	1	16.8
2	DG Set-320 KVA	Acoustic Chamber	4*	HSD	55	Ltr/Hr	1	26.4
3	DG Set-380 KVA	Acoustic Chamber	4*	HSD	70	Ltr/Hr	1	33.6

*Above the roof of building in which it is installed.

2. 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
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3. 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.
4. 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

I) Terms & Conditions for compliance of Biomedical Waste Management

1. The "authorized Person" Administrator, M/s. **Bombay Hospital, 12, New Marine Lines, Mumbai-20** shall comply with the provisions of the Environment (Protection) Act, 1986, and the Rules made there under.
2. **The combined consent is granted for generation and disposal of Bio-Medical Waste (BMW) in waste categories and quantities listed here in below:**

Sr. No.	Category	Description	Quantity not to exceed (Kg/M)	Segregation Colour coding	Treatment & Disposal
1	Cat -1	Human Anatomical waste	100	Yellow	Incineration
2	Cat-3	Microbiology & Biotechnology Waste	200	Yellow	Incineration
3	Cat-4	Waste Sharps	480	Blue / white translucent	Disinfection (chemical treatment) and mutilation / shredding
4	Cat-5	Discarded Medicines and Cytotoxic drugs	60	Yellow	Incineration
5	Cat-6	Soiled Waste	780	Yellow	Incineration
6	Cat-7	Solid Waste	380	Red.	Disinfection (chemical treatment) autoclaving / and mutilation / shredding
No onsite treatment of BMW is permitted. The above mentioned Bio medical Waste shall be sent to Common BMW Treatment & Disposal facility authorised by MPCB .i.e. M/s. SMS Envoclean, CBMWTSDF, Mumbai.					

3. (i) BMW shall not be mixed with other wastes or reused or sold in any form.
- (ii) BMW shall be segregated into containers / bags at the point of generation in accordance with Schedule-II prior to storage, treatment and disposal. The containers shall be labeled according to Schedule III of BMW Rules 1998.
- (iii) If a container containing BMW is to be transported from the premises where BMW is generated to any waste treatment facility outside the premises, the container shall, apart from the Label prescribed in Schedule III, also carry information prescribed in Schedule IV and shall be transported by authorized Transporter only.
- (iv) Notwithstanding anything contained in the Motor Vehicles Act, 1988 or Rules there under, BMW shall be transported only in such vehicle as may be authorized for the purpose by the competent authority as specified by the Government.
- (v) No untreated BMW shall be kept stored beyond a period of 48 hours.

- (vi) Necessary protective gear for the waste handlers shall be provided by the hospital Authority.
- (vii) You shall ensure proper collection of mercury spillage arising mainly due to breakage of thermometers pressure gauges (Sphygmomanometers) other equipments used in health care facilities (HCFs) as well as its storage in accordance with the Hazardous waste (Management & Handling) Rules (presently these Rules has to be read as 'Hazardous Waste (Management & Handling and Trans boundary Movement) Rules, 2008) and returning it to the instrument manufacturers apart from necessary taking steps to ensure that the spilled mercury does not become a part of bio-medical or other solid wastes generated from the HCFs.
- (viii) Authorized person shall obtain prior permission from MPCB for generation & disposal, if Bio-Medical waste quantity of category specified exceed the limits authorized at condition No. 4. Above
4. (i) You shall submit an Annual Report to the prescribed authority in Form-II by 31st January every year including information about the categories and quantities of BMW handled during the preceding year.
- (ii) You shall maintain records related to the generation, collection, reception, storage, transportation, treatment, disposal and/or any form of handling of BMW in accordance with these Rules and any guidelines issued.
- (iii) All records shall be subject to inspection and verification by the prescribed authority at any time.
5. When any accident occurs at any institution or facility or any other site where BMW is handled or during transportation of such waste, the authorized person shall report the accident in Form III to the prescribed authority forthwith.
6. You shall submit valid registration copy of Bombay Nursing Home Act to Board.
7. The Occupier will obey all the lawful instructions issued by the Board Officers from time to time.



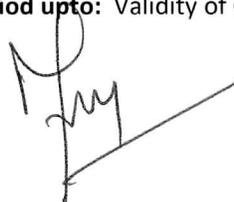
Schedule-IV : Bank Guarantees

Statement of conditions to be complied and Bank Guarantee imposed to ensure timely compliance to be observed by M/s. **Bombay Hospital, 12, New Marine Lines, Mumbai-20**

Sr. No.	Activity / Condition to be Complied	Compliance Timeline (Months)	Bank Guarantee Amount
I (A)	Operation and Maintenance		
1	To Segregate and Handle BMW as per Rule	Continuous	1,00,000/-
2	Operation and Maintenance of ETP to achieve prescribed discharge standards	Continuous	1,00,000/-
I (B)	Records		
1	To Maintain records of BMW and submission of Annual Report in Form –II before 31 st January	Continuous	25,000/-
2	To maintain records of BMW material delivered to CBMWTSDF	Continuous	25,000/-
II	Performance		
1	To provide Separate BMW storage facility As per guidelines of CPCB.	Six	75,000/-
2	To provide STP for treatment of domestic effluent	Six	2,00,000/-
		Total	4,00,000/-
Rupees Four Lakh only			

Note:

- (i) The above Bank Guarantee(s) shall be submitted by the applicant at the respective Regional Office within 15 days of the date of issue of Combined Consent and Authorization (CCA).
- (j) The Bank Guarantee(s) shall be valid for a period upto: Validity of CCA + 4 months



Schedule-V
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 Hazardous 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 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.
 - 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 dt. 16.11.2009 as amended.

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