

MAHARASHTRA POLLUTION CONTROL BOARD

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Mumbai - 400 022

Red/LSI

Date: 23/04/2019.

Consent No: Format 1.0/BO/UAN No. 55289/CAC-1904000965

To,
M/s Holy Spirit Hospital,
Sr.no.51,Hissa No.4,
Mahakali Cave Road,
Andheri- Mumbai.

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

Ref : 1. Boards Combine Consent to operate and Authorization issued vide no.BO/CAC Cell /CAC-1709000526 Dated 14.09.2017 valid up to 31.08.2018.

2. Your application for combine consent to operate and Authorization UAN No.55289 dated 27.08.2018.

3. Consent Appraisal Committee meeting Minutes dated 25.02.2019.

Combined 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, Authorization under Rule 5 of the Hazardous Wastes (M, H & T M) Rules 2016 and Biomedical Waste Management Rules 2016 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 conditional combined consent to Operate and BMW authorization is granted for a period from 01.09.2018 to 30.08.2023.
2. The capital investment of the HCE is Rs. 64.69 Crs. As per C. A. Certificate submitted)
3. The Consent is valid for the Hospital Activity of –

Sr. No.	Activity	
1	Beds	300 Nos.
2	Total Plot Area	43,609 Sq. Mtrs
3	Total Built up Area	17,367.55 Sq. Mtrs

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	32.0	As per Schedule –I	The treated effluent shall be recycled to the maximum extent for flushing and remaining shall be used on land for gardening and connected to the sewerage system provided by the local body.
2.	Domestic effluent	85.0	As per Schedule –I	

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 [2 X320KVA,1 X 380 KVA]	3	As per Schedule-II

6. Non-Hazardous Solid Wastes:

Sr. No.	Type of Waste	Quantity	UOM	Treatment	Disposal
1	Wet Garbage	220	Kg/D	Bio Gas plant /OWC	Gas to be utilized in house and manure.
2	Dry Garbage	331	Kg/D	---	Recycle or handover to local body
3	STP Sludge	As actual	Kg/D	---	Use as a manure

7. Conditions under Hazardous Wastes (Management, Handling Transboundary and Other Waste) Rule 2016 for treatment and disposal of Hazardous Waste:

Sr. No.	Type of Waste	Quantity	UOM	Treatment	Disposal
1	Used oil/Spent oil	15	Ltrs/M	--	Sale to authorized re-processors
2	Discarded Containers/barrels/liners	8	Nos/A	--	CHWTSDF

8. Conditions under E- Wastes (Management and Handling) Rule 2011:

Sr. No.	Type of Waste	Quantity	UOM	Treatment	Disposal
1	E-waste	As actual	--	--	Through authorized recycler

9. If Built up area exceeds more than 20,000 sq. Meters and if hospital is Commissioned After 14.09.2006, the project proponent shall comply EIA Notification 2006 as Amended.

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

- I. The "authorized Person" shall comply with 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. If the built up area exceeds more than 20,000 sq. Mtrs. and if the hospital is commissioned after 14.09.2006, the project proponent shall comply EIA Notification 14.09.2006 by obtaining Environment Clearance.
- IV. 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 along with Annual Report to MPCB with a copy to CPCB before 31st January every year.
- V. 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".
- VI. You shall ensure phase out of chlorinated plastic bags, gloves and blood bags by HCEs within two years;
- VII. You shall establish Bar code system within one year.

- VIII. You shall ensure that the liquid waste is treated and disposed by all the occupier or operator of a CBWTF in accordance with the Water Act, 1974;
- IX. You shall maintain day to day basis and display the monthly record Including Annual report on its website within two years from the date of Notification.
- X. You shall submit BMW Annual report to the prescribed authority in form –IV by 30th June of every year including information about the categories and quantities of BMW handled during the prescribed year.
- XI. All records shall be subject to inspection and verification by the prescribed authority at any time.
- XII. You shall submit separate Bank Guarantees towards compliance of condition mentioned at Annexure – IV to Regional Office, within 30 days.
- XIII. You shall submit compliance of Bank Guarantee conditions every six months to Regional Officer, for verification purpose.
- XIV. You shall submit application for renewal of Combined Consent and Biomedical Waste authorization before 120 days along with appropriate fees.
- XV. PP shall operate STP so as to achieve BOD-10 mg/l and recycle 60% of treated Sewage for toilet flushing, cooling tower make-up & gardening;
- XVI. PP shall operate Organic Waste Digester/ Converter followed by Composting for the treatment of Biodegradable waste and use as a manure.
11. The hospital authority shall operate STP so as to achieve standards for parameter BOD 10 mg/l.
12. This Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
13. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government agencies.

For and on behalf of the
Maharashtra Pollution Control Board

(E. Ravendiran, IAS)
Member Secretary

Received Consent fee of –

Sr. No.	Amount (Rs.)	Transaction No./D.R. No.	Date	Bank
1	50,000/-	TXN1903001244	13.03.2019	----
2	5,00,000/-	TXN1808002630	26.08.2018	--

Copy to:

1. Regional Officer – MPCB, Mumbai and Sub –Regional Officer –Mumbai-II, MPCB – They are directed to ensure the compliance of the CCA conditions.
2. Chief Accounts Officer, MPCB, Mumbai- for information.

Schedule-I
Terms & Conditions for compliance of Water Pollution Control

- 1) A] As per your application, you have to provide Effluent Treatment Plant with the design capacity of 100 CMD for the treatment of domestic effluent.
- 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	Oil and Grease	10
03	BOD (3 days 27oC)	30
04	Suspended Solids	50
05	COD	250
06	Detergent	01

C) The treated effluent shall be recycle/reuse for the secondary purposes such as toilet, flushing, air conditioning, firefighting etc. and remaining shall be discharged to MCGM sewerage system after confirming the above standards.

- 2) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waste water & the system for the disposal of effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps for expansion / modify or establish any modification to treatment and disposal system or an extension or addition thereto.
- 3) You 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) You shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time.

5) The applicant shall comply with the provision of the water (Prevention and Control of Pollution) Act, 1974. [Water Consumption Details]

Sr. No.	Purpose for water consumed	Water Consumption quantity CMD
1.	Industrial Cooling and boiler feed etc.,	---
2.	Domestic purpose	95.0
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	33.0
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	--
5	Other such as agriculture, gardening, etc.	---



Schedule-II
Terms & conditions for compliance of Air Pollution Control

1. As per your application, you have proposed / provided the Air pollution control (APC) system and also proposed to erect/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	Boiler	Stack	10.0	LDO	10 Kg/Hrs	1.8	8.64

*Above the roof level.

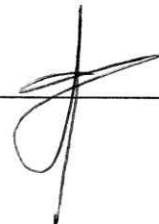
2. The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards:

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).

5. 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.



Schedule-III

Treatment and Disposal of Biomedical Waste generated from Hospital to CBMWTSDF

The authorization is granted for generation and disposal of Bio-Medical Waste (BMW) to CBMWTSDF in waste categories and quantities listed here in below:

Sr. No.	Category	Type of Waste	Quantity not to exceed (Kg/M)	Segregation Color coding	Treatment & Disposal
1	Yellow	a) Human Anatomical waste	2271	Yellow colored non-chlorinated plastic bags	Given to CBMWTSDF & treated there in incinerator.
		b) Soiled Waste	---		
		c) Expired or Discarded Medicines	--		
		d) Chemical Waste	--		
		e) Chemical Liquid Waste	--	Yellow colored non-chlorinated plastic bags or containers	Given to CBMWTSDF & treated there in incinerator
		---	Yellow colored containers or non-chlorinated plastic bags	Given to CBMWTSDF & treated there in incinerator	
		--	Separate collection system leading to effluent treatment system	Pretreatment	
		f) Discarded linen, mattresses, beddings contaminated with blood or body fluid.	--	Non-chlorinated yellow plastic bags or suitable packing material	Given to CBMWTSDF & treated there in incinerator
g) Microbiology Biotechnology and other clinical laboratory waste	--	Autoclave safe plastic bags or containers	Given to CBMWTSDF & treated there in incinerator		
2	Red	Contaminated Waste (Recyclable) (a) Wastes generated from disposable items such as tubing, bottles, intravenous tubes and sets, catheters, urine	2822	Red colored non chlorinated plastic bags or containers	Given to CBMWTSDF where it is Autoclaved and disinfected

		bags, syringes (without needles and fixed needle syringes) and vaccutainers with their needles cut) and gloves.			
	Red	Solid Waste	---	Red colored non chlorinated plastic bags or containers	
3	White (Translucent)	Waste sharps including Metals: Needles, syringes with fixed needles, needles from needle tip cutter or burner, scalpels, blades, or any other contaminated sharp object that may cause puncture and cuts. This includes both used, discarded and contaminated metal sharps	538	Puncture proof, Leak proof, tamper proof container	
4	Blue	a) Glassware: Broken or discarded and contaminated glass including medicine vials and ampoules except those contaminated with cytotoxic wastes. b) Metallic Body Implants	0	Cardboard boxes with blue colored marking	Given to CBMWTSDF where it is it disinfected

No onsite treatment of BMW is permitted .The above mentioned Bio Medical waste shall be sent to common BMW treatment & disposal facility authorized by MPCB.



Schedule-IV : Bank Guarantees

Statement of conditions to be complied and Bank Guarantee imposed to ensure timely compliance to be observed by

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	Rs. 1,00,000/-
2	To provide STP within six months and Towards Operation and Maintenance of STP/ETP to achieve prescribed discharge standards	Continuous	Rs. 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	Rs. 25,000/-
2	To maintain records of BMW material delivered to CBMWTSDF	Continuous	Rs. 25,000/-

Note: You shall submit the B.G. valid for additional 4 month period after the validity of your granted CCA. i.e. up to 31.12.2023.



Schedule-V (General Conditions)

The following general conditions shall apply as per the type of the industry

- 1) You 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) You should monitor effluent quality, stack emissions, noise and ambient air quality quarterly.
- 3) You 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) You 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) You shall submit, 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 to Regional Office, , the 30th day of September every year.
- 7) You 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) You shall comply with the Hazardous Waste (M, H & TM) Rules, 2008 and submit the Annual Returns to RO- 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 HCE.
- 10) The applicant shall make an application for renewal of consent at least 60days before date of the expiry of the consent (In case of renewal of consent) .
- 11) You 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) You shall constitute an Environmental cell with qualified staff/personnel/agency to see the day to day compliance of consent & authorization 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 HCE.
- 15) You 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) You should not cause any nuisance in surrounding area.
- 17) You 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.
- 18) You shall maintain good housekeeping.
- 19) You shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement to Regional Office 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.
- 20) 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.
- 21) You 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. You will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
- 22) You shall submit Six Monthly statement in respect of obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can downloaded from MPCB official site).
- 23) You shall submit official e-mail address and any change will be duly informed to the MPCB, forthwith.
- 24) You shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dtd. 16.11.2009 as amended
- 25) You shall observe provisions of E-waste (Management and Handling) Rules 2011 and Battery Waste (Management and Handling) Rules 2001, as amended.

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