

MAHARASHTRA POLLUTION CONTROL BOARD

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Mumbai-400 022.

Red/LSI

Consent order No: Format1.0 BO/CAC Cell/EIC MU-6345-14 & MU-6676-14/CCA/CAC- 10218

Date: 13/10/2016

To,

M/s. Tata Memorial Hospital,

CTS No. 224/74, F-Ward No-964 (4), of Parel Sewri Division and CTS No-753, plot no-108,109, 119 120 pt, 121,122,123 and 124 of Naigaon Estate Scheme No-60, Dist. Mumbai

Subject: Combined Consent to Operate and BMW Authorization under RED category to Health Care Establishment (HCE) at CTS No. 224/74, F-Ward No-964 (4), of Parel Sewri Division and CTS No-753, plot no-108,109, 119 120 pt, 121,122,123 and 124 of Naigaon Estate Scheme No-60, Dist. Mumbai

Ref :

1. Previous Authorization granted vide no. MPCB/JD(PAMS)/BMW/Mumbai-64 dated 17.01.2013 valid upto 20.06.2015
2. Your application approved in 8th CAC meeting of 2015-2016 held on 09.10.2015.

Your Application: CO1411000149 dtd. 03.11.2014
and CE1504000253 dtd. 06.04.2015

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 Upto 20.06.2018.
2. The actual capital investment of the Health Care Establishment is Rs. 469.15 crs (As per document submitted by applicant)
3. The Combined Consent is valid for the Activity of

Sr. No.	Activity	Beds
1	Health Care Establishment (without Laundry activity) (Plot area: 15,026.36 sq.m. BUA: 63,788.91 sq.m.)	604 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	Nil	As per Schedule -I	The treated effluent shall be connected to the sewerage system provided by local body.
2.	Domestic effluent	600	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	D.G. Set (1x 320 KVA)	1	As per Schedule -II
2	D.G. Set (1x 250 KVA)	1	As per Schedule-II
3	D.G. Set (2x 180 KVA)	2	As per Schedule -II
4	D.G. Set (2x 380 KVA)	2	As per Schedule -II

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

Sr. No.	HW category	Type Of Waste	Quantity	UOM	Treatment	Disposal
1	20.2	Spent solvent	As and when generated	--	--	Hand over to CHWTSDF or to authorized recycler
2	35.3	Chemical sludge from waste water treatment	As actual	Kg/M	--	Shall hand over to CBMWTSDF for incineration or to CHWTSDF for disposal.

7. Non-Hazardous Solid Wastes:

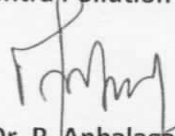
Sr. No.	Type Of Waste	Quantity	UOM	Treatment	Disposal
1	Wet garbage	--	Kg/Day		MCGM vendor
2	Dry garbage	--	Kg/Day		Hand over to local body

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. It is noted that HCE has submitted the undertaking dtd. 07.12.2015 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.
11. Applicant shall provide STP/ETP within six months.
12. This consent is issued subject to conditions mentioned below,
 - i) The "authorized Person" Director Administrator of M/s. Tata Memorial Hospital 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	7,24,646/-	017315	27.09.2014	Central bank of India
2	7,24,646/-	017316	27.09.2014	Central bank of India
3	45,100/-	866509	12.03.2015	Central bank of India
4	40,25,188/-	107578	23.09.2016	Central bank of India

Copy to:

1. Regional Officer – MPCB, Mumbai: He is directed to forfeit the B.G. of Rs. 2 lakh and obtain BG of Rs. 4 lakhs towards provision of the STP/ETP.
2. Sub -Regional Officer-Mumbai-I, MPCB: He is directed to ensure the compliance of the CCA 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] Applicant shall ensure segregation of liquid chemical waste at source and ensure pre-treatment or neutralization prior to mixing with other effluent generated from health care facilities and shall provide effluent Treatment system with adequate design capacity within six months.
- B] The Applicant shall operate the effluent treatment system 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, except for pH
01	pH	Between 6.5 to 9.0
02	Suspended Solids	100
03	Oil & grease	10
04	BOD (3 days 27°C)	30
05	COD	250
06	Bio-assay test	90% survival of fish after 96 hours in 100% effluent.

- C] The treated effluent shall be connected to the sewerage system provided by local body.
- 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 an 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 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.
- 5) 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



Sr. No.	Purpose for water consumed	Water Consumption quantity CMD
1.	Industrial Cooling, boiler feed etc.,	--
2.	Domestic purpose	1000
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

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 stack (s) to observe the following fuel pattern-

Sr. No.	Stack Attached To	APC System	Height in Mtrs.	Type Of Fuel	Quantity	S%
1	D.G. Set (1x 320 KVA)	Acoustic enclosure	3.6*	HSD	@ 0.21 liters/hr/KVA at full load.	1
2	D.G. Set (1x 250 KVA)	Acoustic enclosure	3.2*			
3	D.G. Set (2x 180 KVA)	Acoustic enclosure	2.7*			
4	D.G. Set (2x 380 KVA)	Acoustic enclosure	3.9*			

*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 of M/s. Tata Memorial Hospital, Dr. Ernest Borges Marg, Parel, Mumbai 400 012 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	307	Yellow	Incineration
2	Cat-3	Microbiology & Biotechnology Waste	300	Yellow	Incineration
3	Cat-4	Waste Sharps	589	Blue / white translucent	Disinfection (chemical treatment) and mutilation / shredding
4	Cat-5	Discarded Medicines and Cytotoxic drugs	384	Yellow	Incineration
5	Cat-6	Soiled Waste	5000	Yellow	Incineration
6	Cat-7	Solid Waste	--	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. Tata Memorial Hospital, Dr. Ernest Borges Marg, Parel, Mumbai 400 012

BG History

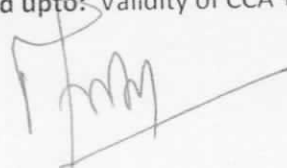
Sr. No.	Authorization/ consent	Amt of BG Imposed	Amt of BG to be forfeited from BG imposed	Purpose of BG forfeiture
1	Authorization dated 17.01.2013	Rs. 2 lakh	Rs. 2 lakh	Non-complied with previous consent condition

Applicant shall extend/ submit BG as below:

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/-
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/ETP for treatment of domestic effluent/ trade effluent.	Six	4,00,000/-
		Total	6,25,000/-
Rupees Six Lakh twenty five thousand 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).
- (ii) 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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