

MAHARASHTRA POLLUTION CONTROL BOARD

Phone : 4010437/4020781
/4037124/4035273
Fax : 24044532/4024068 /4023516
Email : enquiry@mpcb.gov.in
Visit At : <http://mpcb.gov.in>



Kalpataru Point, 3rd & 4th floor, Sion- Matunga
Scheme Road No. 8, Opp. Cine Planet Cinema, Near
Sion Circle, Sion (E),
Mumbai - 400022

Consent order No :- Formate 1.0/ BO/CAC-Cell/ EIC No NK-16813-14/CAC- 2349
Date: 02/03/2015

To,
M/s. JMF's Annasaheb Chudaman Patil Memorial Medical College & Hosp,
G. No. 1-D-1, 11/2A, 14/1,2,3, 16/2, Dhule , Morane, Maharashtra
Dhule - 425001

Subject: Combined BMW Authorisation and Consent to Operate under Red category.

Ref :

1. Previous Authorisation no.MPCB/ZO(PAMS)/BMW/Nashik-04-2010 dated 29.12.2010 valid upto 20.7.2013.
2. Your application approved in 24th CAC meeting of 2014- 2015 held on 21.1.2015

Your Application : CR1408000279 (consent) & CE1408000245 (BMW authorization)
Dated: 2 Jun 2014 & 24 Aug 2014 respectively

For: Consent to Operate and BMW Authorisation

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 Bio-Medical Waste (Management and Handling) Rules, 1998 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 & V annexed to this order:

1. The combined BMW Authorisation (from 21.7.2013) and the consent (from 4.6.2012) is granted for a period upto 30.6.2016
2. The actual capital investment of the Health Care Establishment is Rs. 1651.9 Lacs. (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 on Total Plot Area of 55 600 sq. meters. & Total BUA of 3911.04 sq.m.	550 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 (hospital liquid effluent)	18.9	As per Schedule –I	Treated effluent shall be discharged into Municipal sewer/ used on land, after disinfection
2.	Domestic effluent	100.00	As per Schedule -I	

[Handwritten 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	Double Chambered Incinerator	1	As Per Schedule -II
2	D G of 200 KVA	1	As Per Schedule -II

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

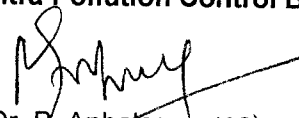
Sr. No.	Type Of Waste	Quantity	UOM	Treatment	Disposal
1.					

7. Non-Hazardous Solid Wastes:

Sr. No.	Type Of Waste	Quantity	UOM	Treatment	Disposal
---------	---------------	----------	-----	-----------	----------

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. If the BUA exceeds more than 20,000 sq.m. and if the hospital is commissioned after 14.9.2006, the project proponent shall comply EIA notification 14.9.2006.
11. The hospital authority shall submit a undertaking regarding non-applicability of EC,RRZ, CRZ and shall provide details of existing BUA and total no. of beds.
12. You shall submit compliance of bank guarantee conditions every six months to Regional Officer, Nashik 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	75000	834116	03 April 2013	Punjab National Bank
2	75000	250647	29 May 2014	Punjab National Bank
3	100	834518	08 May 2014	Punjab National Bank
4	100	250648	29 May 2014	Punjab National Bank
5	12500	250923	03 Jul 2014	Punjab National Bank
6	45000	250917	07 Jul 2014	Punjab National Bank
7	79067	501071	16 Feb 2015	Punjab National Bank

Copy to:

1. Regional Officer – MPCB, Nashik and Sub -Regional Officer Dhule, MPCB, Nashik. They are directed to ensure the compliance of the consent conditions.
2. Chief Accounts Officer, MPCB, Mumbai.
3. CC/CAC desk- for record & website updation purposes.

Schedule-I**1) Terms & Conditions for compliance of Water Pollution Control**

1) **A]** As per your application, you have provided the combined Sewage Treatment Plant (STP) with the design capacity of 100 CMD

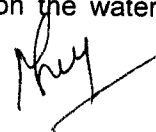
B] The Applicant shall operate the sewage treatment plant (STP) to treat the sewage and hospital liquid effluent so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

Sr. No.	Parameters	Standards prescribed by Board
		Limiting Concentration in mg/l, except for pH
01	pH	5.5-9.0
02	Oil & Grease	10
03	BOD (3 days 27°C)	100
04	Suspended Solids	100
05	COD	250
6	Detergent	01

C] The treated effluent shall be disposed into Municipal Sewer or use on land for irrigation after disinfection

- 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

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.,	0.00
2.	Domestic purpose	140.00
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

RFM

Maharashtra Pollution Control Board

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	Double Chambered Incinerator	Ventury Scrubber Provided	30.00	Diesel	25.00	Ltr/Hr	1	12
2	D G of 200 KVA		3.00					

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.
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
--------------------	---------------	------------------------

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).
6. CONDITIONS UNDER AIR ACT FOR BMW INCINERATOR

The incinerator should meet the following operating and emission standards:

Standards for emissions of air Pollutants

Operating Standards

1. Combustion efficiency (CE) shall be at least 99.00%.
2. The Combustion efficiency is computed as follows;

$$\text{C.E.} = \frac{\% \text{CO}_2}{\% \text{CO}_2 + \% \text{CO}} \times 100$$

3. The temperature of the primary chamber shall be 800 + 50 0 C,

4. The secondary chamber gas residence time shall be at least 1 (one) second at 1050 + 500C with minimum 3% Oxygen in the stack gas.

S.No	Parameters	Conc. Mg/Nm3 at (12% CO2 correction)
1	Particulate matter	150
2	Nitrogen Oxides	450
3	HCL	50

5. Minimum stack height shall be 30 meters above the ground
6. Volatile organic compounds in the ash shall not be more than 0.01%
7. The Applicant shall provide ports in the chimney 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 chimneys shall be numbered as S-1, S-2 etc and these shall be painted / displayed to facilitate identification.
8. The applicant shall carry out monitoring of above mentioned parameters atleast quarterly from the approved laboratory and submit report of the same to the Board.

Note :

- Suitably designed pollution control devices should be installed / retrofitted with the incinerator to achieve the above emission limits, if necessary.
 - Wastes to be incinerated shall not be chemically treated with any chlorinated disinfectants.
 - Chlorinated plastics and Plastic bags shall not be incinerated.
 - Toxic metals in incineration ash shall be limited within the regulatory quantities as defined under the Hazardous Waste (Management and Handling Rules,) 1989.
 - Only low sulphur fuel like L.D.O./L.S.H.S./Diesel shall be used as fuel in the incinerator.
9. The occupier shall comply with above operating and emission standards during the validity period of this CCA. In case of failure your CCA may be cancelled.



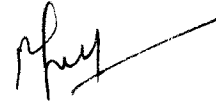
**Schedule-III
Details of Bank Guarantees**

Sr. No.	Consent	Amt of BG Imposed	Sumission Period **	Purpose of BG	Compliance Period	Validity Date ++
1	Combined Consent & Authorization (CCA) to Operate	50,000		To Maintain records of BMW generation, transportation, treatment & disposal and To submit Annual Report* in Form -II before 31 st January every year	Continuous	
2		1,00,000		To Segregate and Handle BMW as per color code etc.	Continuous	
3		50,000		To conduct and meet sterilization validation test and temperature test for Autoclave	Continuous	
4				1,00,000	To achieve temperature of Primary and Secondary chamber of Incinerator	
5		1,00,000		To Operate and maintain Air Pollution Control Device(s) to achieve prescribed Stack emissions (e.g. Particulate Matter, HCL, NOx, VOC) & maintain records	Continuous	
6		1,00,000		Operation and Maintenance of ETP & STP to achieve prescribed discharge standards	Continuous	
7		75,000		To provide Separate BMW storage facility	One month from date of issue of consent	
8		75,000		To provide Automatic BMW feeding system	two months from date of issue of consent	
9		1,50,000		To Provide Air Pollution Control Device(s) & provide Emergency vent to Secondary chamber	Three months from date of issue of consent	

10		1,00,000		To provide PLC based online temperature monitoring system	Three months from date of issue of consent
11		50,000		To provide Graphical Temperature, Pressure & Time recording system to Autoclave #	One month from date of issue of consent
12		50,000		To obtain Membership of CHWTSDf and send incineration ash & ETP sludge to CHWTSDf	One month from date of issue of consent
13		1,00,000		To comply with conditions as laid down in Schedule V of BMW Rules prescribed for Deep burial.	Continuous

** 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).

++ The Bank Guarantee(s) shall be valid for a period upto: Validity of CCA + 4 months



Schedule-IV**I) Terms & Conditions for compliance of Biomedical Waste Management**

1. The "authorized Person" Administrator, M/s. JMF Annasaheb Chudaman Patil Memorial Medical college & Hosp ,G. No. 1-D-1, 11/2A, 14/1,2,3, 16/2 ,Dhule,Morane,,Maharashtra,Dhule – 425001 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 Color coding	Treatment & Disposal
1	Cat -1	Human Anatomical waste	69	Yellow	Incineration
2	Cat-3	Microbiology & Biotechnology Waste	1700	Yellow	Incineration
3	Cat-4	Waste Sharps	7.5	Blue / white translucent	Disinfection (chemical treatment)and mutilation / shredding
4	Cat-5	Discarded Medicines and Cytotoxic drugs	44	Yellow	Incineration
5	Cat-6	Soiled Waste	2348	Yellow	Incineration
6	Cat-7	Solid Waste	144	Red.	Disinfection (chemical treatment) autoclaving / and mutilation / shredding
7	Cat-9	Incineration ash	175		To be sent to CHWTSDF/ deep burial

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.

Standards for Waste Autoclaving:

The autoclave should be dedicated for the purposes of disinfecting and treating bio- medical waste,

- (I) When operating a vacuum autoclave, medical waste shall be subjected to a minimum of one pre-vacuum pulse to purge the autoclave of all air. The waste shall be subjected to the following.
- (i) a temperature of not less than 121° C and a pressure of 15 psi for an autoclave residence time of not less than 45 minutes; or
- (ii) a temperature of not less than 135° C and a pressure of 31 psi for an autoclave residence time of not less than 30 minutes; or
- (II) Medical waste shall not be considered properly treated unless the time, temperature and pressure indicators indicate that the required time, temperature and pressure were reached during the autoclave process. If for any reasons, time temperature or pressure indicates that the required temperature, pressure or residence time was not reached, the entire load of medical waste must be autoclaved again until the proper temperature, pressure and residence time were achieved.

- (III) Recording of operational parameters,- Each autoclave shall have graphic or computer recording devices which will automatically and continuously monitor and record dates, time of day, load identification number and operating parameters throughout the entire length of the autoclave cycle.
- (IV) Validation test: Spore Test – The autoclave should completely and consistently kill the approved biological indicator at the maximum design capacity of each autoclave unit. Biological indicator for autoclave shall be *Bacillus stearothermophilus* spores using vials or spore strips, with at least 1×10^4 spores per milliliter. Under no circumstances will an autoclave have minimum operating parameters less than a residence time of 30 minutes, regardless of temperature and pressure, a temperature less than 121°C or a pressure, less than 15 psi.
- (VI) Routine Test: A chemical indicator strip/tape that changes color when a certain temperature is reached can be used to verify that a specific temperature has been achieved. It may be necessary to use more than one strip over the waste package at different location to ensure that the inner content of the package has been adequately autoclaved.

Maharashtra Pollution Control Board

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.

-----0000-----

