

MAHARASHTRA POLLUTION CONTROL BOARD

Tel : 25802272

Fax : 24087295

Visit us at:

Website : <http://mpcb.gov.in/>

E-mail Id: rothane@mpcb.gov.in



Regional Office, Thane
5th Floor, Office Complex Bldg.,
Near Mulund Check Naka,
Wagale Estate,
Thane-400 604

LETTER OF BIO-MEDICAL WASTE AUTHORISATION

[Authorization for Generation, Disposal of Bio-Medical Wastes under Rule 10 of the Bio-Medical Management Rules, 2016]

- I. File number of authorization and date of issue
No. MPCB/ROT/Authorization/TH-II/1905000549 Date: 29/05/2019
- II. M/s. Star Hospital is hereby granted an authorization for generation of biomedical waste on the premises at Beside Krish Garden Bldg, Opp. Shani Mandir, Laxmi Ben Chheda Marg, Patankar Park, Nallasopara (W), Tal. Vasai, Dist. Palghar.
- III. This authorisation shall be in force for a period up to 31/01/2022. An application shall be made by the occupier/operator for renewal 3 Months before expiry of earlier authorisation.
- IV. This authorisation is issued subject to compliance of the conditions stated below and to such other conditions as may be specified in the Rules for the time being in force under the Environment (Protection) Act, 1986.
- V. No of Beds: 40

Terms and Conditions of authorisation

1. The authorized Person shall comply with the provisions of the Environment (Protection) Act, 1986, and the Rules made there under.
2. The authorisation shall be produced for inspection at the request of an officer authorized by the prescribed authority.
3. i) The authorized person shall not rent, lend or sell the biomedical waste or facility.
ii) The authorized person can transfer the BMW generated at above premises to the "Transporter" or "Operator of Facility" authorized by MPCB under the Bio-Medical Waste Management Rules, 2016 for collection, transportation, treatment and/or disposal of BMW generated.
4. Any unauthorized change in equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of this authorisation.
5. It is the duty of the authorized person to take prior permission of the prescribed authority to close down the facility.

6. The authorisation is granted for generation of Bio-Medical Waste (BMW) in waste categories and quantities listed here in below :

Sr. No.	Category of waste	Type of waste	Generation Qty(Kg/M Or Ltr/M)	Mode of Storage	Treatment & Disposal
1	Yellow (a)	Human Anatomical Waste	7.0	Yellow coloured non-chlorinated plastic bags	Incineration or Plasma Pyrolysis or deep burial.
2	White (Translucent)	Waste sharp	5.0	Puncture proof, Leak proof, tamper proof container	Autoclaving or Dry Heat Sterilization followed by shredding or mutilation or encapsulation in metal container or cement concrete; combination of shredding cum autoclaving; and sent for final disposal to iron foundries (having consent to operate from the State Pollution Control Boards or Pollution Control Committees) or sanitary landfill or designated concrete waste sharp pit.
3	Yellow (c)	Soiled waste	5.0	Yellow coloured non-chlorinated plastic bags	Incineration or Plasma Pyrolysis or deep burial. In absence of above facilities, autoclaving or micro-waving hydroclaving followed by shredding or mutilation or combination of sterilization and shredding. Treated waste to be sent for energy recovery.
4	Yellow (g)	Solid waste	4.0	Non-chlorinated yellow plastic bags or suitable packing material	Non-chlorinated chemical disinfection followed by incineration or Plasma Pyrolysis or for energy recovery. In absence of above facilities, shredding or mutilation or combination of sterilization and shredding. Treated waste to be sent for energy recovery or incineration or Plasma Pyrolysis.

5	Yellow (f)	Liquid waste	60.0	Separate collection system leading to effluent treatment system	After resource recovery, the chemical liquid waste shall be pre-treated before mixing with other waste water. The combined discharge shall conform to discharge norms given in Schedule-III.
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7. The liquid/solid waste generated from the treatment activity (from laboratory and washing, cleaning, housekeeping and disinfecting activities) shall be treated suitably by providing effluent treatment facility to conform the standards prescribed in Schedule V of said Rules and the Environment (Protection) Act, 1986.
8. (i) BMW shall be treated and disposed of in accordance with Schedule I, and in compliance with the standards prescribed in Schedule V of said Rules.
(ii) You shall setup requisite BMW treatment facilities like incinerator, autoclave / Microwave, shredder etc., at the disposal side in accordance with the BMW rules. You shall disposed of the duly treated BMW and incineration ash in secured land fill site at your own premises / at MSW secured land fill site of Municipal Council authorized by MPCB and duly earmarked for disposal of treated BMW / at common H.W. treatment & disposal facility setup as per the Hazardous Waste (M & H) Rules, 1989 as amended and authorized by MPCB.
9. (i) BMW shall not be mixed with other wastes or reused, recycled or sold in any form.
(ii) BMW shall be segregated into containers / bags at the point of generation in accordance with Schedule-I prior to storage, treatment and disposal. The containers shall be labeled according to Schedule IV.
(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 IV, 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.
10. Standards for waste autoclaving:
The autoclave should be dedicated for the purposes of disinfecting and treating bio-medical waste,
(I) When operating a gravity flow autoclave, medical waste shall be Subjected to:
(i) a temperature of not less than 121 C° and pressure of 15 pounds per Square inch (psi) for an autoclave residence time of not less than 60 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 45 minutes; or
(iii) a temperature of not less than 149 C° and a pressure of 52 psi for an autoclave residence time of not less than 30 minutes.
(II) 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
- (III) 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.
- (IV) *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.
- (V) *Validation test: Spore testing*. - 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.
- (VII) Spore testing: 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 *Geobacillus stearothermophilus* spores using vials or spore Strips; with at least 1×10^6 spores. Under no circumstances will an autoclave have minimum operating parameters less than a residence time of 30 minutes, a temperature less than 121° C or a pressure less than 15 psi. The occupier or operator of a common bio medical waste treatment and disposal facility shall conduct this test at least once in every week and records in this regard shall be maintained.
11. Every 'Authorized Person' shall submit an Annual Report to the prescribed authority in Form-IV by 30TH June every year including information about the categories and quantities of BMW handled during the preceding year.
12. (i) Every 'Authorized Person' 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.
- (ii) All records shall be subject to inspection and verification by the prescribed authority at any time.

13. 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 -I to the prescribed authority forthwith.
14. The Occupier will obey all the lawful instructions issued by the Board Officers from time to time.
15. This Board reserves the right to amend, revoke or add any conditions in this consent and same shall be binding on the applicant.
16. MPC Board has issued Bank Guarantee regime in respect of Health Care Establishment vide Circular No. 1825, dated.10.04.2013. Accordingly, The hospital authority shall submit the Bank Guarantee's as mentioned below towards compliance of various conditions in favour of Regional Office, Thane within 15 days from date of issue of this letter.

Sr. No.	Activity/ Condition to be complied	Compliance Timeline (Months)	Bank Guarantee (Rs.)
I (A)	Operation and Maintenance		
1	To Segregate and Handle BMW as per Rule	Continuous	25,000/-
I (B)	Record maintaining		
1	To Maintain records of BMW and submission of Annual Report in Form-IV before 30 th June.	Continuous	15,000/-
II	To maintain records of BMW material received/ delivered to authorized party/ CBMWTSDF (Transporters only)	Continuous	10,000/-

For and on behalf of the
Maharashtra Pollution Control Board

(M. R. Lad)
Regional Officer, Thane

TO,
M/s. Star Hospital,
Beside Krish Garden Bldg, Opp. Shani Mandir,
Laxmi Ben Chheda Marg, Patankar Park,
Nallasopara (W), Tal. Vasai, Dist. Palghar.

Authorization Fees Received:-

Sr. No.	Amount	D. R. No.	Date	Drawn On
1	7500/-	7616523	26/11/2018	Bank of Maharashtra

Copy to:-
Sub-Regional Officer, M. P. C. Board, Thane-II