

MAHARASHTRA POLLUTION CONTROL BOARD

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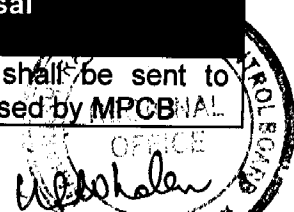
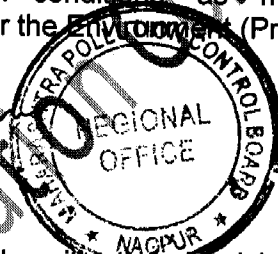
LETTER OF BIO-MEDICAL WASTE AUTHORISATION [Authorisation for of Bio-Medical Wastes under Rule 7(4)]

- I. File number of authorisation and date of issue
MPC/NRO/BMW/2017/05000268 dtd:- 11/5/2017
- II. **Krims Hospital (Ketki Research Institute of Medical Sciences)** is hereby granted an authorisation for generation of biomedical waste on the premises situated at **275, Central Bazar Road, Ramdaspath, Nagpur.**
- III. This authorisation shall be in force for a period up to **31/03/2019**. 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 beds.**

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 Bio-Medical Waste (Management and Handling) Rules, 1998 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	Quantity	UOM	Treatment & Disposal
1	Cat-1 Human Anatomical Waste	15	Kg/M	Bio-medical Waste shall be sent to CBMWTSDf authorised by MPCB

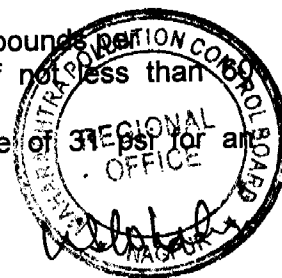


2	Cat-4 Waste Sharps	25	Kg/M	Bio-medical Waste shall be sent to CBMWTSDf authorised by MPCB
3	Cat-7 Solid Waste (Items contaminated with Blood)	110	Kg/M	Bio-medical Waste shall be sent to CBMWTSDf authorised by MPCB
4	Cat 5 Discarded Medicines & Cytotoxic Drugs	1	Kg/M	Bio-medical Waste shall be sent to CBMWTSDf authorised by MPCB
5	Cat-6 Solid Waste	450	Kg/M	Bio-medical Waste shall be sent to CBMWTSDf authorised by MPCB
6	Cat-3 Microbiology & Biotechnology Waste	5	Kg/M	Bio-medical Waste shall be sent to CBMWTSDf authorised by MPCB

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 site 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-II prior to storage, treatment and disposal. The containers shall be labeled according to Schedule III.
(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.
10. **Standards for waste autoclaving:**

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

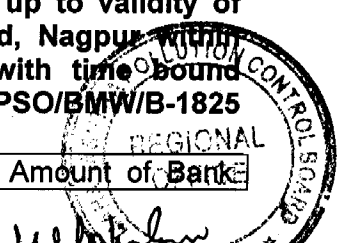
- (i) When operating a gravity flow autoclave, medical waste shall be Subjected to:
- (i) a temperature of not less than 121 C° and pressure of 15 pounds Square inch (psi) for an autoclave residence time of not less than minutes; or
(ii) a temperature of not less than 135 C° and a pressure of 37.5 psi 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 that one strip over the waste package at different location to ensure that the inner content of the package has been adequately autoclaved.
11. Every 'Authorized Person' 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.
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 III to the prescribed authority forthwith.
14. You shall submit total Bank Guarantee of Rs. 1,50,000/- valid up to validity of this authorization, in favour of Regional Officer, M.P.C. Board, Nagpur within 15 days. Specific conditions with Bank Guarantees along with time bound programme for compliance as per Board's circular no MPCB/PSO/BMW/B-1825 dtd 10/04/2013 is as follows-

Sr.	Activity/Condition to be Complied	Compliance	Amount of Bank
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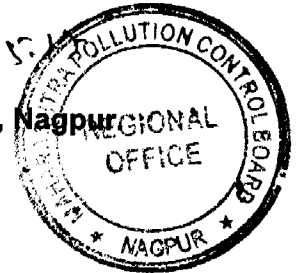


No.		Timeline (Months)	Guarantee (Rs)
I(A)	Operation and Maintenance		
1	To segregate and Handle BMW as per rule	Continuous	25,000
2	Operation and Maintenance of ETP to achieve prescribed discharged standards.	Continuous	25,000
I(B)	Records		
1	To Maintain records of BMW and submission of Annual Report in Form-II before 31 st January	Continuous	15,000
2	To Maintain records of BMW material received / delivered to authorized party / CBMWTSDF (Transporters only)	Continuous	10,000
II	Performance		
1	To provide Separate BMW storage facility	Six	25,000
2	Effluent treatment plant not provided / need up gradation	Six	50,000
		Total	1,50,000/-
	Rupees One Lakh Fifty Thousand only		

15. You shall submit compliance of each Bank Guarantee conditions every six months to Regional Officer, Nagpur for verification purpose.
16. You shall obtain Consent to operate from Board Under Water (P & CP) Act, 1974 and Air (P & CP) Act, 1981, forthwith.
17. The Occupier will obey all the lawful instructions issued by the Board Officers from time to time.

For and on behalf of the
Maharashtra Pollution Control Board

N.S. Lohalkar
(N.S. Lohalkar)
I/c. Regional Officer, Nagpur



To
Krim's Hospital (Ketki Research Institute of Medical Sciences)
275, Central Bazar Road, Ramdaspath, Nagpur.

Authorization Fees Received:-

Sr. No.	Amount	D.D. No.	Date	Drawn On
1	7500	TXN1704000368	03 April 2017	---

Copy Submitted to:-

1. The Chief Accounts Officer, MPCB Board Mumbai
2. The Principal Scientific Officer, MPCB, Sion, Mumbai

Copy to:-

Sub-Regional Officer, M. P. C. Board, Nagpur-I.

For information necessary compliance of condition mentioned in the authorization. He / She is also directed to ensure the timely compliance of condition no. 14.