MAHARASHTRA POLLUTION CONTROL BOARD

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Sahakar Surbhi Bapatwadi, Near Vivekanand Colony,Amravati-444606

LETTER OF BIO-MEDICAL WASTE AUTHORISATION

[Authorization for Generation, Storage of Bio-Medical Wastes under Rule 10]

I. File number of authorization and date of issue
SRO-AMRAVATI II/BMW_AUTH/1812000459 Date21.12.2018

II. **M/s. Sai Hospital is** hereby granted an authorization for generation of biomedical waste on the premises situated A/p- House No.102, Near Dutt Mandir, Nevi Pura, Karanja(Lad), Ta.Karanja(Lad), Dist.Washim Maharashtra.

III. This authorization shall be in force for a period up to **31 December 2020**. An application shall be made by the occupier/operator for renewal **3 Months** before expiry of earlier authorization.

IV. This authorization 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: **04.**

<u>Terms and Conditions of authorization</u>

1. The authorized Person shall comply with the provisions of the Environment (Protection) Act, 1986, and the Rules made there under.

2. The authorization 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 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 authorization.

5. It is the duty of the authorized person to take prior permission of the prescribed authority to close down the facility.

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

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 Colour coding	Treatment & Disposal
1	Yellow	a) Human Anatomical waste	NIL	Yellow coloured non- chlorinated plastic bags	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. CBMWTSDF
		b) Animal Anatomical Waste	NIL		
		c) Soiled Waste	3.5		
		d) Expired or Discarded Medicines	2.3		
		e) Chemical Waste	NIL		
		f) Chemical Liquid Waste	NIL	Separate collection system leading to effluent treatment system	
		g) Discarded linen, mattresses, beddings contaminated with blood or body fluid.	4.5	Yellow coloured non- chlorinated plastic bags or suitable packing material	
		h) Microbiology Biotechnology and other clinical laboratory waste	NIL	Autoclave safe plastic bags or containers	
2	Red	Contaminated waste (Recyclable)	NIL	Red coloured non chlorinated plastic bags or containers	
3	White (Translucent)	Waste sharps including Metals	1.2	Puncture proof, Leak proof, tamper proof container	
4	Blue	a) Glassware	NIL	Cardboard boxes with Blue colored marking	

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-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 Cº 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 Cº 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 Cº 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 Cº 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 Cº 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 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 1x 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.

(V) 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. CONDITIONS UNDER AIR ACT :

(i) The applicant shall install a comprehensive control system consisting of control equipments as is warranted with reference to generation of emission and operate and maintain the same continuously so as to achieve the level of pollutants to the following standards:

Control Equipment:

Industry shall provide dust collector of sufficient capacity to control the emissions.

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. The industry shall take adequate measures for control of noise levels from its own sources within the premises in respect of noise to less than 55 dB(A) during day time and 45 dB(A) during the night time. Day time is reckoned between 6 a.m. to 10 p.m and night time is reckoned between 10 p.m to 6 a.m.

d. Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper sitting and control measures.

e. Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.

f. 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

g. D.G. Set shall be operated only in case of power failure

h. The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set

Standards for Stack Emissions:

(i) **The applicant shall observe the following fuel pattern:-**

Sr. No.	Type Of Fuel	Quantity	UOM
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The applicant shall erect the chimney(s) of the following specifications:-

Sr. No.	Chimney Attached To	Height in Mtrs.
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(ii) 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.

(iii) 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.

(vi) Other Conditions:

1) The industry should not cause any nuisance in surrounding area.
2) The industry should monitor stack emissions and ambient air quality Regularly.

12. 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.

13. (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.

14. 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.

15. The Occupier will obey all the lawful instructions issued by the Board Officers from time to time.

16. The authorization shall comply with the provisions of the Environment (Protection) Act, 1986 and the rules made there under.

17. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the prescribed authority.

18. The person authorized shall not rent, lend, sell, transfer or otherwise transport the biomedical wastes without obtaining prior permission of the prescribed authority.

19. Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.

20. It is the duty of the authorized person to take prior permission of the prescribed authority to close down the facility and such other terms and conditions may be stipulated by the prescribed authority. F

For and on behalf of the
Maharashtra Pollution Control Board

(S.D.Patil)
I/c. Sub-Regional Officer, Amravati-II

To
M/s. Sai Hospital
Dr. Pradnya Ulhasrao Patil
A/p- House No.102, Near Dutt Mandir, Nevi Pura,
Karanja(Lad), Ta.Karanja(Lad), Dist.Washim.

Authorization Fees Received:-

Sr. No.	Amount (Rs.)	e-Payment/DR No.	Date	Drawn On
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Copy Submitted to:-
Regional Officer, M.P.C. Board, Amravati