

MAHARASHTRA POLLUTION CONTROL BOARD

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LETTER OF BIO-MEDICAL WASTE AUTHORISATION

[Authorisation for Collection, Reception, Storage, Transportation, Treatment, Disposal of Bio-Medical Wastes under Rule 7(4) of BMW (M & H) Rules, 1998]

No. MPCB/PSO)/BMW/ Navi Mumbai /2013 - 16

Dated : 28.10.2013

- I. File number of authorisation and date of issue
- II. **M/s. Evergreen Environmental, Uran** is hereby granted an authorisation for generation of biomedical waste on the premises situated at **Survey No.142/B, Uran Municipal Council, Bori Pakadi, Uran, Dist. Raigad.** (email: **navinpanjwani2009@gmail.com**)
- III. This authorisation is renewed w.e.f. **01.10.2011** and shall be valid for a period up to **30.09.2014**. An application shall be made by the occupier/operator for renewal **3 Months** before expiry of this authorisation.
- V. 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.

Terms and Conditions of authorisation

1. The "authorized Person" Proprietor, M/s. Evergreen Environmental, Uran 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 i.e. Member Secretary, MPCB.
3. Any unauthorized change in equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of this authorisation.
4. It is the duty of the authorized person to take prior permission of the prescribed authority to close down / suspended the facility for temporary period or permanently.

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5. The authorisation is granted for collection, storage, transportation, treatment and disposal of Bio-Medical Waste (BMW) from the HCEs in their jurisdiction as per clause 14 of this authorization. The waste categories and quantities listed here in below :

Sr. No.	Category	Description	Quantity not to exceed	UOM	Segregation Colour coding	Treatment & Disposal
1	Cat-1	Human Anatomical waste	338	Kg/M	Yellow	Deep Burial
2	Cat-3	Microbiology & Biotechnology Waste	70	Kg/M	Yellow	Deep Burial
3	Cat-4	Waste Sharps	82	Kg/M	Blue/ white translucent	Disinfection by chemical treatment, autoclaving, shredding and hand over to MPCB authorized metal recyclers.
4	Cat-6	Soiled Waste	163	Kg/M	Yellow	Deep Burial
5	Cat-7	Solid Waste	182	Kg/M	Red	Disinfection by chemical treatment, autoclaving, shredding and hand over to MPCB authorized plastic recyclers.

6. The liquid/solid waste generated from the treatment activity (from 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.
7. (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 deep burial pits, autoclave, shredder, etc., in accordance with the BMW rules. You shall dispose of the duly treated Metal & Plastic waste to MPCB authorized recycler.
8. (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.

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- (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 Transboundary 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.
9. **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^o 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^oC 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^oC 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^oC 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^oC 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^o 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.

10. The liquid / solid waste generated from the treatment activity (from laboratory and washing, cleaning, housekeeping and disinfecting activities) shall be treated suitably to conform to the standards prescribed in Schedule V of said Rules and the Environment (Protection) Act, 1986.

10.1 Standards for LIQUID waste :

The effluent generated should conform to the following limits

PARAMETERS	PERMISSIBLE LIMITED
PH	... 6.5- 9.0
Suspended solids	... 100 mg/l
Oil and grease	... 10 mg/l.
BOD	... 30 mg/l
COD	... 250 mg/l
Bio-assay test	... 90% survival of fish after 96 hours in 100% effluent

These limits are applicable to those hospitals which are either connected with sewers without terminal sewage treatment plant or not connected to public sewers. For discharge into public sewers with terminal facilities, the general standards as notified under the Environment (Protection) Act, 1986 shall be applicable.

11.0 Standards for deep burial :

1. A pit or trench should be dug about 2 meters deep. It should be half filled with waste, then covered with lime within 50 cm of the surface, before filling the rest of the pit with soil.
2. It must be ensured that animals do not have any access to burial sites. Covers of galvanized iron/wore meshes may be used.
3. On each occasion, when wastes are added to the pit, a layer of 10 cm of soil shall be added to cover the wastes.
4. Burial must be performed under close and dedicated supervision.
5. The deep burial site should be relatively impermeable and no shallow well should be close to the site.
6. The pits should be distant from habitation, and sited so as to ensure that no contamination occurs of any surface water or ground water. The area should not be prone to flooding or erosion.
7. The location of the deep burial site will be authorized by the prescribed authority.
8. The institution shall maintain a record of all pits for deep burial.
 - **The occupier shall comply with above operating and emission standards during the validity period of this Authorization . In case of failure your authorization shall be cancelled.**

12. (i) You shall submit an Annual Report to MPCB(RO), Navi Mumbai 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 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.

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. M/s. Evergreen Environmental, Uran shall collect Bio-Medical waste from Uran Municipal Council area and any other adjoining area mutually agreeable to Uran Municipal Council and this facility and after obtaining NOC of concerned Local body from Raigad District for collection of BMW from their jurisdiction.
15. This authorization is issued subject to condition as mentioned below,
 - To submit B.G. of Rs. 3.25 lakhs towards compliance of condition mentioned at Annexure - A valid for three years. B.G. conditions will be reviewed by RO, Navi Mumbai every six months.
 - You shall obtain Consent to operate from Board under Water (P & CP) Act, 1974 and Air (P & CP) Act, 1981.
16. The Occupier will obey all the lawful instructions issued by the Board Officers from time to time.
17. You shall submit concrete proposal for expansion i.e. installation of incinerator, etc. with Techno-economic feasibility report alongwith NOC from concerned Urban Local Body within six months.
18. Board reserves right to cancel/ amend your authorization as per policy matter changes, as and when necessary.

Sd/-
 (Rajeev Kumar Mital)
 Member Secretary
 and
 Prescribed Authority


 (Dr. A.R. Supate)
 Principal Scientific Officer

To
 M/s. Evergreen Environmental,
 Survey No.142/B,
 Uran Municipal Council,
 Bori Pakadi, Uran, Dist. Raigad.
 Authorization Fees Received:-

Sr. No.	Amount	DD. No.	Date	Drawn On
1	17500	011743	03.11.2011	Ahmedbad Merchant Bank
2	17500	003854	07.08.2012	Abhudaya Coop Bank
3	17500	100743	08.05.2013	Abhudaya Coop Bank
4	17500	100744	08.05.2013	Abhudaya Coop Bank

Copy to:

- 1] ~~Principal Scientific Officer, MPCB~~ for information
- 2] Regional Officer, MPCB, Navi Mumbai - for information. & n.a.
- 2] Sub Regional Officer, Taloja, MPCB, for information and with instructions to monitor the necessary compliance of the conditions stipulated in the Letter of Authorization.

No. MPCB/PSO)/BMW/ Navi Mumbai /2013 - 16 Dated : 28.10.2013

Annexure -A

Statement of conditions to be complied and Bank Guarantee imposed to ensure timely compliance to be observed by **M/s. Evergreen Environmental, Uran.**

Sr. No.	Activity / Condition to be Complied	Compliance Timeline (Months)	Bank Guarantee Amount
I (A)	Operation and Maintenance		
1	To conduct and meet sterilization validation test and temperature test for Autoclave	Continuous	50,000
2	To comply with the condition as laid down in schedule V of BMW Rules prescribed for deep burial	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	Six	75,000
2	To provide graphical temperature, pressure and time recording system to Autoclave	Six	50,000
		Total,	3,25,000/-

Rupees Three Lakh Twenty five thousand only

Sd/-
(Rajeev Kumar Mital)
Member Secretary
and
Prescribed Authority


(Dr. A.R. Supate)
Principal Scientific Officer