



# GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector 10-A, Gandhinagar 382010

Phone : (079) 23226295

Fax : (079) 23232156

website : www.gpcb.gov.in

## "Consent to Establish" (NOC)

CTE - 51172

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NO: GPCB/BMW/Unit-22/ABD-684(3)/CTE/ID- 13667 /132706

18 DEC 2012

To,  
**Semb Ramky Environmental Management Pvt. Ltd,**  
**Plot No: 28, Ashwamegh Ind. Estate,**  
**Block no: 405, Village: Changodar-382 213,**  
**Tal: Sanand,**  
**Dist: Ahmedabad.**

**SUB:** Consent to Establish (NOC) No. CTE - 51172 under of Bio Medical Waste (Management & Handling) Rule, 1998 Amendment 2003.

**Ref:** Your XGN application Inward ID No.59265 dated 17/12/2011

Sir,

Without Prejudice to the powers of this board under the Bio Medical Waste (Management & Handling) Rule, 1998 & Amendment 2003 under the said acts in any way, this is to inform you that this board grants Consent to Establish (NOC) NO. CTE - 51172 for establishment of Common Bio Medical Waste Treatment Facility (CBWTF) at **Plot No: 28, Ashwamegh Ind. Estate, Block no: 405, Village: Changodar-382 213, Tal: Sanand, Dist: Ahmedabad** as below mentioned capacity for the treatment of Bio Medical Waste. **The validity period of the CTE order is up to 19/07/2017.**

Particular	Proposed Capacity
Incinerator	250 Kg/Hr.
D. G. Set	85 KVA

### CONDITION UNDER THE BIO MEDICAL WASTE (MANAGEMENT & HANDLING) RULE

1. Segregate and treat the waste as per the Bio-Medical Waste (Management & Handling) Rules, 1998 & amendment 2003.
2. The scavengers shall be prevented from sorting the non disinfected waste.
3. To operate & maintain, the incinerator properly and ensure immediate repair or replacement of faulty parts, such as burner, temperature indicator, temperature sensors, door etc.
4. The health care facilities shall maintain categories wise detail of biomedical waste generated. This is very much necessary in order to prevent the pilferage of disposable at the point of waste generation itself.
5. The details of waste received and treated in the incinerator shall be maintained in the record book.

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6. The incinerator should only be operated by skilled and qualified person; the person should be at least matriculate with preferably diploma from NIT in the relevant field. The incinerator manufacturers shall also impart necessary training in this regard to the operators.
7. Destroy needles/syringes in the ward or at the working desk. Otherwise, they should be collected in puncture proof sturdy containers for treatment at the center facility of the hospital or at a common facility away from the hospital. The hospital with more than 500 hundred beds shall disinfect the waste by using microwave/autoclave or any other equivalent alternate technology. The smaller hospital may consider chemical treatment as an option for disinfection.
8. The transportation vehicle for carrying the waste to the facility shall be specially designed with approval from the Bureau of Indian Standards. The vehicles shall also be properly labeled with the related symbols.
9. The CBWTF shall comply with the emission and effluent standards as per schedules V of the Bio Medical Waste (Management & Handling) Rules, 1998 & amendment 2003.
10. In case of occurrence of any accidents, the operator shall report to the prescribed authority in form III mentioned in the Bio Medical Waste (Management & Handling) Rules, 1998 & amendment 2003.
11. Prior to the installation of any CBWTF, the operator of the CBWTF shall obtain the authorization from the Gujarat Pollution Control Board in form I given under Bio Medical Waste (Management & Handling) Rules, 1998 & amendment 2003.
12. Bio Medical Waste shall be treated and disposed off in accordance with schedule I and in compliance with the standards prescribed in schedule V of Bio Medical Waste (Management & Handling) Rules, 1998 & amendment 2003.
13. The applicant where required, shall set up requisite Bio Medical Waste treatment facilities like incinerator, autoclave, shredding/microwave system for the treatment of waste or ensure requisite treatment at common waste facility of any other waste treatment facility.
14. **Standards for Incineration:**
  - a) Combustion efficiency shall be at least 99.00%.
  - b) The temperature of the primary chamber shall be  $800 \pm 50^{\circ}\text{C}$ .
  - c) The secondary chamber gas residence time shall be at least 1 second at  $1050 \pm 50^{\circ}\text{C}$ , with minimum 3% of  $\text{O}_2$  under stack gas.
  - d) Online monitoring system should be provided for the operation of the incinerator.
  - e) Stack height should be 30 meter from the ground level.
  - f) The Process emission through the stack attached to incinerator shall conform the following standards

Stack No.	Stack attached to	Stack height in Meter	APC Device	Parameter	Permissible Limit (at 12%CO <sub>2</sub> correction)
1	Incinerator	30	Cyclone Separator & Scrubber	PM	<150 mg/NM <sup>3</sup>
				NO <sub>x</sub>	<450 mg/NM <sup>3</sup>
				HCl	<50 mg/NM <sup>3</sup>
2	D. G. Set	11	N.A	PM	<150 mg/NM <sup>3</sup>
				NO <sub>x</sub>	<450 mg/NM <sup>3</sup>
				HCl	<50 mg/NM <sup>3</sup>



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15. Volatile organic compounds in ash shall not be more than 0.01%.
16. Suitably designed air pollution control device should be installed/retrofitted with the incinerator to achieve the above emission limit.
17. Waste to be incinerated shall not be chemically treated with any chlorinated disinfectants.
18. Chlorinated plastic shall not be incinerated.
19. Toxic metal in incineration ash shall be limited within the regulatory quantities as defined under the Hazardous Waste (M&H) Rules, 1989 and its amendment up to 2003.
20. Diesel @ 20 Lit/Hr shall be used as fuel for the incinerator.
21. Diesel @ 20 Lit/day shall be used as fuel for the D. G. Set.
22. A log book for the operation and maintenance of incinerator shall be maintained including details of waste received, waste incinerated, fuel consumption, etc. and shall be kept in the incinerator room and be available for inspection at any time.

### 23. Effluent Standards:

- a) The industrial waste water generation shall not be exceed 2.65 Kl/Day
- b) The domestic waste water (Sewage) generation shall not exceed 1.00 Kl/Day
- c) The quantity of industrial effluent shall conform to the following standards:

Parameters	Maximum permissible limit
PH	6.5 TO 9.0
Temperature	40 °C
Total Suspended Solids	100 mg/lit
Oil and Grease	10 mg/lit
B.O.D.	30 mg/lit
C.O.D.	250 mg/lit
Bio assay Test	90% survival of fish after 96 hr. in 100% effluent

- d) The treated effluent conforming to the above enviromental standards shall be reused for scrubber and after treatment finally used for the gardening within premises.
- e) The domestic waste water shall be disposed of through septic tank / soak pit system.

### 24. Condition under Hazardous Waste:

- a) Applicant shall have to comply with provision of Hazardous Waste (Management Handling & Transboundry Movement) Rules - 2008 as amended from time to time.
- b) The Applicant shall obtain the membership of common TSDF site for disposal of Haz. Waste as categorized in Haz. Waste (Management and Handling) Rule - 1989 as amended from time to time.
- c) The applicant shall provide temporary storage for each type of Haz. Waste as per Hazardous Waste (Management Handling & Transboundry movement) Rules - 2008 as amended from time to time.

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### **(A) Segregation and storage of Bio Medical Waste :**

1. Bio Medical Waste shall not be mixed with other wastes.
2. Bio Medical Waste shall be segregated into containers/bags at the point of generation in accordance with schedule II prior to its storage, transportation, treatment and disposal. The container shall be labeled according to schedule II.
3. At the storage site "**Bio Medical Waste Storage Site**" and "**Danger**" sign board shall be prominently displayed.
4. The applicant shall take all steps to ensure that such Bio Medical Waste is handled without any adverse effect human health and environment.
5. The container for storing segregated wastes shall be clearly identifiable. The color coding and type of containers shall be followed as per schedule II of the Bio Medical Waste (Management & Handling) Rules, 1998 & amendment 2003. Color coding of waste categories with multiple treatment option as defined in schedule I shall be selected depending on treatment option chosen, which shall be as specified in schedule I.
6. No untreated Bio Medical Waste shall be kept stored beyond a period of 48 hours provided that if any reason it becomes necessary to store the waste beyond such period, the authorized person must take permission of the prescribed authority and take measure to ensure that the waste does not adversely affect human health and environment.
7. Waste collection bags for waste types needing incineration shall not be made of chlorinated plastics.

### **(B) Transportation of Bio Medical Waste:**

1. If a container is transported from the premises where Bio Medical Waste is generated, to any waste treatment facility outside the premises, the container shall, apart from the labeled prescribed in schedule III, also carry information prescribed in schedule IV.
2. Untreated Bio Medical Waste shall be transported only in such vehicles as may be authorized for the purpose by the competent authority. The transport vehicles shall be prominently labeled as per symbols shown in schedule III.
3. GPS system should be provided to each vehicles used for the collection and transportation of the Bio Medical Waste.

### **GENERAL CONDITIONS:**

1. When any accident occurs at any institution or facility or any other site where Bio Medical Waste is handled or during transportation of such waste the authorized person shall report accident in form III to the Board forthwith.
2. Every applicant shall maintain records related to the generation, collection, reception, storage, transportation, treatment, disposal and/or any form of handling of Bio Medical Waste in accordance with these rules and any guidelines issued.
3. All records shall be subject to inspection and verification by the Board at any time.
4. Every applicant shall submit annual report in form II by 31<sup>st</sup> January every year, which shall include information about the categories and quantities of Bio Medical Waste handled during the preceding year.
5. The applicant shall be further required to obtain a following from Board,
  - a) Consent under the Water (Prevention & Control of pollution) Act-1974.
  - b) Consent under the Air (Prevention & Control of pollution) Act-1981.
  - c) Authorization under the Hazardous Waste (M&H) Rules, 1989 under the Environment (Protection) Act, 1986.



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6. Trees shall be planted and maintained around the plant in an area at least four times the built up area of the industry. Green belt development shall be started along with the construction activity.
7. The Board will issue another letter to the applicant/entrepreneur certifying the completion of pollution control equipments/system after carrying out inspection in this regard to enable him to be eligible for the receipt of the rest of the sanctioned funds from the financial institutions.
8. Required capacity of D.G. Set shall be installed.
9. You have to comply all the conditions and specifications of the guidelines published by Central Pollution control Board for the Common Bio Medical Waste Treatment Facility.

**For & On behalf of**  
**Gujarat Pollution Control Board**

  
(N. M. Tabhani)

**Senior Environment Engineer**

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