MAHARASHATRA POLLUTION CONTROL BOARD

Phone

4010437/4020781

Fax

/4037124/4035273

24044532/4024068

/4023516

Email

enquiry@mpcb.gov.in

Visit At :

http://mpcb.gov.in



Kalpataru Point, 3rd & 4th floor, Sion- Matunga Scheme Road No. 8, Opp. Cine Planet Cinema.

Near Sion Circle, Sion (E),

Mumbai - 400 022

LETTER OF BIO-MEDICAL WASTE AUTHORISATION

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

No. MPCB/PSO)/BMW/ Thane/2014 - も3

- I. File number of authorisation and date of issue
- I.II. M/s. TOUCH N' GLOW, 22, Mudra Shopping Complex, Kacheri Road, Palghar (W), an authorisation for operating Common Dist- Thane- 401 404 is hereby granted Biomedical Waste treatment and disposal facility on the premises situated at village Mahim, Bidco Industrial Estate, S.No.831/25 & 831/15, Plot No.31, Taluka Palghar, Dist- Thane. (email: nilpat79@gmail.com)
- This authorisation is renewed w.e.f. 01,06.2013 and shall be valid for a period up to III. 31.05.2015. An application shall be made by the occupier/operator for renewal 3 Months before expiry of this authorication.
- 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

- The authorized Person" Amogh Rajaram Salaskar, M/s. Touch N' Glow, Palghar shall 1. 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.

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 13 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	2000	Kg/M	Yellow	Incineration
		Anatomical				
		waste			~~ 11	
2	Cat- 2	Animal waste	Nil	Kg/M	Yellow	Incineration (1)
3	Cat-3	Microbiology &	500	Kg/M	Yellow	Incineration
		Biotechnology Waste				the free free free free free free free fr
4	Cat-4	Waste Sharps	1000	Kg/M	Blue/ white '	Disinfection by chemical
					translucent	treatment/ autoclaving
						and mutilation/
		ļ				shredding. Hand over to
		P.				MPCB authorized metal
						recyclers.
5	Cat-5	Discarded	1500	Kg/M	Yellow	Incineration / destruction
		Medicines and		100		and drug disposal in
		Cytotoxic drugs		6.46	•	secured landfill.
6	Cat-6	Soiled Waste	4500	Kg/M∙	Yellow	Incineration
7	Cat-7	Solid Waste	1500	Kg/M	Red	Disinfection by chemical
			Jan Onite	N		treatment, autoclaving,
			(Carlo Carlo)			shredding and hand over
		· ·	L. The			to MPCB authorized
			(1)-			plastic recyclers.
8	Cat-9	Incineration	As per	Kg/M	Black	Sent to CHWTSDF
		Ash	actual			

- 6. The liquid solid waste generated from the treatment activity (from washing, cleaning, flousekeeping and disinfecting activities) shall be treated suitably by providing offluent treatment facility to conform the standards prescribed in Schedule V of said Rules and the Environment (Protection) Act, 1986.
- 7. (1) Big W 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, shredder, etc., in accordance with the BMW rules. You shall dispose of the duly treated Metal & Plastic waste to MPCB authorized recycler and incineration ash in secured land fill site at authorized Common Hazardous Waste treatment & disposal facility (CHWTSDF) setup as per the Hazardous Waste (M & H) Rules, 1989 as amended.
- 8. (i) BMW shall not be mixed with other wastes or reused or sold in any form.

0

- (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.
- (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 is teps to ensure that the spilled mercury does not become a part of bio-medical or other solid wastes generated from the HCFs. haran)

9. Standards for waste autoclaving:

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

- When operating a gravity flow autoclave, medical waste shall be (I)Subjected to:
 - (i) a temperature of not less than 1210 C and pressure of 15 pounds per Square inch (pai) 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.
- 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 1x 10⁴ 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.
- 10. The liquid / solid waste generated from the treatment activity (from laboratory and washing, cleaning, housekeeping and disinfecting datrivities) 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 ERMISSIBLE LIMITED 6.5-9.0

PH 6.5- 9.0

Suspended soll 15 ... 100 mg/l

Oil and grease ... 10 mg/l.

BOD ... 30 mg/l

250 mg/l

Biolessay test ... 90% surv

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.

10.2 CONDITIONS UNDER AIR ACT:-

The incinerator should meet the following operating and emission standards: Standards for emissions of air Pollutants

Operating Standards

- 1. Combustion efficiency (CE) shall be at least 99.00%.
- 2. The Combustion efficiency is computed as follows;

- 3. The temperature of the primary chamber shall be $800 + 50 \,^{\circ}$ C.
- 4. The secondary chamber gas residence time shall be at least 1 (one) second at 1050 \pm 50°C with minimum 3% Oxygen in the stack gas.

S.No	Parameters	Conc.Mg/Nm3at (12%CQ2 correction)
1	Particulate matter	150
2	Nitrogen Oxides	450
3	HCL	50

- 5. Minimum stack height shall be 30 meters above the ground
- 6. Volatile organic compounds in the ash shall not be more than 0.01%
- 7. The Applicant shall provide ports in the chimney 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 chimneys shall be numbered as S-1, S-2 etc and these shall be painted / displayed to facilitate identification.
- 8. The applicant shall carry out monitoring of above mentioned parameters atleast quarterly from the approved laboratory and submit reprt of the same to the Board.

Suitably designed pollution control devices should be installed / retrofitted with the incinerator to achieve the above emission limits, if necessary.

- Wastes to be incinerated shall not be chemically treated with any chlorinated disinfectants.
- Chlorinated plastics shall not be incinerated.
- Toxic metals in incineration ash shall be limited within the regulatory quantities as defined under the Hazardous Waste (Management and Handling Rules,) 1989.

- Only low sulphur fuel like L.D.O./L.S.H.S./Diesel shall be used as fuel in the incinerator.
- The occupier shall comply with above operating and emission standards during the validity period of this Authorization. In case of failure your authorization may be cancelled.
- 10.3 The Applicant shall install, operate and maintain of Power generating sets (Diesel) as per provisions of Environment (Protection) Act, 1986.
 - 11. (i) You shall submit an Annual Report to MPCB (RO), Thane 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.
 - 12. 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.
- 13. M/s. Touch N' Glow, Palghar shall collect, treat and dispose off of BMW from following area as mentioned below,

Existing	Palghar and Dahanu Municipal	Any adjoining area agreeable to
Area	the state and	Municipal Council and this facility after
	Contraction of the contraction o	obtaining NOC of concerned Local
1	and the second	body for collection of BMW from their
		jurisdiction.
Additional	Wasai – Virar, Nallasopara,	On obtaining NOC from concerned
Area. \\	😗 Navghar Manikpur area of	local body for collection of BMW from
	Vasai –Virar Municipal	their jurisdiction.
	Corporation	

- 14. This authorization is issued subject to condition as mentioned below,
 - To submit B.G. of Rs. 5.50 lakhs within 15 days to RO- Thane towards compliance of condition mentioned at <u>Annexure A</u> valid for three years. B.G. conditions will be reviewed by RO, Thane every six months. In addition to this they have to submit B.G. of Rs. 50,000/- for making application for Consent to Operate within 30 days.
 - You shall obtain Consent to operate from Board under Water (P & CP) Act, 1974 and Air (P & CP) Act, 1981.

- 15. The facility operator shall ensure that all Health Care Establishments (HCEs) in their jurisdiction shall become member and hand over all Biomedical Waste generated in their hospital for treatment and disposal. In case of failure it is the duty of the facility operator to inform the name of such defaulter HCEs to Regional Officer, Thane.
- 16. The Occupier will obey all the lawful instructions issued by the Board Officers from time to time.

Sd/-(Rajeev Kumar Mital)

Prescribed Authority

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

To,

M/s. TOUCH N' GLOW, Village Mahim, Bidco Industrial Estate

S.No.831/25 & 831/15, Plot No.31, Taluka Palghar, Dist-Thane.

Authorization Fees Received:

Sr. No.	Amount	DD. No.	Date	Drawn On
1	17500	(269259	29.05.2013	Union Bank of India
2	17500	178540	25.07.2014	Vijaya Bank

Copy to:

1] Regional Officer, MPCB, Thane - for information. & n.a.

2] Sub Regional Officer, Tarapur -II, MPCB, for information and with instructions to manifold the necessary compliance of the conditions stipulated in the Letter of Authorization. You are also instructed to forward BMW cases of authorization and Consent through IMIS. He will also ensure BMW collection by facility operator from new area allocated with immediate effect.

Annexure -A

Statement of conditions to be complied and Bank Guarantee imposed to ensure timely compliance

to be observed by M/s. M/s. TOUCH N' GLOW, Palghar.

To achieve temperature of Primary and Secondary chamber of Incinerator To Operate and maintain Air Pollution Control Device(s) to achieve prescribed Stack emissions (e.g. Particulate Matter, HCL, NOx, VOC) I (B) Records To Maintain records of BMW and submission of Annual Report in Form –II before 31st January To maintain records of BMW material delivered to CBMWTSDF (Transporters only) II Performance To provide Separate BMW storage facility To provide Automatic BMW feeding system To provide PLC based online temperature monitoring system To provide Graphical Temperature, Pressure & Six Six Six Source Six So	Bank Guarantee Amount	Compliance Timeline (Months)	Activity / Condition to be Complied	Sr. No.
Secondary chamber of Incinerator To Operate and maintain Air Pollution Control Device(s) to achieve prescribed Stack emissions (e.g. Particulate Matter, HCL, NOx, VOC) I (B) Records To Maintain records of BMW and submission of Annual Report in Form –II before 31st January To maintain records of BMW material delivered to CBMWTSDF (Transporters only) II Performance To provide Separate BMW storage facility To provide Automatic BMW feeding system To provide PLC based online temperature monitoring system To provide Graphical Temperature, Pressure & Six Six 50.00			Operation and Maintenance	I (A)
Device(s) to achieve prescribed Stack emissions (e.g. Particulate Matter, HCL, NOx, VOC) I (B) Records 1 To Maintain records of BMW and submission of Annual Report in Form –II before 31st January 2 To maintain records of BMW material delivered to CBMWTSDF (Transporters only) II Performance 1 To provide Separate BMW storage facility 2 To provide Automatic BMW feeding system 3 To provide PLC based online temperature monitoring system 4 To provide Graphical Temperature, Pressure & Six Six Source Six Source Six Six Source	1,00,000	Continuous	Secondary chamber of Incinerator	
To Maintain records of BMW and submission of Annual Report in Form –II before 31st January To maintain records of BMW material delivered to CBMWTSDF (Transporters only) Continuous Continuous Continuous 25,00 Continuous 25,00 Continuous 75,00 To provide Separate BMW storage facility To provide Automatic BMW feeding system To provide PLC based online temperature monitoring system To provide Graphical Temperature, Pressure	1,00,000	Continuous	Device(s) to achieve prescribed Stack emissions (e.g. Particulate Matter, HCL, NOx,	
of Annual Report in Form –II before 31st January 2 To maintain records of BMW material delivered to CBMWTSDF (Transporters only) II Performance 1 To provide Separate BMW storage facility 2 To provide Automatic BMW feeding system 3 To provide PLC based online temperature monitoring system 4 To provide Graphical Temperature, Pressure & Six			Records	I (B)
to CBMWTSDF (Transporters only) Performance	25,000	Continuous "1,	of Annual Report in Form –II before 31 st January	1
1 To provide Separate BMW storage facility 2 To provide Automatic BMW feeding system 3 To provide PLC based online temperature monitoring system 4 To provide Graphical Temperature, Pressure & Six	25,000	Continuous	To maintain records of BMW material delivered to CBMWTSDF (Transporters only)	2
To provide Separate BMW storage facility To provide Automatic BMW feeding system To provide PLC based online temperature monitoring system To provide Graphical Temperature, Pressure & Six			Performance	II
To provide Automatic BMW feeding system To provide PLC based online temperature monitoring system To provide Graphical Temperature, Pressure & Six	75,000		To provide Separate BMW storage facility	
To provide PLC based online temperature monitoring system To provide Graphical Temperature, Pressure & Six 50.00	75,000	Six.	To provide Automatic BMW feeding system	
To provide Graphical Temperature, Pressure & Six 50,00	1,00,000	, Six	monitoring system	
Third recording system (if the	50,000	Six	To provide Graphical Temperature, Pressure & Time recording system	4
Rupees Five Lakh Fifty thousand only to the state of the	5,50,000/-	Total,		

Sd/-

(Rajeev Kumar Mital) Member Secretary

and

Prescribed Authority

N

(Dr. A.R.Supate)

Principal Scientific Officer