



TAMILNADU POLLUTION CONTROL BOARD



FORM III (See Rule 10)

AUTHORISATION No: 24BAZ39629438 Dated 27/06/2024

Proceeding No: JCEE-M/CBZ/TNPCB/F.0698CBS/BWA/RS/CBS/2024 dated 27/06/2024

Sub: Tamil Nadu Pollution Control Board – Bio-Medical Waste Authorization - Renewal-
CBMWTF- M/s.TEKNOTHERM INDUSTRIES, S.F.No.183/1, OORATTUKUPPAI
village, MADUKKARAI Taluk, Coimbatore District - Authorization under Rule 10 of the
Bio-Medical Waste Management Rules, 2016 enacted under Environment (Protection) Act,
1986 – Issued- Reg.

Ref: 1. BMWA Proceeding No: JCEE-M/CBZ/TNPCB/F.0698CBS/BWA/RS/ CBS/2021 dated
21/06/2021
2. Unit's application No. 39629438 through OCMMS for renewal of BMW Authorisation
dated 31.03.2023 and 27.04.2024
3. BMW-IR.No: F.0698CBS/BWA/RS/DEE/CBS/2023 dated 07/06/2024

AUTHORISATION FOR OPERATING A FACILITY FOR GENERATION, COLLECTION, RECEPTION, TREATMENT, STORAGE, TRANSPORT AND DISPOSAL OF BIO-MEDICAL WASTES

1. File number of authorization: 24BAZ39629438 and date of issue: 27/06/2024
2. The Partner of M/s. TEKNOTHERM INDUSTRIES, an occupier or operator of the facility located at S.F.No.183/1, OORATTUKUPPAI Village, MADUKKARAI Taluk, Coimbatore District is hereby granted an Authorisation for Collection, Reception, Transportation, Treatment or Processing or Conversion, Recycling, Disposal or destruction use, Offering for sale, Transfer of Bio-Medical Waste
3. M/s. TEKNOTHERM INDUSTRIES is hereby authorized for handling of Bio-Medical waste as per the capacity given below.

i)	Number of HCFs covered by the CBMWTF	950	Nos
i-)	Installed treatment and disposal capacity of CBMWTF	17000	Kg/day
iii)	Jurisdictional area and distance covered by the CBMWTF	COIMBATORE, TIRUPPUR 75KMS RADIUS	



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iv)	Quantity of Bio-Medical Waste handled, treated or disposed			
	Category	Type of Waste	Quantity permitted for handling	Unit
	Yellow	a) Human Anatomical Waste	2890	Kg/day
		b) Animal Anatomical Waste	20	Kg/day
		c) Soiled Waste	800	Kg/day
		d) Expired or Discarded Medicines	300	Kg/day
		e) Chemical Solid Waste	0	Kg/day
		f) Chemical Liquid Waste in KLD	3	KLD
		g) Discarded linen, mattresses, beddings contaminated with blood or body fluid routine mask and gown	1600	Kg/day
		h) Microbiology, Biotechnology and other clinical laboratory waste	250	Kg/day
	Red	Contaminated waste (Recyclable)	7975	Kg/day
	White(Translucent)	Waste sharps including Metals	140	Kg/day
	Blue	Glassware	3000	Kg/day
		Glassware Metallic Body Implants	25	Kg/day

4. The authorization shall be in force for a period up to 31/03/2028
5. The authorization is issued subject to 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.

KUMARESAN SENTHIL Digitally signed by KUMARESAN SENTHIL VINAYAGAM
VINAYAGAM Date: 2024.07.01 11:39:55 +05'30'

Joint Chief Environmental Engineer-Monitoring
Tamil Nadu Pollution Control Board
Coimbatore

TERMS AND CONDITIONS OF AUTHORIZATION

1. The authorization shall comply with the provisions of the Environment (Protection) Act, 1986 and the rules made there under.
2. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the Tamil Nadu State Pollution Control Board.
3. The person authorized shall not rent, lend, sell, transfer or otherwise transport the Bio-Medical wastes without obtaining prior permission of Tamil Nadu State Pollution Control Board.
4. Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of this authorization.



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5. It is the duty of the authorized person to take prior permission of the Tamil Nadu Pollution Control Board to close down the facility and such other terms and conditions may be stipulated by Tamil Nadu Pollution Control Board.
6. Any other conditions for compliance as per the Guidelines issued by the MoEF&CC or CPCB from time to time.

ADDITIONAL CONDITIONS

1. The Common Bio-medical Waste Treatment and Disposal Facility (CBMWTF) shall comply with the provisions of the Bio Medical Waste Management Rules, 2016.
2. The unit shall comply with the Directions issued by the Board vide Proc. Dated: 14.09.2022.
3. The CBMWTF shall take all necessary steps to ensure that the bio-medical waste collected from the HCFs is transported, handled, stored, treated and disposed of, without any adverse effect to the human health and the environment, in accordance with these rules and guidelines issued by the Central Government from time to time.
4. The collected waste shall be weighed before being treated in the common facility.
5. The CBMWTF shall apply for fresh authorization when there is an increase in the BMW quantity generation of more than 17,000 Kg/day.
6. The CBMWTF shall collect only segregated biomedical wastes from hospitals Nursing homes and other facilities generating biomedical wastes.
7. The CBMWTF shall ensure timely collection of bio-medical waste from the HCFs as prescribed under these rules and also ensure collection of biomedical waste on holidays.
8. The CBMWTF shall establish bar coding system for all the hospitals for the collection and transportation of Bio-medical waste.
9. The CBMWTF shall transport the bio-medical waste from the premises of HCFs to any off-site bio-medical waste treatment facility only in the containers or bags label as per part 'A' of the Schedule IV along with necessary information as specified in part 'B' of the Schedule IV.
10. The vehicles used for transportation of bio-medical waste shall comply with the conditions if any stipulated by the State Pollution Control Board in addition to the requirement contained in the Motor Vehicles Act, 1988 (59 of 1988), if any or the rules made there under for transportation of such infectious waste
11. Bio-medical waste shall be treated and disposed of in accordance with Schedule I, and in compliance with the standards provided in Schedule-II by the common bio-medical waste treatment and disposal facility.
12. The CBMWTF shall maintain a log book for each of its treatment equipment according to weight of batch; categories of waste treated; time, date and duration of treatment cycle and total hours of operation.
13. After ensuring treatment by autoclave or microwaving followed by mutilation or shredding, whichever is applicable, the recyclables from the treated bio-medical waste such as plastics and glass shall be given to such recyclers having valid authorisation or registration from the respective prescribed authority.
14. The CBMWTF shall maintain all record for operation of incineration, autoclave, shredding etc., for a period of five years and made available for inspecting officer at all time.
15. The CBMWTF shall operate and maintain the air pollution control measures such as dust collectors, mist eliminator and venturi type scrubbing system with stack attached to the incinerator continuously and effectively so as to achieve the norms prescribed by the Board.
16. The facility shall maintain the records with respect to CO, O₂ and CO₂ level in the stack exit gases monitored by using standard gas analyzer regularly as per CPCB guidelines.



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17. The CBMWTF shall ensure that the noise generated from the facility satisfies the Ambient Noise Level standards prescribed by the Board in the Consent order to be issued by the Board.
18. The CBMWTF has to maintain proper manifest for transport, collection and storage.
19. The CBMWTF shall have fully equipped laboratory facility to monitor the air and water quality in addition the spore test has to be carried out in a reputed laboratory.
20. The CBMWTF shall continue to develop green belt at the rate of 500 trees every year outside the premises including road margins and other places identified by the local Panchayat.
21. The CBMWTF shall maintain good housekeeping at all time.
22. The CBMWTF shall ensure that no odour nuisance is created during transportation of wastes treatment of wastes and disposal of biomedical waste.
23. Hazardous wastes such as Incineration Ash & ETP sludge shall be collected, stored properly and dispose the same regularly to the TSDF without accumulation within the premises as per the authorization granted under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
24. The CBMWTF shall provide training for all its workers involved in handling of bio-medical waste at the time of induction and at least once a year thereafter.
25. The CBMWTF shall ensure occupational safety of all its workers involved in handling of biomedical waste by providing appropriate and adequate personal protective equipment.
26. The CBMWTF shall report major accidents occurred during handling of biomedical waste and the remedial action taken and the records relevant thereto to the prescribed authority and also along with the annual report.
27. The CBMWTF shall display details of authorization, treatment of bio medical waste, annual report etc., on its web-site.
28. The operator of CBMWTF shall submit an annual report to the prescribed authority in Form-IV, on or before the 30th June of every year.
29. The CBMWTF shall be liable for all the damages caused to the environment or the public due to improper handling of bio- medical waste and shall be liable for action under section 5 and section 15 of the EP Act, in case of any violation.
30. In addition to the above the CBMWTF shall also comply with the guidelines for Design and construction of biomedical waste incinerator and for Common biomedical waste treatment facility issued by the Central Pollution Control Board from time to time.
31. Any other conditions for compliance as per the Guidelines issued by the MoEF&CC or CPCB from time to time.

SPECIAL CONDITIONS - CBMWTF	
1	All the provisions of the Biomedical Waste Management Rules, 2016 must be complied with.
2	The CBMWTF shall take all necessary steps to ensure that the bio-medical wastes collected from the HCF occupiers are transported, handled, stored, treated and disposed of without any adverse effect to the human health and the environment, in accordance with the BMW Management Rules, 2016 and guidelines issued by the Central Government or as the case may be, the Central Pollution Control Board from time to time.



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3	The CBMWTF shall ensure timely collection of bio-medical waste from the HCF - occupiers as prescribed under the BMW Management Rules, 2016.
4	The CBMWTF shall ensure the collection of biomedical waste on holidays also.
5	The CBMWTF shall inform to TNPCB immediately regarding the occupiers which are not handing over the segregated bio-medical waste in accordance with the BMW Management Rules, 2016.
6	The CBMWTF shall supply non-chlorinated plastic coloured bags to the HCF - occupiers on chargeable basis (if required) for proper collection & storage of bio-medical wastes at source.
7	All plastic bags shall be as per BIS standards as and when published, till then the prevailing Plastic Waste Management Rules shall be applicable.
8	The CBMWTF shall establish bar coding and global positioning system for handling of bio-medical waste within one year.
9	The operator of common bio-medical waste treatment facility shall transport the bio-medical waste from the premises of an occupier to any off-site bio-medical waste treatment facility only in the vehicles having label as provided in part 'A' of the Schedule IV along with necessary information as specified in part 'B' of the Schedule IV of BMW Management Rules, 2016.
10	The vehicles used for transportation of bio-medical waste shall comply with the conditions if any stipulated by the State Pollution Control Board or Pollution Control Committee in addition to the requirement contained in the Motor Vehicles Act, 1988 (59 of 1988), if any or the rules made there under for transportation of such infectious waste.
11	Bio-medical wastes shall be treated and disposed of in accordance with Schedule I and in compliance with the standards provided in Schedule-II of the BMW Management Rules, 2016 by the health care facilities (HCFs) and common bio-medical waste treatment facility (CBMWTF).
12	The CBMWTF after ensuring treatment by autoclaving or microwaving followed by mutilation or shredding, whichever is applicable, the recyclables from the treated bio-medical wastes such as plastics and glass, shall be given to recyclers having valid consent or authorisation or registration from TNPCB.
13	The Operator of a common bio-medical waste treatment facility shall maintain a record of recyclable wastes referred to in sub-rule (9) which are auctioned or sold and the same shall be submitted to TNPCB as part of its annual report. The record shall be open for inspection by TNPCB.
14	The CBMWTF shall maintain all record for operation of incineration, hydro or autoclaving for a period of five years. The CBMWTF shall upgrade existing incinerators to achieve the standards for retention time in secondary chamber and Dioxin and Furans within two years from the date of the Notification of BMW Management Rules, 2016.
15	The CBMWTF shall maintain a log book for each of its treatment equipment according to weight of batch; categories of waste treated; time, date and duration of treatment cycle and total hours of operation.
16	The CBMWTF shall submit an Annual Report to TNPCB in Form-IV, on or before the 30th June of every year for the period from January to December of the preceding year.
17	The CBMWTF shall make available the annual report on its web-site within a period of two years from the date of publication of Bio-Medical Waste Management (Amendment) Rules, 2018
18	The CBMWTF shall display details of authorisation, treatment, annual report etc on its web-site.
19	The CBMWTF shall allow occupier, who are giving waste for treatment to the operator to see whether the treatment is carried out as per the BMW Management Rules, 2016.
20	In case of any major accident at any institution or facility or any other site while handling bio-medical waste, the authorised person shall intimate immediately to TNPCB about such accident and forward a report within twenty-four hours in writing regarding the remedial steps taken in Form I.



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21	Information regarding all other accidents and remedial steps taken shall be provided in the annual report in accordance with Rule 13 by the occupier.																																
22	In case of any change in the bio-medical waste generation, handling, treatment and disposal for which authorization was earlier granted, the occupier or operator of HCF shall intimate to TNPCB about the change or variation in the activity and shall submit a fresh application in Form II for modification of the conditions of Authorization.																																
23	<p>The CBMWTF shall adopt the following treatment and disposal methods as described in the BMW Management Rules, 2016</p> <p>i. Chemical treatment using at least 1% to 2% Sodium Hypochlorite having 30% residual chlorine for twenty minutes or any other equivalent chemical reagent that should demonstrate Log104 reduction efficiency for microorganisms as given in Schedule- III.</p> <p>ii. Mutilation or shredding must be to an extent to prevent unauthorized reuse.</p> <p>iii. There will be no chemical pretreatment before incineration, except for microbiological, lab and highly infectious waste.</p> <p>iv. Incineration ash (ash from incineration of any bio-medical waste) shall be disposed through hazardous waste treatment, storage and disposal facility, if toxic or hazardous constituents are present beyond the prescribed limits as given in the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016 or as revised from time to time.</p>																																
24	<p>The CBMWTF shall comply with the following standards for treatment and disposal of Bio-Medical wastes as prescribed in Schedule-II of BMW Management Rules, 2016.</p> <p>I. STANDARDS FOR INCINERATION</p> <p>All incinerators shall meet the following operating and emission standards.</p> <p>A. Operating Standards</p> <p>i). Combustion efficiency (CE) shall be at least 99.00%.</p> <p>ii). The Combustion efficiency is computed as follows:</p> $C.E. = \frac{\%CO_2}{\%CO_2 + \%CO} \times 100$ <p>iii) The temperature of the primary chamber shall be a minimum of 800⁰C and the secondary chamber shall be minimum of 1050⁰C + or - 50⁰C.</p> <p>iv). The secondary chamber gas residence time shall be at least two seconds.</p> <p>B. Emission Standards</p> <table><tr><th>SI NO</th><th>Parameter</th><th colspan="2">Standards</th></tr><tr><th>(1)</th><th>(2)</th><th>(3)</th><th>(4)</th></tr><tr><td></td><td></td><td>Limiting concentration in mg/Nm³ unless stated</td><td>Sampling Duration in minutes, unless stated</td></tr><tr><td>1.</td><td>Particulate matter</td><td>50</td><td>30 or 1NM³ of sample volume, whichever is more</td></tr><tr><td>2.</td><td>Nitrogen Oxides NO and NO₂ expressed as NO₂</td><td>400</td><td>30 for online sampling or grab sample</td></tr><tr><td>3.</td><td>HCl</td><td>50</td><td>30 or 1NM³ of sample volume, whichever is more</td></tr><tr><td>4.</td><td>Total Dioxins and Furans</td><td>0.1ngTEQ/Nm³ (at 11% O2)</td><td>8 hours or 5NM³ of sample volume, whichever is more</td></tr><tr><td>5.</td><td>Hg and its compounds</td><td>0.05</td><td>2 hours or 1NM³ of sample volume, whichever is more</td></tr></table>	SI NO	Parameter	Standards		(1)	(2)	(3)	(4)			Limiting concentration in mg/Nm ³ unless stated	Sampling Duration in minutes, unless stated	1.	Particulate matter	50	30 or 1NM ³ of sample volume, whichever is more	2.	Nitrogen Oxides NO and NO ₂ expressed as NO ₂	400	30 for online sampling or grab sample	3.	HCl	50	30 or 1NM ³ of sample volume, whichever is more	4.	Total Dioxins and Furans	0.1ngTEQ/Nm ³ (at 11% O2)	8 hours or 5NM ³ of sample volume, whichever is more	5.	Hg and its compounds	0.05	2 hours or 1NM ³ of sample volume, whichever is more
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C. Stack Height: Minimum stack height shall be 30 meters above the ground and shall be attached with the necessary monitoring facilities as per requirement of monitoring of 'general parameters' as notified under the Environment (Protection) Act, 1986 and in accordance with the Central Pollution Control Board Guidelines of Emission Regulation Part-III.

Note:

- a) The existing incinerators shall comply with the above within a period of two years from the date of the notification.
- b) The existing incinerators shall comply with the standards for Dioxins and Furans of 0.1 ng TEQ/Nm^3 as given below within two years from the date of commencement of these rules.
- c) All upcoming common bio-medical waste treatment facilities having incineration facility or captive incinerator shall comply with standards for Dioxins and Furans.
- d) The existing secondary combustion chambers of the incinerator and the pollution control devices shall be suitably retrofitted, if necessary, to achieve the emission limits.
- e) Wastes to be incinerated shall not be chemically treated with any chlorinated disinfectants.
- f) Ash from incineration of biomedical waste shall be disposed of at common hazardous waste treatment and disposal facility. However, it may be disposed of in municipal landfill, if the toxic metals in incineration ash are within the regulatory quantities as defined under the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016 or as amended from time to time.
- g) Only low Sulphur fuel like Light Diesel Oil or Low Sulphur Heavy Stock or Diesel, Compressed Natural Gas, Liquefied Natural Gas or Liquefied Petroleum Gas shall be used as fuel in the incinerator.
- h) The occupier or operator of a common bio-medical waste treatment facility shall monitor the stack gaseous emissions (under optimum capacity of the incinerator) once in three months through a laboratory approved under the Environment (Protection) Act, 1986 and record of such analysis results shall be maintained and submitted to TNPCB. In case of dioxins and furans, monitoring should be done once in a year.
- i) The occupier or operator of the common bio-medical waste treatment facility shall install continuous emission monitoring system for the parameters as stipulated by TNPCB in authorisation and transmit the data real time to the servers at TNPCB.
- j) All monitored values shall be corrected to 11% Oxygen on dry basis.
- k) Incinerators (combustion chambers) shall be operated with such temperature, retention time and turbulence, as to achieve Total Organic Carbon content in the slag and bottom ashes less than 3% or their loss on ignition shall be less than 5% of the dry weight.
- l) The occupier or operator of a common bio-medical waste incinerator shall use combustion gas analyzer to measure CO_2 , CO and O_2



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25	<p>STANDARDS FOR AUTOCLAVING OF BIO-MEDICAL WASTE: The autoclave should be dedicated for the purposes of disinfecting and treating bio-medical waste.</p> <p>1) When operating a gravity flow autoclave, medical waste shall be subjected to :</p> <ul style="list-style-type: none">i) a temperature of not less than 121° C and pressure of 15 pounds per square inch (psi) for an autoclave residence time of not less than 60 minutes; orii) 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; oriii) 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. <p>2) When operating a vacuum autoclave, medical waste shall be subjected to a minimum of three pre-vacuum pulse to purge the autoclave of all air. The air removed during the pre-vacuum, cycle should be decontaminated by means of HEPA and activated carbon filtration, steam treatment, or any other method to prevent release of pathogen. The waste shall be subjected to the following:</p> <ul style="list-style-type: none">i) a temperature of not less than 121°C and pressure of 15 psi per an autoclave residence time of not less than 45 minutes; orii) 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. <p>3) 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.</p>														
26	<p>STANDARDS FOR DEEP BURIAL.-</p> <p>(a) A pit or trench should be dug about two 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.</p> <p>b) It must be ensured that animals do not have any access to burial sites. Covers of galvanised iron or wire meshes may be used.</p> <p>c) On each occasion, when wastes are added to the pit, a layer of 10 cm of soil shall be added to cover the wastes.</p> <p>d) Burial must be performed under close and dedicated supervision.</p> <p>e) The deep burial site should be relatively impermeable and no shallow well should be close to the site.</p> <p>f) The pits should be distant from habitation, and located so as to ensure that no contamination occurs to surface water or ground water. The area should not be prone to flooding or erosion.</p> <p>g) The location of the deep burial site shall be authorised by the prescribed authority.</p> <p>h) The institution shall maintain a record of all pits used for deep burial.</p> <p>i) The ground water table level should be a minimum of six meters below the lower level of deep burial pit.</p>														
27	<p>STANDARDS FOR LIQUID WASTE</p> <p>1. The effluent generated or treated from the premises of occupier or operator of a common bio medical waste treatment and disposal facility, before discharge into the sewer should conform to the following limits</p> <table><tr><th>PARAMETERS</th><th>PERMISSIBLE LIMITS</th></tr><tr><td>pH</td><td>6.5-9.0</td></tr><tr><td>Suspended solids</td><td>100 mg/l</td></tr><tr><td>Oil and grease</td><td>10 mg/l</td></tr><tr><td>BOD</td><td>30 mg/l</td></tr><tr><td>COD</td><td>250 mg/l</td></tr><tr><td>Bio-assay test</td><td>90% survival of fish after 96 hours in 100% effluent</td></tr></table> <p>2. Sludge from Effluent Treatment Plant shall be given to common bio-medical waste treatment facility for incineration or to hazardous waste treatment, storage and disposal facility for disposal.</p>	PARAMETERS	PERMISSIBLE LIMITS	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
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28	The CBMWTF shall provide training for all its workers involved in handling of bio-medical waste at the time of induction and at least once a year thereafter.
29	The CBMWTF shall ensure occupational safety of all its health care workers and others involved in handling of bio-medical waste by providing appropriate and adequate personal protective equipments.
30	The operator of a common bio-medical waste treatment facility shall be liable for all the damages caused to the environment or the public due to improper handling of bio- medical wastes. The occupier or operator of common bio-medical waste treatment facility shall be liable for action under section 5 and section 15 of the Act, in case of any violation.

KUMARESAN SENTHIL Digitally signed by KUMARESAN
VINAYAGAM SENTHIL VINAYAGAM

Date: 2024.07.01 11:40:16 +05'30'

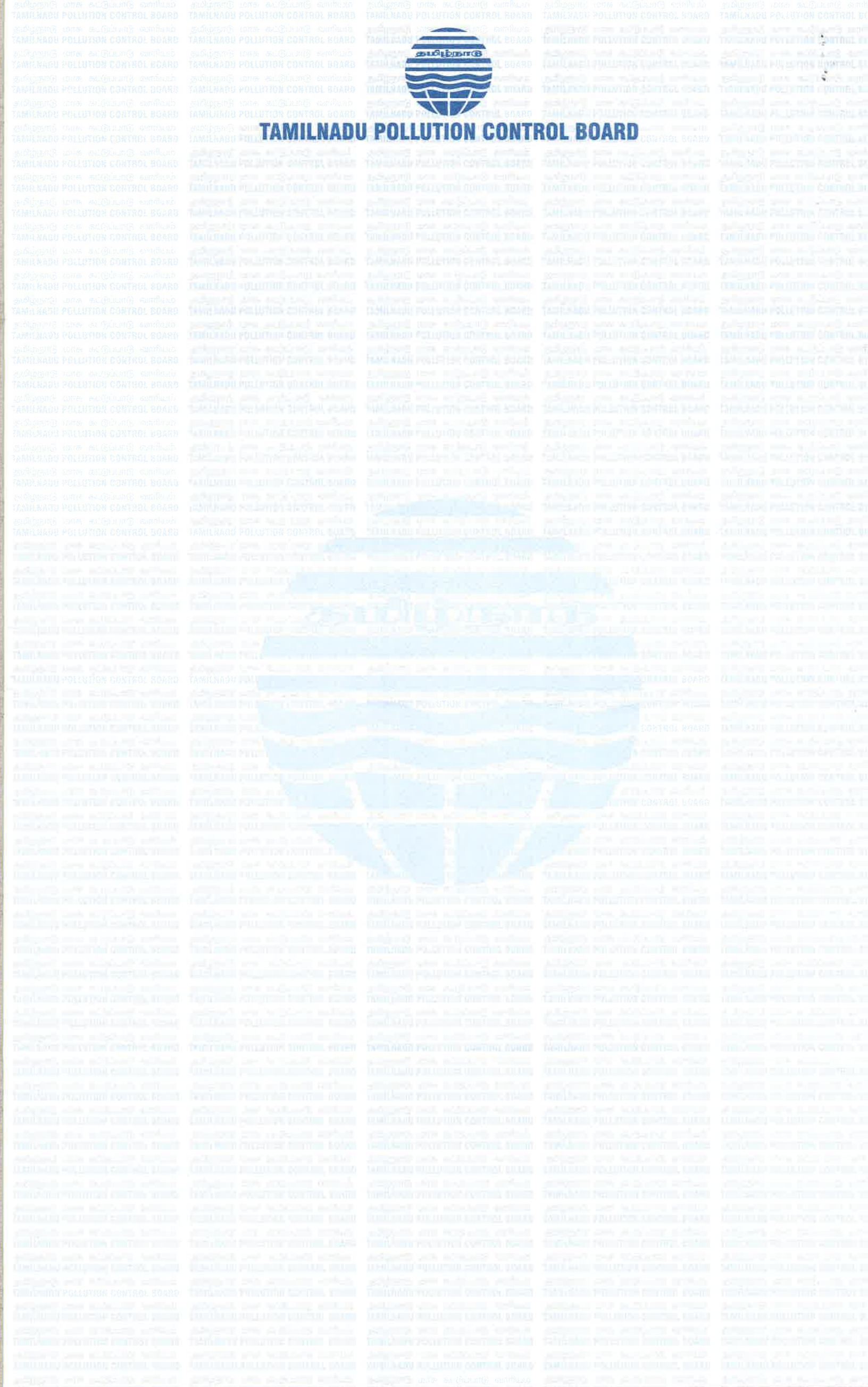
**Joint Chief Environmental Engineer-Monitoring
Tamil Nadu Pollution Control Board
Coimbatore**

To

The Partner
TEKNOTHERM INDUSTRIES
5-7/1,2nd floor, North Huzur Road
Near Codissia Tower Building,
Coimbatore
Pin: 641018

Copy to:

1. Copy submitted to the Member Secretary, Tamil Nadu Pollution Control Board, Chennai for favour of kind information
2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, COIMBATORE SOUTH





TAMILNADU POLLUTION CONTROL BOARD



Category of the Industry :



RED

CONSENT ORDER NO. 2308251217080 DATED: 29/06/2023.

PROCEEDINGS NO.F.0698CBS/RS/DEE/TNPCB/CBS/A/2023 DATED: 29/06/2023

SUB: Tamil Nadu Pollution Control Board - RENEWAL OF CONSENT -M/s. TEKNOTHERM INDUSTRIES , S.F.No. 183/1, OORATTUKUPPAI village, Madukkarai Taluk and Coimbatore District - Renewal of Consent for the operation of the plant and discharge of emissions under Section 21 of the Air (Prevention and Control of Pollution) Act, 1981 as amended in 1987 (Central Act 14 of 1981) -Issued- Reg.

REF: 1.CTO PROCEEDINGS NO.F.0698CBS/RS/DEE/TNPCB/CBS/W&A/2020 DATED: 23/12/2020
2.CBMWTF application No. 51217080 through OCMMS resubmitted dated:19.06.2023
3.IR.No : F.0698CBS/RS/AE/CBS/2023 dated 28/06/2023

RENEWAL OF CONSENT is hereby granted under Section 21 of the Air (Prevention and Control of Pollution) Act, 1981 as amended in 1987 (Central Act 14 of 1981) (hereinafter referred to as "The Act") and the rules and orders made there under to

The Partner
M/s . TEKNOTHERM INDUSTRIES
S.F No. 183/1
OORATTUKUPPAI Village
Madukkarai Taluk
Coimbatore District.

Authorizing the occupier to operate the industrial plant in the Air Pollution Control Area as notified by the Government and to make discharge of emission from the stacks/chimneys.

This is subject to the provisions of the Act, the rules and the orders made there under and the terms and conditions incorporated under the Special and General conditions stipulated in the Consent Order issued earlier and subject to the special conditions annexed.

This RENEWAL OF CONSENT is valid for the period ending **March 31, 2028**

R CHANDRASEKARAN Digitally signed by R CHANDRASEKARAN
Date: 2023.07.02 08:02:37 +05'30'
District Environmental Engineer,
Tamil Nadu Pollution Control Board,
COIMBATORE SOUTH



TAMILNADU POLLUTION CONTROL BOARD

SPECIAL CONDITIONS

1. This renewal of consent is valid for operating the facility for the manufacture of products (Col. 2) at the rate (Col. 3) mentioned below. Any change in the products and its quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Sl. No.	Description	Quantity	Unit
Product Details			
1.	Common Bio Medical Waste Treatment and Disposal Facility Incineration - Installed Capacity of the Incinerator-250 Kg/hr- 1 No	250	Kg/Hr
2.	Common Bio Medical Waste Treatment and Disposal Facility Autoclaving - Installed Capacity of the Autoclave 1000 Lts/Cycle -1 No	1000	Lts/Cycle

2. This renewal of consent is valid for operating the facility with the below mentioned emission/noise sources along with the control measures and/or stack. Any change in the emission source/control measures/change in stack height has to be brought to the notice of the Board and fresh consent/Amendment has to be obtained.

I Point source emission with stack :				
Stack No.	Point Emission Source	Air pollution Control measures	Stack height from Ground Level in m	Gaseous Discharge in Nm ³ /hr
01	Incinerator (Double Chamber) - 250 kg/Hr	Cyclone Separator, Venturi Scrubber, Wet Scrubber and Droplet Separator with Stack	30.0	3600
02	DG Set 82.5 KVA	Acoustic enclosures with stack	2.5	12
03	Thermax Boiler	Stack	12.0	12
II Fugitive/Noise emission :				
Sl. No.	Fugitive or Noise Emission sources	Type of emission	Control measures	
1.	DG Set 82.5 KVA	Noise	Acoustic Enclosure with Stack	

Special Additional Conditions:

The unit shall obtain No Objection Certificate (NOC) from the Tamil Nadu Bio Diversity Board /National Bio Diversity Authority if the unit is using any Biological resources or knowledge associated thereto as per the provisions of Biological Diversity Act 2002.

The industries shall take all efforts to use and popularize "Mission LiFE" logo and mascot which is available in TNPCB & MoEFCC website. They shall also request their employees to adopt "Mission LiFE" action points and document the same and furnish half yearly report to Board.

Additional Conditions:



TAMILNADU POLLUTION CONTROL BOARD

1. The CBMWTF shall not install additional treatment equipments and shall not go for any expansion more than the existing installed capacity without obtaining EC under EIA Notification amendment dated 17.04.2015.
2. The CBMWTF shall operate and maintain the Air Pollution Control measures for the incinerators and Diesel Generators efficiently and continuously so as to bring the quality of emission to satisfy the AAQ/Emission Standards prescribed by the Board.
3. The CBMWTF shall operate and maintain the Online monitoring provision for continuous monitoring of the incinerator stack emissions especially for flue gas parameters such as CO₂, O₂, CO, NO_x, PM and HCL as stipulated under CPCB guidelines and shall properly calibrate and ensure connectivity to TNPCB Care Air Centre and CPCB server at all times.
4. The CBMWTF shall connect the temperature sensors provided in the incinerator 200Kg/hr to the Care Air Centre, TNPCB Corporate office within a week's time.
5. The CBMWTF shall maintain the records of collection, reception, storage, transportation, treatment and disposal and or any form of handling bio medical waste in accordance with the rules and records shall be subject to inspection and verification by the Board at any time.
6. The CBMWTF shall dispose the shredded plastics only through the authorized recycling facility having valid consent orders under Air & water Acts.
7. The CBMWTF shall operate and maintain the automatic computer recording arrangements in autoclave to monitor the pressure and temperature.
8. The CBMWTF shall ensure that the Bio medical waste generated from healthcare facility shall be removed everyday and ensure that in no case the waste shall be kept in the health care facility beyond 48 Hours.
9. The CBMWTF shall carry out third party evaluation done by reputed institutions and furnish the report once in every year.
10. The CBMWTF shall operate and maintain the surveillance cameras (CCTV) in the vulnerable location of the facilities (Waste storage, waste feeding, PLC attached with the treatment equipment (incinerator and autoclave).
11. The CBMWTF shall maintain good housekeeping with no odour nuisance.
12. The CBMWTF shall continue to develop green belt within the premises of the unit.
13. The CBMWTF shall not use "Use and throwaway plastics" such as plastic sheets used for food wrapping, spreading on dining table etc., plastic plates, plastic coated tea cups, plastic tumbler, water pouches and packets, plastic straw, plastic carry bag and plastic flags irrespective of thickness, within the industry premises. Instead unit shall encourage use of eco friendly alternative such as banana leaf, arecanut palm plate, stainless steel, glass, porcelain plates/cups, cloth bag, jute bag etc.
14. The CBMWTF shall comply with the emission standards prescribed for incinerator in the Schedule II of the Biomedical Waste management Rules, 2016.
15. The CBMWTF shall apply for fresh authorisation of the Board for handling increase in the generation of Biomedical waste and Hazardous waste.

R CHANDRASEKARAN Digitally signed by R CHANDRASEKARAN
Date: 2023.07.03 15:09:47 +05'30'

**District Environmental Engineer,
Tamil Nadu Pollution Control Board,
COIMBATORE SOUTH**

To
The Partner,
M/s. TEKNOTHERM INDUSTRIES,
5-7/1, 2nd floor, North Huzur Road
Near Codissia Tower Building,
Coimbatore
Pin: 641018

Copy to:

1. The Executive Officer, CHETTIPALAYAM-Town Panchayat, Madukkarai Taluk, Coimbatore District.
2. Copy submitted to the Member Secretary, Tamil Nadu Pollution Control Board, Chennai for favour of kind information.



TAMILNADU POLLUTION CONTROL BOARD

3. The District Environmental Engineer, Tamil Nadu Pollution Control Board, COIMBATORE SOUTH for favour of kind information.

4. File



TAMILNADU POLLUTION CONTROL BOARD



Category of the Industry :

RED



CONSENT ORDER NO. 2308151217080

DATED: 29/06/2023.

PROCEEDINGS NO.F.0698CBS/RS/DEE/TNPCB/CBS/W/2023 DATED: 29/06/2023

SUB: Tamil Nadu Pollution Control Board - RENEWAL OF CONSENT – M/s. TEKNOTHERM INDUSTRIES, S.F.No. 183/1, OORATTUKUPPAI village, Madukkarai Taluk and Coimbatore District - Renewal of Consent for the operation of the plant and discharge of sewage and/or trade effluent under Section 25 of the Water (Prevention and Control of Pollution) Act, 1974 as amended in 1988 (Central Act 6 of 1974) – Issued- Reg.

REF: 1.CTO PROCEEDINGS NO.F.0698CBS/RS/DEE/TNPCB/CBS/W&A/2020 DATED: 23/12/2020
2.CBMWTF application No. 51217080 through OCMMS resubmitted dated:19.06.2023
3.IR.No : F.0698CBS/RS/AE/CBS/2023 dated 28/06/2023

RENEWAL OF CONSENT is hereby granted under Section 25 of the Water (Prevention and Control of Pollution) Act, 1974 as amended in 1988 (Central Act, 6 of 1974) (hereinafter referred to as "The Act") and the rules and orders made there under to

The Partner
M/s . TEKNOTHERM INDUSTRIES
S.F No. 183/1
OORATTUKUPPAI Village
Madukkarai Taluk
Coimbatore District.

Authorising the occupier to make discharge of sewage and /or trade effluent.

This is subject to the provisions of the Act, the rules and the orders made there under and the terms and conditions incorporated under the Special and General conditions stipulated in the Consent Order issued earlier and subject to the special conditions annexed.

This RENEWAL OF CONSENT is valid for the period ending **March 31, 2028**

R CHANDRASEKARAN Digitally signed by R CHANDRASEKARAN
Date: 2023.07.03 15:11:23 +05'30'
**District Environmental Engineer,
Tamil Nadu Pollution Control Board,
COIMBATORE SOUTH**



TAMILNADU POLLUTION CONTROL BOARD
SPECIAL CONDITIONS

1. This renewal of consent is valid for operating the facility for the manufacture of products/byproducts (Col. 2) at the rate (Col 3) mentioned below. Any change in the product/byproduct and its quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Sl. No.	Description	Quantity	Unit
Product Details			
1.	Common Bio Medical Waste Treatment and Disposal Facility Incineration - Installed Capacity of the Incinerator-250 Kg/hr- 1 No	250	Kg/Hr
2.	Common Bio Medical Waste Treatment and Disposal Facility Autoclaving - Installed Capacity of the Autoclave 1000 Lts/Cycle -1 No	1000	Lts/Cycle

2. This renewal of consent is valid for operating the facility with the below mentioned outlets for the discharge of sewage/trade effluent. Any change in the outlets and the quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Outlet No.	Description of Outlet	Maximum daily discharge in KLD	Point of disposal
Effluent Type : Sewage			
1.	Sewage	0.5	On Industrys own land
Effluent Type : Trade Effluent			
1.	Trade Effluent	3.0	On land for gardening

Special Additional Conditions:

The unit shall obtain No Objection Certificate (NOC) from the Tamil Nadu Bio Diversity Board /National Bio Diversity Authority if the unit is using any Biological resources or knowledge associated thereto as per the provisions of Biological Diversity Act 2002.

The industries shall take all efforts to use and popularize "Mission LiFE" logo and mascot which is available in TNPCB & MoEFCC website. They shall also request their employees to adopt "Mission LiFE" action points and document the same and furnish half yearly report to Board.

Additional Conditions:



TAMILNADU POLLUTION CONTROL BOARD

1. The CBMWTF shall not install additional treatment equipments and shall not go for any expansion more than the existing installed capacity without obtaining EC under EIA Notification amendment dated 17.04.2015.
2. The CBMWTF shall operate and maintain the Effluent Treatment Plant to treat the trade effluent generated from the unit so as to achieve the standards prescribed by the Board.
3. The CBMWTF shall treat and dispose the sewage generated from the premises through Septic tank and soak pit arrangements.
4. The CBMWTF shall maintain the records of collection, reception, storage, transportation, treatment and disposal and or any form of handling bio medical waste in accordance with the rules and records shall be subject to inspection and verification by the Board at any time.
5. The CBMWTF shall dispose the shredded plastics only through the authorized recycling facility having valid consent orders under the Water and Air Acts.
6. The CBMWTF shall operate and maintain the automatic computer recording arrangements in autoclave to monitor the pressure and temperature.
7. The CBMWTF shall ensure that the Bio medical waste generated from healthcare facility shall be removed everyday and ensure that in no case the waste shall be kept in the health care facility beyond 48 Hours.
8. The CBMWTF shall carry out third party evaluation done by reputed institutions and furnish the report once in every year.
9. The CBMWTF shall operate and maintain the surveillance cameras (CCTV) in the vulnerable location of the facilities (Waste storage, waste feeding, PLC attached with the treatment equipment (incinerator and autoclave).
10. The CBMWTF shall maintain good housekeeping with no odour nuisance.
11. The CBMWTF shall continue to develop green belt within the premises of the unit.
12. The CBMWTF shall not use "Use and throwaway plastics" such as plastic sheets used for food wrapping, spreading on dining table etc., plastic plates, plastic coated tea cups, plastic tumbler, water pouches and packets, plastic straw, plastic carry bag and plastic flags irrespective of thickness, within the industry premises. Instead unit shall encourage use of eco friendly alternative such as banana leaf, arecanut palm plate, stainless steel, glass, porcelain plates/cups, cloth bag, jute bag etc.
13. The CBMWTF shall comply with the E-Waste Management Rules 2016. E-Waste as listed in Schedule - I, generated by them shall be channelized through collection centre or dealer of authorised producer or dismantler or recycler or through the designated take back service provider of the producer to authorised dismantler or recycler. The unit shall maintain records of e-waste generated by them in Form-2 and make such records available for scrutiny by the TNPCB. The unit shall file annual returns in Form-3, to the TNPCB on or before the 30th day of June following the financial year.
14. The CBMWTF shall be operated for extra hours to treat and dispose the additional bio medical waste to their installed capacity without installation of additional treatment equipments and shall comply with the CPCB Guidelines for handling of BMW at all times.
15. The CBMWTF shall conduct Stack Emission monitoring (under optimum capacity) for parameters such as Particulate Matter, HCl, NOx, Hg & compounds and combustion efficiency once in three months as required under schedule II of the Bio-medical Waste Management Rules 2016 (All monitored values shall be corrected to 11% Oxygen on dry basis).
16. The CBMWTF shall monitor dioxins and furans once in a year (monitored values shall be corrected to 11% Oxygen on dry basis).

R CHANDRASEKARAN Digitally signed by R CHANDRASEKARAN
Date: 2023.07.03 15:36:28 +05'30'

**District Environmental Engineer,
Tamil Nadu Pollution Control Board,
COIMBATORE SOUTH**

To
The Partner,
M/s. TEKNOTHERM INDUSTRIES,
5-7/1, 2nd floor, North Huzur Road
Near Codissia Tower Building,
Coimbatore
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TAMILNADU POLLUTION CONTROL BOARD

Copy to:

1. The Executive Officer, CHETTIPALAYAM-Town Panchayat, Madukkarai Taluk, Coimbatore District .
2. Copy submitted to the Member Secretary, Tamil Nadu Pollution Control Board, Chennai for favour of kind information.
3. The District Environmental Engineer, Tamil Nadu Pollution Control Board, COIMBATORE SOUTH for favour of kind information.
4. File
