



# TAMIL NADU POLLUTION CONTROL BOARD



**From**

Thiru. R. Kannan, M.Tech.,  
Member Secretary,  
Tamil Nadu Pollution Control Board,  
76, Mount Road, Guindy,  
Chennai - 600 032

**To**

The Member Secretary,  
Central Pollution Control Board,  
Ministry of Environment, Forest & CC,  
Parivesh Bhawan, C.B.D.-cum-Office  
Complex, East Arjun Nagar, Shahdara,  
Delhi-110 032

**Lr No: T1/TNPCB/F-33728/BMWM/2024 Dated: 31 .07.2024**

Sir,

**Sub:** TNPCB-Bio-Medical Waste Management - Annual Report for the year 2023  
under BMWM Rules,2016 as amended- Submitted-Reg.

**Ref:** Biomedical Waste Management Rules, 2016 as amended

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I invite kind attention to the reference cited and to enclose herewith the Annual Report on Bio-Medical Waste Management with respect to the State of Tamil Nadu in the prescribed Format of the CPCB (Form-IV A) for the year 2023 for information and necessary action.

**Encl.:** As above

*[Handwritten Signature]*  
**For Member Secretary**

*[Handwritten Signature]*  
31/7/24





**TAMIL NADU POLLUTION CONTROL BOARD**  
**Bio Medical Waste Management**  
**Annual Report – January to December 2023**  
**FORMAT – IV A**

Format for submission of the Annual Report Information on Bio-Medical Waste Management (to be submitted by the State Pollution Control Board or Pollution Control Committees and Director General Armed Forces Medical Services to Central Pollution Control Board on or before 31<sup>st</sup> July of every year for the period from January to December of the preceding calendar year 2023)

**Part –I (summary of Information)**

1	<b>Name of the organization</b>	:	Tamil Nadu Pollution Control Board
2	<b>Name of the Nodal Officer with contact telephone number and e-mail</b>	:	<b>Er.K.Nalini,M.E, M.B.A,</b> Joint Chief Environmental Engineer, 80560 42209 Jcee5chn@tnpcb.gov.in
3	<b>Total No.of health care facilities/occupiers</b>	:	30230
I	Bedded hospitals and nursing homes (bedded)	:	8127
ii	Clinics dispensaries	:	11228
iii	Veterinary institutions	:	1411
iv	Animal beds	:	112
v	Pathological laboratories	:	2310
vi	Blood banks	:	47
vii	Clinical establishment	:	6846
viii	Research Institutions	:	28
ix	AYUSH	:	121
4	<b>Total No.of beds</b>	:	204717
5	<b>Status of authorization</b>	:	
i	Total number of occupiers applied for authorization	:	30230
ii	Total number of occupiers granted authorization	:	30163
iii	Total number of application under consideration	:	67
iv	Total number of applications rejected	:	Nil
v	Total number of occupiers in operation without applying for authorisation	:	Nil
6	<b>Quantity of Bio Medical Waste generation (in kg/day)</b>	:	59261.04
i	Bio-medical waste generation by bedded hospitals (in kg/day)	:	50471.58
ii	Bio-medical waste generation by non-bedded hospitals (in kg/day)	:	8789.46
iii	Any other(in kg/day)	:	Nil
	<b>Total</b>	:	
7	<b>Bio-medical waste treatment and disposal</b>	:	
a	By captive bio-medical waste	:	Nil



	treatment and disposal by Health Care Facilities		
i	Number of Health care facilities having captive treatment and disposal facilities	:	Nil
ii	Total bio medical waste treated and disposed by captive treatment facilities in kg/day	:	Nil
(b)	<b>Bio Medical Waste treatment&amp; disposed by CBMW facility as per Part- 4)</b>	:	-
i	No.of CBMW treatment facilities in operation	:	11 are in operation (Out of 13 CBMWTFs, two facilities at Nilgiris and Ramanathapuram were issued with closure direction for non compliance provisions of BMW Rules, 2016). However, the BMW generated from the HCFs in the Nilgiris district are collected and handed over to the M/s.Koval Biowaste Management (P) Ltd, Coimbatore and from Ramanathapuram district are collected and handed over to the M/s Resustainability Health Care Ltd, Virudhunagar (Jan 2023), Aseptic Systems Bio Medical Management Company, Thirunelveli (Feb 2023) and Medicare Enviro Systems, Thanjavur (Mar to Dec 2023) for treatment and disposal).
ii	No.of CBMW treatment facilities under construction	:	1
iii	Total bio-medical waste treated in kg/day	:	59261.04
iv	Total treatedbio-medical waste disposed through authorized recyclers (in kg/day)	:	
8	<b>Total No.of violation by</b>	:	
i	Health Care facilities (bedded and non-bedded)	:	Nil
ii	CBMW Treatment facilities	:	Nil
iii	Others (Please specify)	:	Nil
9	<b>Show cause notice/direction issued to defaulter</b>	:	Nil
i	CBMW treatment facilities	:	Nil
ii	Others	:	Nil
10	<b>Any other relevant information</b>	:	
I	No.of workshop/trainings conducted during the year	:	234
ii	No.of occupiers installed liquid waste treatment facility	:	6248 Nos and other Occupiers 1. Discharge the effluent into public sewer after disinfection with sodium hypochloride solution/ UV sterilizer. 2. Discharge the effluent into combined STP after disinfection with sodium hypochloride solution/ UV sterilizer. 3. Discharge the effluent on land after disinfection with sodium hypochloride solution/ UV sterilizer.
iii	No.of captive incinerators	:	NIL

	complying to the norms		
iv	No.of occupiers organized trainings	:	1117
v	No.of occupiers constituted BMWM Committees	:	1
vi	No.of occupiers submitted Annual Report for the previous calendar year	:	1158 Nos. Further the occupiers are uploading the BMW Annual report in their website as per BMWM Rules,2016.
vii	No.of occupiers practicing pre-treatment of lab microbiology and Bio-technology waste	:	All the bedded hospitals, pathological laboratories, blood banks and research institutions are practicing pre treatment of lab microbiology and bio-technology waste by disinfection before handling it over to the CBMWTFs.
viii	No.of CBMW Treatment Facilities that have installed Continuous Online Emission Monitoring Systems	:	11

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**Part 2 District – wise Bio Medical Waste Generation (for the previous calendar year 2023)**

S.No	Name of the State/ Union territory	Name of the District	Bio-medical Waste Generation (in kg/day)	Existing total bio-medical waste treatment capacity (both captive and CBMWTF) in kg/day		
	Tamil Nadu			<b>Equipment</b>	<b>Total</b>	
1.		Chengalpattu	3707	Incinerator	25300 kg/day	
2.		Chennai , Chennai south ,Ambattur	15763.23	Autoclave	13800 kg/day	
3.		Cuddalore	1461	Deep Burial	Nil	
4.		Kancheepuram	2221.9			
5.		Tiruvallur & Gummidipoondi	2048.54	Any other	--	
6.		Villupuram	882.05			
					<b>Equipment</b>	<b>Total</b>
7.		Coimbatore	10101.45	Incinerator	11000 kg/day	
8.		Tiruppur	1481.46	Autoclave	7400 kg/day	
9.		Nilgiris	223.46	Deep Burial	Nil	
				Any other	--	
					<b>Equipment</b>	<b>Total</b>
10.		Dharmapuri	485.51	Incinerator	8100 kg/Day	
11.		Krishnagiri	375	Autoclave	7100 kg/Day	
12.		Karur	349	Deep Burial	Nil	
13.		Erode & Perundurai	802.39			
14.		Namakkal	211.83	Any other	--	
15.		Salem & Kumarapalayam	813			
					<b>Equipment</b>	<b>Total</b>
16.		Kanyakumari	1874	Incinerator	4400 kg/Day	
				Autoclave	2400 kg/Day	
17.		Thoothukudi	790	Deep Burial	Nil	
18.		Tirunelveli	1622	Any other	--	
					<b>Equipment</b>	<b>Total</b>
19.		Madurai	2108	Incinerator	3300 kg/day	
20.		Dindigul	659	Autoclave	1600 kg/day	
21.	Theni	386	Deep Burial	Nil		
22.	Ramanathapuram	283.56				
23.	Virudhunagar	486	Any other	--		
				<b>Equipment</b>	<b>Total</b>	
24.	Nagapatinam & Tiruvarur	458	Incinerator	3300 kg/day		
25.	Thanjavur	835	Autoclave	2000 kg/day		
26.	Trichy	1225	Deep Burial	Nil		
27.	Ariyalur &	653.66				

	Perambalur			
28.	Pudukottai	392	Any other	--
29.	Sivagangai	475		
			<b>Equipment</b>	<b>Total</b>
30.	Vellore, Ranipet & Vaniyambadi	5564	Incinerator	5300 kg/day
			Autoclave	3600 kg/day
			Deep Burial	Nil
31.	Tiruvannamalai	523	Any other	--

**Note:**

The entire quantity of Biomedical wastes generated is treated and disposed through 10 CBMWTFs presently in operation







**Part 4 information on Common Bio medical waste treatment and disposal facilities (for the previous calendar year 2023)**

S. No	Name and Address of the common bio Medical waste treatment facilities with contact person name and telephone number	GPS coordinates	coverage Area in KMS	Name of the cities/ areas covered by	Total number of Health care facilities Being covered	Total number of beds covered	Total quantity of bio-medical waste Collected from member Health care facilities (in kg/day)	Capacity of treatment equipments installed by common bio medical waste treatment facilities				Total bio-medical waste treated in Kg/day	Method of disposal of treated wastes (incineration ash/sharps /plastics)
								Equipment	Numbers	Total installed capacity (kg/day)			
1	M/s. G.J Multiclave (India) Pvt Ltd, Thennelpakkam, Chengalpatu Taluk, Chengalpatu District.  Mr. Siva Kumar Mobile No: 98409196971	12.744490° 80.033245°	80	Chengalpatu District, Parts of Chennai District, Parts of Kancheepuram District	5049	24882	15057	Incinerator Plasma Pyrolysis Autoclave Hydroclave Microwave Shredder Sharps encapsulation or concrete pit Deep burial pits Any other equipment Effluent treatment plant Sub-total	2	9900 Kg/day 8000 Kg/day	15057	1. Incineration Ash disposed through TSDF 2. Waste sharps – Sharp pits 3. Plastics disposed through Authorised recycler	
2	M/s. Tamilnadu waste management ltd, S.F No.29/2, 3, K.K.Pudur Road, Kinar village, Chengalpatu Dist.  Mr. Sridhar Reddy Mobile No:9047011161	12.529987° 79.954009°	105	Parts of Kancheepuram District, Thiruvallur District, Maduranthagam Taluk of Chengalpatu District, Parts of Cuddalor	4149	18962	5610	Incinerator Plasma Pyrolysis Autoclave Hydroclave Microwave Shredder	1	4500 Kg/day 3000 Kg/day 80	5610	1. Incineration Ash disposed through TSDF 2. Waste sharps – Sharp pits 3. Plastics disposed through Authorised recycler	





<p>Thanjavur Taluk, Thanjavur Dt. Mr. K. Veimurugan, 9600288998</p>			<p>Nagapattinam, Truvarur, Ariyalur &amp; Perambalur</p>				<table border="1"> <tr><td>Pyrolysis</td><td></td><td></td><td></td></tr> <tr><td>Autoclave</td><td>1</td><td>2000 Kg/day</td><td></td></tr> <tr><td>Hydroclave</td><td></td><td></td><td></td></tr> <tr><td>Microwave</td><td></td><td></td><td></td></tr> <tr><td>Shredder</td><td>1</td><td>1100 kg/day</td><td></td></tr> <tr><td>Sharps</td><td></td><td></td><td></td></tr> <tr><td>encapsulation or concrete pit</td><td>12</td><td>-</td><td></td></tr> <tr><td>Deep burial pits</td><td>--</td><td></td><td></td></tr> <tr><td>Any other equipment</td><td>--</td><td></td><td></td></tr> <tr><td>Effluent treatment plant</td><td>1</td><td>1500 LPD</td><td></td></tr> <tr><td>Sub-total</td><td></td><td></td><td></td></tr> </table>	Pyrolysis				Autoclave	1	2000 Kg/day		Hydroclave				Microwave				Shredder	1	1100 kg/day		Sharps				encapsulation or concrete pit	12	-		Deep burial pits	--			Any other equipment	--			Effluent treatment plant	1	1500 LPD		Sub-total				<p>3747.84</p>	<p>2. Waste sharps – Sharp pits 3. Plastics – Disposed through recyclers</p>							
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<p>M/s. Ramky Energy &amp; Environment Ltd, Undrimkikulam, Aruppukottai Taluk, Virudhunagar District. Mr. Mohan 9677122723</p>	<p>9.69 N 79.24 E</p>	<p>250</p>	<p>Madurai Dt. Virudhunagar Dt. Dindigul Dt. Theni Dt. &amp; Govt Hospitals in Ramanad</p>	<p>2961</p>	<p>26810</p>	<p>3747.84</p> <table border="1"> <tr><td>Incinerator</td><td>1</td><td>3300 Kg/day</td><td></td></tr> <tr><td>Plasma</td><td>--</td><td>--</td><td></td></tr> <tr><td>Pyrolysis</td><td></td><td></td><td></td></tr> <tr><td>Autoclave</td><td>1</td><td>1600 Kg/day</td><td></td></tr> <tr><td>Hydroclave</td><td></td><td></td><td></td></tr> <tr><td>Microwave</td><td></td><td></td><td></td></tr> <tr><td>Shredder</td><td>2</td><td>2200 &amp; 1650 kg/day</td><td></td></tr> <tr><td>Sharps</td><td>2</td><td>--</td><td></td></tr> <tr><td>encapsulation or concrete pit</td><td></td><td></td><td></td></tr> <tr><td>Deep burial pits</td><td>--</td><td>--</td><td></td></tr> <tr><td>Any other equipment</td><td>--</td><td>--</td><td></td></tr> <tr><td>Effluent treatment plant</td><td>1</td><td>7 KLD</td><td></td></tr> <tr><td>Sub-total</td><td></td><td></td><td></td></tr> </table>	Incinerator	1	3300 Kg/day		Plasma	--	--		Pyrolysis				Autoclave	1	1600 Kg/day		Hydroclave				Microwave				Shredder	2	2200 & 1650 kg/day		Sharps	2	--		encapsulation or concrete pit				Deep burial pits	--	--		Any other equipment	--	--		Effluent treatment plant	1	7 KLD		Sub-total				<p>4161</p>	<p>1. Incineration ash - disposed through TSDF 2. Waste sharps – Sharp pits 3. Plastics – Disposed through recyclers</p>
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<p>6</p>	<p>M/s. Aseptic System Bio Medical Waste</p>	<p>77.73575° N 8.47752° E</p>	<p>100</p>	<p>Tirunelveli Dt. Tuticorin Dt.</p>	<p>3316</p>	<p>23459</p>	<p>4161</p> <table border="1"> <tr><td>Incinerator</td><td>1</td><td>4400 Kg/day</td><td></td></tr> <tr><td>Plasma</td><td></td><td></td><td></td></tr> </table>	Incinerator	1	4400 Kg/day		Plasma				<p>4161</p>	<p>1. Incineration ash - disposed through TSDF</p>																																											
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<p>No:10, Thangayur Village, Edappadi Taluk, Salem-Dist</p> <p>M.D.Selvapandian, Ph:9840939811,</p>		<p>Karur Erode</p>				<table border="1"> <tr><td>Pyrolysis</td><td></td><td></td></tr> <tr><td>Autoclave</td><td>1</td><td>2600 Kg/day</td></tr> <tr><td>Hydroclave</td><td>-</td><td></td></tr> <tr><td>Microwave</td><td>-</td><td></td></tr> <tr><td>Shredder</td><td>2</td><td>1100 Kg/ day and 2200 Kg/day</td></tr> <tr><td>Sharps encapsulation or concrete pit</td><td>2</td><td>-</td></tr> <tr><td>Deep burial pits</td><td>-</td><td></td></tr> <tr><td>Any other equipment</td><td>-</td><td></td></tr> <tr><td>Effluent treatment plant</td><td>1</td><td>1.8 KLD</td></tr> <tr><td>Sub-total</td><td></td><td></td></tr> </table>	Pyrolysis			Autoclave	1	2600 Kg/day	Hydroclave	-		Microwave	-		Shredder	2	1100 Kg/ day and 2200 Kg/day	Sharps encapsulation or concrete pit	2	-	Deep burial pits	-		Any other equipment	-		Effluent treatment plant	1	1.8 KLD	Sub-total			<p>2. Waste sharps – Sharp pits</p> <p>3. Plastics – Disposed through recyclers</p>						
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<p>9</p> <p>Society for Bio Medical Waste Management Ottupattarai Village, Coohoor, (IMA Nilgiris)</p> <p>Dr. Muralidharan 9443475946</p>	<p>--</p>	<p>--</p>	<p>399</p>	<p>2363</p>	<p>223.46</p>	<table border="1"> <tr><td>Incinerator</td><td>-</td><td>-</td></tr> <tr><td>Plasma Pyrolysis</td><td></td><td></td></tr> <tr><td>Autoclave</td><td>-</td><td>-</td></tr> <tr><td>Hydroclave</td><td></td><td></td></tr> <tr><td>Microwave</td><td>-</td><td>-</td></tr> <tr><td>Shredder</td><td></td><td></td></tr> <tr><td>Sharps encapsulation or concrete pit</td><td>-</td><td>-</td></tr> <tr><td>Deep burial pits</td><td>-</td><td>-</td></tr> <tr><td>Any other equipment</td><td></td><td></td></tr> <tr><td>Effluent treatment plant</td><td>-</td><td>-</td></tr> <tr><td>Sub-total</td><td></td><td></td></tr> <tr><td>Incinerator Plasma</td><td>-</td><td>-</td></tr> </table>	Incinerator	-	-	Plasma Pyrolysis			Autoclave	-	-	Hydroclave			Microwave	-	-	Shredder			Sharps encapsulation or concrete pit	-	-	Deep burial pits	-	-	Any other equipment			Effluent treatment plant	-	-	Sub-total			Incinerator Plasma	-	-	<p>The CBMWTF now under closure. All the waste collected were handed over to M/s. Koval Bio Waste Management P Ltd., Coimbatore for treatment and disposal</p>
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<p>10</p> <p>M/s Neat and Clean Service Squad,</p>	<p>9°26'08.5"N 78°40'37.8"E</p>	<p>150</p>	<p>359</p>	<p>1382</p>	<p>174.72 Kg/day</p>	<table border="1"> <tr><td>Incinerator Plasma</td><td>-</td><td>-</td></tr> </table>	Incinerator Plasma	-	-	<p>The CBMWTF now under closure. All the waste collected were handed over to M/s Resustainability</p>																																	
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a.	Total number of transportation vehicle used for collection of bio-medical waste on daily basis by the common bio-medical waste treatment facilities	295
b.	List of health care facilities not having membership with the common bio-medical waste treatment facilities and neither having captive treatment facilities	Nil
c.	Number of trainings organized by the common bio –medical waste treatment facility operators	501
d.	Number of Accidents reported by the common bio medical waste treatment facilities	Nil

  
For Member Secretary

30/11/15  
R