



**TAMIL NADU POLLUTION CONTROL BOARD**

**Bio Medical Waste Management**

**Annual Report – January to December 2022**

**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 2022)

**Part –I (summary of Information)**

1	Name of the organization	:	TAMILNADU POLLUTION CONTROL BOARD
2	Name of the Nodal Officer with contact telephone number and e-mail	:	Er. R. Sarasavani, Joint Chief Environmental Engineer, 8056042464 jceewmtnpcb@gmail.com
3	Total No. of health care facilities/occupiers	:	27603
I	Bedded hospitals and nursing homes (bedded)	:	7922
ii	Clinics dispensaries	:	11483
iii	Veterinary institutions	:	1194
iv	Animal beds	:	147
v	Pathological laboratories	:	2103
vi	Blood banks	:	83
vii	Clinical establishment	:	4580
viii	Research Institutions	:	22
ix	AYUSH	:	69
4	Total No.of beds	:	191114
5	Status of authorization	:	
i	Total number of occupiers applied for authorization	:	27598
ii	Total number of occupiers granted authorization	:	27353
iii	Total number of application under consideration	:	146
iv	Total number of applications rejected	:	99
v	Total number of occupiers in operation without applying for authorisation	:	5
6	Quantity of Bio Medical Waste generation (in kg/day)	:	49721.43

i	Bio-medical waste generation by bedded hospitals (in kg/day)	:	42707
ii	Bio-medical waste generation by non-bedded hospitals (in kg/day)	:	7014.43
iii	Any other	:	Nil
	<b>Total</b>	:	
7	<b>Bio-medical waste treatment and disposal</b>	:	
a	By captive bio-medical waste treatment and disposal by Health Care Facilities	:	NIL
i	Number of Health care facilities having captive treatment and disposal facilities	:	NIL
li	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	:	<ul style="list-style-type: none"> <li>• 10 are in operation (Out of 12 CBMWTFs, two facilities were issued with closure direction for non compliance provisions of BMWM Rules, 2016). However, the BMW generated from the HCFs in the Nilgiris district are collected and handed over to the M/s.Kovai Biowaste Management (P) Ltd, Coimbatore and from Ramanathapuram district are collected and handed over to the M/s. Ramky Energy and Environment Ltd., Virudhunagar for treatment and disposal)</li> <li>• One more facility M/s. RE SUSTAINABILITY IWM SOLUTIONS LIMITED, UNIT - 3 (FORMERLY TAMILNADU WASTE MANAGEMENT LIMITED, UNIT - 3) , S.F.No. Plot No. 141 A, 142 and 143. SF No. 726 (Part), Krishnagiri District is issued with Consent to Operate vide Board's Proc. No.T2 / TNPCB / F.2585HSR / RL / HSR / W / 2023 dated 25/03/2023. Yet to commence its operation.</li> </ul>
ii	No.of CBMW treatment facilities under construction	:	2
iii	Total bio-medical waste treated in kg/day	:	
iv	Total treated bio-medical waste disposed through authorized recyclers (in kg/day)	:	49721.43
8	<b>Total No.of violation by</b>	:	
i	Health Care facilities (bedded and non-bedded)	:	1 (Bedded)
ii	CBMW Treatment facilities	:	2

iii	Others (Please specify)	:	Nil
9	<b>Show cause notice/direction issued to defaulter</b>	:	
i	CBMW treatment facilities	:	2
ii	Others	:	1 (Bedded)
10	<b>Any other relevant information</b>	:	
i	No.of workshop/trainings conducted during the year	:	33
ii	No.of occupiers installed liquid waste treatment facility	:	5904 Nos. and Other occupiers 1. Discharge the effluent into public sewer after disinfection with Sodium Hypochlorite solution/ UV sterilizer 2. Discharge the effluent into combined STP after disinfection with Sodium Hypochlorite solution/UV sterilizer 3. Discharge the effluent onland for gardening after disinfection with Sodium Hypochlorite solution/UVsteriliser
iii	No.of captive incinerators complying to the norms	:	Nil
iv	No.of occupiers organized trainings	:	1108
v	No.of occupiers constituted BMWM Committees	:	7430
vi	No.of occupiers submitted Annual Report for the previous calendar year	:	2214 Nos. Further, the occupiers are uploading the BMW annual report in their website as per the 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 biotechnology waste by disinfection before handing it over to the CBMWTFs
viii	No. of CBMW Treatment Facilities that have installed Continuous Online Emission Monitoring Systems	:	10

**Part 2 District – wise Bio Medical Waste Generation (for the previous calendar year 2022)**

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	
				Equipment	Total
	Tamil Nadu				
1.		Chengalpattu	3021	Incinerator	25200 kg/day
2.		Chennai	10087	Autoclave	13800 kg/day
3.		Cuddalore	1143	Deep	Nil
4.		Kancheepuram	1745	Burial	

5.	Tiruvallur	820	Any other	--
6.	Villupuram & Kallakurichi	823.16		
			<b>Equipment</b>	<b>Total</b>
7.	Coimbatore	9560	Incinerator	11500 kg/day
8.	Tiruppur	1670	Autoclave	13400 kg/day
9.	Nilgiris	250	Deep Burial	Nil
			Any other	--
			<b>Equipment</b>	<b>Total</b>
10.	Dharmapuri	415.09	Incinerator	3300 kg/Day
11.	Krishnagiri	368	Autoclave	825 kg/Day
12.	Karur	369	Deep Burial	Nil
13.	Erode	663.97		
14.	Namakkal	208.03	Any other	--
15.	Salem	804.26		
			<b>Equipment</b>	<b>Total</b>
16.	Kanyakumari	1494	Incinerator	4400 kg/Day
			Autoclave	2400 kg/Day
17.	Thoothukudi	676	Deep Burial	Nil
18.	Tirunelveli & Tenkasi	1386	Any other	--
			<b>Equipment</b>	<b>Total</b>
19.	Madurai	2040	Incinerator	3300 kg/day
20.	Dindigul	640	Autoclave	1600 kg/day
21.	Theni	430.35	Deep Burial	Nil
22.	Ramanathapuram	299.92		
23.	Virudhunagar	410.65	Any other	--
			<b>Equipment</b>	<b>Total</b>
24.	Nagapatinam & Tiruvarur	845	Incinerator	3300 kg/day
25.	Thanjavur	855	Autoclave	2000 kg/day
26.	Trichy	1298	Deep Burial	Nil
27.	Ariyalur & Perambalur	697		
28.	Pudukottai	335	Any other	--
29.	Sivagangai	435		
			<b>Equipment</b>	<b>Total</b>
30.	Vellore, Ranipet & Thirupathur	5375	Incinerator	6000 kg/day
			Autoclave	3600 kg/day
			Deep Burial	Nil
31.	Tiruvannamalai	557	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 2022)**

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 CBMWTFs	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, Thenmelpakkam, Chengalpattu Taluk, Chengalpattu District.  Mr. Siva Kumar Mobile No: 98409196971	12.74449 0° 80.03324 5°	80	Chengalpattu District, Parts of Chennai District. Parts of Kancheepuram District	4300	24978	12260	Incinerator	2	10800 Kg/day	12260	1. Incineration Ash disposed through TSDF  2. Sharps disposed in Sharp pits  3. Plastics disposed through Authorised recycler
								Plasma Pyrolysis	--	--		
								Autoclave	2	8000 Kg/day		
								Hydroclave	--	--		
								Microwave	--	--		
								Shredder	2	6000 kg/day		
								Sharps encapsulation or concrete pit	552	--		
								Deep burial pits	--	--		
								Any other equipment	--	--		
								Effluent treatment plant	1	25 KLD		
Sub-total												
2	M/s.Tamilnadu waste management ltd, Servey No.29/2, 3, K.K.Pudur Road, Kinar village, Chengalpattu Dist.  Mr.Sridhar Reddy Mobile No:9047011161	12.52998 7° 79.95400 9°	105 kms	Parts of Kancheepuram District, Thiruvallur District, Maduranthagam Taluk of Chengalpattu District , Parts of Cuddalor District and Villupuram Districts	2241	15409	3972	Incinerator	1	4400 Kg/day	3972	1. Incineration ash - disposed through TSDF  2. Waste sharps – Sharp pits  3. Plastics – Disposed through recyclers
								Plasma Pyrolysis	--	--		
								Autoclave	1	3240 Kg/day		
								Hydroclave	--	--		
								Microwave	--	--		
								Shredder	2	1760 kg/day & 1760 kg/day		
								Sharps encapsulation or concrete pit	2	--		

								Deep burial pits	--				
								Any other equipment	--				
								Effluent treatment plant	1	10 KLD			
								Sub-total	--				
3	M/s. Ken Biolinks Pvt Ltd, 1/150, SLRS Hospital Road, Kandipedu Village, Katpadi Taluk, Vellore District.  Mr. SHIVA SUBRAMANIAN +91-99623-11011	13.00168 1 N° 79.19436 3 E°	75 kms	Vellore, Tiruvannamalai, Ranipet, Tirupathur Districts	1799	12703	5932	Incinerator	1	6000 kg/day	5932	1. Incineration ash - disposed through TSDF	
								Plasma Pyrolysis	--			2. Waste sharps – Sharp pits	
								Autoclave	1	3600 Kg/day		3. Plastics – Disposed through recyclers	
								Hydroclave	--				
								Microwave	--				
								Shredder	2	2200-3300 kg/day			
								Sharps encapsulation or concrete pit	8	--			
								Deep burial pits					
								Any other equipment	1-Needle tip cutter or destroyer 1-Chemical disinfection	60 Needles / Hour Hypo Dosing System - 100 lts			
								Effluent treatment plant	1	15 KLD			
								Sub-total					
4	M/s. Medicare Enviro System, Sengipatti Village, Thanjavur Taluk, Thanjavur Dt.  Mr. K.Veimurugan, 9600288998	10.7141° N 78.9557° E	140 Kms	Thanjavur, Trichy, Pudukottai, Sivagangai, Nagapatinam, Tiruvarur, Ariyalur & Perambalur	4009	29038	4060	Incinerator	1	3300 Kg/day	4060	1. Incineration ash - disposed through TSDF	
								Plasma Pyrolysis	--			2. Waste sharps – Sharp pits	
								Autoclave	1	2000 Kg/day		3. Plastics – Disposed through recyclers	
								Hydroclave	--				
								Microwave	--				
								Shredder	1	1100 kg/day			
								Sharps encapsulation or concrete pit	8	--			
								Deep burial pits	--	--			




								Any other equipment	--			
								Effluent treatment plant	1	1.5 KLD		
								Sub-total	--			
5	M/s. Ramky Energy & Environment Ltd., Undrimikidikulam, Aruppukottai Taluk, Virudhunagar District.  Mr. Mohan 9677122723	9.69 N 79.24 E	250 KM	Madurai Dt. Virudhunagar Dt. Dindigul Dt. Theni Dt. & Govt Hospitals in Ramnad	2837	24210	3638.28	Incinerator	1	3300 Kg/day	3638.28 + 195.64 (collected and handed over by the CBMWTF M/s Neat and Clean Service Squad, Keelakottai Village, Paramakudi Taluk, Ramanathapuram District for the treatment and disposal)	1. Incineration ash - disposed through TSDF  2. Waste sharps – Sharp pits  3. Plastics – Disposed through recyclers
								Plasma Pyrolysis	--	--		
								Autoclave	1	1600 Kg/day		
								Hydroclave	--			
								Microwave	--			
								Shredder	2	2200 & 1650 kg/day		
								Sharps encapsulation or concrete pit	2	--		
								Deep burial pits	--	--		
								Any other equipment	--	--		
								Effluent treatment plant	1	5 KLD		
								Sub-total				
6	M/s. Aseptic System Bio Medical Waste Management Co., Pappankulam Village, Nanguneri Taluk, Tirunelveli District.  Mr. Murugan 7373715180	77.73575 ° N 8.47752° E	100 KM	Tirunelveli Dt. Tuticorin Dt. Kanyakumari Dt. & Tenkasi Dt.	2733	22930	3556	Incinerator	1	4400 Kg/day	3556	1. Incineration ash - disposed through TSDF  2. Waste sharps – Sharp pits  3. Plastics – Disposed through recyclers
								Plasma Pyrolysis				
								Autoclave	1	2400 Kg/day		
								Hydroclave				
								Microwave				
								Shredder	1	4400 kg/day		
								Sharps encapsulation or concrete pit	42	--		
								Deep burial pits	--			
								Any other equipment	--			
								Effluent treatment plant	1	15 KLD		
								Sub-total	--			

7	<b>M/s.Teknotherm Industries, 183/1A, Orattukupai Village., Chettipalayam Village., Podanur, Coimbatore.</b>  <b>Mr. Sudhakar</b> <b>9626822000</b>		75 Kms	Coimbatore, & Tiruppur Districts	924	18967	10000	Incinerator	1	6000 Kg/day	10000	1. Incineration ash - disposed through TSDF  2. Waste sharps – Sharp pits  3. Plastics – Disposed through recyclers
								Plasma Pyrolysis	--	--		
								Autoclave	1	9000 Kg/day		
								Hydroclave	--	--		
								Microwave	--	--		
								Shredder	1	2200 kg/day		
								Sharps encapsulation or concrete pit	1	--		
								Deep burial pits	--	-		
								Any other equipment	--	--		
								Effluent treatment plant	1	25 KLD		
Sub-total	--											
8	<b>M/s.Ramky Energy And Environment Ltd, No:10,Thangayur Village, Edappadi Taluk, Salem-Dist</b>  <b>M.D.Selvapandian,</b> <b>Ph:9840939811,</b>	11.552937, 77.850794	100 kms	Salem Dharmapuri Krishnagiri Namakkal Karur Erode	4926	30392	2828.35	Incinerator	1	3300 Kg/day	2828.35	1. Incineration ash - disposed through TSDF  2. Waste sharps – Sharp pits  3. Plastics – Disposed through recyclers
								Plasma Pyrolysis	-			
								Autoclave	1	825 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												
9	<b>Society for Bio Medical Waste Management Ottupattarai Village, Coonoor. (IMA Nilgiris)</b>	--	--	--	--	-	--	Incinerator	--		The CBMWTF now under closure since 2019.	
								Plasma Pyrolysis	--			
								Autoclave	-	--		
								Hydroclave				

	Dr. Muralidharan 9443475946							Microwave						
								Shredder	--	--				
								Sharps encapsulation or concrete pit						
								Deep burial pits						
								Any other equipment						
								Effluent treatment plant	--					
								Sub-total						
10	M/s Neat and Clean Service Squad, Keelakottai Village, Paramakudi Taluk, Ramanathapuram District  Mr. Pathy 8220013008	9°26'08.5 "N 78°40'37.8"E	75 Km	Ramanathapuram (Private Hospitals), Sivagangai (Manamadurai Town Panchayat alone)	297	1361	195.64	Incinerator	--				The CBMWTF now under closure. All the waste collected were handed over to M/s Ramky Energy and Environment Limited, Virudhunagar for treatment and disposal	
								Plasma	--					
								Pyrolysis						
								Autoclave	--	--				
								Hydroclave						
								Microwave						
								Shredder						
								Sharps encapsulation or concrete pit	--					
								Deep burial pits	--					
								Any other equipment						
								Effluent treatment plant						
								Sub-total						
11	M/s.Kovai Bio Waste Management P Ltd., SF.No.87/2, Orattukupai Village., Chettipalayam Village., Podanur, Coimbatore.  Tmt. Bhuvaneswari 9894012222	Lat:10.93 6115 Long: 77.04663 5	1075 sq.km	Tiruppur, Coimbatore & Nilgiris Districts	2696	5393	1480	Incinerator	1	5500 Kg/day	1480	1. Incineration ash - disposed through TSDF  2. Waste sharps - Sharp pits  3. Plastics - Disposed through recyclers		
								Plasma	--					
								Pyrolysis						
								Autoclave	1	4400 Kg/day				
								Hydroclave	--					
								Microwave	--					
								Shredder	1	2200 kg/day				
								Sharps encapsulation or concrete pit	1					
								Deep burial pits	--					
								Any other	--					

								equipment					
								Effluent treatment plant	1				
								Sub-total					
12	M/s. Pondicherry Solid Waste Management Company Private Limited, S.F.NO.275/2, T. Pudaiyur village, Virudhachalam Taluk, Cuddalore District	Latit:11.5 17155 Long:79.1 96589	75	Cuddalore, Vilupuram, Kallakurichi, Ariyalur, Perambalur	841	5733	1799.16	Incinerator	1	10000 Kg/day	1799.16	1. Incineration ash - disposed through TSDF	
								Plasma Pyrolysis	--			2. Waste sharps - Sharp pits	
								Autoclave	1	2560 Kg/day		3. Plastics - Disposed through recyclers	
								Hydroclave	--				
								Microwave	--				
								Shredder	1	5500 Kg/day			
								Sharps encapsulation or concrete pit	1	1x1x0.85 m			
								Deep burial pits	--	-			
								Any other equipment	--	--			
								Effluent treatment plant	1	10 KLD			
								Sub-total	--	--			

a.	Total number of transportation vehicle used for collection of bio-medical waste on daily basis by the common bio-medical waste treatment facilities	114
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	264
d.	Number of Accidents reported by the common bio medical waste treatment facilities	Nil

  
 For Member Secretary  
 31/7/23  
 31/7/23