



TAMIL NADU POLLUTION CONTROL BOARD

Bio Medical Waste Management

Annual Report – January to December 2021

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 31st July of every year for the period from January to December of the preceding calendar year 2021)

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. Sarasvani, Joint Chief Environmental Engineer, 8056042464 jceewmtnpcb@gmail.com
3	Total No. of health care facilities/occupiers	:	26597
i	Bedded hospitals and nursing homes (bedded)	:	7601
ii	Clinics dispensaries	:	10537
iii	Veterinary institutions	:	1625
iv	Animal beds	:	24
v	Pathological laboratories	:	2046
vi	Blood banks	:	46
vii	Clinical establishment	:	4636
viii	Research Institutions	:	13
ix	AYUSH	:	69
4	Total No.of beds	:	145848
5	Status of authorization	:	
i	Total number of occupiers applied for authorization	:	26480
ii	Total number of occupiers granted authorization	:	26393
iii	Total number of application under consideration	:	53
iv	Total number of applications rejected	:	34
v	Total number of occupiers in operation without applying for authorisation	:	117

6	Quantity of Bio Medical Waste generation (in kg/day)	:	45215.93 (including COVID 19 BMW – 9716.76)
i	Bio-medical waste generation by bedded hospitals (in kg/day)	:	37627.43
ii	Bio-medical waste generation by non-bedded hospitals (in kg/day)	:	7588.5
iii	Any other	:	Nil
	Total	:	
7	Bio-medical waste treatment and disposal	:	
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
ii	Total bio medical waste treated and disposed by captive treatment facilities in kg/day	:	NIL
(b)	Bio Medical Waste treatment & disposed by CBMW facility as per Part-4)	:	-
i	No.of CBMW treatment facilities in operation	:	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)
ii	No.of CBMW treatment facilities under construction	:	3
iii	Total bio-medical waste treated in kg/day	:	
iv	Total treated bio-medical waste disposed through authorized recyclers (in kg/day)	:	45215.93
8	Total No.of violation by	:	
i	Health Care facilities (bedded and non-bedded)	:	21
ii	CBMW Treatment facilities	:	Nil
iii	Others (Please specify)	:	Nil
9	Show cause notice/direction issued to defaulter	:	
i	CBMW treatment facilities	:	Nil
ii	Others	:	Non-bedded (19) and Bedded (2)
10	Any other relevant information	:	
I	No.of workshop/trainings conducted during the year	:	47
ii	No.of occupiers installed liquid waste treatment facility	:	6952 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	:	2392
v	No.of occupiers constituted BMWM Committees	:	7356
vi	No.of occupiers submitted Annual Report for the previous calendar year	:	2044 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 2021)

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			Equipment	Total	
1.		Chengalpattu	2935	Incinerator	26200 kg/day	
2.		Chennai & Ambattur	10944	Autoclave	13800 kg/day	
3.		Cuddalore	594.5	Deep Burial	Nil	
4.		Kancheepuram	861			
5.		Tiruvallur & Gummidipoondi	1357.93	Any other	--	
6.		Villupuram	785.5			
					Equipment	Total
7.		Coimbatore	7130	Incinerator	11000 kg/day	
8.		Tiruppur	1294	Autoclave	8400 kg/day	
9.	Nilgiris	410	Deep Burial	Nil		

			Any other	--
			Equipment	Total
10.	Dharmapuri	335	Incinerator	3300 kg/Day
11.	Krishnagiri	294	Autoclave	2600 kg/Day
12.	Karur	287	Deep	
13.	Erode & Perundurai	514	Burial	Nil
14.	Namakkal	190	Any other	--
15.	Salem & Kumarapalayam	660		
			Equipment	Total
16.	Kanyakumari	1502	Incinerator	4400 kg/Day
			Autoclave	2400 kg/Day
17.	Thoothukudi	687	Deep Burial	Nil
18.	Tirunelveli	1430	Any other	--
			Equipment	Total
19.	Madurai	2306.5	Incinerator	3300 kg/day
20.	Dindigul	506.5	Autoclave	1600 kg/day
21.	Theni	418	Deep	Nil
22.	Ramanathapuram	378	Burial	
23.	Virudhunagar	390	Any other	--
			Equipment	Total
24.	Nagapatinam & Tiruvarur	515	Incinerator	3300 kg/day
25.	Thanjavur	630	Autoclave	2000 kg/day
26.	Trichy	1040	Deep	Nil
27.	Ariyalur & Perambalur	390	Burial	
28.	Pudukottai	215	Any other	--
29.	Sivagangai	322		
			Equipment	Total
30.	Vellore, Ranipet & Vaniyambadi	5299	Incinerator	5500 kg/day
			Autoclave	3600 kg/day
			Deep Burial	Nil
31.	Tiruvannamalai	595	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 2021)

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	3954	21888	12194	Incinerator	2	10800 Kg/day	12194	1 Incineration Ash disposed through TSDF 2 Sharps disposed in Sharp pits 3 Plastics disposed through Authorised rcycler
								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	2348	8591	4481.93	Incinerator	1	4400 Kg/day	4481.93	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	1710	10128	5895	Incinerator	1	5500 kg/day	5895	1 Incineration ash - disposed through TSDF	
								Plasma Pyrolysis	--			2 Waste sharps – Sharp pits	
								Autoclave	1	3600 Kg/day			
								Hydroclave	--				
								Microwave	--				3 Plastics – Disposed through recyclers
								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.Velmurugan, 9600288998	10 7141° N 78 9557° E	140 Kms	Thanjavur, Trichy, Pudukottai, Sivagangai, Nagapatinam, Tiruvarur, Aniyalur & Perambalur	4035	23560	3100	Incinerator	1	3300 Kg/day	3100	1 Incineration ash - disposed through TSDF	
								Plasma Pyrolysis	--			2 Waste sharps – Sharp pits	
								Autoclave	1	2000 Kg/day			
								Hydroclave	--				
								Microwave	--				
								Shredder	1	1100 kg/day			
								Sharps encapsulation or concrete pit	8	--			3 Plastics – Disposed through recyclers
								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	2646	11802	3831	Incinerator	1	3300 Kg/day	3831 + 180 (collected and handed over by the CBMWTF M/s Neat and Clean Service Squad Keelakottai Village, Paramakudi Taluk, Ramanathapu ram 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.	2530	22766	3619	Incinerator	1	4400 Kg/day	3619	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	M/s. Teknotherm Industries, 183/1A, Orattukupai Village., Chettipalayam Village., Podanur, Coimbatore. Mr. Sudhakar 9626822000		75 Kms	Coimbatore & Tiruppur Districts	969	14000	7354	Incinerator	1	5500 Kg/day	7354	1. Incineration ash - disposed through TSDF 2. Waste sharps - Sharp pits 3. Plastics - Disposed through recyclers
								Plasma Pyrolysis	--	--		
								Autoclave	1	4000 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	M/s. Ramky Energy And Environment Ltd, No:10, Thangayur Village, Edappadi Taluk, Salem-Dist M.D. Selvapandian, Ph:9840939811,	11 55293 7, 77 85079 4	100 kms	Salem Dharmapuri Krishnagiri Namakkal Karur Erode	4844	21143	2280	Incinerator	1	3300 Kg/day	2280	1. Incineration ash - disposed through TSDF 2. Waste sharps - Sharp pits 3. Plastics - Disposed through recyclers
								Plasma 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	18 KLD		
								Sub-total				
9	Society for Bio Medical Waste Management Ottupattarai Village, Coonoor. (IMA Nilgiris)	--	--	--	292	1007	30	Incinerator	--		The CBMWTF now under closure. All the waste collected were handed over to M/s. Kovai Bio Waste Management P Ltd., Coimbatore for treatment and disposal	
								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	Ramanathapura m (Private Hospitals), Sivagangai (Manamadurai Town Panchayat alone)	322	1339	180	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 & Nilgris Districts	2227	410	1540	Incinerator	1	5500 Kg/day	1540 + 30 (collected and handed over by the CBMWTF M/s Society for Bio Medical Waste Management Ottupattarai Village, Coonoor for the treatment and disposal)	1. Incineration ash - disposed through TSDF	
							Plasma	--					2. Waste sharps - Sharp pits
							Pyrolysis						3. Plastics - Disposed through recyclers
							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 Villupuram Kallakurichi, Ariyalur, Perambalur	720	2694	787	Incinerator	1	10000 Kg/day	787	1 Incineration ash - disposed through TSDF
								Plasma Pyrolysis	--			2 Waste sharps - Sharp pits
								Autoclave	1	2560 Kg/day		
								Hydroclave	--			
								Microwave	--			
								Shredder	1	5500 Kg/day		3 Plastics - Disposed through recyclers
								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	105
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	383
d.	Number of Accidents reported by the common bio medical waste treatment facilities	Nil



 For Member Secretary