



By Special post-

TAMIL NADU POLLUTION CONTROL BOARD

From

Dr. S. Selvan, M.E, M.B.A, Ph.D,
Member Secretary (i/c),
Tamil Nadu Pollution Control Board,
76, Mount Salai,
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:T4/TNPCB / F-33728/BMWM/2021 Dated: 28.07.2021

Sir,

Sub : TNPCB – Bio-Medical Waste Management – Annual Report for the year 2020 – Submitted – Reg.

Ref : Biomedical Waste Management Rules, 2016 as amended

I invite kind attention to the reference cited and to enclose herewith the Annual Report on Bio-Medical Waste Management with respect to State of Tamilnadu in the prescribed Format of the CPCB (Form-IV A) for the year 2020.

Encl : As above

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28/7/2021
For Member Secretary
[Handwritten Signature]
28/7/2021

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TAMIL NADU POLLUTION CONTROL BOARD

Bio Medical Waste Management

Annual Report – January to December 2020

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 2020)

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	:	25026
I	Bedded hospitals and nursing homes (bedded)	:	7300
ii	Clinics dispensaries	:	14060
iii	Veterinary institutions	:	1103
iv	Animal beds	:	195
v	Pathological laboratories	:	1916
vi	Blood banks	:	46
vii	Clinical establishment	:	215
viii	Research Institutions	:	11
ix	AYUSH	:	180
4	Total No.of beds	:	184598
5	Status of authorization	:	
i	Total number of occupiers applied for authorization	:	24508
ii	Total number of occupiers granted authorization	:	24364**
iii	Total number of application under consideration	:	23
iv	Total number of applications rejected	:	121
v	Total number of occupiers in operation without applying for authorisation	:	518

** As on date, 25426 HCFs have been issued with Authorisation

6	Quantity of Bio Medical Waste generation (in kg/day)	:	35269.74
i	Bio-medical waste generation by bedded hospitals (in kg/day)	:	29131.71
ii	Bio-medical waste generation by non-bedded hospitals (in kg/day)	:	6138.03
iii	Any other	:	
	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
li	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)	:	35269.74
8	Total No.of violation by	:	
i	Health Care facilities (bedded and non-bedded)	:	28
ii	CBMW Treatment facilities	:	5
iii	Others (Please specify)	:	Nil
9	Show cause notice/direction issued to defaulter	:	
i	CBMW treatment facilities	:	5
ii	Others	:	9 (Bedded HCFs) and 19 (non-bedded HCFs)
10	Any other relevant information	:	
I	No.of workshop/trainings conducted during the year	:	4741
ii	No.of occupiers installed liquid waste treatment facility	:	6407 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	:	1736
v	No.of occupiers constituted BMWM Committees	:	7300
vi	No.of occupiers submitted Annual Report for the previous calendar year	:	1663 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 2020)

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	2515	Incinerator	26200 kg/day
2.		Chennai & Ambattur	10014	Autoclave	13800 kg/day
3.		Cuddalore	623	Deep	Nil
4.		Kancheepuram	1096	Burial	
5.		Tiruvallur & Gummidipoondi	575	Any other	--
6.		Villupuram	795		
				Equipment	Total
7.		Coimbatore	3500	Incinerator	11000 kg/day
8.		Tiruppur	753	Autoclave	8400 kg/day
9.		Nilgiris	120	Deep Burial	Nil

			Any other	--
			Equipment	Total
10.	Dharmapuri	237.27	Incinerator	3300 kg/Day
11.	Krishnagiri	245	Autoclave	2600 kg/Day
12.	Karur	145	Deep	Nil
13.	Erode & Perundurai	340	Burial	
14.	Namakkal	131.4	Any other	--
15.	Salem & Kumarapalayam	396.06		
			Equipment	Total
16.	Kanyakumari	1069.49	Incinerator	4400 kg/Day
			Autoclave	2400 kg/Day
17.	Thoothukudi	584.33	Deep	Nil
			Burial	
18.	Tirunelveli	1424	Any other	--
			Equipment	Total
19.	Madurai	2406.92	Incinerator	3300 kg/day
20.	Dindigul	421.24	Autoclave	1600 kg/day
21.	Theni	385	Deep	Nil
22.	Ramanathapuram	230.16	Burial	
23.	Virudhunagar	329.37	Any other	--
			Equipment	Total
24.	Nagapatinam & Tiruvarur	224.17	Incinerator	3300 kg/day
25.	Thanjavur	393.86	Autoclave	2000 kg/day
26.	Trichy	855	Deep	Nil
27.	Ariyalur & Perambalur	194.2	Burial	
28.	Pudukottai	108.17	Any other	--
29.	Sivagangai	153.1		
			Equipment	Total
30.	Vellore, Ranipet & Vaniyambadi	4304	Incinerator	5500 kg/day
			Autoclave	3600 kg/day
			Deep	Nil
			Burial	
31.	Tiruvannamalai	701	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 2020)

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	3500	22300	11320	Incinerator	2	10800 Kg/day	11320	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	435			
								Deep burial pits	570			
								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 Cuddalur District and Villupuram Districts	1794	12950	3780	Incinerator	1	4400 Kg/day	3780	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	1146	11787	5005	Incinerator	1	5500 kg/day	5005	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	2 in Operation		
								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	15-20 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, Tiruarur, Ariyalur & Perambalur	4105	19044	1917.1	Incinerator	1	3300 Kg/day	1917.1	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	7	1 m dia x1.65 m depth each		
								Deep burial pits	--			

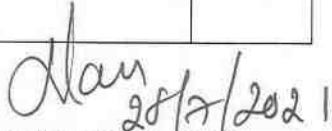
								Any other equipment	--				
								Effluent treatment plant	1	1500 LPD			
								Sub-total					
5	M/s. Ramky Energy & Environment Ltd., Undrimikidikulam, Aruppukottai Taluk, Virudhunagar District. Mr. Mohan 9677122723	9.69 N 79.24 E	250 KM	Madurai Dt. Virudhunagar Dt. Dindigul Dt. Theni Dt. & Govt Hospitals in Ramnad	1633	11650	3663.46	Incinerator	1	3300 Kg/day	3663.46	1. Incineration ash - disposed through TSDF	
								Plasma Pyrolysis	--	--		2. Waste sharps – Sharp pits	
								Autoclave	1	1600 Kg/day		3. Plastics – Disposed through recyclers	
								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.	2417	22000	3077.82	Incinerator	1	4400 Kg/day	3077.82	1. Incineration ash - disposed through TSDF	
								Plasma Pyrolysis				2. Waste sharps – Sharp pits	
								Autoclave	1	2400 Kg/day		3. Plastics – Disposed through recyclers	
								Hydroclave					
								Microwave					
								Shredder	1	4400 kg/day			
								Sharps encapsulation or concrete pit	35	38080 Kg			
								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	950	14000	4000	Incinerator	1	5500 Kg/day	4373 (4000Kg/day- Teknotherm Industries & 373 Kg/day from Kovai Biowaste Management P Ltd)	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		1052	20839	1494.73	Incinerator	1	3300 Kg/day	1494.73	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	1.8 KLD		
Sub-total													
9	Society for Bio Medical Waste Management Ottupattarai Village, Coonoor, (IMA Nilgiris)	--	--	--	--	--	--	Incinerator			The CBMWTF now under closure. All the waste collected were handed over to M/s. Teknotherm Industries, Coimbatore for treatment and disposal		
								Plasma Pyrolysis					
								Autoclave	1	50 kg/day			
								Hydroclave					

	Dr. Muralidharan 9443475946							Microwave					
								Shredder	1	550 kg/day			
								Sharps encapsulation or concrete pit					
								Deep burial pits	1				
								Any other equipment					
								Effluent treatment plant	1				
								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)	250	1123	120.63	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	1	2200 kg/day			
								Hydroclave					
								Microwave					
								Shredder					
								Sharps encapsulation or concrete pit	1				
								Deep burial pits	1				
								Any other equipment					
								Effluent treatment plant					
								Sub-total					
11	M/s.Koval 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	2240	275	373	Incinerator	1	5500 Kg/day		The CBMWTF was under closure for the period Jan 2020 to December 2020. All the wastes collected were handed over to Teknotherm industries. The CBMWTF has been issued with revocation of closure direction vide Board's Proc. dated 25.06.2021.	
								Plasma Pyrolysis					
								Autoclave		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					
								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	138	713	518	Incinerator	1	1100 Kg/day	518	1. Incineration ash - disposed through TSDF 2. Waste sharps - Sharp pits 3. Plastics - Disposed through recyclers	
								Plasma Pyrolysis					
								Autoclave	1	2560 Kg/day			
								Hydroclave					
								Microwave					
								Shredder	1	5500 Kg/day			
								Sharps encapsulation or concrete pit		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	0
c.	Number of trainings organized by the common bio –medical waste treatment facility operators	3005
d.	Number of Accidents reported by the common bio medical waste treatment facilities	0


 For Member Secretary
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 28/7/2021