



TAMILNADU POLLUTION CONTROL BOARD



From
Thiru.R.Vijayabaskaran, ME,M.B.A.,
Member Secretary,
Tamilnadu 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:T4/TNPCB / F-33728/BMWM/ 2020 Dated 28.07.2020

Sir,

Sub : TNPCB – Bio-Medical Waste Management – Annual Report for
the year 2019 – 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 Tamilnadu
State in the prescribed Format of the CPCB (Form-IV A) for the year 2019.

Encl : As above

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28/7/2020

For MEMBER SECRETARY

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28/07/2020



TAMIL NADU POLLUTION CONTROL BOARD

Bio Medical Waste Management

Annual Report – January to December 2019

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 2019)

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	:	23277
I	Bedded hospitals and nursing homes (bedded)	:	6652
ii	Clinics dispensaries	:	11113
iii	Veterinary institutions	:	985
iv	Animal beds	:	517
v	Pathological laboratories	:	1143
vi	Blood banks	:	45
vii	Clinical establishment	:	2408
viii	Research Institutions	:	26
ix	AYUSH	:	388
4	Total No.of beds	:	179190
5	Status of authorization	:	
i	Total number of occupiers applied for authorization	:	21342
ii	Total number of occupiers granted authorization	:	21071 **
iii	Total number of application under consideration	:	208
iv	Total number of applications rejected	:	63
v	Total number of occupiers in operation without applying for authorisation	:	1935

** As on date, 21584 HCFs have been issued with Authorisation

6	Quantity of Bio Medical Waste generation (in kg/day)	:	58272
i	Bio-medical waste generation by bedded hospitals (in kg/day)	:	49701
ii	Bio-medical waste generation by non-bedded hospitals (in kg/day)	:	8571
iii	Any other	:	--
	Total	:	58272 kg/day
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	:	8 are in operation (Out of 11 Common Facilities 8 are in operation. For three facilities TNPCB issued closure direction for non compliance of consent order conditions & BMWM Rules, 2016)
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)	:	58272
8	Total No.of violation by	:	
i	Health Care facilities (bedded and non-bedded)	:	350
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	:	342
10	Any other relevant information	:	
I	No.of workshop/trainings conducted during the year	:	87
ii	No.of occupiers installed liquid waste treatment facility	:	4454 and Other Occupiers discharges the effluent after disinfection with Sodium Hypochlorite solution
iii	No.of captive incinerators complying to the norms	:	Nil
iv	No.of occupiers organized trainings	:	719
v	No.of occupiers constituted BMWM Committees	:	422
vi	No.of occupiers submitted Annual	:	1392

	Report for the previous calendar year		
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	:	8

Part 2 District – wise Bio Medical Waste Generation (for the previous calendar year 2019) - Enclosed

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
				Equipment	Total
1.		Chengalpattu	4832.6	Incinerator	14300 kg/day
2.		Chennai	12000	Autoclave	9344 kg/day
3.		Cuddalore	7560	Deep	
4.		Kancheepuram	1378.934	Burial	
5.		Tiruvallur	635	Any other	
6.		Villupuram	4750		
				Equipment	Total
7.		Coimbatore	3583	Incinerator	5000 kg/D
8.		Tiruppur	1252.44	Autoclave	4000 kg/D
9.		Nilgiris	100	Deep	2 Nos.
				Burial	
				Any other	
				Equipment	Total
10.		Dharmapuri	476.8	Incinerator	3300 kg/Day
11.		Krishnagiri	1104.42	Autoclave	2600 kg/Day
12.		Karur	655.08	Deep	
13.		Erode	379	Burial	

14.	Namakkal	1190.28	Any other	
15.	Salem	400		
			Equipment	Total
16.	Kanyakumari	2500	Incinerator	4400 kg/Day
			Autoclave	2400 kg/Day
17.	Thoothukudi	344	Deep	
			Burial	
18.	Tirunelveli	1641	Any other	
			Equipment	Total
19.	Madurai	2016	Incinerator	3300 kg/day
20.	Dindigul	1135.3	Autoclave	1600 kg/day
21.	Theni	256.5	Deep	
22.	Ramanathapuram	21	Burial	
23.	Virudhunagar	369.5	Any other	
			Equipment	Total
24.	Nagapatinam	324.2	Incinerator	3300 kg/day
25.	Thanjavur & Tiruvarur	2014.52	Autoclave	2000 kg/day
26.	Trichy	850	Deep	
27.	Ariyalur & Perambalur	1088.62	Burial	
28.	Pudukottai	287.613	Any other	
29.	Sivagangai	195		
			Equipment	Total
30.	Vellore	4500	Incinerator	5500 kg/day
			Autoclave	3600 kg/day
			Deep	
31.	Tiruvannamalai	431	Burial	
			Any other	

Note:

- The entire quantity of Biomedical wastes generated is treated and disposed through 8 CBMWTFs presently in operation.

Part 4 information on Common Bio medical waste treatment and disposal facilities (for the previous calendar year 2019)

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	12.74563 9:80.0344 58	80 Kms	Part of Chennai, Chengalpattu Dt	3353	26463	16832.6	Incinerator	2	9900 kg/day	16832.6	1. Incineration Ash disposed through TSDF 2. Sharps disposed in Sharp pits 3. Plastics disposed through Authorised recycler
								Plasma Pyrolysis				
								Autoclave	2	6104 kg/day		
								Hydroclave				
								Microwave				
								Shredder	2	Capacity each of 50 kgs/hr and 100kgs/hr		
								Sharps encapsulation or concrete pit	435			
								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	Chennai (North) Thiruvallur Dt. Cuddalore Dt. Villupuram Dt. Kancheepuram Dt.(Part)	2978	24502	14323.9	Incinerator	1	4400 kg/day	14323.9	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	60 kg/ hr & 80 kg/ hr		
								Sharps encapsulation or concrete pit	4			

									Deep burial pits					
									Any other equipment					
									Effluent treatment plant		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	13.0139° N, 79.1919° E	75 kms	Vellore, Tiruvannamalai, Ranipet, Tirupathur Districts	1360	13069	4931		Incinerator	1	5500 kg/day		4931	1. Incineration ash - disposed through TSDF 2. Waste sharps – Sharp pits 3. Plastics – Disposed through recyclers
									Plasma Pyrolysis					
									Autoclave	1	3600 kg/day			
									Hydroclave					
									Microwave					
									Shredder	2	100-150 kg/hr			
									Sharps encapsulation or concrete pit	4	-			
									Deep burial pits					
									Any other equipment					
									Effluent treatment plant	1	12 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	Nagapattinam, Thanjavur, Trichy, Ariyalur, Perambalur, Thiruvavur, Pudukottai, Sivagangai	3775	26101	4760.27		Incinerator	1	3300 kg/Day		4760.27	1. Incineration ash - disposed through TSDF 2. Waste sharps – Sharp pits 3. Plastics – Disposed through recyclers
									Plasma Pyrolysis	--				
									Autoclave	1	2000 kg/Day			
									Hydroclave					
									Microwave					
									Shredder	1	50 kg/hr			
									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	350 Km	Madurai Dt. Virudhunagar Dt. Dindigul Dt. Theni Dt. & Govt Hospitals in Ramnad	2558	20457	3777.3	Incinerator	1	3300 kg/Day	3777.3	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	100 kg/hr & 75 kg/hr		
								Sharps encapsulation or concrete pit	2	--		
								Deep burial pits	--	--		
								Any other equipment	--	--		
								Effluent treatment plant	1	7 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.	1901	20639	4485	Incinerator	1	4400 kg/day	4485	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	200 kg/hr		
								Sharps encapsulation or concrete pit	35			
								Deep burial pits				
								Any other equipment				
								Effluent treatment plant	1	16 KLD		
								Sub-total				

7	M/s. Teknotherm Industries, 183/1A, Orattukupai Village., Chettipalayam Village., Podanur, Coimbatore. Mr. Sudhakar 9626822000		75 Kms	Coimbatore, & Tiruppur Districts	2518	19560	3043.94	Incinerator	1	5000 kg/D	3043.94	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	100kgs/hr		
								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	4380	24686	4205.59	Incinerator	1	3300 kg/day	4205.59	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	50 Kg/ hr and 100 Kg/hr		
								Sharps encapsulation or concrete pit	1	-		
								Deep burial pits	-			
								Any other equipment	-			
								Effluent treatment plant	1	1800 Ltrs/ day		
Sub-total												
9	Society for Bio Medical Waste Management Ottupattarai Village, Coonoor, (IMA Nilgiris)		75 Kms	Nilgiris District	184	1146	50	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/D		
								Hydroclave				

	Dr. Muralidharan 9443475946								Microwave				
									Shredder	1	25 kg/hr		
									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)	65	864	21		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	100 kg/hr (1600 kg/Day)		
									Hydroclave				
									Microwave				
									Shredder				
									Sharps encapsulation or concrete pit	1			
									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		1068	Tiruppur, Coimbatore & Nilgiris Districts	205	1703	1841.5		Incinerator	1	5000 kg/Day		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		5000 kg/Day		
									Hydroclave				
									Microwave				
									Shredder	1	100 kg/hr		
									Sharps encapsulation or	1			

								concrete pit			
								Deep burial pits			
								Any other equipment			
								Effluent treatment plant			
								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	100
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	2984
d.	Number of Accidents reported by the common bio medical waste treatment facilities	0


 For Member Secretary
