

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

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

For Member Secretary

No. 76, MOUNT SALAI, GUINDY, CHENNAI - 600 032. Tel: 044-22353134 - 139 Fax: 044-22353068

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TAMIL NADU POLLUTION CONTROL BOARD Bio Medical Waste Management

<u>Annual Report – January to December 2023</u> <u>FORMAT – IV A</u>

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 2023)

Part -I (summary of Information)

1	Name of the organization	÷	Tamil Nadu Pollution Control Board
2	Name of the Nodal Officer with contact telephone number and e-mail	• •	Er.K.Nalini,M.E, M.B.A, Joint Chief Environmental Engineer, 80560 42209 Jcee5chn@tnpcb.gov.in
3	Total No.of health care facilities/occupiers	·	30230
1	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	Total No.of beds	•	204717
5	Status of authorization	:	
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	Quantity of Bio Medical Waste generation (in kg/day)	:	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
	Total	:	
7	Bio-medical waste treatment and disposal	:	

	treatment and disposal by		
	Health Care Facilities		
i	Number of Health care facilities		Nil
	having captive treatment and		
li	disposal facilities Total bio medical waste treated		Nil
11	and disposed by captive	ŀ	NII
	treatment facilities in kg/day		
(b)	Bio Medical Waste		
	treatment& disposed by		
	CBMW facility as per Part- 4)		The second second second plan second
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 provisons of BMWM 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 Dect 2023) for treatment and disposal).
ii	No.of CBMW treatment		1
	facilities under construction	•	
iii	Total bio-medical waste treated in kg/day	•	59261.04
iv	Total treatedbio-medical waste disposed through authorized recyclers (in kg/day)	:	
8	Total No.of violation by		
j	Health Care facilities (bedded and non-bedded)	i	Nil
ii	CBMW Treatment facilities	:	Nil
iii	Others (Please specify)	:	Nil
9	Show cause notice/direction	:	Nil
¥	issued to defaulter		NIII
i ii	CBMW treatment facilities Others	:	Nil
10	Any other relevant		IVII
10	information	•	
I	No.of workshop/trainings conducted during the year		234
II.	No.of occupiers installed liquid waste treatment facility		 6248 Nos and other Occupiers Discharge the effluent into public sewer after disinfection with sodium hypochloride solution/ UV sterilizer. Discharge the effluent into combined STP after disinfection with sodium hypochloride solution/ UV sterilizer. Discharge the effluent on land after disinfection with sodium hypochloride solution/ UV sterilizer.
iii	No.of captive incinerators	•	NIL
	No.01 captive incinerators	•	IVIL

	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 biotechnology 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

S.No	Name of the State/ Union territory	Name of the District	Bio- medical Waste Generatio n (in kg/day)		I bio-medical waste pacity (both captive) in kg/day
	Tamil	141	quid	Equipment	Total
1.	Nadu	Chengalpattu	3707	Incinerator	25300 kg/day
2.		Chennai , Chennai south ,Ambattur	15763.23	Autoclave	13800 kg/day
3.		Cuddalore	1461	Deep	Nil
4.	^	Kancheepuram	2221.9	Burial	
5.	, brogu	Tiruvallur & Gummidipoondi	2048.54	Any other	
6.		Villupuram	882.05		
				Equipment	Total
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	
		14		Equipment	Total
10.		Dharmapuri	485.51	Incinerator	8100 kg/Day
11.]	Krishnagiri	375	Autoclave	7100 kg/Day
12.		Karur	349	Deep	¥
13.		Erode & Perundurai	802.39	Burial	Nil
14.		Namakkal	211.83	Any other	
15.		Salem & Kumarapalayam	813		
		*		Equipment	Total
16.		Kanyakumari	1874	Incinerator	4400 kg/Day
] -	, torry circums		Autoclave	2400 kg/Day
17	,	Thoothukudi	790	Deep Burial	Nil
18		Tirunelveli	1622	Any other	
				Equipment	Total
19	-1	Madurai	2108	Incinerator	3300 kg/day
20		Dindigul	659	Autoclave	1600 kg/day
21	-	Theni	386	Deep	Nil
22		Ramanathapura m	283.56	Burial	
23	-	Virudhunagar	486	Any other	-
				Equipment	Total
24		Nagapatinam & Tiruvarur	458	Incinerator	3300 kg/day
25		Thanjavur	835	Autoclave	2000 kg/day
26		Trichy	1225	Deep	Nil

		Perambalur		mast, metric	mand the mail
28.		Pudukottai	392	Any other	grand the same again
29.	9	Sivagangai	475	object 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Land of the second
				Equipment	Total
		Vallere Peninet	- FLP	Incinerator	5300 kg/day
30.		Vellore, Ranipet & Vaniyambadi	5564	Autoclave	3600 kg/day
		& variiyariibadi		Deep	Nil
				Burial	planeters of the second
31.		Tiruvannamalai	523	Any other	I Fundad

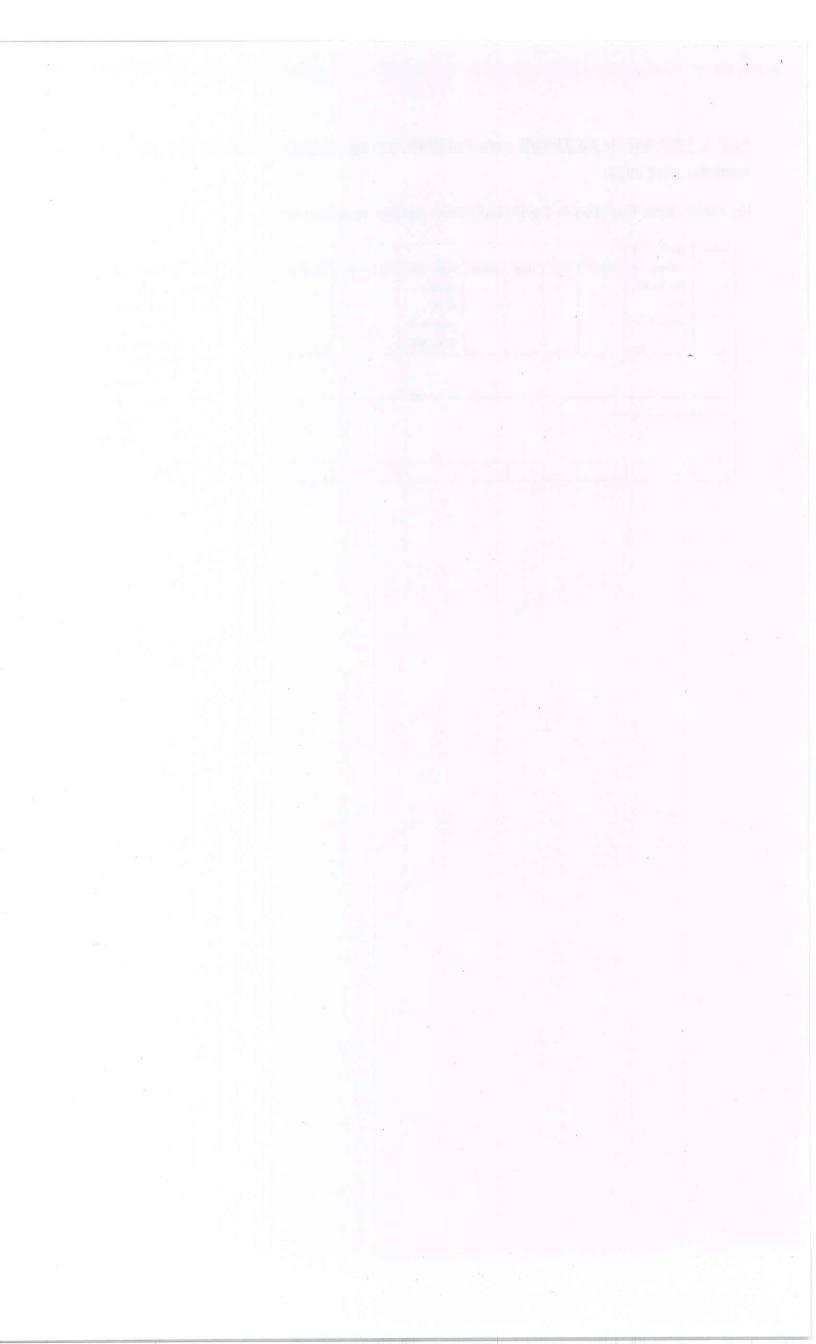
Note:

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

Part 3 Information on Health care facilities having captive treatment (for the previous calendar year 2023)

No Health Care Facilities in Tamil Nadu have captive treatment facility

S.No	Name and address of	Yellow	Red	Blue	White	Total bio-	Incinerator	Autoclave	Deep	Any	Total bio-medical
	the Health care facility		1,00	Bide	Time.	medical waste generated (in kg/day	monerator	Autociave	Burial	other	Waste treated and disposed by Health care facilities in kg/day
						NIL -					IncineratorAutoclave Deepburialany other
											total



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

Authorised recycler		80	2	Shredder				Parts of Cuddalor				
3. Plastics disposed through				Microwave				District,			Mobile No:904/011161	
				Hydroclave			34	Taluk of			Mr.Sridhar Reddy	
2. Waste sharps – Sharp pits		3000 Kg/day	_	Autoclave		d	Ŋ.	Maduranthagam			Chengalpattu Dist.	
				Pyrolysis				Thiruvallur			Road, Kinar village,	
through TSDF				Plasma				Kancheepuram District		79.954009	Management ltd, S.F	
1. Incineration Ash disposed	5610	4500 Kg/day	1	Incinerator	5610		4149 18962		105	12.529987°	M/s.Tamilnadu waste	2
				Sub-total								
				treatment plant								
		25 KLD	-	Effluent								
				equipment								
				Any other								
				Deep burial pits								
				concrete pit								Į,
				encapsulation or								
			602	Sharps								
		6000 kg/day	2	Shredder								
thorised recycler				Microwave								
3. Plastics disposed through				Hydroclave							Mobile No: 98409196971	
1		8000 Kg/day	2	Autoclave				District			? .	
2 Waste sharps - Sharp pits				Pyrolysis	7			Kancheepuram			Chengalpattu Taluk, Chengalpattu District.	
				Plasma				Chennai District.			Thenmelpakkam,	
Incineration Ash disposed through TSDF	15057	9900 Kg/day	22	Incinerator	15057	-	5049 24882	Chengalpattu District, Parts of	80	12.744490° 80.033245°	M/s. G.J Multiclave (India) Pvt Ltd.	_
					kg/day)		covered					
		(kg/day)			facilities (in		Being					
		capacity			Health care		facilities				and telephone number	
		Total installed	Numbers	Equipment	from member		care covered	CBMWTFs			with contact person name	
/plastics)	Kg/day				waste Collected		of Health beds	coveredby	KMs		Waste treatment facilities	
- 2	waste treated in	nent facilities	al waste treatr	common bio medical waste treatment facilities	bio-medical	으	number number	cities/ areas r	Area in	coordinates	common bio Medical	o
Michiga of disposal of licated	Total Dio Hibaroa	Citio moranos 2)	mone equipm	Capacity of a camicine odalpinotico moramore	Total qualitity of		Iotal	Name of the	coverage	GPO	Name and Address of the	Š

				¥1					1. Incineration ash - disposed	through TSDF		2. Waste sharps – Sharp pits		S. Plastics - Disposed through	פכאכופוא													1. Incineration ash - disposed	through TSDF
									7722.869																			6536.625	
						10 KLD			5500 kg/day			2240Kg/day			2200-3300 kg/day		3 in Operation			ETP for liquid waste streams	coming along	with the wastes mixed along	with plant effluent and	treated 12 KLD	Granden Cr	12 KLD		3300 Kg/day	
2						_			-			-			2		80			-						-		-	1
Sharps	encapsulation or	concrete pit	Deep burial pits	Any other	equipment	Effluent	treatment plant	Sub-total	Incinerator	Plasma	Pyrolysis	Autoclave	Hydroclave	Microwave	Shredder	Sharps	encapsulation or	concrete pit	Deep burial pits	Any other	nibilidinba				Effluent	treatment plant	Sub-total	Incinerator	Plasma
									7722.869																			6536.625	
									9025																4			31153	
	+1						12.		848		12				(9)(4357	
District and	Districts								Vellore, Tiruvannamalai.	Ranipet,	l irupathur Districts																	Thanjavur, Trichy,	Pudukottai, Sivagangai,
									75	× 4																-		140	
				17			NY:		13.001681 N° 79.194363 E°																			10.7141° N	/&.955/ E
									M/s. Ken Biolinks Pvt Ltd,	1/150, SLRS Hospital	Koad, Kandipedu Village,	Katpadi Taluk,		Mr. SHIVA	+91-99623-11011													M/s. Medicare Enviro	System, Sengipatti Village,
									က						N													4	

	6														T			O													
Medical Waste	M/s. Aseptic System Bio												9677122723	Mr Mohan	Virudhunagar District.	Aruppukottai Taluk.	Emvironment Ltd.,	M/s. Ramky Energy &						,	i de			~	9600288998	Mr. K.Velmurugan,	Thanjavur Dt.
8.47752° E	77.73575° N																79.24 E	9.69 N													
	100																	250													
Tuticorin Dt.	Tirunelveli Dt.													Ramnad	Hospitals in	Theni Dt. & Govt	Virudhunagar Dt.	Madurai Dt.				j:		,				35			Tiruvarur, Ariyalur & Perambalur
	3316				Ì		i	3			İ		ŀ	1				2961					b								5,
	23459			4														26810						SF .	2						
6	4161					3												3747.84													
Diasma	Incinerator	Sub-total	treatment plant	Effluent	equipment	Any other	Deep burial pits	concrete pit	encapsulation or	Sharps		Shredder	Microwave	Hydroclave	Autoclave	Pyrolysis	Plasma	Incinerator	Sub-total	treatment plant	Effluent	equipment	Any other	Deep burial pits	concrete pit	encapsulation or	Sharps	Shredder	Microwave	Hydroclave	Autoclave
	_			_		1	1			2		2			_		ı	_			_		1	-		12		-			ے
	4400 Kg/day			7 KLD		-	ł			-	kg/day	2200 & 1650			1600 Kg/day		1	3300 Kg/day			1500 LPD					100		1100 kg/day			2000 Kg/day
	4161																	3747.84													-
through TSDF	1. Incineration ash - disposed				12							recyclers	3. Plastics - Disposed through		2. Waste sharps – Sharp pits		through TSDF	1. Incineration ash - disposed	¥.					1 (40)	10			recyclers	3. Plastics - Disposed through		2. Waste sharps - Sharp pits

			nanyakumari Dt.				Pyrolysis				
Pappankulam Village,			& Tenkasi Dt.				Autoclave	-	2400 Kg/day		2. Waste sharps - Sharp pits
Tirunelveli District.							Hydroclave				
							Microwave				3. Plastics - Disposed through
Mr. Murugan 7373715180							Shredder	-	4400 kg/day	18'	recyclers
						0	Sharps	42			
							encapsulation or				
							concrete pit				
,							Deep burial nits				
					,		Any other				
		ı		į			equipment				
							Effluent	-	15 KLD		
							treatment plant				
							Sub-total				
M/s.Teknotherm		75	Coimbatore, &	1115	24345	10313.035	Incinerator	-	5500 Kg/day	10313.035	1. Incineration ash - disposed
Industries, 183/1A,			Tiruppur Districts				Plasma	ı	ı		through TSDF
Orattukupai Village.,	15.0						Pyrolysis				
Chettipalayam Village.,	R						Autoclave	-	4000 Kg/day		2. Waste sharps – Sharp pits
Podanur, Coimbatore.		4					Hydroclave	1	ī		
							Microwave	1	1		3. Plastics - Disposed through
Mr. Sudhakar				2			Shredder	٢	2200 kg/day		recyclers
9626822000							Sharps	-	ı		
							encapsulation or				
							concrete pit				
							Deep burial pits		,		
		3					Any other	-	Chemical		
							equipment		disinfectant 2 Tons/day		
							Effluent	-	25 KLD		
							treatment plant				
							Sub-total				
M/s.Ramky Energy And	11.552937,	100	Salem	3127	25810	2093	Incinerator	1	3300 Kg/day	2093	1. Incineration ash - disposed
Environment Ltd,	77.850794		Namakkal	Ì			Plasma				through TSDE

collected were handed over to M/s Resustainability	colle			Plasma	1		000	The state of the s		78°40'37.8"E	Service Squad,	ō
The CBMWTF now under closure. All the waste	The	'		Incinerator	174.72 Ka/dav	1382	359	Ramanathapuram	150	9°26'08.5"N	M/s Neat and Clean	ô
				Sub-total								
				treatment plant								
				Effluent								
				equipment	5							
				Any other								
		i		Deep burial pits								
				concrete pit		52						
				encapsulation or			į					
		1	-	Sharps			1					
				Shredder								
			9	Microwave							9443475946	
				Hydroclave							Dr. Muralidharan	
osal	disposal		·	Autoclave							(IMA Nilgiris)	
Management P Ltd., Coimbatore for treatment and	Man			Pyrolysis			į				Coonoor.	
collected were handed over to M/s. Kovai Bio Waste	colle			Plasma							Waste Management	
CBMWTF now under closure. All the waste	The			Incinerator	223.46	2363	399		I	ľ	Society for Bio Medical	9
				Sub-total								
		72		treatment plant								
	Ö	1.8 KLD	_	Effluent								
				equipment								
			10	Any other								
				Deep burial pits		1.8				3		
				concrete pit						11		
			D.	encapsulation or								
		•	2	Sharps								
	Υ 0	Kg/day										
iec)/cieis	day	1100 Kg/ day	2	Shredder						ě	Ph:9840939811,	
3. Plastics – Disposed through			r	Microwave							M.D.Selvapandian,	
			r	Hydroclave							Carcini	
2. Waste sharps – Sharp pits	day	2600 Kg/day	_	Autoclave				Erode			Edappadi Taluk, Salem-Dist	
				Pyrolysis				Karur			No:10, Thangayur Village,	

The state of the s							Pyrolysis			Health Care Ltd, VI	nealli Cale Liu, Viiuuliulayai (Jaii 2023), Asepiic
Ramanathapuram							Autoclave	1	1	Thirunelveli (Feb 202	Systems Bio Medical Management Company, Thirunelveli (Feb 2023) and Medicare Enviro Systems,
District							Hydroclave			Thanjavur(Mar to Dec	Thanjavur(Mar to Dect 2023) for treatment and disposal
Mr. Pathy							Microwave	,	4		
8220013008	34				*		Shredder				
1							Sharps		1	0	
							encapsulation or				
							concrete pit				
							Deep burial pits				
							Any other				
							equipment				
						:7	Effluent				
							treatment plant				
						2	Sub-total				
11 M/s.Kovai Bio Waste	15	150	Tiruppur,	2329	3624	1301.551	Incinerator	-	5500 Kg/day	1301.551	1. Incineration ash - disposed
Management P Ltd.,	Long: 77.046635		Coimbatore &				Plasma				through TSDF
Village., Chettipalayam			Migris Districts				Pyrolysis				
Village., Podanur,	1			1			Autoclave		4400 Kg/day		2. Waste sharps – Sharp pits
Coimbatore.							Hydroclave				
Tmt. Bhuvaneswari							Microwave				3. Plastics – Disposed through
9894012222							Shredder	-	2200 kg/day		ופראסופו א
							Sharps	1			
							encapsulation or				
	i						concrete pit				
							Deep burial pits	g.			
		1 *					Any other				
							equipment				
							Effluent				
				3.			treatment plant				
				ì			Sub-total				
12 M/s. Pondicherry Solid	+	75	Cuddalore,	922	5047	1632.655	Incinerator	-	10000 Kg/day	1632.655	1. Incineration ash - disposed
Waste Management	Long:79.196589		Villupuram,				Plasma			ji Es	through TSDF

ಪ	13															
Pudaiyur village, Virudhachalam Taluk, Cinddalore District Cuddalore District	M/s. Tamil Nadu waste management limited Unit 3, S.F. No. Plot	/SF No. 726 (Part), BALETHOTTAM village,	Pochampalli Taluk and Krishnagiri District													
12.3093857, 78.4025276	12.3093857, 78.4025276	н _ П														
150	150															
Dharmapuri, Krishnagiri	Dharmapuri, Krishnagiri District															
1299	1299			9										Ī		
7855	7855															
	862	_	4						_							
862																
		Plasma Autocla	Hydroc Microw	Shredd Sharps	Encaps	Deep b	Any oth	Effluent	Treatm	Sub-tot	Any oth	equipm	equipm	Effluent	Treatm	O. L. Country
		Plasma Paralysis Autoclave	Hydroclave Microwave	Shredded Sharps	Encapsulation or concrete pit	Deep burial pits	Any other	equipment	Treatment Plant	Sub-total	Any other	equipment	equipment	Effluent	Treatment Plant	O to the latest and t
Hydroclave Microwave Shredder Sharps encapsulatic concrete pit Deep burial Any equipment Effluent treatment pl Sub-total Equip ment	Equip ment	Plasma Paralysis - Autoclave 1	Hydroclave -	Shredded 1 Sharps 3	Encapsulation or concrete pit	Deep burial pits -	Any other -	equipment 1	nt Plant	Sub-total	Any other			Effluent	nt Plant	O to the same
Hydroclave Microwave Shredder Sharps encapsulation or concrete pit Deep burial pits Any other equipment Effluent Treatment plant Sub-total Num ment Num bers	Equip Num bers	٠,	, ,	3 -1	Encapsulation or 7000kg/Each concrete pit one	pits			nt Plant	Sub-total Sub-total				!	nt Plant	
Hydroclave Microwave Shredder Sharps encapsulation or concrete pit Deep burial pits Any other equipment Effluent T treatment plant Sub-total Num ment Num bers	Equip Num Total installed ment bers capacity (kg/day	٠,	, ,	3 1	on or	pits -			nt Plant	Sub-total	1			,	nt Plant	D. I. Jakin Bark

œ.	 a. Total number of transportation vehicle used for collection of bio-medical waste on daily basis by the common bio- 295 medical waste treatment facilities 	29
Ö.	b. List of health care facilities not having membership with the common bio-medical waste treatment facilities and Nil neither having captive treatment facilities	Ē
Ö	c. Number of trainings organized by the common bio -medical waste treatment facility operators	501
0	d. Number of Accidents reported by the common bio medical waste-treatment facilities	Ē

For Member Secretary