

Form IV A

(See rule 13(2))

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 31th July of every year for the period from January to December of the preceding calendar year.

(1) Name of the Organisation : KERALA STATE POLLUTION CONTROL BOARD

(2) Name of the Nodal Officer with contact telephone number and e-mail : SUMITHRA S., ENVIRONMENTAL ENGINEER,
9447975704, rulespcb@gmail.com

(3) Total no. of Health Care Facilities / Occupiers : 12668

(i) Bedded Hospitals and Nursing Homes (bedded) : 2307

(ii) Clinics, dispensaries : 6636

(iii) Veterinary Institutions : 257

(iv) Animal houses : 2

(v) Pathological Laboratories : 1752

(vi) Blood banks : 24

(vii) Clinical establishment : 1422

(viii) Research Institutions : 12

(ix) AYUSH : 256

(4) Total no. of beds : 102090

(5) Status of authorisation :

(i) Total number of Occupiers applied for authorisation : 6940

(ii) Total number of Occupiers granted authorisation : 6752

(iii) Total number of application under consideration : 110

(iv) Total number of applications rejected : 78

(v) Total number of Occupiers in operation without applying for authorisation : 539

(6) Quantity of Bio-medical Waste Generation (in kg/day) : 7867.89

(Please enclose District Wise Bio-medical Waste Generation as per Part – 2)

(i) Bio-medical waste generation by bedded hospitals (in kg/day) : 34890.032

(ii) Bio-medical waste generation by non-bedded hospitals (in kg/day) : 6271.785

(iii)Any other	: 124.72
Total	: 41, 286.537 kg/day

(7) Bio-medical waste treatment and disposal :

(a)By Captive bio-medical waste treatment and disposal by Health Care Facilities (please enclosed details as per (Part – 3)	: 0
(i) Number of Health Care Facilities having captive treatment and Disposal facilities	: 23
(ii) Total Bio-medical waste treated and disposed by captive treatment facilities in kg/day	: 3007.05
(b) Bio-medical waste treatment and disposal by Common Bio-medical waste Treatment Facilities (please enclose details as per Part 4)	
(i) Number of Common Bio Medical Waste Treatment Facilities in Operation	: 1
(ii) Number of Common Bio Medical Waste Treatment Facilities under construction	: 0
(iii) Total bio-medical waste treated in kg/day	: 37128
(iv) Total treated bio-medical waste disposed through authorised recyclers (in kg/day)	: 138895.7

(8) Total no. of violation by

(i) Health Care Facilities (bedded and non-bedded)	: 65
(ii) Common Bio Medical Waste Treatment Facilities	: 0
(iii) Others (please specify)	: 0

(9) Show cause notice / direction issued to defaulter

(i) Common Bio Medical Waste Treatment Facilities	: 0
(ii) Others	: 109

(10) Any other relevant information

(i) Number of workshops/trainings conducted during the year	: 14
(ii) Number of occupiers installed liquid waste treatment facility	: 5806
(iii) Number of captive incinerators complying to the norms	: 24
(iv) Number of occupiers organized trainings	: 36
(v) Number of occupiers constituted Bio-medical Waste Management Committees	: 6
(vi) Number of occupiers submitted Annual Report for the previous calendar year	: 3114
(vii) Number of occupiers practicing pre-treatment of lab microbiology and Bio-technology waste	: 2320

(viii) Number of Common Bio Medical Waste Treatment Facilities that have installed Continuous Online Emission Monitoring Systems

: 1

Part 2: District – wise Bio-medical Waste Generation (for the previous calendar year 2017)

Sl. No	Name of the State/ Union Territory	Name of the State/Union Territory	Bio-medical Waste Generation (in Kg/day)	Existing Total bio-medical Waste Treatment capacity both captive and CBMWTF) kg/day	
				Equipment	Total
				Incinerator (5 Nos)	7162.8
				Autoclave (5 Nos)	2596.8
				Deep Burial	191.5
				Any other	2911.2
	KSPCB	KERALA	21197.49		

Part 3 : Information on Health Care Facilities having captive treatment facilities (for the previous calendar Year 2017)

S I · N o	District	Name and address of the Health Care Facility	Quantity of Bio-medical Waste Generation (in kg/day)					Total Installed Treatment Capacity in kg/day				Total bio-medical treated and disposed by Health Care Facilities in Kg/day
			Yellow	Red	Blue	White	Total Bio-medical waste generated (in Kg/day)	Incinerator	Autoclave	Deep burial	Any other	
1	Trivandrum	Gokulam Medical College					302	100 kg/hour				Incinerator: 265 Autoclave:30 Deep Burial:7 Any other Total: 302

Sl. No	District	Name and address of the Health Care Facility	Quantity of Bio-medical Waste Generation (in kg/day)					Total Installed Treatment Capacity in kg/day				Total bio-medical treated and disposed by Health Care Facilities in Kg/day
			Yellow	Red	Blue	White	Total Bio-medical waste generated (in Kg/day)	Incinerator	Autoclave	Deep burial	Any other	
4.	Idukki	Morning star Hospital Adimali	20.32	1.02		10.78	32.12 kg/day					Incinerator:
												20.32
												Autoclave:
												11.8
												Deep Burial:
												Any other
												Total:
												32.12

Sl. No	District	Name and address of the Health Care Facility	Quantity of Bio-medical Waste Generation (in kg/day)					Total Installed Treatment Capacity in kg/day				Total bio-medical treated and disposed by Health Care Facilities in Kg/day
			Yellow	Red	Blue	White	Total Bio-medical waste generated (in Kg/day)	Incinerator	Autoclave	Deep burial	Any other	
5.	Ernakulam DO-1	Amritha Institute of Medical Science	356.16	476.16	54.5	9.86	896.68	100 kg/day	1000 L	Shredder		Incinerator:
								2 Nos.	2 Nos	10-20 kg/hr Concrete Pit- 0.75m ³		Autoclave:
												Deep Burial:
												Any other
												Total:

S. No		Name and address of the Health Care Facility	Quantity of Bio-medical Waste Generation (in kg/day)					Total Installed Treatment Capacity in kg/day				Total bio-medical treated and disposed by Health Care Facilities in Kg/day
			Yellow	Red	Blue	White	Total Bio-medical waste generated (in Kg/day)	Incinerator	Autoclave	Deep burial	Any other	
14	Thrissur	Amala Cancer Hospital & Research Centre Amalana gar Thrissur - 680 555	175	160	75	4	413.5	100 kg/hr	1 No.	1 No.		
15		Jubilee Mission Medical College, Bishop Alappat Road Jubilee Mission P.O Thrissur - 680 005	224.650	44.38	104.11	83.83	456.97	25 kg/hr	1 No.	1 No.		
16		St.James Hospital, Chalaku dy- 680308	43.08	48.25	13.66	0.76	105.75	150 kg/hr	1 No.	1 No.		
17		Maria Theresa Hospital, Kuzhikk attussery , Thrissur - 680 683	33.33	37.5	5	12.5	83.33	25 kg/hr	1 No.	1 No.		
18		St.Joseph's Hospital, Choonda l, Thrissur - 680 502	2.96	3.2	0.49	0.49	7.14	75kg/hr	1 No.	1 No.		

Part 4: Information on Common Bio-Medical Waste Treatment and Disposal Facilities (for the previous calendar Year 2018)

Sl 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 cites/areas covered by Common Bio-Medical Waste Treatment Facilities	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/Plastic)
								Equipment	Numbers	Total installed capacity (kg/day)		
1.	IMAGE Manthuruthi , Kanjikode West , Palakkad	Latitude-10° 48'54" N Longitude -76° 43'34" E	100000 m ²	Thiruvananthapuram, Kollam, Pathanamthitta, Alappuzha, Kottayam, Idukki, Ernakulam, Thrissur, Palakkad, Kozhikode, Malappuram, Kannur, Wayanad, Kasaragod	13386	93282	36700	Incinerator	5	33000	19440	Incineration Ash : Quantity : Disposed By KEIL (TSDF)
								Plasma Paralysis	Nil	Nil	Nil	Sharps Quantity Disposed by Authorised Recyclers
								Autoclave	5	15000	11990	Plastics Quantity Disposed By Authorised Recyclers
								Hydroclave	Nil	Nil	Nil	ETP sludge quantity - 116.1 T/Annum Disposed by KEIL (TSDF)
								Micro wave	Nil	Nil	Nil	
								Shredder	3	15000	Nil	
								Sharps Encapsulation or concrete pit	1	NA	4723	
								Deep burial pits	1	NA	525	
								Any Other equipment	Nil	Nil	Nil	
								Effluent Treatment plant	1	450	450	
								Sub-total	16	63450	37128	

- (a) Total number of transportation vehicles used for collection of Bio-medical Waste on daily basis by the Common Bio-Medical Waste Treatment Facilities : 54
- (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 training organized by the Common Bio-Medical Waste Treatment Facility operators :6774
- (d) Number of Accidents reported by the Common Bio Medical Waste Treatment Facilities :Nil