## 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 31<sup>th</sup> July of every year for the period from January to December of the preceding calendar year.

	preceding calendar year.		
(1). Name of the Organisation		: KERALA STATE PO	DLLUTION CONTROL BOARD
(2) Name of the Nodal Officer with contact telephor	e number and e-mail	: SUMITHRA S., EN	VIRONMENTAL ENGINEER,
		9447975704, <u>rule</u>	espcb@gmail.com
(3) Total no. of Health Care Facilities / Occupiers		: 12668	
(i) Bedded Hospitals and Nursing Homes (b	edded)	: 2307	
(ii) Clinics, dispensaries		: 6636	
(iii) Veterinary Institutions		: 257	
(iv) Animal houses		: 2	
(v) Pathological Laboratories	1 1 8	: 1752	· ·
(vi) Blood banks	en e	: 24	<b>.</b>
(vii) Clinical establishment		: 1422	* 1
(viii) Research Institutions		: 12	
(ix) AYUSH		: 256	
(4) Total no. of beds		: 102090	
(5) Status of authorisation:			
(i) Total number of Occupiers applied for a	uthorisation	: 6940	
(ii) Total number of Occupiers granted aut	horisation	: 6752	
(iii) Total number of application under cons	sideration	: 110	
(iv) Total number of applications rejected		: 78	
(v) Total number of Occupiers in operation	without applying for authorisation	on : 539	
(6) Quantity of Bio-medical Waste Generation (in kg	/day)	: 7867.89	
(Please enclose District Wise Bio-medical Waste Gen	eration as per Part – 2)		
(i)Bio-medical waste generation by bedded	hospitals (in kg/day)	: 34890.032	

: 6271.785

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

(iii)Any	other (
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: 124.72

Total

: 41, 286.537 kg/day

				, 200,000 , 1,00	,
(7) Bio-m	edical waste	treatment and dispo	sal:		
		e bio-medical waste nclosed details as pe	treatment and disposal by Health Ca	are Facilities	:0
			are Facilities having captive treatme	nt and Disposal facilities	: 23
	(ii) Total Bio	medical waste treat	ed and disposed by captive treatme	nt facilities in kg/day	: 3007.05
		cal waste treatment enclose details as pe	and disposal by Common Bio-medic er Part 4)	cal waste Treatment Facilities	i i i i i i i i i i i i i i i i i i i
	(i)	Number of Commor	n Bio Medical Waste Treatment Facil	lities in Operation	:1
	(ii)	Number of Commo	n Bio Medical Waste Treatment Faci	ilities under construction	:0
	(iii	) Total bio-medical v	vaste treated in kg/day		: 37128
e Herrie	(iv	Total treated bio-m	nedical waste disposed through auth	orised recyclers (in kg/day)	: 138895.7
(8) Total	no. of violation	on by			
	(i) Health Ca	re Facilities (bedded	and non-bedded)		: 65
	(ii) Common	Bio Medical Waste	Treatment Facilities		: 0
	(iii) Others (p	olease specify)			: 0
(9) Show	cause notice	/ direction issued to	defaulter		
	(i) Common	Bio Medical Waste T	reatment Facilities		:0
	(ii) Others				: 109
(10) Any	other relevan	t information			
	(i) Number o	f workshops/trainin	gs conducted during the year		: 14
	(ii) Number o	of occupiers installed	d liquid waste treatment facility		: 5806
	(iii) Number	of captive incinerato	ors complying to the norms		: 24
	(iv) Number	of occupiers organiz	ed trainings		: 36
	(v) Number o	of occupiers constitu	rted Bio-medical Waste Managemen	nt Committees	: 6
	(vi) Number	of occupiers submit	ted Annual Report for the previous o	calendar year	: 3114

(vii) Number of occupiers practicing pre-treatment of lab microbiology and Bio-technology waste : 2320

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

SI. No	Name of the State/ Union Territory	er vi	Name of the State/Union Territory	Bio-medical Waste Generation (in Kg/day)	Existing Total bio-medica capacity both captive an	
	mical section		ules		Equipment	Total
				1 -0 (mg/s/dj) (mg/s	Incinerator (5 Nos)	7162.8
					Autoclave (5 Nos)	2596.8
	Total				Deep	
- 222		1.2			Burial	191.5
177	A STATE OF THE STA			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Any other	2911.2
789.5	KSPCB	100 PM	KERALA	21197.49		

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

S	District	Name and address of	Quar	ntity of B		al Waste ( 'day)	Generation (in	Total Instal	led Treatment	Capacity in kg/	day	Total bio- medical
N o		the Health Care Facility	Yellow	Red	Blue	White	Total Bio- medical waste generated (in Kg/day)	Incinerator	Autoclave	Deep burial	Any oth er	treated and disposed by Health Care Facilities in Kg/day
The many particles of the second of the seco	Trivandru m	Gokulam Medical College					302	100 kg/hour				Incinerator: 265  Autoclave:30  Deep Burial:7  Any other  Total: 302

SI. No	District	Name and	Quant	ity of Bio-	medical W kg/day	aste Gener	ation (in	Total Inst	alled Treatmen kg/day	t Capacity	/ in	Total bio- medical
u 8		address of the Health Care Facility	Yellow	Red	Blue	White	Total Bio- medical waste generat ed (in Kg/day)	Incinerator	Autoclave	Deep burial	Any oth er	treated and disposed by Health Care Facilities in Kg/day
			> ^			= :	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				-	Incinerator:
		**-			Te. No.			2 Ex		1 to	37	Autoclave:
		1		Parties Laborate			Titles Hard	- 8 7 9±		95 x 5	7,	Deep Burial:
2.	Kottayam	TV	2100	1086	779	384	4349	185			24 ma 24 ma 11 ma	Any other
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SI.	District	Name and address of	Quanti	ty of Bio-n	nedical V kg/day	Vaste Gene	ration (in	Total Insta	alled Treatmer kg/day	nt Capacit	y in	Total bio- medical
		the Health Care Facility	Yellow	Red	Blue	White	Total Bio- medical waste generate d (in Kg/day)	Incinerator	Autoclave	Deep burial	Any oth er	treated and disposed by Health Care Facilities in Kg/day
	Idukki	Holy Family Hospital Muthalakod am	116.16	134.93	15.3	6.2	272.59	600 kg/hour	2 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	- 14. - 12. - 14. - 14. - 15. - 15. - 15.		Incinerator:
3.		e ett (						, , , , , , , , , , , , , , , , , , ,	4	E.		Autoclave:156.
	i 	· te										Deep Burial:7
							a'		* 1-1			Any other
		5 5							7			Total: 272.46

SI. No	District	Name and address of	Quanti	ity of Bio	-medical W kg/day	/aste Gene )	ration (in	Total Installed Treatment Capacity in kg/da				Total bio- medical
-	e Fig.	the Health Care Facility	Yellow	Red	Blue	White	Total Bio- medical waste generated (in Kg/day)	Incinerator	Autoclave	Deep burial	Any other	treated and disposed by Health Care Facilities in Kg/day
	ldukki	Morning star Hospital Adimali	20.32	1.02		10.78	32.12 kg/day		· · · · · · · · · · · · · · · · · · ·			Incinerator:
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			1									Burial:
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SI. No	District	Name and	Quan	tity of Bio-r	nedical Wa kg/day)		ration (in	Total Installe	ed Treatment	Capacity in k	g/day	Total bio- medical
		address of the Health Care Facility	Yellow	Red	Blue	White	Total Bio- medical waste generated (in Kg/day)	Incinerator	Autoclave	Deep burial	Any oth er	treated and disposed by Health Care Facilities in Kg/day
5.	Ernakula m DO-1	Amritha Institut e of Medical Science	356.16	476.16	54.5	9.86	896.68	100 kg/day 2 Nos.	1000 L 2 Nos	Shreder  10-20 kg/hr Concrete Pit- 0.75m <sup>3</sup>		Incinerator: Autoclave: Deep Burial:
										2. 15 2. 15	,	Any other  Total:

SI. No	District	Name and address of	Quant	ity of Bio-	medical W kg/day	Vaste Gene	ration (in	Total Inst	alled Treatme kg/day	ent Capacity	' in	Total bio- medical
		the Health Care Facility	Yellow	Red	Blue	White	Total Bio- medical waste generate d (in Kg/day)	Incinerator	Autoclave	Deep burial	Any oth er	treated and disposed by Health Care Facilities in Kg/day
	DO-I Ernakul	LF	146.50	169.25	3.69	9.46	328.9	1.5 Tone	2 Nos with	100m <sup>3</sup>		Incinerator:
	am	Angamali			The Mark		1 5 0 1	= rhiggmanh.	Capacity 810 L each			Autoclave:
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	V 1	· .	2 2.		5 - th	= 1		i	* 4		4.0	Total:

SI. No	District	Name and address of	Quan	tity of B	io-medical \ kg/da		eration (in	Total Inst	alled Treatme kg/day	nt Capacity	in	Total bio- medical
ELC.		the Health Care Facility	Yellow	Red	Blue	White	Total Bio- medical waste generated (in Kg/day)	Incinerator	Autoclave	Deep burial	Any oth er	treated and disposed by Health Care Facilities in Kg/day
7.	Do-2 Ernakula m	St.Joseph Hospital Dharmagiri, Kotamangal am, Ernakulam	12.166	6.3	6.466	0.3633	25.295	kg/hour	Provided capacity not given	Provide d as per BMW Schedul ed		Autoclave: Deep Burial: Any other  Total: 9232.7845

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SI. No	District	and	Quan	tity of Bio-ı	medical kg/da	Waste Gene ay)	ration (in	Total Installed Treatment Capacity in kg/day				Total bio- medical	
The state of the s	address of the Health Care Facility  Do-2 Nirmala Ernakul Medical	of the Health Care Facility	Yellow	Red	Blue	White	Total Bio- medical waste generated (in Kg/day)	Incinerator	Autoclave	Deep burial	Any oth er	treated and disposed by Health Care Facilities in Kg/day	
	Do-2 Ernakul am	Nirmala Medical Centre,	12.23	4.054	1.59	1.12	18.994	13.8	1.7	Provided as per BMW		Incinerator:	
		Moovatt upuzha			5 30		Charles of the second of the s	2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -		Scheduled		Autoclave:	
8.				The second	8			, 10 - 12 - 12 - 12 - 12 - 12 - 12 - 12 -	Tenan Caracina		Lead $\widetilde{V}_{ij}$	Deep Burial:	
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SI. No	District	Name and address of		ty of Bio	-medical kg/d		neration (in	Total Insta	alled Treatme kg/day	nt Capacit	y in	Total bio- medical
	**************************************	the Health Care Facility	Yellow	Red	Blue	White	Total Bio- medical waste generated (in Kg/day)	Incinerator	Autoclave	Deep burial	Any oth er	treated and disposed by Health Care Facilities in Kg/day
9.	Do-2 Ernakul am	Samaritan Hospital, Kizhkkam balam	7.333	25.66	7.5	1.23	41.723	100 kg/hour	20. L	Provid ed as per BMW Sched uled		Incinerator: Autoclave: Deep Burial: Any other Total:

SI. No	District	Name and address of			medical kg/d	ay)	neration (in	Total Install	ed Treatment	Capacity in kg	/day	Total bio- medical
1		the Health Care Facility	Yellow	Red	Blue	White	Total Bio- medical waste generate d (in Kg/day)	Incinerator	Autoclave	Deep burial	Any oth er	treated and disposed by Health Care Facilities in Kg/day
¥ = =	Do-2 Ernakul am	Sanjo Hospital,Per umbavoor	4.82	2.66	2.66	9.377	19.517	50 kg/hour	Provided capacity not given	150 kg	-	Incinerator:
	-				1.000	w		1.				Autoclave:
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SI. No	District	Name and address of			medical ' kg/da	y)	eration (in	Total Installe	d Treatment C	apacity in kg/	day	Total bio- medical
		the Health Care Facility	Yellow	Red	Blue	White	Total Bio- medical waste generate d (in Kg/day)	Incinerator	Autoclave	Deep burial	Any oth er	treated and disposed by Health Care Facilities in Kg/day
11.	Do-2 Ernakul am	MOSC Medical Mission Hospital , Kolanchery	100	76.66	16.67	11.33	204.67	150 kg/hour	600 L/CYCLE	Provided as per BMW Schedule d		Incinerator: Autoclave: Deep Burial: Any other Total: 74704.55

SI. No	District	Name and address of	Quan	tity of Bio	-medical kg/d		eneration (in	Total Inst	alled Treatme kg/day	nt Capacity	/ in	Total bio- medical
	37 1	the Health Care Facility	Yellow	Red	Blue	White	Total Bio- medical waste generated (in Kg/day)	Incinerator	Autoclave	Deep burial	Any oth er	treated and disposed by Health Care Facilities in Kg/day
	Do-2 Ernakulam	Devamath a Hospital	11.16	9.26	1.879	0.342	22.641	50 kg	1.35 kg			Incinerator:
			10 2 p 3 g 21 a 228 h	¥'		1725	Y =	1 (*) 2 (*) 3 (*)	2.50 kg	-		Autoclave:
12.				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5- 43-					1 1 2 2	20020-	Deep Burial:
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SI. No	District	Name and address of		ty of Bio	-medical \ kg/da		neration (in	Total Insta	alled Treatme kg/day	nt Capacit	y in	Total bio- medical	
		the Health Care Facility	Yellow	Red	Blue	White	Total Bio- medical waste generated (in Kg/day)	Incinerator	Autoclave	Deep burial	Any oth er	treated and disposed by Health Care Facilities in Kg/day	
ъ н т	Malappuram	MES, Perinthalma				1 1 9	32 kg/day	= ,	-			Incinerator	
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							2					Total: 32	
	,											kg/day	

S. No		Name and	_		edical Waste C			Total Instal	led Trea	lay		Total bio-
*		address of the Health Care Facility	Yellow	Red	Blue	White	Total Bio- medical waste generated (in Kg/day)	Incinerato r	Aut ocla ve	Deep buria 1	Any	medical treated and dispose d
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1 9			- 1 <u>- 2</u>		No. of the second secon		, 1- <u>-</u>			- - - -		Health Care Facilitie s in Kg/day
14		Amala	175	160	75	4	413.5	100 kg/hr	1	1 No.		Rejutay
		Cancer Hospital				Talk projetie begen		11.705	No.			
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	Thrissur	- 680 555	1	123			70.70	7.30				
15	1 III 155U1	Jubilee	224.650	44.38	104.11	83.83	456.97	25 kg/hr	1	1 No.		and the
		Mission			1 - 5 - 5 - 10 - 10 - 10 - 10 - 10 - 10			20 1.8/ 1.1	No.	2.10.	- = = 0%	
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16		St.James	43.08	48.25	13.66	0.76	105.75	150 kg/hr	1	1 No.		
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17		Maria	33.33	37.5	5	12.5	83.33	25 kg/hr	1	1 No.		-Tj # -
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18		St.Josep	2.96	3.2	0.49	0.49	7.14	75kg/hr	1	1 No.	-	
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19		Mary Immacul ate Mission Hospital	21.92	4.11	9.59	6.85	42.47	100 kg/hr	2 No.	1 No.	-	
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20		Sanjos 2- Parish Hospital, Pavartty	4.33	3.6	16.67	20.6	65.2	20 kg/hr	1 No.	1 No.		
21	2.	Mother 4. Hospital	.33	6.66	0	1.16	12.15	50 kg/hr	3 No.	-		*., <u>*</u>
				Market St.		- 209		e la disp			n -	
SI. No	District	Name and address of	Quant	tity of Bio-r	nedical Waste kg/day)	Generation (in	Total Insta	alled Treatme	nt Cap	acity in k	g/day	Total bio-
		the Health Care Facility	Yellow	Red	Blue Wh	ite Total Bio- medical waste	Incinerator	Autoclave	25%	eep	Any other	medical treated and

SI. No	District	Name and address of	Quanti	ty of Bio	-medical \ kg/da		neration (in	Total Instal	led Treatment (	Capacity in	kg/day	Total bio-
		the Health Care Facility	Yellow	Red	Blue	White	Total Bio- medical waste generated (in Kg/day)	Incinerator	Autoclave	Deep burial	Any other	medical treated and dispose d by Health Care Facilitie s in
- 30	The same training	region s		ाष्ट्री १	# :-					9 <del>1</del> 2	_ =====================================	Kg/day
			\$- 1 .7			8 - esto		1000	1000	Nil	Nil	Incinera tor
	<b>1</b>			1.		- 62		6 4				Autocla
22		Ahalia Foundation Eye Hospital	10	6	2	1	19	one another	Il the three hospitals are located adjacent to ne another. The treatment and disposal of MW is done together for the three hospitals			
		Ahalia						_				Deep
23	Palakkad	Diabetes	5	3	1	.5	9.5					Nil
		Hospital			Ė		# - 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1	-				Burial Nil
24	24	Ahaliya Ayurveda	4	0	0	0	4	:				Any
	, <u> </u>	Medical College			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	۸		 				other Nil
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	218 4.2											Total:
												32.5

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

SI N o	Name and Address of the Common Bio Medical Waste Treatment Facilities with contact person name and telephone number	GPS Coordina tors	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 Quantit y of Bio Medical Waste collecte d From membe r Health Care Facilitie s (in kg/day) 36700	Capacity of equipments Common Bi Waste Treat	installo o Medi	ed by cal	Total Bio Medic al Waste treate d in kg/day	Method of Disposa I of treated wastes (inciner ation Ash/Sh arps/PI astic)
No.	Manthuruthi, Kanjikode West, Palakkad	10* 48'54" N Longitud e -76* 43'34" E	100000 m <sup>2</sup>	nthapuram, Kollam, Pathanam- thitta, Alappuzha,		na Bjer		t	mb ers	installe d capacit y (kg/day		
1/2				Kottayam,		esta		Incinerato				Incinera
å,		Paring Lab		ldukki, Ernakulam,		of the second		r	5	33000	19440	tion
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Thrissur, Palakkad, Kozhikode, Malappura m, Kannur, Wayanad,				Plasma Paralysis	Nil	Nil	Nil	Ash: Quantit y: Dispose d By KEIL (TSDF)
		A. N. 1.	cori-	Kasaragod		_	a	Autoclave	5	15000	11990	Sharps
= 72 - 12		Section 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	To the second se					Hydroclav e	Nil	Nil	Nil	Quantit y Dispose d by Authori sed Recycle rs
-			7.7			=	4 × 200 25 × 26	Micro wave	Nil	Nil	Nil	Plastics Quantit
								Shredder	3	15000	Nil	y Dispose d By Authori sed Recycle rs
			-		- 1 - 2			Sharps Encapsula tion or concrete pit	1	NA	4723	
		n 20		8				Deep burial pits	1	NA	525	ETP sludge
		V 4						Any Other equipmen	Nil	Nil	Nil	quantit y – 116.1
	-		,	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	-		=	Effluent Treatmen t plant	1	450	450	T/Annu mDispo sed by KEIL (TSDF)
								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