

**“Form IVA**

**[See rule 13(2)]**

Format for Submission of updated Annual Report Information on Bio-medical Waste Management (to be submitted by the State Pollution Control Boards 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)

Part-1 (Summary of Information)

- (1) Name of the Organisation: **State Pollution Control Board-Sikkim**
- (2) Name of the Nodal Officer with contact telephone number and e-mail: **Mr. Ranjan Rai, AEE, 8617013669**
- (3) Total no. of Health Care Facilities / Occupiers: **95 Nos.**
  - (i) Bedded Hospitals and Nursing Homes (bedded): **36 Nos.**
  - (ii) Clinics, dispensaries: **08**
  - (iii) Veterinary institutions: **22 nos.**
  - (iv) Animal houses: NA
  - (v) Pathological laboratories: NA
  - (vi) Blood banks: NA
  - (vii) Clinical establishment: NA
  - (viii) Research Institutions: NA
  - (ix) AYUSH: NA

- (4) Total no. of beds: **1535 Nos.**
- (5) Status of authorisation: **40 nos. of Health Care Facilities have applied for authorization and SPCB has not received any application for authorization from remaining 55 nos. of Health Care Facilities till date.**
- (i) Total number of Occupiers applied for authorisation: **40 Nos.**
  - (ii) Total number of Occupiers granted authorisation: **02 Nos.**
  - (iii) Total number of application under consideration: **Nil**
  - (iv) Total number of applications rejected: **Nil**
  - (v) Total number of Occupiers in operation without applying for authorisation: **55 Nos.**
- (6) Quantity of Bio-medical Waste Generation (in kg/day): **276.27 kg/day**
- (Please enclose District Wise Bio-medical Waste Generation as per Part-2)
- (i) Bio-medical waste generation by bedded hospitals (in kg/day): **233.23 kg/day**
  - (ii) Bio-medical waste generation by non-bedded hospitals (in kg/day): **43.04 kg/day**
  - (iii) Any other:
- (7) Bio-medical waste treatment and disposal
- (a) By Captive bio-medical waste treatment and disposal by Health Care Facilities (please enclose details as per Part-3)
    - (i) Number of Health Care Facilities having captive treatment and Disposal facilities: **49 Nos.**
    - (ii) Total bio-medical waste treated and disposed by captive treatment facilities in kg/day: **203.15 kg/day**

(b) Bio-medical waste treatment and disposal by Common Bio Medical Waste Treatment Facilities (please enclose details as per Part 4):

**Common Bio-medical Waste Treatment Facilities does not exist in the state of Sikkim.**

(i) Number of Common Bio Medical Waste Treatment Facilities in Operation: **Not Applicable**

(ii) Number of Common Bio Medical Waste Treatment Facilities under construction: **Not Applicable**

(iii) Total bio-medical waste treated in kg/day: **Not Applicable**

(iv) Total treated bio-medical waste disposed through authorised recyclers (in Kg/day): **Not Applicable**

(8) Total no. of violation by:

(i) Health Care Facilities (bedded and non-bedded): **Nil**

(ii) Common Bio Medical Waste Treatment Facilities: **Nil**

(iii) Others (please specify): **Nil**

(9) Show cause notices/directions issued to defaulters:

(i) Health Care Facilities (bedded and non-bedded): **bedded 02 and non bedded 06**

(ii) Common Bio Medical Waste Treatment Facilities: **does not exist**

(iii) Others: **Show cause notice issued to 01 nos. of Veterinary hospital.**

(10) Any other relevant information:

(i) Number of workshops / trainings conducted during the year: **42 Nos.**

(ii) Number of occupiers installed liquid waste treatment facility: **Nil**

(iii) Number of captive incinerators complying to the norms: **Under process**

(iv) Number of occupiers organised trainings: **12 Nos.**

(v) Number of occupiers constituted Bio-medical Waste Management Committees: **03 Nos.**

(vi) Number of occupiers submitted Annual Report for the previous calendar year: **54 Nos.**

(vii) Number of occupiers practising pre-treatment of lab microbiology and Bio-technology waste: **50 Nos.**

(viii) Number of Common Bio Medical Waste Treatment Facilities that have installed Continuous Online Emission Monitoring Systems:  
**CBWTF does not exist.**

**Part 2: District-wise Bio-medical Waste Generation (for the previous calendar year 2017-2018)**

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					
				<b>Equipment</b>					
<b>1.</b>	<b>Sikkim</b>	<b>East</b>	<b>87.03</b>	<b>Incinerator: 06 nos.</b>	<b>Autoclave: 33 nos.</b>	<b>Deep Burial: 54 nos.</b>	<b>Microwave: 03 nos.</b>	<b>Shredder: 20 nos.</b>	<b>Needle Destroyer: 124 nos.</b>
		<b>West</b>	<b>111.76</b>						
		<b>North</b>	<b>63.59</b>						
		<b>South</b>	<b>13.89</b>						
	<b>Total</b>	<b>-</b>	<b>276.27</b>						

**Part 3: Information on Health Care Facilities having captive treatment facilities (for the previous calendar Year 2017-2018)**

Sl. No.	Name and address of the Health Care Facility	Quantity of Bio-medical Waste Generation (in kg/day)					Total biomedical waste generated (in kg/day)	Total Installed Treatment Capacity in kg/day				Total biomedical waste treated and disposed by Health Care Facilities in kg/day
		Yellow	Red	Blue	White			Incinerator	Autoclave	Deep Burial	Any other	
1.	Namchi District Hospital	1.32	-	1.09	0.08	2.49	20	-	-		Incinerator: <b>Not Available</b> Autoclave: <b>Not Available</b> Deep Burial: <b>Not Available</b> <b>Any Other Not Available</b>	
2.	Tokal Bermiok	0.50	-	0.40	-	0.9	-	-	-		Incinerator: <b>Not Available</b> Autoclave: <b>Not Available</b> Deep Burial: <b>Not Available</b> <b>Any Other Not Available</b>	
3.	Temi PHC	0.66	0.33	0.49	-	1.48	-	0.5	1 no.	Shredder 02 Concrete Pit 01	Incinerator: <b>Not Available</b> Autoclave: <b>0.41</b> Deep Burial: <b>0.66</b> <b>Any Other</b> Shredder: <b>0.22</b>	
4.	Jorethang CHC	1.04	-	0.95	-	1.99	-	-	1 no.		Incinerator: <b>Not Available</b> Autoclave: <b>Not Available</b> Deep Burial: <b>Not Available</b> <b>Any Other Not Available</b>	
5.	Yangang PHC	1.27	1.27	-	-	2.54	-		01	Concrete Pit 01	Incinerator: <b>Not Available</b> Autoclave: <b>Not Available</b> Deep Burial: <b>Not Available</b> <b>Any Other Not Available</b>	

Sl. No.	Name and address of the Health Care Facility	Quantity of Bio-medical Waste Generation (in kg/day)					Total biomedical waste generated (in kg/day)	Total Installed Treatment Capacity in kg/day				Total biomedical waste treated and disposed by Health Care Facilities in kg/day
		Yellow	Red	Blue	White	Incin erator		Autoclave	Deep Burial	Any other		
6.	Melli PHC	0.08	0.07	0.12	0.12	0.39	-	01 no.	-	-	Incinerator: <b>Not Available</b> Autoclave: <b>Not Available</b> Deep Burial: <b>Not Available</b> <b>Any Other Not Available</b>	
7.	Namthang PHC	0.32	0.47	0.02	0.008	0.82	-	01 no.	01 no.	Concrete Pit 01	Incinerator: <b>Not Available</b> Autoclave: <b>Not Available</b> Deep Burial: <b>Not Available</b> <b>Any Other Not Available</b>	
8.	Ravangla PHC	0.22	-	0.22	-	0.44	-	-	01 no.		Incinerator: <b>Not available</b> Autoclave: <b>Not available</b> Deep Burial: <b>Not available</b> <b>Any Other Not available</b>	
9.	Singtam	16.55	25.21	23.01	3.28	68.05	17.5 kg	-	-	Shredder, concrete pit	Incinerator:16.55 Autoclave: <b>Not Available</b> Deep Burial: <b>Not Available</b> <b>Any Other</b> Shredder:25.21	
10.	Sang PHC	0.27	0.14	0.16	0.14	0.71	-	5 kg	-	Concrete pit	Incinerator: <b>Not available</b> Autoclave: <b>Not available</b> Deep Burial: <b>Not available</b> <b>Any Other Not available</b>	
11.	Samdong PHC	0.95	-	0.77	-	1.72	-	-	-	Concrete pit Deep burial	Incinerator: <b>Not Available</b> Autoclave:1.86 Deep Burial:0.93 <b>Any Other Not Available</b>	

Sl. 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 biomedical waste treated and disposed by Health Care Facilities in kg/day
		Yellow	Red	Blue	White	Total biomedical waste generated (in kg/day)	Incinerator	Autoclave	Deep Burial	Any other		
12.	Rongli	0.6	-	0.4	-	1.0	-	-	Deep burial 1 no.	-	Incinerator: <b>Not available</b> Autoclave: <b>Not available</b> Deep Burial: <b>Not available</b> <b>Any Other Not available</b>	
13.	Pakyong	0.02	0.01	0.03	0.01	0.07	-	-	1 no.	-	Incinerator: <b>Not available</b> Autoclave: <b>Not available</b> Deep Burial: <b>Not available</b> <b>Any Other Not available</b>	
14.	Machong PHC	0.02	0.002	0.002	0.002	0.026	-	-	-	-	Incinerator: <b>Not available</b> Autoclave: <b>Not available</b> Deep Burial: <b>Not available</b> <b>Any Other Not available</b>	
15.	STNM Hospital	1.74	-	-	0.04	1.78	50	1 no.	-	Shredder 1 no. Concrete pit 1 no.	Incinerator:2.19 Autoclave:13.69 Deep Burial: <b>Not Available</b> <b>Any Other Not Available</b>	
16.	Thea Aesthetic clinic	0.1	-	-	0.1	0.2	-	-	-	-	Incinerator: <b>Not available</b> Autoclave: <b>Not available</b> Deep Burial: <b>Not available</b> <b>Any Other Not available</b>	
17.	Gastro Liver Clinic	1.67	-	-	-	1.67	-	-	-	-	Incinerator: <b>Not available</b> Autoclave: <b>Not available</b> Deep Burial: <b>Not available</b> <b>Any Other Not available</b>	

Sl. No	Name and address of the Health Care Facility	Quantity of Bio-medical Waste Generation (in kg/day)					Total biomedical waste generated (in kg/day)	Total Installed Treatment Capacity in kg/day				Total biomedical waste treated and disposed by Health Care Facilities in kg/day
		Yellow	Red	Blue	White	Incinerator		Autoclave	Deep Burial	Any other		
18.	Sukhim Diagnostic centre	0.05	-	0.025	0.025	0.1	-	1 no. 5kg	-	Microwave -500 g	Incinerator: <b>Not available</b> Autoclave: <b>Not available</b> Deep Burial: <b>Not available</b> <b>Any Other Not available</b>	
19.	CRH Manipal	3.19	2.67	1.42	0.32	7.6	50	1 no. 80 ltrs	-	Shredder 1 no. 50 kg Concrete pit 2 no.	Incinerator: <b>38.37</b> Autoclave: <b>32.07</b> Deep Burial: <b>Not Available</b> <b>Any Other</b> Shredder: <b>32.07</b>	
20.	Mangan District hospital	13.51	4.11	11.89	-	29.51	20	3 nos. 10 ltrs	-	Microwave 2 no. Shredder 1 no. Concrete pit 1no.	Incinerator: <b>19.76</b> Autoclave: <b>Not Available</b> Deep Burial: <b>Not Available</b> <b>Any Other Not Available</b>	
21.	Hee Gyathang	0.01	-	0.005	-	0.015	-	-	1 no.	Shredder 1 no.	Incinerator: <b>Not available</b> Autoclave: <b>Not available</b> Deep Burial: <b>Not available</b> <b>Any Other Not available</b>	
22.	Phodong PHC	0.13	-	0.09	-	0.22	-	1 no.	-	Concrete pit 1 no.	Incinerator: <b>Not available</b> Autoclave: <b>Not available</b> Deep Burial: <b>Not available</b> <b>Any Other Not available</b>	
23.	Chungthang PHC	0.03	0.008	0.01	-	0.048	-	1 no. 2 kg	1 no.	-	Incinerator: <b>Not Available</b> Autoclave: <b>0.06</b> Deep Burial: <b>Not Available</b> <b>Any Other Not Available</b>	



Sl. No	Name and address of the Health Care Facility	Quantity of Bio-medical Waste Generation (in kg/day)					Total biomedical waste generated (in kg/day)	Total Installed Treatment Capacity in kg/day				Total biomedical waste treated and disposed by Health Care Facilities in kg/day
		Yellow	Red	Blue	White	Incinerator		Autoclave	Deep Burial	Any other		
24.	Dikchu PHC	0.005	0.008	0.005	0.004	0.022	-	2 no.	1 no.	-	Incinerator: <b>Not available</b> Autoclave: <b>Not available</b> Deep Burial: <b>Not available</b> <b>Any Other Not available</b>	
25.	Passingdong PHC	0.05	-	0.05	-	0.1	-	-	-	-	Incinerator: <b>Not available</b> Autoclave: <b>Not available</b> Deep Burial: <b>Not available</b> <b>Any Other Not available</b>	
26.	Future Care Diagnostic Centre, Mangan	0.1	0.1	0.06	-	0.26	3 kg	-	-	Sharp pit 1no.	Incinerator: <b>Not available</b> Autoclave: <b>Not available</b> Deep Burial: <b>Not available</b> <b>Any Other Not available</b>	
27.	Gyalshing District Hospital	10	6	10	5	31	1 no.	-	-	Concrete pit 1 no.	Incinerator: <b>9.86</b> Autoclave: <b>Not Available</b> Deep Burial: <b>Not Available</b> <b>Any Other Not Available</b>	
28.	Tashiding PHC	0.5	0.67	0.33	0.33	1.83	-	1 no.	1 no.	Sharp pit 1 no.	Incinerator: <b>Not available</b> Autoclave: <b>Not available</b> Deep Burial: <b>Not available</b> <b>Any Other Not available</b>	
29.	Ringchenpong PHC	0.04	-	0.04	0.02	0.1	-	-	1 no.	-	Incinerator: <b>Not available</b> Autoclave: <b>Not available</b> Deep Burial: <b>Not available</b> <b>Any Other Not available</b>	

Sl. 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 biomedical waste treated and disposed by Health Care Facilities in kg/day
		Yellow	Red	Blue	White	Total biomedical waste generated (in kg/day)	Incinerator	Autoclave	Deep Burial	Any other		
30.	Sombaria PHC	9.86	5.21	4.93	54.41	74.41	-	2 no.	1 no.	Sharp pit 1 no.	Incinerator: <b>Not available</b> Autoclave: <b>2.74</b> Deep Burial: <b>Not available</b> <b>Any Other Not available</b>	
31.	Mangalbaria PHC	0.25	0.16	0.25	0.05	0.71	-	1 no. 0.5 kg	1 no.	Concrete pit 1 no.	Incinerator: <b>Not available</b> Autoclave: <b>0.51</b> Deep Burial: <b>0.60</b> <b>Any Other Not available</b>	
32.	Soreng PHC	0.5	2	0.3	0.2	3.0	-	-	1 no.	Sharp pit 1 no.	Incinerator: <b>Not available</b> Autoclave: <b>Not available</b> Deep Burial: <b>Not available</b> <b>Any Other Not available</b>	
33.	Ruchi Diagnostic centre	0.85	-	0.07	0.07	0.99	-	-	-	-	Incinerator: <b>Not available</b> Autoclave: <b>Not available</b> Deep Burial: <b>Not available</b> <b>Any Other Not available</b>	
34.	Dentam Veterinary Hospital	Not available	-	-	-	0.15	-	-	1 no.	Shredder	Deep burial: <b>0.05</b>	
35.	Melli Dara Veterinary Dispensary	Not available	-	-	-	0.22			Deep Burial pit	Sharp pit	Deep burial: <b>0.2</b>	
36.	Karfector Livestock Farm	Not available	-	-	-	0.13	-	Autoclave	Deep burial pit	Shredder	Deep burial: <b>0.15</b> Autoclave: <b>0.15</b>	

37.	Rhenock Veterinary Hospital	Not available	-	-	-	0.17	-	-	Deep burial pit	-	Deep burial : 0.03 Autoclave: 0.05
38.	Soreng Sub-divisional Veterinary Hospital	Not available	-	-	-	0.3	-	-	Deep burial pit	Shredder	Deep burial: 0.17
39.	Sirwani Veterinary Hospital	Not available	-	-	-	0.57	-	-	Deep burial pit	Shredder	Deep burial: 0.4
40.	Veterinary Hospital Takuthang West Sikkim	Not available	-	-	-	0.04	-	-	Deep burial pit	-	Deep burial: 0.03 Autoclave: 0.003
41.	Yangang Veterinary Hospital	Not available	-	-	-	0.32	-	-	-	-	Deep burial:0.25
42.	Pakyong Sub divisional Veterinary Hospital	Not available	-	-	-	0.26	-	Autoclave	Deep burial pit	Shredder	Deep burial: 0.17
43.	Central Pandam Veterinary Hospital	Not available	-	-	-	0.02	-	-	Deep burial pit	-	Deep burial:0.02
44.	Rabong Sub-divisional Veterinary Hospital	Not available	-	-	-	0.07	-	Autoclave	Deep burial pit	Shredder	Deep burial:0.05 Autoclave 0.02
45.	Tokal Bermiok Veterinary Hospital	Not available	-	-	-	0.23	-	-	Deep burial pit	Sharp pit	Deep burial 0.2
46.	Namthang Veterinary Hospital	Not available	-	-	-	0.33	-	-	Deep burial pit	Sharp pit	Deep burial:0.27
47.	Nandugaon Veterinary cum Dispensary	Not available	-	-	-	0.2	-	-	Deep burial pit	Sharp pit	Deep burial:0.15

48.	Turuk Veterinary Hospital	Not available	-	-	-	0.28	-	-	Deep burial pit	Sharp pit	Deep burial:0.23
49.	District Veterinary Polyclinic, Namchi	Not available	-	-	-	1.06	-	Autoclave	Deep burial pit	Sharp pit	Deep burial:0.4 Autoclave:0.17
50.	SARAH(Sikkim Anti Rabies abd Animal Health Programme, Deorali, Gangtok East Sikkim	Not available	-	-	-	0.20	-	Autoclave	Deep burial pit	-	Deep burial:0.17 Autoclave:0.05
51.	Chujachen Veterinary Hospital cum Livestock Farm	Not available	-	-	-	0.07	-	-	-	-	Deep burial:0.01
52.	Mangan District Veterinary Hospital	Not available	-	-	-	33.42	-	-	-	-	Deep burial:0.05
53.	State Veterinary Polyclinic Tadong, Gangtok East Sikkim	Not available	-	-	-	1.8	-	Autoclave	Deep burial pit	Shredder	Deep burial:0.5 Autoclave:1.3
54.	Disease Investigation Cell (DIC)	Not available	-	-	-	0.02	-	Autoclave	Deep burial pit	-	Deep burial: 0.01 Autoclave:0.01
55.	Tashiding Veterinary Hospital	Not available	-	-	-	0.22	-	-	-	-	Deep burial:0.13
	<b>Total</b>	<b>65.56</b>	<b>48.44</b>	<b>57.07</b>	<b>64.14</b>	<b>276.27</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>203.15</b>

Sl. No.	Name and Address of the Common Bio Medical Waste Treatment Facilities	GPS Coordinates	Coverage Area in KMS	Name of the cities/ 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/Plastics)
	<b>Does not exist in the state of Sikkim</b>							Equipment	Numbers	Total installed capacity (kg/day)		
								Incinerator				Incineration Ash: Quantity Disposed by:
								Plasma Pyrolysis				
								Autoclave				Sharps: Quantity Disposed by:
								Hydroclave				
								Microwave				Plastics: Quantity Disposed by:
								Shredder				
								Sharps encapsulation or concrete pit				
								Deep burial pits				ETP Sludge Quantity Disposed by:
								Any other equipment				
								Effluent treatment Plant				
								Sub-total				

(a) Total Number of transportation vehicles used for collection of Bio-medical Waste on daily basis by the Common Bio-Medical Waste Treatment Facilities: **Not applicable**

(b) List of Health Care Facilities not having membership with the Common Bio-Medical Waste Treatment Facilities and neither having captive treatment facilities: **Not applicable**

(c) Number of trainings organised by the Common Bio-Medical Waste Treatment Facility operators: **Not applicable**

(d) Number of Accidents **reported by the Common Bio Medical Waste Treatment Facilities:**” **Not applicable**