

**Form IVA**  
**[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 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-I (Summary of Information)**

1	Name of the Organisation	Himachal Pradesh State Pollution Control Board	
2	Name of the Nodal Officer with Contact telephone number and e-mail	Dr. Manoj Chauhan, Principal Scientific Officer 01772673276, pcbssoho@gmail.com	
3	Total No. of Health Care Facilities/Occupiers	:	3802
(i)	Bedded Hospitals and Nursing Homes (Bedded)	:	503
(ii)	Clinics, Dispensaries	:	2039
(iii)	Veterinary institutions	:	7
(iv)	Animal houses	:	Nil
(v)	Pathological Laboratories	:	85
(vi)	Blood banks	:	Nil
(vii)	Clinical establishments	:	323
(viii)	Research Institutions	:	1
(ix)	AYUSH	:	707
	Industrial Units	:	137
4	Total no. of beds	:	14150
5	Status of authorization	:	
(i)	Total no. of occupiers applied for authorization	:	1832
(ii)	Total no. of occupiers granted authorization	:	433
(iii)	Total no. of applications under consideration	:	1029
(iv)	Total no. of applications rejected	:	370
(v)	Total no. of occupiers in operation without applying for authorization	:	1970
6	Quantity of Bio-medical Waste Generation (in Kg/Day) (please enclose District wise Bio-medical Waste Generation as per Part-2)	:	2570.12

(i)	Bio-medical waste generation by bedded hospitals (in Kg/Day)	:	1582.31
(ii)	Bio-medical waste generation by non-bedded hospitals (in Kg/Day)	:	987.82
(iii)	Any other: Total (Kg/Day)	:	Nil
7	Bio-medical Waste Treatment and Disposal	:	
(a)	By captive bio-medical waste treatment and disposal by Health Care Facilities (please enclose detail as per Part-3)	:	
(i)	Number of Health Care Facilities having captive treatment and disposal facilities	:	2302
(ii)	Total bio-medical waste treated and disposed by captive treatment facilities in Kg/Day	:	206.75
(b)	Bio-medical Waste Treatment and Disposal by Common Bio-medical Waste Treatment Facilities (please enclose detail as per Part 4)	:	
(i)	Number of Common Bio Medical Waste Treatment Facilities in Operation	:	3 (out of which 1 is temporarily closed)
(ii)	Number of Common Bio Medical Waste Treatment Facilities under construction	:	1
(iii)	Total bio-medical waste treated in Kg/Day	:	2363.37
(iv)	Total bio-medical waste disposed through authorized recyclers (in Kg/Day)	:	564.46
8	Total no. of violation by	:	
(i)	Health Care Facilities (bedded and non-bedded)	:	226
(ii)	Common Bio Medical Waste Treatment Facilities	:	2
(iii)	Others (please specify)	:	0
9	Show cause notices/directions issued to defaulters	:	
(i)	Health Care Facilities (bedded and non-bedded)	:	226
(ii)	Common Bio Medical Waste Treatment Facilities	:	2
(iii)	Others	:	0
10	Any other relevant information	:	
(i)	Number of workshops / trainings conducted during the year	:	78
(ii)	Number of occupiers installed liquid waste treatment facility (STP)	:	1133

(iii)	Number of captive incinerators complying to the norms	:	1
(iv)	Number of occupiers organised trainings	:	<b>1427</b>
(v)	Number of occupiers constituted Bio-medical Waste Management Committees	:	489
(vi)	Number of occupiers submitted Annual Report for the previous calendar year (2018).	:	3802
(vii)	Number of occupiers practising pre-treatment of lab microbiology and Bio-technology waste	:	1730
(viii)	Number of Common Bio Medical Waste Treatment Facilities that have installed Continuous Online Emission Monitoring Systems	:	3

Part 2: District-wise Bio-medical Waste Generation (for the previous calendar year .....					
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	
1	Himachal Pradesh	Bilaspur	88.41	Equipment	Total
		Chamba	55.72	Incinerator:	3 Nos.
		Hamirpur	88.79	Autoclave:	4 Nos.
		Kinnaur	42.40	Deep Burial:	2301 Nos.
		Kangra	388.39		
		Kullu	123.12		
		Mandi	229.32		
		Shimla	439.18		
		Sirmour	175.24		
		Solan	857.41		
		Una	77.82	Sharp Pit:	2291 Nos.
		L & S	4.34		
		<b>Total</b>	<b>2570.14</b>	Any other:	0

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

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 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:		
1.	List Enclosed	109.94	47.31	36.72	12.7	206.7	1 (25Kg/Hr)	4 Nos	2301 Nos.	Nil	Incinerator:	0.55
											Autoclave:	0.12
											Disinfection	47.24
											Deep Burial:	109.39
											Sharp Pit	49.45
											Any other:	Nil
											Total	206.7

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

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 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 equipment's 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 Suraksha Biosanitizers, Village Dhugiari, PO Gaggal, tehsil & District Kangra	--	320	Kangra, Chamba, Una & Hamirpur	761	4938	542.98	Incinerator	1	50 Kg/Hr	227.86	Incineration Ash: Quantity: 7132.37 Kg Disposed by: M/s SSWM Ltd. Nalagarh
								Plasma Pyrolysis	0	0	0	
								Autoclave	1	50 Kg/Hr	122.78, 192.34 (red)	
								Hydroclave	0	0	0	
								Microwave	0	0	0	Plastics: Quantity: 79105

								Shredder	1	40 Kg/Hr	192.34	Disposed by: M/s Sitram Plastic M/s Shiv Shankar Plastic M/s Santushti Industries
								Sharps encapsulation or concrete pit	0	0	0	0
								Deep burial pits	0	0	0	ETP Sludge: Quantity:197.20 Kg Disposed by: M/s SSWM Ltd. Nalagarh
								Any other equipment	0	0	0	
								Effluent Treatment Plant	1	10 KLD	0	
								Sub-total	0	0	0	0

- (a) Total Number of transportation vehicles used for collection of Bio-medical Waste on daily basis by the Common Bio-Medical Waste Treatment Facilities: 8
- (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 trainings organised by the Common Bio-Medical Waste Treatment Facility operators: 5
- (d) Number of Accidents reported by the Common Bio Medical Waste Treatment Facilities: Nil

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 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 equipment's installed by Common Bio Medical Waste Treatment Facilities Equipment			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)		
2	M/s BMWT, Pathankot*	--	--	Kangra, Chamba, Una & Hamirpur	--	--	19.03	Incinerator	--	--	6.62	Incineration Ash: Quantity: Disposed by:
								Plasma Pyrolysis	--	--	--	
								Autoclave	--	--	4.89	Sharps: Quantity: Disposed by:
								Hydroclave	--	--	--	
								Microwave	--	--	--	Plastics: Quantity: Disposed by:
								Shredder	--	--	7.52	

								Sharps encapsulation or concrete pit	--	--	--	--
								Deep burial pits	--	--	--	ETP Sludge: Quantity:197.20 Kg Disposed by: M/s SSWM Ltd. Nalagarh
								Any other equipment	--	--	--	
								Effluent Treatment Plant	--	--	--	
								Sub-total	--	--	--	--

\* The CBWTF facility collected the Bio-medical waste from the Himachal Pradesh up to 31<sup>st</sup> March 2018 and disposed off in the State of Punjab



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								Equipment	Numbers	Total installed capacity (kg/day)		
3	M/s Enviro Engineers Sandli, Solan	--	165	Shimla, Solan & Sirmour	471	4559	1418.5 + 127.62* = <b>1546.12</b>	Incinerator	1	100 Kg/Hr	821.97 + 50.65* = <b>872.62</b>	Incineration Ash: Quantity: 73748 Kg
								Plasma Pyrolysis	0	0	0	Disposed by: M/s SSWM Ltd. Nalagarh
								Autoclave	2	240 Lit 1000 Lit	383.47+ 26.46* = <b>409.93</b>	Sharps: Quantity: 15482 Kg Disposed by: M/s SSWM Ltd. Nalagarh
								Hydroclave	0	0	0	M/s Shiv Shankar Plastic
								Microwave	0	0	0	Plastics: Quantity: 72950
								Shredder	2	50 Kg/Hr 100 Kg/Hr	213.06 + 50.51* = <b>263.57</b>	Disposed by: M/s Shiv Shankar Plastic M/s Santushti Industries

								Sharps encapsulation or concrete pit	2	15x10x8 Feet	--	--
								Deep burial pits	0	0	0	ETP Sludge: Quantity: 612 Kg Disposed by: M/s SSWM Ltd. Nalagarh
								Any other equipment	0	0	0	
								Effluent Treatment Plant	1	10 KLD	0	
								Sub-total	0	0	0	0

\* The Bio-medical transported from CBWTF Pirdi Kullu to CBWTF Sandli Solan from September 2018 onward due to temporary closure of facility.

- (a) Total Number of transportation vehicles used for collection of Bio-medical Waste on daily basis by the Common Bio-Medical Waste Treatment Facilities: 5
- (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 trainings organised by the Common Bio-Medical Waste Treatment Facility operators: 3
- (d) Number of Accidents reported by the Common Bio Medical Waste Treatment Facilities: Nil

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 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 equipment's installed by Common Bio Medical Waste Treatment Facilities Equipment			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)		
4	M/s Enviro Engineers Pirdi, Kullu	--	150	Mandi, Kullu & Bilaspur	268	2975	255.24	Incinerator	1	70 Kg/Hr	101.30	Incineration Ash: Quantity: 25153 Kg Disposed by: M/s SSWM Ltd. Nalagarh Sharps: Quantity: 19315 Kg Disposed by: Sharp encapsulation Pit Plastics: Quantity: Stored and transported to CBWTF Sandli.
								Plasma Pyrolysis	0	0	0	
								Autoclave	1	240 Lit	52.92	
								Hydroclave	0	0	0	
								Microwave	0	0	0	
								Shredder	1	100 Kg/Hr	101.02	
								Sharps encapsulation or concrete pit	2	15x10x8 Feet	--	

								Deep burial pits	0	0	0	ETP Sludge: Quantity:107 Kg Disposed by: M/s SSWM Ltd. Nalagarh
								Any other equipment	0	0	0	
								Effluent Treatment Plant	1	05 KLD	0	
								Sub-total	0	0	0	

- (a) Total Number of transportation vehicles used for collection of Bio-medical Waste on daily basis by the Common Bio-Medical Waste Treatment Facilities: 3
- (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 trainings organised by the Common Bio-Medical Waste Treatment Facility operators: 1
- (d) Number of Accidents reported by the Common Bio Medical Waste Treatment Facilities: Nil