

Central Pollution Control Board
(Ministry of Environment Forest & Climate Change)
Waste Management Division
Delhi-110032

Format for submission of the Annual Report Information on Bio-medical Waste Management
By the SPCBs/ PCCs to CPCB for the period January, 2016 to December, 2016

- 1) Name of the State Pollution Control Board/ Pollution Control Committee : **HPSPCB, Head Office Shimla**
- 2) Name of the Nodal Officer with contact telephone no. & e-mail : **Dr. Manoj Chauhan, 9418044033**
- 3) Total no. Of HCFs : 796
(i) Bedded : 506
(ii) Non-bedded : 290
- 4) Total no. of beds : 13015
- 5) Status of authorization
- a) Total no. of HCFs applied for authorization : 758
b) Total no. of HCFs granted authorization : 718
c) Total no. of applications under consideration : 40
d) Total no. of applications rejected : Nil
e) Total no. of HCFs in operation without applying for authorization : Nil (under BMW Rules, 1998)
- 6) Quantity of Bio-medical Waste Generation (in Kg/day) : 1717.7
a) Bio-medical waste generation by bedded hospital (in kg/ day) : 1433.34
b) Bio-medical waste generation by non-bedded hospital (in kg/day) : 284.36
c) Any other : Nil
- Total** : **1717.70** kg/day
- 7) Bio-medical waste treatment & disposal :
- a) Captive bio-medical waste treatment & disposal by HCFs (please enclose details as per Annexure- I (a))

Sr. No.	Health care Facility	Treatment & Disposal				Total bio-medical waste treated & disposed by captive treatment facilities in kg/day
		No. of HCFs having captive treatment facilities	Total installed captive treatment facility			
			Type of treatment equipment	No.	Capacity (in kg/day)	
(i)	Bedded	185	• Incinerator	2		283.46
			• Plasma Pyrolysis			
			• Autoclave	2		
			• Microwave			
			• Hydroclave			
			• Shredder			
			• Sharps encapsulation or concrete pit	185		
			• Deep burial pits	183		
			• Any other treatment equipment			
(ii)	Non-bedded	111	• Incinerator			8.22
			• Plasma Pyrolysis			
			• Autoclave			
			• Microwave			
			• Hydroclave			
			• Shredder			
			• Sharps encapsulation or concrete pit	111		
			• Deep burial pits	111		
			• Any other treatment equipment			
			Total (in kg/day)			291.68

b) Bio-medical waste treatment & disposal by CBWTFs (please enclose details as per Annexure- I (b))

Total no. of CBWTFs		Total installed treatment capacity			Total bio-medical waste treated in kg/day
In operation	Under Construction	Type of treatment equipment	No	Total Capacity (in kg/day) or (in Kg/h)	
3*	1	• Incinerator	3	100 Kg/h, 70 Kg/h, 150 Kg/h	1426.018
		• Plasma Pyrolysis			
		• Autoclave	5	240 Ltr 648 Ltr 220 Ltr 1000 Ltr (2 Nos.)	
		• Hydroclave			
		• Microwave			
		• Shredder	3	50 Kg/h (3 Nos.)	
		• Sharps encapsulation or concrete pit	5	As per requirement	
		• Deep burial pits			
		• Any other treatment equipment			
		• Effluent Treatment Plant	3	5 KLD (2 Nos.) 4 KLD	
Total			19		

* One CBWTF collected the Bio-medical waste from the 4 districts of Himachal Pradesh and disposed off in the State of Punjab

- 8) Total bio-medical waste generation : 1717.70
- 9) Total bio-medical waste treated & disposed (in kg/ day) : 1717.70
- By Captive treatment Facilities by the HCFs : 291.68
 - By CBWTFs : 1426.02
- 10) Total no. of violation by : 42
- HCFs : 41
 - CBWTFs : 1
- 11) Show cause notices/ directions issued to defaulters : 42
- HCFs : 41
 - CBWTFs : 1
- 12) Any other relevant information:
- a) No. of workshops/ trainings conducted during the year : 14
 - b) No. of HCFs installed liquid waste treatment facility : 108
 - c) No. of captive incinerators complying to the norms : 2
 - d) No. of HCFs organised trainings : 1
 - e) No. of HCFs constituted Bio-medical Waste Management Committees : 1
 - f) No. of HCFs submitted Annual Report : 706
 - g) No. of HCFs practising pre-treatment of lab microbiology & Bio-technology waste : 8

(a) Information on HCFs having captive treatment facilities (for the year)

Sr. No.	Name & Address of the HCF	Quantity of Bio-medical Waste generation (in kg/ per day)				Total Bio-medical Waste generated (in Kg/day)	Total installed treatment capacity in kg/day				Total Bio-medical Waste treated in kg/day	
		yellow	Red	Blue	White		Incinerator	Autoclave	Deep Burial	Any other		
1.	296	--	--	--	--	291.68	25 Kg/h	--	--	--	Incinerator :	291.68
							15 Kg/h				Autoclave :	
											Deep Burial:	
											Any other :	
											Total :	291.68

(b) Information on Common Bio-medical Waste Treatment & Disposal Facilities (for the year- 2016)

Sr. No.	Name & Address of the CBWTF with contact person name and telephone no.	GPS Coordinates	Cover age area in KMS	Name of the cities/ areas covered by CBWTF	Total no. of HCFs being covered	Total no. of beds covered	Total Quantity of BMW collected from member HCFs (in kg/day)	Capacity of Treatment equipments installed by CBWTFs			Total bio-medical waste treated in kg/day	Method of Disposal of treated wastes (Incineration Ash/ Shapes/ Plastics)
								Equipment	Nos.	Total installed capacity (kg/ day)		
1.	M/s BMWT Trust, CBWTF Pathankot, Punjab	--	--	Kangra, Chamba, Una, Hamirpur	327	3701	539.55	Incinerator	1	150 kg/hr.	252.59	Incineration Ash: Pertains to Punjab Quantity Disposed by:
								Plasma Pyrolysis				
								Autoclave	2	1000 Ltrs./hr. (each)	286.95	Sharps: 118.58 Quantity Disposed by: Sharp encapsulation in House
								Hydroclave		-		
								Microwave		-		Plastics: 168.37 Quantity Disposed by: Pertains to Punjab
								Shredder	3	300 kg./hr. 250 kg./hr. 100 kg./hr.		
								Sharps encapsulation on or concrete pit	2	8"x7"x10" 5"x4"x5"	118.58	ETP Sludge: Pertains to Punjab Quantity Disposed by:
								Deep burial pits		-		
								Any other equipment		-		
								Effluent Treatment Plant		-		
								Sub- total	8		539.55	

II.	M/s Enviro Engineer, CBWTF, Sandli, Solan (H.P)	--	--	Shimla, Kinnaur, Solan, Sirmour	288	3362	811.32	Incinerator	1	100 Kg/h	545.186	Incineration Ash: 25.430
								Plasma Pyrolysis				Quantity Disposed by: TSDF at Dhabota, Baddi
								Autoclave	2	648 Ltrs 2240 Ltrs	266.136	Sharps: 72.0
								Hydroclave				Quantity Disposed by: Sharp encapsulation in House
								Microwave				Plastics: 60
								Shredder	1	50 Kg/h	109.74	Quantity Disposed by: M Rauf Enterprises, Baddi
								Sharps encapsulati on or concrete pit	2		79.41	
								Deep burial pits				ETP Sludge: included in Incineration Ash
								Any other equipment				Quantity Disposed by: TSDF at Dhabota, Baddi
								Effluent Treatment Plant	1	--		
Sub- total	7	--	811.32									

III.	M/s Enviro Engineer, CBWTF, Pirdi, Kullu (H.P)	--	--	Mandi, Kullu, L& Spiti, Bilaspur	192	4237	287.06	Incinerator	1	70 kg/hr		Incineration Ash: --
								Plasma Pyrolysis		--		Quantity Disposed by: TSDF at Dhabota, Baddi
								Autoclave	1	310 Ltr		Sharps: --
								Hydroclave		--		Quantity Disposed by: Sharp encapsulation in House
								Microwave		--		Plastics: --
								Shredder	1	--		Quantity Disposed by: M Rauf Enterprises, Baddi
								Sharps encapsulati on or concrete pit	1	--		
								Deep burial pits		--		ETP Sludge: included in Incineration Ash
								Any other equipment		--		Quantity Disposed by: TSDF at Dhabota, Baddi
								Effluent Treatment Plant	1	--		
Sub- total	5	--	287.06									

- No. of vehicles used for collection of Bio-medical Waste: **20**
- List of HCFs not having membership with the CBWTFs & neither having captive treatment facilities: **Nil**
- No. of trainings organized by the CBWTF: **Nil**
- No. of Accidents:
 - (i) Reported: --
 - (ii) Remedial measures taken: --