

Annual Report on Bio-medical Waste Management as on March 31, 2010 (2009)

Format for the submission of Annual Report by SPCB/PCC

Name of the Contact person dealing with Bio-medical Waste Management related activities with telephone contact no. & mobile no.

Name of the State Pollution Control Board/Pollution Control Committee : *M. P. Pollution Control Board, Bhopal.*

Health Care facilities (HCF) under schedule VI of the Rules	Total No. of HCF	Total no. of Beds	No. of CBWTF (Please specify if a hospital treatment facility is also used by other HCF)	No. of HCF which are utilising CBWTF	No. of HCF having own treatment and disposal facilities	No. of HCF applied for authorisation & consents under Water & Air Acts	No. of HCF granted authorisation & consents under Water & Air Acts	Total No. of treatment equipment (excluding CBWTF)					Total quantity of BMW generated (kg/day)	Total quantity of BMW treated (kg/day)	No. of Health care facilities violated BMW Rules	Total no. of show cause notice/ directions issued to defaulter HCF	
								Incinerator		Auto-clave	Micro-wave	Hydro-clave					Shredder
								With Air Pollution control Devices (APCD)	Without APCD								
A. Hospital and nursing homes in town with population of 30 Lakhs and above	Nil	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
B. Hospitals & nursing homes in town with population below 30 lakhs :																	
a) with 500 beds and above	10	7772	13	1380	08	08	08	11	04	232	34	Nil	677	65231.26	47130.487	510	130
b) with 200 beds and above but less than 500 beds	32	8891			14	15	18										
c) with 50 beds and above but less than 200 beds	133	12566			35	128	112										
d) with less than 50 beds	1709	26161			432	931	882										
C. All others institutions generating bio-medical waste not included in A) and B) above	489	--	--	--	28	215	168										
Total	2373	55390	13	1380	517	1297	1188	11	04	229	34	Nil	264	652310.26	4713.487	510	130

Station:

Date:

Signature of the authorised official and seal

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Name of the Contact person dealing with Bio-medical Waste Management related activities with telephone contact no. & mobile no.
 Name of the State Pollution Control Board/Pollution Control Committee :

Sr. No.	Name & Address of CBWTF with telephone no.	Name of cities/areas covered by CBWTF	Total no. of HCFs being covered	Total no. of beds covered	Quantity of different categories of BMW treated/day (in kg or litre as applicable)	Cost of treatment of BMW charged by the CBWTF operator (Rs./Kg. of Rs./day)	Treatment facilities installed at CBWTF (Incinerator/Autoclave/Microwave/Hydroclave/Shredder/ETP etc.) and their capacities each. (in kg or litre per day as applicable)	Air Pollution Control System attached with the incinerator	Method of Disposal of treated wastes (Incineration Ash/Sharps/Plastics)	Compliance Status
1.	Hoswin Incinerator (P) Ltd., 196-197, Ind. Area, Sanwer Road, Indore	Indore, Ujjain, Dewas, Shajapur, Khandwa, Burhanpur, Sanawad, Barwaha, Khargone, Badwani, Dhar, Betma, Rau, Mhow, Sanwer	520	9410	Incineration: 800-900 Autoclaving: 70-100 Shredding: 70-100 Effluents treated: Yes	Rs. 5/ bed/day	Incinerator: 250 kg/hr Autoclave: 50 kg/hr Shredder: 30 kg/hr. ETP : Yes	<ul style="list-style-type: none"> High pressure ventury scrubber Droplet seperator 	Incineration Ash : Secured land fill Sharps : Site at Pithampur Plastics : To recycler	No. of show cause notice / directions issued : 08 No. of court case – Nil Others: Nil
2.	J.A. Hospital, Gwalior	Gwalior	144	2907	Incineration: 450 kg/day Autoclaving: Yes Shredding: Yes Deep buried: Effluents treated: Yes	Rs. 5 /bed/day @ 60% occupancy Rs. 1000/- month for blood bank	Incinerator: 100 kg/hr Autoclave: 120 lt./hr Shredder: 50 kg/hr. ETP : 5 KLD Deep burial:	<ul style="list-style-type: none"> Stack height 30 mt. scrubber installed. 	Incineration Ash : Ash collected in bags and stored in pit in J.A. Hospital campus. Sharps : Sharppit Plastics : To recycler	No. of show cause notice / directions issued : Yes
3.	Datt Enterprises, Agra	Morena	23	243	Incineration: 50 kg/day Autoclaving: Yes Hydroclaving: Yes Shredding: Yes Effluents treated: Yes	--	Incinerator: 200 kg/hr Autoclave: 100 lt./hr Hydroclave: 100 kg/hr Shredder: 100 kg/hr. ETP : 2000 lit/hr.	Ventury scrubber	Municipal landfill and sold to recycler	--

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4.	Indo Water Management & Pollution Control Corpn. Village: Badkhera, Teh. Uchera, Dist. Satna	Satna, Rewa, Sidhi, Panna, Chhatarpur, Sagar	235	4821	Incineration: 284 kg/day Shredding: 60 kg/hr. Chemically treated: 30.54 kg/day Deep buried: 40 kg/day Effluents treated: 200 lt./day	--	Incinerator: 100 kg/hr : Shredder: 25 kg/hr. ETP : 200 lt./day Deep burial: Yes	Yes (APCD)	Incineration Ash : Deep burial Sharp : Sharppits Plastics : To recyclers	No. of show cause notice / directions issued : Nil No. of court case – Nil Others: - Nil
5.	Medical Pollution Disposal Committee, Karera, Dist. Shivpuri	Under installation	--	--	--	--	--	--	--	--
6.	Elite Engineers, Jabalpur	Jabalpur and Katni	126	3900	Incineration: 250 Autoclaving: 80 Shredding: 20 Deep buried: 40	Rs. 95/bed/month	Incinerator: 100 kg/hr Autoclave: 250 lit/cycle Shredder: 50 kg/hr Deep burial: Yes	• Wet scrubber	Incineration Ash : Secured land fill Sharps : Sharppit Plastics : To recycler	No. of show cause notice / directions issued : Yes No. of court case – Nil Others: - Nil
7.	Krupa Wastage, Seoni	Seoni, Narsinghpur, Mandla, Chhindwara, Balaghat	41	1963	Incineration: 100 Autoclaving: 30 Shredding: 15 Chemically treated: Deep buried: 15 Effluents treated:	Rs. 5 per bed/day	Incinerator: 50 kg/hr Autoclave: 100 lit/cycle Shredder: 50 kg/hr ETP : 200 lit/cycle	• Wet scrubber	Incineration Ash : Secured land fill Sharps : Sharppit Plastics : To recycler	No. of show cause notice / directions issued : Yes No. of court case – Nil Others: - Nil
8.	Chandra Project, Chhindwara	Chhindwara	17	181	Chemically treated: Yes Deep buried: 190	--	Chemical disinfection Needle cutter	• NA	Incineration Ash : NA Sharps : Sharppit Plastics : To recycler	No. of show cause notice / directions issued : Yes No. of court case – Nil Others: - Nil
9.	Bio Medical Waste Management System, Ratlam	Ratlam, Mandsaur, Neemuch	43	593	45.93 kg/day 1 KLD	Rs. 4 per kg	Incinerator: 75 kg/hr Autoclave: 1000 lit/cycle Shredder: 50 kg/hr. ETP : 100 lit./day Deep burial: Yes	• Ventury scrubber	Incineration Ash : Ash pit Sharps : Sharppit Plastics : To recycler	No. of show cause notice / directions issued : Yes No. of court case – Nil Others: - Nil

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10.	M.P. Bio Medical Waste Disposal System, Katni, Disposal site at Kanchanpur, Shahdol	Shahdol, Anuppur, Umaria	08	476	Deep buried: 13.71 kg/day	Rs. 8/bed/day	Deep burial:	NA	NA	No. of show cause notice / directions issued : Yes No. of court case – Nil Others: - Nil
11.	Laben Instruments, Lucknow	VSTPP, NTPC Hospital, Singrauli	01	48	7 kg/day	833.33/day	Incinerator: 50 kg/hr. Autoclave: 635 lit/hr. Shredder: 50 kg/hr. ETP : Deep burial:	Yes	Incineration Ash : Deep burial Sharps : Sharppits Plastics : To recycler	No. of show cause notice / directions issued : - Yes No. of court case – Nil Others: - Nil
12.	Bhopal Incinerator Ltd., 6/5, Sector-H, Inds. Area, Govindpura, Bhopal	Bhopal, Vidisha, Mandideep	197	5578	Incinerator: 384.07 Autoclave: 2130 Shredder: 44.0 ETP :1210.95 lit/day	Rs. 4-4.30 /day/bed (Govt. Hospital) Rs. .60/day/bed Pathology – Rs.660/month Dental clinic – Rs. 530/month Blood bank – Rs. 650/month	Incineration: 50 kg/hr & 100 kg/hr Autoclaving: 450 lit/cycle Shredding: 25 kg/hr. Chemically treated: Deep buried: Effluents treated:Member of CETP	<ul style="list-style-type: none"> Ventury scrubber Droplet separator 	Incineration Ash : Secured landfill at Pithampur site. Sharps : Sharppits Plastics : To recycler	Satisfactory
13.	Green Environment Technology, Hoshangabad	Betul, Hoshangabad, Itarsi	11	114	40 kg/day	Rs. 3.5/bed/day	Shredder: 20 kg/hr Chemical disinfection tank – 300 lit/cycle Deep burial: As per rule	NA	Sharps : Sharppits Plastics : To recycler	No. of show cause notice / directions issued : Yes No. of court case – Nil Others: - Nil
14.	People's College of Medical Science & Research Centre, Bhanpur, Bhopal	Bhopal	05	1400	Incinerator: 79.61 Shredder: 10.0 ETP : Yes	Use for people group hospital only	Incineration: 20 kg/hr Shredding: 25 kg/hr. Chemically treated: 100 lit/cycle Effluents treated : 500 KLD	<ul style="list-style-type: none"> Ventury scrubber Droplet separator 	Incineration Ash : NA Sharps : Sharppit Plastics : To recycler	No. of show cause notice / directions issued : Yes No. of court case – Nil

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15.	Medical Pollution Disposal Committee, Shivpuri	Under installation								
16.	Sagar Medical College, Sagar	Under Installation								
17.	Sainath Jan Kalyan Samiti, Sagar	Under Installation								
18.	Environmental Protection Corporation, Sehore	Under installation								

Station:

Date:

Signature of the authorised official and seal

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SUMMARY SHEET ON BIO-MEDICAL WASTE MANAGEMENT

- 1) Name of the SPCBs/PCCs & contact person with telephone no./mobile no. : M.P. Pollution Control Board, Bhopal
- 2) No. of HCFs : 2373
 a) Bedded Hospitals : 1884
 b) Non-bedded Hospitals : 327
 c) Others (Veterinary Hospitals/Research Organisation etc.) : 162
- 3) Total No. of Beds : 55390
- 4) Status on consents under Water Act & Air Act :
 a) No. of HCFs applied for consent under Water & Air Acts : 03
 b) No. of HCFs obtained consents under Water & Air Acts : 03
 c) No. of applications under consideration : --
 d) No. of application rejected : --
- 5) Status on Authorization under BMW Rules :
 a) No. of HCFs applied for authorization : 1297
 b) No. of HCFs obtained authorization : 1188
 c) No. of application under consideration : 94
 d) No. of application rejected : 15
- 6) Details on On-Site treatment equipments installed by HCFs :

S No.	No. of HCFs	On-site deep burial		On-site Incinerator		On-site Autoclave		On-site Microwave		On-site Hydroclave		On-site Shredder	
		Nos.	Total installed cap. in Kg/day	Nos.	Total installed cap. in Kg/day	Nos.	Total installed cap. in Kg/day	Nos.	Total installed cap. in Kg/day	Nos.	Total installed cap. in Kg/day	Nos.	Total installed cap. in Kg/day
1.	431	372	814.7	15	5044.8	229	9320.7	34	--	--	--	264	2435.7

- a) Total Bio-medical waste collected & treated by HCFs in kg/day : 2095.03
 b) Total recyclable bio-medical waste sold off by HCFs in kg/day : 143.78
 c) Total Bio-medical waste disposed off by HCFs in kg/day : 1265.19
- 7) No. of On-site Incinerator (s) in operation installed by HCFs :
 a) With APCD : 11
 b) Without APCD : 04
- 8) Details on Common Bio-medical Waste Treatment Facility (CBWTF) :
 a) Total no. of CBWTFs in operation : 13
 b) Total no. of CBWTFs under construction : 04
 c) Total no. of Incinerators installed by CBWTFs :
 I. With APCD : 11
 II. Without APCD : 00
- 9) Details of CBWTFs (use separate sheet if required) :

S No.	Name of CBWTF & address	No. of HCFs taken membership	Incinerator		Autoclave		Microwave		Hydroclave		Shredder	
			Nos.	Total installed cap. in Kg/day	Nos.	Total installed cap. in Kg/day	Nos.	Total installed cap. in Kg/day	Nos.	Total installed cap. in Kg/day	Nos.	Total installed cap. in Kg/day
As per enclosed as Annexure - A												

	a) Total Bio-medical waste collected & treated by CBWTFs in kg/day	:	3058.727 kg/day
	b) Total recyclable bio-medical waste sold off by CBWTFs in kg/day	:	250.54 kg/day
	c) Total Biomedical waste disposed off by CBWTFs in kg/day	:	2873.58 kg/day
10)	Action taken against HCFs/CBWTFs for violation of provisions :		
	a) No. of Show-cause notices issued to HCFs	:	130
	b) No. of Show-cause notices issued to CBWTFs	:	--
	c) No. of HCFs closed	:	--
	d) No. of CBWTFs closed	:	--
11)	Details on Bio-medical Waste Management Scenario :		
	a) Total Bio-medical Waste Generation in kg/day	:	65231.26
	i. Incinerable	:	2631.71
	ii. Recyclable	:	624.92
	iii. Disposal in secured landfill	:	61974.63
	b) Total Bio-medical Waste collected in kg/day	:	4973.487
	c) Total Bio-medical waste treated and disposed in kg/day	:	4713.36
12)	Steps taken by SPCBs/PCCs for improvement in Bio-medical Waste Management in the State/UT (pl. use Annexure for details)		

Note: Strike off whichever is not applicable.



Details of CBWTFs (use separate sheet if required) :

Annexure -A

S No.	Name of CBWTF & address	No. of HCFs taken membership	Incinerator		Autoclave		Microwave		Hydroclave		Shredder	
			Nos.	Total installed cap. in Kg/day	Nos.	Total installed cap. in Kg/day	Nos.	Total installed cap. in Kg/day	Nos.	Total installed cap. in Kg/day	Nos.	Total installed cap. in Kg/day
1.	Hoswin Incinerator (P) Ltd., 196-197, Ind. Area, Sanwer Road, Indore	510	01	250 kg/hr	01	50 kg/hr	--	--	--	--	01	30 kg/hr
2.	J.A. Hospital, Gwalior	144	01	100 kg/hr	01	120 kg/hr.	--	--	--	--	01	50 kg/hr
3.	Datt Enterprises, Agra	23	01	200 kg/hr	01	100 kg/hr	--	--	01	100 kg/hr	01	100 kg/hr
4.	Indo Water Management & Pollution Control Corpn. Village: Badkhera, Teh. Uchera, Dist. Satna	235	01	100 kg/hr	--	--	--	--	--	--	01	30 kg/hr
5.	Medical Pollution Disposal Committee, Karera, Dist. Shivpuri	Under installation	--	--	--	--	--	--	--	--	--	--
6.	Sagar Medical College, Sagar	Under installation										
7.	Sainath Jan Kalyan Samitti, Sagar	Under installation										
8.	Elite Engineers, Jabalpur	126	01	100 kg/hr	01	250 kg/hr	--	--	--	--	01	50 kg/hr.
9.	Krupa Wastage, Seoni	41	01	50 kg/hr	01	100 kg/hr	--	--	--	--	01	80 kg/hr
10.	Chandra Project, Chhindwara	17	--	--	--	--	--	--	--	--	--	--
11.	Bio Medical Waste Management System, Ratlam	43	01	75 kg/hr	01	1000 lit/cycle	--	--	--	--	01	50 kg/hr
12.	M.P. Bio Medical Waste Disposal System, Katni, Disposal site at Kanchanpur, Shahdol	08	--	--	--	--	--	--	--	--	02	--
13.	Labco Instruments, Lucknow	01	01	50 kg/hr	01	635 lit/hr	--	--	--	--	01	50 kg/hr
14.	Bhopal Incinerator Ltd., 6/5, Sector-H, Inds. Area, Govindpura, Bhopal	197	02	50 kg/hr & 100 kg/hr	02	450 lit/hr	--	--	--	--	01	25 kg/hr
15.	Green Environment Technology, Hoshangabad	11	--	--	--	--	--	--	--	--	01	20 kg/hr
16.	Peoples Medical College, Bhopal	05	01	20 kg/hr	--	--	--	--	--	--	01	25 kg/hr
17.	Environmental Protection Corporation, Sehore	Under installation										