



MADHYA PRADESH POLLUTION CONTROL BOARD

Paryawaran Parishar, E-5, Arera Colony, Bhopal - 462016

No. 100 /BMW/MPPCB/2018

Bhopal

Date: 31/7/2018

To

Shri B. Vinod Babu,
AD & I/C HWMD,
Central Pollution Control Board,
Parivesh Bhawan, East Arjun Nagar,
Shahdara, Delhi - 32

Sub: Annual Report on Bio-medical Waste Management for the year - 2017 in compliance to the Bio-medical Waste Management Rules, 2016, as amended, March 2018 -reg.

Ref: Your letter No. 6079 dt. 22.06.2018.

With reference to the above cited letter please find enclosed herewith the Annual Report on Bio-medical Waste Management in Madhya Pradesh as per Bio-medical Waste Management Rules, 2016, for the year 2017, in requisite Format-IV-A.

For your kind perusal please.

Encl. As above.

(A.A. Mishra)
Member Secretary

Encl. No. 101 /BMW/MPPCB/2018

Bhopal

Date: 31/7/2018

Copy to :-

1. Ministry of Environment Forests & Climate Change, Indira Paryawaran Bhawan, Aliganj, Jor Bagh Road, New Delhi-110003 for information please.
2. Deputy Secretary, Environment Deptt. Govt. of M.P., Mantralaya, Bhopal, for your kind information.
3. IT Incharge, MPPCB, Bhopal for uploaded on Board's web site.

For n.a. H.
EE(IT)
4/8/18

(A.A. Mishra)
Member Secretary

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, 2017 to December, 2017

- | | | |
|--------|---|---|
| (1) | Name of the Organisation | : M.P. Pollution Control Board, Bhopal |
| (2) | Name of the Nodal Officer with contact telephone no. & e-mail | : Shri R.K. Mahiya, Chief Chemist
(0755 – 464428,466191) |
| (3) | Total no. of Health Care Facilities/Occupiers | : 6362 |
| (i) | Bedded Hospitals & Nursing Homes (bedded) | : 2836 |
| (ii) | Clinics, dispensaries | : 2153 |
| (iii) | Veterinary institutions | : 259 |
| (iv) | Animal houses | : - |
| (v) | Pathological laboratories | : 663 |
| (vi) | Blood banks | : 17 |
| (vii) | Clinical establishment | : 413 |
| (viii) | Research Institutions | : 02 |
| (ix) | Ayush | : 19 |
| (4) | Total no. of beds | : 87165 |
| (5) | Status of authorisation | : |
| (i) | Total no. of HCFs applied for authorisation | : 3272 |
| (ii) | Total no. of HCFs granted authorisation | : 3250 |
| (iii) | Total no. of application under consideration | : 00 |
| (iv) | Total no. of application rejected | : 22 |
| (v) | Total no. of HCFs in operation without applying for authorisation | : 3090 |
| (6) | Quantity of Bio-medical Waste Generation (in kg/day) | : 14824.00 |
| | (List of District wise Bio-medical Waste generation enclosed as per part-2) | : Annexure-I |
| a. | Bio-medical waste generation by bedded hospitals(in kg/day) | : 11,735.00 |
| b. | Bio-medical waste generation by non-bedded hospitals (in kg/day) | : 3082.00 |
| c. | Any other | : 7.0 |
| | Total | : 14,824.00 Kg/day |
| (7) | Bio-medical waste treatment & disposal | |
| a. | By Captive bio-medical waste treatment and disposal by Health Care Facilities. (List enclosed as per part-3) | : Annexure-II |
| (i) | No. of Health Care Facilities having captive treatment & disposal facilities | : 01 |
| (ii) | Total Bio-medical waste treated and disposed by captive treatment facility in (kg/day) | : 204.00 Kg/day |
| (b) | Bio-medical waste treatment & disposal by Common Bio-medical Waste Treatment Facilities (List enclosed as per part-4) | : Annexure-III |
| (i) | Number of Common Bio Medical Waste Treatment Facilities in | : 13 |

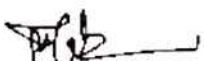


- Operation
- (ii) Number of Common Bio Medical Waste Treatment Facilities under construction : **13569**
- (iii) Total bio medical waste treated in Kg/day : **13187.00 Kg/day**
- (iv) Total treated bio-medical waste disposed through authorised recyclers in (kg/day) : **2014.00 Kg/day**
- (8) Total no. of violation by:
- (i) Health Care Facilities (bedded and non-bedded) : **1339**
- (ii) Common Bio-Medical Waste Treatment Facilities : **09**
- (iii) Others : **---**
- (9) Show cause notices/directions issued to defaulters :
- (i) Health Care Facilities (bedded and non-bedded) : **643**
- (ii) Common Bio-Medical Waste Treatment Facilities : **09**
- (iii) Others : **---**
- (10) Any Other relevant information
- (i) No. of workshops/trainings conducted during the year : **31**
- (ii) No. of Occupiers installed liquid waste treatment facility : **470**
- (iii) No. of Captive incinerators complying to the norms : **01**
- (iv) No. of Occupiers organised trainings : **91**
- (v) No. of Occupiers constituted Bio-medical Waste Management Committees : **37**
- (vi) No. of Occupiers submitted Annual Report : **776**
- (vii) No. of Occupiers practising pre-treatment of lab microbiology & Bio-technology waste : **58**
- (viii) No. of Common Bio-medical Waste Treatment Facilities that have installed Continuous On line Emission Monitoring System : **08**



31.07.2018

राजेंद्र मालवीय
विज्ञानिक


Rajendra Malviya
Chief Chemist

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

S. No.	Name of the State/Union Territory	Name of District	Bio-medical Waste Generation (in Kg/day)	Existing Total bio-medical waste treatment capacity (both captive and CBWTF) in Kg/day	
				Equipment	Total
1	Madhya Pradesh	Sheopur	75	Incinerator	9607
2		Morena	327	Auto Clave	3604
3		Bhind	209	Shredder	
4		Gwalior	1979	Deep Burial	358
5		Datia	90	ETP	
6		Shivpuri	72	Any Others	
7		Guna	184		
8		Ashok Nagar	26		
9		Rajgarh	45		
10		Dewas	129		
11		Shajapur	105		
12		Ratlam	146		
13		Ujjain	245		
14		Agar-Malwa	55		
15		Mandsour	116		
16		Neemuch	88		
17		Indore	3577.93		
18		Burhanpur	190.88		
19		Khargone	477.38		
20		Badwani	123.96		
21		Khandwa	443		
22		Dhar	244.77		
23		Alirajpur	38		
24		Jhabua	65		
25		Bhopal	1418.89		
26		Schore	133.37		
27		Raisen	10.34		
28		Vidisha	181.18		
29		Betul	103.02		
30		Hoshangabad	190.25		
31		Harda	55.85		
32		Sagar	163		
33		Damoh	77		
34		Panna	58		
35		Chhatarpur	117		
36		Tikamgarh	101		
37		Jabalpur	1045		
38		Narsinghpur	184		
39		Seoni	148		
40		Mandla	51		
41		Balaghat	136		
42		Chhindwara	184		
43		Katni	222		
44		Rewa	410.87		
45		Sidhi	87		
46		Singrauli	90.54		
47		Satna	223		

48		Umari	40		
49		Shahdol	96		
50		Dindori	83.5		
51		Anuppur	60		



31-07-2018

राजेंद्र ज. मलवीया
रासायनिक


Rajendra J. Malviya
Chief Chemist


Annexure-II

Part-3 Information on HCFs having captive treatment facilities (for the Year 2017)

S. N o.	Name & address of the HCF	Quantity of Bio-medical Waste generation (in kg/day)					Total installed treatment capacity in kg/day				Total bio-medical waste treated in kg/day	
		Yellow	Red	Blue	White	Total bio-medical waste generated (in kg/day)	Incinerator	Autoclave	Deep Burial	Any other		
1.	Sanjay Gandhi Medical College, Rewa	184.00	8.54	8.93	2.8	204.27	100Kg/hr.	350 Lit/cycle	--	01 shredder (capacity 35 Kg/hr.)	Incinerator:	184.00
											Autoclave:	20.27
											Deep Burial:	--
											Any other:	--
	Total	184.00	8.54	8.93	2.8	204.27	100 Kg/hr.	350 Lit/cycle		35 Kg/hr.	Total:	204.27



31.07.2018


Rajendra Malviya
Chief Chemist

Annexure-III

Part – 4 Information on Common Bio-medical Waste Treatment & Disposal Facilities (CBWTFs)

(For the Year 2017)

Sr. No.	Name & Address of CBWTF with contact person name and Telephone no.	GPS Coordinates	Coverage 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/ Sharps/ Plastics)
								Equipment	Nos.	Total installed capacity (in Kg/day)		
1.	M/s. Elite Engineers, 48, Narmada Road, Jabalpur	Lat. : 23.21 48 68 Long : 79.91 80 27	350	Jabalpur, Katni, Seoni, Mandla, Narsingpur, Balaghat & Dindori	461	11,109	1869.5	Incinerator	1	100 Kg/hr.	1300	Incineration Ash:
								Plasma pyrolysis	--	--	--	Quantity disposed by : Municipal land fill.
								Autoclave	1	200 Liter/Cycle	569.5	Sharps:
								Hydroclave	--	--	--	Quantity disposed by : Sharp Pit
								Microwave	--	--	--	Plastics:
								Shredder	1	50 Kg/hr.	--	
								Sharps encapsulation or concrete pit	1	20 Kg	--	Quantity disposed by : Sold to recycler
								Deep burial pits	--	--	--	ETP Sludge
								Any other equipment	--	--	--	Quantity disposed by : Municipal Land Fill
								Effluent Treatment Plant	1	5 KLD	--	
Sub Total								5	--	1869.5		

2.	M/s. Chandra Project, Lal Bag, Ward No. 6, Chhindwara	--	110	Chhindwara	68	1413	240	Incinerator	--	--	--	Incineration Ash:
								Plasma pyrolysis Autoclave	--	--	--	Quantity disposed by :
								Autoclave	1	25 Liter/Cycle	60	Sharps: Quantity disposed by : Sharp Pit
								Hydroclave	--	--	--	
								Microwave	--	--	--	Plastics:
								Shredder	2	20 Kg/hr.	--	Quantity disposed by :
								Sharps encapsulation or concrete pit	1	--	--	Sold to recycler
								Deep burial pits	05	--	180	ETP Sludge
								Any other equipment	--	--	--	Quantity disposed by :
								Effluent Treatment Plant	--	--	--	
								Sub Total	9	--	240	
3	M/s. Horwin Incinerator Pvt. Ltd., 196 A-198 B, Sector-F, Sanwer Road, Indore	Lat.: 22.71 96 Long.: 75.85 77	150	Indore, Bursanpur, Barwaha, Barwani, Khandwa, Sandwa, Khargone, Rau, Mhow, Sanawad, Sanwer, Dhar, Ujjain, Dewas, Shajapur, Jabhua, Rajgarh, Altrajpur, Badnagar,	1067	19113	4214	Incinerator	2	850 & 250 Kg/hr.	3537	Incineration Ash:
								Plasma pyrolysis Autoclave	--	--	--	Quantity disposed by : TSDF, Pithampur
								Autoclave	1	400 Liter/Cycle	677	Sharps:
								Hydroclave	--	--	--	Quantity disposed by : Sharp Pit
								Microwave	--	--	--	Plastics:
								Shredder	4	300 Kg/hr.	--	Quantity disposed by :
								Sharps encapsulation or concrete pit	1	--	--	Sold to recycler
								Deep burial pits	--	--	--	ETP Sludge
								Any other equipment	--	--	--	Quantity disposed by : TSDF
								Effluent Treatment Plant	1	30 KLD	--	
								Sub Total	10	--	4214	

4	M/s. Indo Water Management & Pollution Control Corporation, Satna	200	Satna, Panna, Chhatarpur, Damoh, Rewa, Sidhi, Singrauli & Tikamgarh.	506	7573	1278	Incinerator	1	100 Kg/hr.	713	Incineration Ash: Quantity disposed by : Secured land fill,
							Plasma pyrolysis	--	--	--	
							Autoclave	1	300 Liter/Cycle	565	Sharps: Quantity disposed by : Sharp Pit
							Hydroclave	--	--	--	Plastics:
							Microwave	--	--	--	
							Shredder	1	420 Kg/hr.	--	Quantity disposed by : Sold to recycler
							Sharps encapsulation or concrete pit	2	--	--	ETP Sludge
							Deep burial pits	--	--	--	Quantity disposed by : Secured Land Fill
							Any other equipment	--	--	--	
							Effluent Treatment Plant	1	20 KLD	--	
							Sub Total	6	--	1278	
5.	M/s. M.P. Bio-Medical Waste Disposal System, Umaria	150	Shahdol, Anuppur & Umaria	131	2236	206	Incinerator	1	50 Kg/hr.	156	Incineration Ash: Quantity disposed by : Sharps: Quantity disposed by : Sharp Pit
							Plasma pyrolysis	--	--	--	Plastics:
							Autoclave	1	120 Liter/Cycle	50	Quantity disposed by : Sold to recycler
							Hydroclave	--	--	--	ETP Sludge
							Microwave	--	--	--	Quantity disposed by :
							Shredder	1	20 Kg/hr.	--	
							Sharps encapsulation or concrete pit	1	--	--	
							Deep burial pits	--	--	--	
							Any other equipment	--	--	--	
							Effluent Treatment Plant	1	15 KLD	--	
							Sub Total	5	--	206	

6	M/s. Bio-Medical Waste Management System, Ratlam	--	171	Ratlam, Mandasour, Neemuch	168	3706	310	Incinerator	1	50 Kg/hr.	250	Incineration Ash: Quantity disposed by : Municipal land fill,
								Plasma pyrolysis	--	--	--	
								Autoclave	1	220 Liter/Cycle	60	Sharps: Quantity disposed by : Sharp Pit
								Hydroclave	--	--	--	
								Microwave	--	--	--	Plastics:
								Shredder	1	25 Kg/hr.	--	Quantity disposed by : Sold to recycler
								Sharps encapsulation or concrete pit	1	--	--	
								Deep burial pits	--	--	--	ETP Sludge
								Any other equipment	--	--	--	Quantity disposed by : Municipal Land Fill
								Effluent Treatment Plant	1	6KLD	--	
								Sub Total	5	--	310	
7	M/s. Labco Instruments, S- 419, Sharda Trade Center, Faizabad Road, Indira Nagar, Lucknow (U.P.) (Transportation)		10	Vindhyasagar, NTPC, Singrauli	01	68	14.34	Incinerator	1	50 Kg/hr.	10	Incineration Ash: Quantity disposed by : Municipal land fill,
								Plasma pyrolysis	--	--	--	
								Autoclave	1	300 Liter/Cycle	4.34	Sharps: Quantity disposed by : Sharp Pit
								Hydroclave	--	--	--	
								Microwave	--	--	--	Plastics:
								Shredder	1	50 Kg/hr.	--	Quantity disposed by : Sold to recycler
								Sharps encapsulation or concrete pit	1	--	--	
								Deep burial pits	--	--	--	ETP Sludge
								Any other equipment	--	--	--	Quantity disposed by : Municipal Land Fill
								Effluent Treatment Plant	--	--	--	
								Sub Total	4	--	14.34	

8	M/s. J.K. Medical Waste Management System, Tehsil Chanderi, Dist. Ashok Nagar	—	150	Guna Shivpuri, Ashoknagar & Tikamgarh	90	2677	301	Incinerator	1	100 Kg/hr.	243	Incineration Ash:
								Plasma pyrolysis	—	—	—	Quantity disposed by : Secured land fill,
								Autoclave	1	250 Liter/Cycle	58	Sharps: Quantity disposed by : Sharp Pit
								Hydroclave	—	—	—	Plastics: Quantity disposed by : Sold to recycler
								Microwave	—	—	—	
								Shredder	1	75 Kg/hr.	—	ETP Sludge
								Sharps encapsulation or concrete pit	—	—	—	
								Deep burial pits	—	—	—	Quantity disposed by : Municipal Land Fill
								Any other equipment	—	—	—	
								Effluent Treatment Plant	—	—	—	
Sub Total								3	—	301		
9	People's College of Medical Science & Research Centre, Bhopal	—	50	Peoples Group Hospital, Bhopal	5	1750	85.95	Incinerator	1	50 Kg/hr.	56	Incineration Ash:
								Plasma pyrolysis	—	—	—	Quantity disposed by : TSDF, Pithampur
								Autoclave	1	350 Liter/Cycle	29.95	Sharps: Quantity disposed by : Sharp Pit
								Hydroclave	—	—	—	Plastics: Quantity disposed by : Sold to recycler
								Microwave	—	—	—	
								Shredder	1	25 Kg/hr.	—	ETP Sludge
								Sharps encapsulation or concrete pit	1	—	—	
								Deep burial pits	1	—	—	Quantity disposed by : TSDF, Pithampur
								Any other equipment	—	—	—	
								Effluent Treatment Plant	1	5 KLD	—	
Sub Total								6	—	85.95		

10	Bundelkhand Medical College, Sagar (Davis Surgico) (Due to modernization and shifting of plant, bio-medical waste has been treated by M/s. Elite Engineer, Jabalpur)	-	80	Sagar, Damoh & Tikamgarh	104	2685	206.513	Incinerator	--	--	150	Incineration Ash: Quantity disposed by : Incinerate by M/s. Elite Engineer, Jabalpur
								Plasma pyrolysis	--	--	--	
								Autoclave	1	250 Liter/Cycle	56.513	Sharps: Quantity disposed by : Sharp Pit
								Hydroclave	--	--	--	Plastics: Quantity disposed by : Sold to recycler
								Microwave Shredder	1	50 Kg/hr.	--	
								Sharps encapsulation or concrete pit	--	--	--	ETP Sludge Quantity disposed by :
								Deep burial pits	--	--	--	
								Any other equipment	--	--	--	Quantity disposed by :
								Effluent Treatment Plant	--	--	--	
								Sub Total	2	--	206.51	
11	J.A.Group of Hospital, Gwalior (Davis Surgico)	-	80	Gwalior, Bhind, Datia & Morena	281	7802	2355	Incinerator	1	100 Kg/hr.	1660	Incineration Ash: Quantity disposed by :
								Plasma pyrolysis	--	--	--	
								Autoclave	1	120 Liter/Cycle	695	Sharps: Quantity disposed by : Sharp Pit
								Hydroclave	--	--	--	Plastics: Quantity disposed by : Sold to recycler
								Microwave Shredder	1	50 Kg/hr.	--	
								Sharps encapsulation or concrete pit	1	--	--	ETP Sludge Quantity disposed by :
								Deep burial pits	--	--	--	
								Any other equipment	--	--	--	Quantity disposed by :
								Effluent Treatment Plant	1	10 KLD	--	
								Sub Total	5	--	2355	

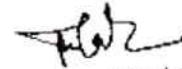
12	Bhopal Incinerator Pvt. Ltd., 6/5 H-Sector, Industrial Area, Govindpora, Bhopal	Lat. : 23.26 52 Long : 77 45 01	677	Bhopal & Raipur	686	11034	1148.20	Incinerator	2	100 & 50 Kg/hr.	709.15	Incineration Ash: Quantity disposed by : TSDF, Pithampur,
								Plasma pyrolysis	--	--	--	
								Autoclave	2	450 Liter/Cycle each	439.05	Sharps: Quantity disposed by : Sharp Pit
								Hydroclave	--	--	--	
								Microwave	--	--	--	Plastics:
								Shredder	3	100, 50 & 25 Kg/hr.		Quantity disposed by : Sold to recycler
								Sharps encapsulation or concrete pit	1	--	--	
								Deep burial pits	--	--	--	ETP Sludge
								Any other equipment	--	--	--	Quantity disposed by : CETP, Member
								Effluent Treatment Plant	--	--	--	
								Sub Total	8	--	1148.20	
13	Environmental Protection Corporation, Sehore	Lat. : 23.184 Long. : 77.083	1545	Sehore, Betul, Harda, Hoshangabad & Vidisha, Bhopal	234	6807	958.72	Incinerator	1	100 Kg/hr.	638.50	Incineration Ash: Quantity disposed by : TSDF, Pithampur
								Plasma pyrolysis	--	--	--	
								Autoclave	1	80 Liter/Cycle	320.22	Sharps: Quantity disposed by : Sharp Pit
								Hydroclave	--	--	--	Plastics:
								Microwave	--	--	--	Quantity disposed by : Sold to recycler
								Shredder	1	35 Kg/hr.		
								Sharps encapsulation or concrete pit	1	--	--	ETP Sludge
								Deep burial pits	--	--	--	Quantity disposed by : TSDF, Pithampur
								Any other equipment	--	--	--	
								Effluent Treatment Plant	1	3KLD	--	
								Sub Total	5	--	958.72	

- (a) Total Number of transportation vehicles used for collection of Bio-medical Waste on daily basis by the Common Bio-Medical Waste Treatment Facilities : **83**
- (b) List of Health Care Facilities not having membership with the Common Bio-Medical Waste Management Facilities and neither having captive treatment facilities : **677 (List enclosed, Annexure-IV)**
- (c) Number of training organized by the Common Bio-Medical Waste Treatment Facilities operators : **43**
- (d) Number of Accidents reported by the Common Bio Medical Waste Treatment Facilities: --



31.07.2018

उपकुमारी सिंह
विज्ञापक



अ. जे. नं. 10/2018
अ. जे. नं. 10/2018