



**RAJASTHAN STATE POLLUTION CONTROL BOARD**

Institutional Area, Jhalana Doongri, Jaipur  
Phone: 5101871, 5101872 PBX 5159600, 5159699, Fax: 5159694,  
5159695, 5159696, 5159697

Registered A/D

No. F.16(Gen-14)/BMW/SWMC/RPCB/Jaipur/ 449

DATE: 23-03-18

Member Secretary,  
Central Pollution Control Board,  
Parivesh Bhawan, East Arjun Nagar,  
Delhi-110032.

Sub: Regarding Annual Report for Bio-Medical Waste (Management & Handling) Rules 2016, for the year 2017.

Ref:- Your letter no. B-31011/BMW (2.22)/2017/WMD-I/13474 dated 4.12.2018.

Sir,

May kindly refer to aforesaid letter indicating certain data gap and short coming in the annual report on Bio-Medical Waste Management Rules 2016 furnished for the year 2017. The point wise comments of Board on the issue raised are as under:-

1. The difference in the quantity of bio medical waste generated & treated/disposed is due to the fact that all the HCFs in the State are not connected with the CBWTFs as in some of the part of the State, there is no CBWTF in the radius of 75 kilometers. Further, the figure of bio medical waste generated has been estimated by HCFs based on per bed generation of bio medical wastes, where as the quantity of bio medical waste treated and disposed is based on the actual quantity being treated/disposed by the CBWTFs in the State.
2. The difference in total number of HCFs and HCFs obtained authorization is due to the fact that the figure 1881 is for the period from 1.1.2017 to 31.12.2017. However, total number of HCFs under authorization is 3141 including authorization granted in previous year also. State Board is taking action against the HCFs which are still in operation without authorization under the Rules.
3. The fact is that all the HCFs do not have laboratories with them and thus do not generate liquid waste for treatment, so the figure 721 is on actual basis.
4. The difference in the total number of HCFs in not matching with HCFs applied, granted, rejected, under consideration & without applying for authorization given in annual report for year 2017 to the reasons that it does not include data of previous year i.e. for year 2016.
5. Though 3 number CBWTFs having deep burial pits but they are not utilized for disposal of either bio medical waste or incinerated ash.
6. Presently OCEMS have been provided by 3 number CBWTFs due to continue affords of the State Board. Rest of the CBWTFs are being pursued for installation of OCEMS.

Yours sincerely,

(Shaija Deval)

Member Secretary

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RAJASTHAN STATE POLLUTION CONTROL BOARD  
4, Institutional Area, Jhalana Doongari JAIPUR-302 004  
Phone: 5159600, 5159699 Fax: 5159695, 5159697

F16 (Gen-14)/BMW/SWMC /RPCB/Jaipur/344 & 246 Date: 10-08-18

Member Secretary,  
Central Pollution Control Board,  
Parivesh Bhavan, East Arjun Nagar,  
Delhi.

Sub:- Submission of Annual Report (2017) on Bio medical Waste Management and  
per Bio medical Waste Management Rules, 2016-reg

Ref.:- CPCB letter no: - B-31011/BMW(2.22)/2018/WMD-I/6086 dated 22.06.2018.

Sir,

With reference to above, please find enclosed herewith the Annual Report for the  
period 01.01.2017 to 31.12.2017 on Biomedical Waste Management as required under  
Biomedical Waste Management Rules, 2016. The compiled information is hereby forwarded  
in prescribed format of form IV-A, as prescribed under BMW, Rules 2016 and amendment  
thereof.

Encls:- As Above

Yours Sincerely

(K.C.A. Arun Prasad)  
Member Secretary  
o/c

Copy to :-

1. Ad & I/C, HWMD, Central pollution Control Board, Parivesh Bhavan, East Arjun Nagar, Delhi.
2. Zonal Officer, CPCB, Sahkar Bhawan, North T.T.Nagar, Bhopal- 462003

Senior Environmental Engineer (BMW)  
o/c

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**BIO MEDICAL WASTE MANAGEMENT**  
**ANNUAL REPORT-2017**

(PERIOD - 01.01.2017 to 31.12.2017)

**FORM-IV-A**

**Part-I (Summary of Information)**

- (1) Name of the Organisation: Rajasthan State Pollution Control Board, Jaipur
- (2) Name of the Nodal Officer with contact telephone number and e-mail: Sh. Veer Singh Brijvasi
- (3) Total no. of Health Care Facilities / Occupiers : 5974
- (i) Bedded Hospitals and Nursing Homes (bedded) : 4458
- (ii) Clinics, dispensaries : 915
- (iii) Veterinary institutions : 109
- (iv) Animal houses : 02
- (v) Pathological laboratories : 451
- (vi) Blood banks : 14
- (vii) Clinical establishment : 00
- (viii) Research Institutions : 02
- (ix) AYUSH : 04
- (4) Total no. of beds : 111838
- (5) Status of authorization : As Under
- (i) Total number of Occupiers applied for authorization : 1815
- (ii) Total number of Occupiers granted authorization : 1881
- (iii) Total number of application under consideration: 469
- (iv) Total number of applications rejected : 23
- (v) Total number of Occupiers in operation without applying for authorization : 317
- (6) Quantity of Bio-medical Waste Generation (in kg/day) :- 22502.57 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) : 21879.88
- (ii) Bio-medical waste generation by non-bedded hospitals (in kg/day) : 555.94
- (iii) Any other : 66.75
- Total : 22502.57 Kg/day
- (7) Bio-medical waste treatment and disposal
- (i) By Captive bio-medical waste treatment and disposal by Health Care Facilities (please enclose details as per Part-3)
- (ii) Number of Health Care Facilities having captive treatment and Disposal facilities : 987
- (iii) Total bio-medical waste treated and disposed by captive treatment facilities in kg/day : 2427.17
- (iv) Bio-medical waste treatment and disposal by Common Bio Medical Waste Treatment Facilities (please enclose details as per Part 4)
- (v) Number of Common Bio Medical Waste Treatment Facilities in Operation : 09
- (vi) Number of Common Bio Medical Waste Treatment Facilities under construction/Proposed : 07
- /s/

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**BIO MEDICAL WASTE MANAGEMENT**  
**ANNUAL REPORT-2017**  
**(PERIOD – 01.01.2017 to 31.12.2017)**

**FORM-IV-A**

- (i) Total bio-medical waste treated in kg/day : 13739.82
- (ii) Total treated bio-medical waste disposed through authorized recyclers ( in Kg/day) :2849
- (3) Total no. of violation by : 1282
- (i) Health Care Facilities (bedded and non-bedded):1279
- (ii) Common Bio Medical Waste Treatment Facilities :03
- (iii) Others (please specify) : 00
- (9) Show cause notices/directions issued to defaulters :1364
- (i) Health Care Facilities (bedded and non-bedded) : 1361
- (ii) Common Bio Medical Waste Treatment Facilities : 03
- (iii) Others : 00
- (10) Any other relevant information:
- (i) Number of workshops / trainings conducted during the year :02
- (ii) Number of occupiers installed liquid waste treatment facility :721
- (iii) Number of captive incinerators complying to the norms :0
- (iv) Number of occupiers organized trainings :736
- (v) Number of occupiers constituted Bio-medical Waste Management Committees :742
- (vi) Number of occupiers submitted Annual Report for the previous calendar year :1578
- (vii) Number of occupiers practicing pre-treatment of lab microbiology and Bio-technology waste : 930
- (viii) Number of Common Bio Medical Waste Treatment Facilities that have installed Continuous Online Emission Monitoring Systems : 03

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

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	
				Equipment	Total
1.	Rajasthan	Barmer	566	Equipment	Total
		Jalore	428	Incinerator:	
		Pali	171.206	Autoclave:	
		Sirohi	51.5	Deep	
		Jhalawar & Baran	730	Burial:	
		Kota & Bundi	410	Any other:	

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**BIO MEDICAL WASTE MANAGEMENT**  
**ANNUAL REPORT-2017**  
**(PERIOD – 01.01.2017 to 31.12.2017)**

**FORM-IV-A**

		Bhilwara	866.40		
		Rajsamand	351.6		
		Sikar	840.37		
		Jhunjhunu	779		
		Churu	510.15		
		Jaipur	6591.40		
		Dausa	311.75		
		Jodhpur	737.66		
		Alwar	742.69		
		Eharatpur	740.44		
		Dholpur	244.85		
		Karauli	335.80		
		Sawaimadhopur	537.16		
		Ajmer, Nagaur & Tonk	2242.85		
		Udaipur	1303.8		
		Dunagrpur	210		
		Chittorgarh, Banswara, Pratapgarh	1057.80		
		Hanumangarh	430.841		
		Sriganganar	689.336		
		Bikaner	603.169		

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

S. No.	Name and address of the Health Care Facility	Quantity of Biomedical Waste Generation (Kg/Day)					Total bio-medical waste generated (in kg/day)	Total Installed Treatment Facility in Kg/Day					Total bio- medical waste treated and disposed by Health Care Facilities in kg/day			
		Yellow	Red	Blue	White			Incinerator	Autoclave	Deep Burial	Any other					
NIL																
																Incinerator: Autoclave: Deep Burial: Any other:

\* As per the Policy, the State Board is not allowing captive bio medical waste treatment facilities where a Common Biomedical Waste Treatment Facility is operating within the prescribed area. However, the deep burial pits are constructed in rural areas where a Common Biomedical Waste Treatment Facility are not available.

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Part - 4 Information on Common Bio-medical Waste Treatment & Disposal Facilities (for the Previous year 2017)  
(1.1.17 to 31.12.17)

Sr. no.	Name & address of the 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 ECIs 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 waste (Incineration Ash/Sharps/ Burial)		
								Equipment	Nos.			Total installed capacity (kg/day)	
1.	E Tech Project Hanumanagarh Sriganagar Sh. Chanshyam Rajpurohit, 9352680001	Hanumanagarh Lat: 29.642939N Log: 74.315853 E	150	Hanumanagarh and Sriganagar	338	4796	1278.83	Incinerator	1	2400	1100	Incineration Ash: Deep Burial Quantity: 30 Disposed by: Burial	
								Plasma Pyrolysis Autoclave	0				
								Hydroclave	0	600			25
								Microwave	0				
								Shredder	1	600			
	Sharps encapsulation or concrete pit	0											
	Deep burial	0									Plastics: Quantity: 22 kg Disposed by: Recycler		

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2.	E Tech Project Bikaner Manish Rajpurohit 931442517	Bikaner Lat. 27.5958.40 N Log 73.1842.23 E	150	Bikaner Churu Nagour	188	3764	548.07	pils				Incineration Ash: Deep Burial Quantity: 40-50 kg/day Disposed by: Concrete pit	
								Any other equipments	1				
									Effluent Treatment Plants	1	1000	00	ETP Sludge Quantity: 30 Kg/month Disposed by: Deep Burial
									Sharps encapsulation or concrete pit				Plastics: Quantity: 2-3 kg/day Disposed by:
									Hydroclave	0	0	0	
									Microwave	0	0	0	
									Shredder	1	350	3	
									Autoclave	1	250	7	Sharps: Deep encapsulation pit Quantity: 2-3 kg/day Disposed by: sharp pit
									Plasma Pyrolysis				



03		Ms Envision Enviro Engineers Pvt. Ltd.	150 Km radius	Udaipur, Dungarpur, Banswara, Chittor, Paratapgarh Rajseemand, Sirohi	331	8519	1000.00Kg/day	Recycler
Deep burial pits								
Any other equipments								
Effluent Treatment Plants	1	1	00				ETP Sludge Quantity: 70-80 kg/month Disposed by: Deep Burial	
Sub Total -	3							
Incinerator	1	50 Kg/Hr	864.7 Kg/Day				Incineration Ash: Deep Burial Quantity: Disposed by: Deep Burial	
Plasma Pyrolysis	1	50 Kg/Hr	139.39 Kg/Day					
Autoclave	1	50 Kg/Hr					Sharps: Deep encapsulation pit Quantity: Disposed by: Sharp pit	
Hydroclave								
Microwave								
Shredder								
Sharps encapsulation or concrete pit							Plastics: Quantity: Disposed by: Recycler	
Deep burial								

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		pics									
		Any other equipments		Effluent Treatment Plants							
4.	Sales Promoter , ADB Site, Sanderiya Road, Parbatpura Ajmer	NA		150 KM		District- Ajmer, Bhilwara		99		3151	2095
		Sub Total -	4								
		Incinerator	1	100 Kg/hr	1940 Kg/Day						Incineration Ash: Collected in black polybags and shall be send to secured land fill Udaipur after sufficient load.
		Plasma Plyrolysis	1	40 Kg/Hr	45Kg/Day						
		Autoclave	1	35 Kg/Hr	8-10 Kg						Sharps: disposed in Sharp Pit
		Hydroclave									
		Microwave									
		Shredder									
		Sharps encapsulation or concrete pit									Plastics: Quantity: Sent for recycling
		Deep burial pits									
		Any other equipments									
		Effluent Treatment	01	5 KLD	01						ETP Sludge

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Plants	Sub Total -		Incinerated	
	Quantity	Value	Quantity	Value
Incinerator	4		4	
Plasma Pyrolysis	1	100 Kg/hr	1	588.90 Kg/Day
Autoclave	0	0	0	
	1	40+80 Kg/Hr	1	75.09 Kg
Hydroclave	0	No	0	
Microwave	0	No	0	
Shredder	1	40 Kg/Hr	1	
Sharps encapsulation or concrete pit	1	77*4	1	73.66 Kg
Deep burial pits	0	No	0	
Any other equipments				
Ethient Treatment Plants	01	4.5 KLD	01	
Sub Total -	5		5	

5. Sales Promoter  
 GBWTF, Nagar  
 Nigam Land Fill  
 Site, Bari Post  
 Jodhpur 342001  
 Mr. Basant Rathore  
 Ph.- 9829790902

150 KM

Jodhpur

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Incineration Ash: 6.5 Kg/Day  
 Quantity disposed in municipal land fill  
 Quantity disposed by sharp concrete pits

Disposed in municipal Land Fill

ETYP Sludge Quantity disposed

6:	Hoswin Incinerator Sh. Arvind Bhardwaj Ph:- 8875693666	-	150 Km	Alwar & Bharatpur	Alwar- 193, Bharatpur- 88	749.6 Kg/Day	Incinerator	1	2400 Kg/Day	331.50 Kg/Day	Incineration Ash: Quantity: 7 I Disposed by: Disposal Site
							Plasma Pyrolysis	0	0	0	Sharps: Quantity: 22 Disposed by: Burial
							Autoclave	1	240 Kg/Day	220.1 Kg/Day	
							Hydroclave				
							Microwave	0	No	-	Plastics:-198 Quantity Dis by :- Sold to Recycler
							Shredder	1	240 Kg/Day	198.3 Kg/Day	ETP Sludge
							Sharps encapsulation or concrete pit				
							Deep burial pits	1			
							Any other equipments				
							Effluent Treatment Plants	01	5 KLD	01	

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7	M/s. Hoswin Incinerator Pvt Ltd Khandpur Road Dhanbada, Jhalawar Sh. Goverdhan Paudar Ph:-9660200580	150 Km	Jhalawar & Baran	79	3077	730	Incinerator	1	100 Kg/Hr	730	Incineration Ash: Land Fill Quantity: Disposed by :-
							Plasma Pyrolysis	0	0	0	Sharps: Pit Quantity :- Disposed by :-
							Autoclave	1	55 Kg/Batch	-	
							Hydroclave				
							Microwave	0	No	-	Plastics:- Quantity Dispose by :-
							Shredder	1	50 Kg/hr	-	
							Sharps encapsulation or concrete pit				
							Deep burial pits	0	0	0	0
							Any other equipments				
							Effluent Treatment Plants	01	500 Ltr/Hr	1500 lcr/Day	ETP Sludge Disposed by Land Fill
							Sub Total -	4			

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8	M/s Instrumental India Pvt Ltd 10 Joshi Bagh, Sarvrad Ka Gatta, Tonk Road, Jaipur - 302015 Sh. Himanshu Surti Ph:-0141-2700780	Long- 26.869477 Lat 75.919757	75 Km	Jaipur City,	837	9920	4476.413 Kg/Day	Incinerator 1 250 Kg/Hr	2774.534 Kg/Day	Incineration Ash- Secured land Fill
								Plasma Pyrolysis 0 0 0	0	Quantity :- Disposed by :-
								Autoclave 2 150 Kg/Hr	417.438 Kg	Shurps- Shredder after chemical Wash Quantity:- Disposed by:-
								Hydroclave 0 No	-	
								Microwave 0 No	-	
								Shredder 2 150 Kg/hr	396.556 Kg/Day	Plastic:- Shredder after chemical Wash Quantity:- Disposed by:-
								Shurps encapsulation or concrete pit 1 2000 Kg/Day	1228.654 Kg/Day	
								Deep burial pits 1 500-550 Kg/Day	326.945 Kg/Day	ETP Sludge Quantity disposed
								Any other equipments		
								Effluent Treatment Plans 01 2000 Ltr/Ltr	4302.857 Ltrs/Day Approx	
								Sub Total - 8		

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9	M/s/RR Waste Management, 670 Mauza Dharera, Etanadpura, Agra Office- Block No S-21, Shop No4, Sanjay Place, Agra Name- Sh. Jitendra Sharma Mob: 9997981999	85 Km Approx	Dholpur	52	741	250 Kg/Day Approx	Incinerator	1	200 Kg/Hr	250 Kg/Day	Incineration Ash Quantity: Disposed by:		
							Plasma Pyrolysis	0	0	0		Sharps-Shredder after chemical W Quantity:- Disposed by:	
							Autoclave	1	100 Kg/Hr	-			
							Hydroclave	0	No	-			
							Microwave	0	No	-			
							Shredder	1	100 Kg/hr	-			Plastic:- Disposed by:
							Sharps encapsulation or concrete pit	1	10*12 ft	-			
							Deep burial pits	1	Yes	-			
							Any other equipments						
							Effluent Treatment Plants	01	2000 Ltr/hr	-			
Sub Total -	6												
Incinerator	1	50Kg/Hr	410 Kg/Day	Incineration Ash: Secured land fill Quantity:-									
Plasma Pyrolysis	0	0	0										

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11.	M/s Instronmedix India Pt Ltd, 10 Joshi Bagh, Sayyad Ka Gatta, Tonk Road, Jaipur. 302015 Sh. Himanshu Suri Ph:- 0141-2700780	Long:- 26.869477 Lat 75.919757	75 Km	Jaipur Rural & Dausa	389	5128	1009.043 Kg/Day	Autoclave	1	40	ltr/Batch		Disposed by:- Sharps:-Pit Quantity:- Disposed by:-
								Hydroclave	0	No	-		
								Microwave	0	No	-		
								Shredder	1	20 Kg/Hr	Nil	Plastic:- Quantity:- Disposed by:Recyclers	
								Sharps encapsulation or concrete pit	0				
								Deep burial pits					
								Any other equipments					
								Effluent Treatment Plants	01	1 KLD	-	ETP Sludge:- L Fill	
								Incinerator	1	250 Kg/Hr	445.293 Kg/Day	Incineration Ash: Secured in Fill	
								Plasma Plyrolysis	0	0	0	Quantity : Disposed by : Sharps:-Shredc after chemical Quantity:- Disposed by:-	
								Autoclave	2	150 Kg/Hr	227.180 Kg		
								Hydroclave	0	No	-		
								Microwave	0	No	-		

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Shredder	2	150 Kg/hr	211.838 Kg/Day	Plastic:- Shredder after chemical Wash Quantity:- Disposed by:
Sharps encapsulation or concrete pit	1	2000 Kg/Day	227.142 Kg/Day	
Deep burial pits	1	500-550 Kg/Day	53.436 Kg/Day	ETP Sludge Quantity disposed
Any other equipments				
Effluent Treatment Plants	01	2000 Ltr/hr	631.690 Ltrs/Day Approx	-
Sub Total -	8			

\* Presently Closed as per CPCB Letter dated 05.04.2018

No. of vehicles used for collection of Bio-medical Waste

List of HCFs not having membership with the CBWTFs & neither having captive treatment facilities

Nil

No. of training organised by the CBWTF

No. of accidents:-

(i) Reported

(ii) Remedial measures taken