

**STATUS OF BIO-MEDICAL WASTE MANAGEMENT IN THE COUNTRY AS SUBMITTED BY  
SPCBs/PCCs FOR THE YEAR 2009**

State/UT	Total no. of Healthcare Facilities (HCF) (Approx.)	Total no. of Beds (Approx.)	No. of Common Bio-medical Waste Treatment Facility (CBWTF)/ Private agencies		No. of HCF which are utilizing CBWTF/ private agencies	No. of HCF Having Treatment And Disposal facilities	No. of HCF Applied For Authorization	No. of HCF Granted Authorization	Total no. of treatment equipment (Excluding CBWTF)						Total quantity of BMW generated (kg/day) (Approx.)	Total Quantity of BMW treated (kg/day) (Approx.)	No. of Healthcare Facilities violated BMW Rules	Total No. Of Show Cause Notices/Directions issued to defaulter HCF
			Incinerator						Auto-clave	Micro-wave	Hydro-clave	Shredder						
			With APCD	Without APCD														
			Operational	Under construction														
Andman & Nicobar	26	1142	0	0	0	1	3	1	0	5	1	0	0	0	407	407	-	-
Andhra Pradesh	6040	121,882	13	3	5889	1	5889	5740	1	0	0	0	0	0	14500	13018	173	173
Arunachal Pradesh	42	650	0	0	0	02	08	03	0	02	0	0	0	0	60	60	0	0
Assam	1004	19331	1	0	75	194	341	73	32	171	113	38	0	107	4595	2599	208	130
Bihar	1965	22871	01	02	135	502	744	637	14	10	3	0	0	5	3572	3095	1221	478
Chandigarh (as on Dec. 31, 2009)	578	3560	01	0	541	4	34	33	03	0	0	0	0	04	1201	1201	32	01
Chhattisgarh	650	13061	06	0	391	125	436	349	07	01	268	07	0	303	5852	5701	20	20
Daman & Diu and Dadra & Nagar Haveli	73	623	01	0	68	0	73	68	0	0	0	0	0	0	65	65	0	0
Delhi (01.01.09 to 31.12.09)	1732***	37607	3	0	2950*	22**	1462	1263	13	0	17	3	0	20	9859	9859	165+	38
Goa	234	4271	0	0	0	1	234	226	0	2	52	1	0	0	2438	2438	1	1



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			Incinerator						Auto-clave	Micro-wave	Hydro-clave	Shredder						
			With APCD	Without APCD														
Orissa	1237	27000	3*	0	303	491	261	341	09	01	520	07	0	19	5089	3542	105	76
Pudducherry	109	6608	0	1*	0	10	49	49	7	4	11	0	0	0	2394	2394	23	23
Punjab	2376	38864	4	1*	2376	0	2017	1838	0	0	0	0	0	0	6903	6903	170	152
Rajasthan	3916	101634	11	3*	2602	520	2640	2392	4	0	136	0	2	582	19591	11816	946	642
Sikkim	Information not provided as per the prescribed Formats																	
Tamilnadu	3569	118504	10	1	3569	0	3062	2945	0	0	0	0	0	0	21418	21418	507	262
Tripura	1055	3576	0	0	0	0	359	359	2	0	0	0	0	0	553 <sup>#</sup>	Un-assessed	Un-assessed	0
Uttrakhand	589	10096	2	0	268	321	436	258	03	0	232	76	0	256	1872	740	288	41
Uttar Pradesh	4664	91226	16	0	4228	23	2254	2200	3	1	0	0	1	168	44392	42237	532	532
West Bengal	4747	92950	7	0	4116	18	2688	2221	1	0	16	02	0	14	23571	12472	632	632
Total	129511	1368839	168	17	95410	20670	57180	53813	250	297	2569	173	7	4271	405702	291983	13037	14898

Note: The above status is based on information submitted by the respective SPCB/PCC. Information from Sikkim SPCB has not been included as the same is not as per prescribed formats.

*Above details excluding the Bio-medical wastes generated (about 9254.0 Kg per day) & the same being treated from Armed Forces Health Care Establishments.*

**Andaman & Nicobar**

Sh. Rishikesh of Andman. & Nicobar PCC informed telephonically that 5 nos of incinerators installed at HCFs are without APCD.

**Andhra Pradesh**

No. of HCFs obtained Authorization	:	5740
No. of Application under consideration	:	149

**Arunachal Pradesh**

APSPCB informed telephonically that 1 no. of incinerator installed at HCF is with APCD.

**Assam**

No. of HCF utilizing CBWTF	:	69
No. of HCF utilizing AMCH's treatment facility	:	06

**Bihar**

Out of 744, there are 64 HCFs have applied for Consent under Water Act, 1974 and the Air Act, 1981.

**Chandigarh**

Incinerator of PGI is being unused by CBWTF operator and incinerator of Govt. Multi Speciality Hospital Sec 16 is being used by all Govt. Dispensaries. GMCH 32 is using the incinerator facility of PGI & GMSH 16. Amritsar Health Care System transported Bio-medical waste of 43 nos. of Govt. Dispensaries to GMCH Sec 16 Chandigarh for treatment. Punjab university transported their waste to PGIMER for treatment in their own vehicle.

**Delhi**

\* The figure includes health care units which have patients strength even less than 1000 and drug mfg./stocklist units.

\*\* Having either incinerator, autoclave, microwave, shredder or all. (Excluding three CBWTFs and Research Institute)

\*\*\* 1732 HCFs (Excluding Closed Units), based on applications/earlier applications received for authorization under BMW Rules.

+ Violation w.r.t. BMW management observed during inspections. Letters/Show Cause Notices issued to the units for rectification of the deficiencies observed & unit informed regarding rectification measures.

270 HCFs had not applied for renewal of authorization under BMW Rules, letters/Show Cause Notices issued & thereafter HCFs have either applied or informed regarding closure of the unit etc.

**Goa**

The HCFs mostly dispose their waste after treatment as prescribed in the BMW Rules to Municipal sites but the same do not have any landfill site for disposal of the liquid waste generated from the HCFs in the state of Goa have little quantity of liquid waste generated hence they dispose it into PWD sewage system or into own septic tank and soak pit after pre-treatment as prescribed. The major hospitals in Goa Goa medical does not submit Annual Report & show-cause notice is being issued to the same for non-compliance. The matter is presently sub-judice in Suo Moto WP 2 OF 2007 before the Hon'ble High Court of Bombay, Punaji.

**Himachal Pradesh**

\* Treatment by disinfection/shredding/incineration

\*\* Treatment by disinfection/mutilation/deep burial

\*\*\* The common biomedical waste treatment facility at Pathankot Punjab & Two incinerators installed by MC Kullu working as common incinerators.

# Treatment by disinfection/shredding/incineration/mutilation/deep burial

**Jharkhand**

The CBWTF namely M/s BioGenetic Lab (P) Ltd. Dhanbad is fully closed since April 2008 in compliance to the Direction under Section 5 of E (P) Act, 1986 issued by CPCB.

**Contd.**

**Kerala**

\* All the HCUs are having some system for the treatment and disposal of bio-medical waste. But some of these are not fully in accordance with the methods stipulated in the Rules. Some of the HCFs have joined the common facility maintained by the IMA at Palakkad (IMAGE). Govt. have signed MoU with IMAGE to utilize their treatment & disposal facilities for the Govt. HCEs in the state and there is good progress in affiliating Private as well as Govt. institutions with common facility at IMAGE. Hence individual institutions are being pressurized to set up individual facilities.

**Lakshadweep**

\* Lakshadweep PCC informed telephonically that the incinerator installed at HCF is with APCD.

**Maharashtra**

\* CBWTF namely Krupa Wastages, Amogaon, Distt. Gondia is given consent to establish, BMW generated in the Gondia & Bhandara Distt. Is treated by CBWTF operated by M/s Superb Hygenic Disposal, Nagpur.

**Mizoram**

Most of the HCFs are having 'Deep Burial' facility.

**Nagaland**

NPCB forwarded two proposals to MoEF for setting up of CBWTF at Kohima and Dimapur on 90:10 basis, which was submitted by the Municipal Council. However, the Ministry had not considered the proposals.

**Orissa**

\* Treatment facilities (Incinerator, microwave & shredder) of MKCG Medical College & Hospital is being shared by the HCUs of Behrampur for treatment of bio-medical wastes.

**Puducherry**

\* Consent to operate has been issued to CBWTF namely M/s Pondicherry Solid Waste Management Company Pvt. Ltd., Thuthipet, Villianpur Commune, Puducherry recently. The CBWTF with incinerator of capacity of 100 Kg/hr & other treatment facilities is yet to commence its operation & fix the cost of treatment of BMW.

**Punjab**

\* PPCB has issued NOC to the 5<sup>th</sup> CBWTF to be installed at Distt. Bathinda.

**Rajasthan**

\* RSPCB is pursuing the Director, Local Bodies for expediting the commissioning of the proposed three CBWTFs at Jalore, Udaipur, Sikar & also advising for additional CBWTF for connectivity of all HCFs to CBWTF.

**Tripura**

# The quantity of bio-medical waste generated per day by State Hospital, Medical College & Sub divisional hospitals has only been assessed. Health Department is trying to set up BMW Treatment & Disposal in all the District Hospitals/Sub-Divisional Hospitals/Rural Hospitals and Deep Burial Pit has already been constructed in all the PHCs in Tripura  
AMC has installed an incinerator & has started collecting BMW from many HCEs in and around Agartala and disposing BMW.

**Note:**

- *The respective SPCB / PCC may be contacted for further details / clarifications on the information provided.*
- *SPCB/PCCS may inform any discrepancies (if any ) observed by e-mail at [jskamyotra.cpcb@nic.in](mailto:jskamyotra.cpcb@nic.in) or [bvbabu.cpcb@nic.in](mailto:bvbabu.cpcb@nic.in) for further necessary action.*