

STATUS OF BIOMEDICAL WASTE MANAGEMENT IN KARNATAKA STATE

Karnataka has identified 26,788 Health Care Facilities (HCF) as on March 2013 (Details in Table 1). The waste is being disposed by common/captive facility with respect to solid waste and by captive facility with respect to liquid waste. Karnataka State Pollution Control Board is the prescribed authority in the state for implementation BMW Rules.

Table 1 Summary of HCE Statistics in Karnataka (as on Mar 2013)

Govt./Pvt.	HCF	Numbers	Total	Grand Total
Pvt	> 500 Bedded	28	2,492	19,607
	200-500 Bedded	30		
	100-200 Bedded	60		
	50-100 Bedded	156		
	<50 Bedded	2,218		
	Clinics	12,527	13,087	
	Path Lab/Dia. Centre	387		
	Blood Bank	41		
	Others	132		
Govt	Med. Edu.	26	343	7,181
	Disti Hosp.	17		
	Taluk Hops	146		
	AYUSH-Bedded	103		
	BBMP	50		
	CHC	182		
	PHC	2,154	6,838	
	AYUSH-Non bedded	659		
	Vet Hosp	362		
	Vet Desp	1,946		
	Prim.vet centre & art ins centre	1,535		
		22,759		26,788

Bedded Pvt.	2,492
Bedded Govt	2678
Total bedded	5170

Non-Bedded Pvt.	13,087
Non-Bedded Govt	4502
Total bedded	17589

Summary of Biomedical waste Disposal Scenario in Karnataka is Given Below:

- Total Biomedical Waste generating units as on March 2013 : 26,788
 - Bedded units : 5200
 - Non bedded units : 16110
 - Others (Veterinary Hospital/Research Organizations) : 5478

The board has issued authorization to 23 Common Bio-Medical Waste Treatment Facilities out of which 16 are operational and 07 are in commissioning stage.

DEPARTMENT WISE COMPLIANCE – SOLID WASTE DISPOSAL BY CAPTIVE/COMMON FACILITY

- Bruhath Bengaluru Mahangara palike (50/50) 100%
- Health and Family Welfare(2530/2530) 100%
- Animal and Husbandry and Fisheries (3801/3878) 99.56%
- Ayurveda, Yoga, Unani, Siddha, Homeopathy(60/762) 58%
- Department of medical Education (26/26) 100%
- Private*

- >100 beds (104/104) 100%
- <100 beds (4242/4242) 100%

DEPARTMENT WISE COMPLIANCE – LIQUID WASTE DISINFECTION UNIT PROVIDED

- Bruhath Bengaluru Mahangara palike (50/50) 100%
- Health and Family Welfare (2530/2530) 100%
- Animal and Husbandry and Fisheries (0/2530) Generating negligible quantity
- Ayurveda, Yoga, Unani, Siddha, Homeopathy(16/16) 100%
- Department of medical Education (17/26) 65%
- Private*

- >100 beds (103/104) 99%
- <100 beds (4058/4242) 95%

*Compliance with respect to newly identified HCEs is being ascertained

Liquid waste disposal

Board has taken following stand with respect to liquid waste from HCFs.

- a. Existing hospital in sewerage area with terminal STP may discharge in to sewers after disinfection

- b. Existing hospital in non-sewered area shall use within the premises after treatment
- c. New hospital in local authorities shall grant license after Hospital gets CFE from Board and shall use within the premises after treatment

UNIDO has come out with a new venture in association with MoEF, GoK and KSPCB under the name of “Environmental Sound Management of Medical Waste in India”. The project is launched in Karnataka on 21.01.2013. In this project they are going to adopt new technologies to support the hospital and CBMWTF to control emissions of Dioxins and Furons.

ENFORCEMENT:

Encouraged 23 Common Bio-medical Waste Treatment Facility for Collection, Transportation, Treatment and Disposal:

Sl. No	Name & Address of CBWTF with telephone no	Website/mail I.D of CBMWTF	Name of cities/areas covered by CBMWTF	Total No. of HCFs being covered	Total No. of bed covered
1	M/s. Semb Ramky Environmental Management Pvt. Ltd., Plot No. 39, KIADB Industrial Area, Dobaspet, Somapura Hobli, Nelamangala Taluk, Bangalore Rural	Website: www.gowaste.com Mail I.D: dknagaraja&ramky.com	Part of Bangalore Urban District, Part of Bangalore Rural District, Tumkur District	1670	12240
2	M/s. Maridi Eco Industries Pvt. Ltd., Sy.No.1/37, 1/38, 35th Miles Stone, Gabbadi Kaval, Kanakapura Road, Ramanagar District	Website: www.maridibmw.com Mail I.D: maridibmw@gmail.com Srinath.ma@gmail.com	Part of Bangalore Urban District, Part of Bangalore Rural District, Ramanagara District, Mandya District	1950	14415
3	M/s. Shree Consultants, No. 25, Varuna Village, Mysore District-570004	Mail I.D: shreeconsultantsbox@rediffmail.com	Mysore District, Chamarajanagar District, Coorg District	1036	5364
4	M/s. Hubli Dharwad Bio-Medical Waste Treatment Facility, Plot No.126/L, Tarihal Industrial Area, Hubli-Dharwad District	Mail. I.D: riogreenenviron@yahoo.com	Dharwad District, Gadag District, Karwar	886	4963
5	M/s. Association of Medical Establishment, Sy.No.12, Khasbag,Shahapur, Belgaum	Mail I.D: orthokale@hotmail.com	Belgaum District	620	2100

6	M/s. Sushanth Environment Technologies, Sy. No. 24/2, Amaravathi Colony, Kodahalli Road, Harihar Taluk, Davanagere	Mail I.D: setdvg@gmail.com	Davanagere District, Chitradurga District, Haveri District	835	4890
7	M/s. Shushrutha Bio Medical Waste Management Society, Site No. 31/c, KIADB industrial area, Machenahalli Village, Nadige post, Shimoga	Mail I.D: shushruthasmg@gmail.com	Shimoga District	650	3492
8	M/s. Centre for Environment Education, Sy.No.139, Sharasirasagiri Village, Afzalpur Road, Gulbarga	Mail. I.D: wankhede@ceeindia.org cee@ceeindia.org ; ceegulbarga@ceeindia.org , shyamala.mani@cee.imdia.org	Gulbarga District	450	2775
9	M/s. Ramky Energy and Environmental Pvt. Ltd., No.-47/B, Karnad Industrial Area(KIADB), Mulky, Mangalore-574154	Mail I.D: reaelmngl@ramky.com	Dakshina Kannada District and Udupi District	795	9601
10	M/s. Karnataka Private Medical Establishment Association, Sy.No.139, Mahlbagayat, Bijapur	Mail. I.D: Sanjay.kengalgutti63@gmail.com	Bijapur District	445	2025
11	M/s. Raichur Indian Medical Association CBMWTF(Operated by Vijayanagar Associates), Sy.No. 73/3, Ekklapur Village, Adjacent CMC Raichur MSW Site, Raichur	Mail. I.D: vasaviaso@gmail.com	Raichur District	204	2164
12	M/s. The BVV Sangha Rural Development Foundation, Vidyagiri, Old APMC Area, Bagalkot	Mail I.D: rdfbvvsb@gmail.com	Bagalkot District	559	4298
13	M/s. Prajwal Management Systems, Plot N0. 1B/9, Hassan KIADB Growth Center, H.N. Pura Road, Hassan	Mail I.D: mdgowda78@yahoo.co.in	Hassan District and Chikmagalur District	429	2568
14	M/s. Meera Envirotech, Sy. No. 204, Haleri Road, Off Kolar-Chintamani Highway, Thotli Panchayati, Sugatur Hobli, Kolar District.	Mail I.D: metbmw@gmail.com	Kolar District & Chikkaballapura District	425	3289

15	M/s. Suryakanth Environmental Technology, Sy. No. 158, Bellary City Corporation Land, Opp. Agarwal Iron Steel Factory, Haraginadoni Village, Bellary District	Mail I.D: suryaenvitech@gmail.com	Bellary and Koppal Districts	280	1900
16	M/s. Belgaum Green Environmental Management, Sy. No. 29, Haroogoppa Village, Haroogoppa- Murgoud Road, Soundatti Taluk, Belgaum District	Mail I.D: belgaumgreen@gmail.com	Belgaum District (Athani Taluk, Chikkodi Taluk, Raybhag Taluk, Gokak Taluk, Ramdurg Taluk and Saundatti Taluk of Belgaum District and adjoining taluks of Bagalkot District)	171	2023
17	M/s. Gadag Enviro Tech, Plot. No. 48-P, Narasapura Growth Center, KIADB Indl. Area, Gadag District	Mail I.D: gadagenviro@gmail.com	Gadag District	650	2000
18	M/s. Anu Autoclave & Incin Services, Sy. No.145/2, gullahalli Village, Sulibele Hobli, Hosakote Taluk, Bangalore Rural District	Mail I.D: anuaautoclave@yahoo.com	Bangalore Rural District	Yet to commission	
19	M/s. Parisara Associates, Sy. No. 18, Bablad Village, Yadgir Taluk, Shahapur District, Yadgir	Mail I.D: parisara.associates@gmail.com	Yadgir District	Yet to commission	
20	M/s. Kenara IMA Common Treatment Facility, at Sy No. 79A1, Bogribail Village, Ankola Taluk, Uttar Kannada District		Karwar District	Yet to commission	
21	M/s.Prajwal Management Systems, Plot No. 56, Gauribidanur New KIADB Industrial Area, Gauribidanur, Chikkaballapura District	Mail I.D: mdgowda78@yahoo.co.in	Chikkaballapura District	Yet to commission	
22	M/s. GIPS Bio-Tech, CBMWTF, Sy. No. 82, Gujjegowdanapura Village, Jayapura Hobli, Mysore Taluk & District.	Mail. I.d: gips.env@gmail.com	Mysore District	Yet to commission	
23	V.V. Incin Solutions Pvt Ltd., Sy. No. 456/P Dhyamavanahalli and Chitradurga MSW Site, Chitradurga Tq and District	Mail. I.D: vvincin@gmail.com	Chitradurga District	Yet to commission	

17 = Presently working, 06 = Yet to commission

Board has constituted District Level Task Force for all the districts in the Karnataka state vide letter No. KSPCB/BMW/WMC/EO-1/2012-13/480, Dt: 06.09.2012 which consisting of :

- 1. Deputy commissioner of the District in charge - Chairperson**
- 2. District superintendent of police - Member**
- 3. District Health officer, Govt of Karnataka - Member**
- 4. Commissioner/Chief Officer- CMC/ Corporation/- Member
Town Municipality**
- 5. President, Indian Medical Association of the district- Member**
- 6. Representative of the NGO - Member**
- 7. Regional Officer - Member convenor
KSPCB of the District**

- EMPRI has conducted ToT awareness programmes in 13 districts
- Board has directed all CBMWTFs to create website of their own for public information
- CPCB/MoEF has Notified subsidies for new CBMWTF: For details refer MoEF website