

KMC Hospital

LIFE'S ON

MANGALURU



KMCHAC: ADMIN: 009:2019

08 February 2019

The Environmental Officer,
Karnataka State Pollution Control Board,
Regional Office
Baikampady Industrial Area
Mangalore

Dear Sir,

Sub: Submission of Form IV - Annual Report regarding handling of Bio Medical Waste.

With reference to the subject cited above, please find enclosed herewith triplicate of the Annual report for the period January 2018 to December 2018 for handling and disposing of Bio Medical Waste pertaining to this hospital Tower 1.

Please acknowledge the receipt of the above.

Thanks & Regards,

Regional Chief Operating Officer

Regional Chief Operating Officer
KMC Hospital
DR. B. R. AMBekar
MANGALURU - 575011

REGIONAL OFFICE
Karnataka State Pollution Control Board
Plot No.10-B, Baikampady Industrial Area
MANGALORE-575011

KMC Hospital

Dr. B. R. Ambekar Circle, Mangalore - 575011. P - 0824 2422 380 www.mangalore.manipalhospitals.com

Regional Office

Manipal Health Enterprises Pvt Ltd

The 4000th 125th, Western, High Road, 2nd Floor, 1st Stage, Bangalore - 560025. P - 011 2610 1011 www.manipalhospitals.com

CIN: U55110KA2010P110032530

Form - IV
(See rule 13)
ANNUAL REPORT

[To be submitted to the prescribed authority on or before 30th June every year for the period from January to December of the preceding year, by the occupier of health care facility (HCF) or common bio-medical waste treatment facility (CBWTF)]

#	Particulars		
1.	Particulars of the Occupier :	:	
	(i) Name of the authorized person (occupier or operator of facility)	:	Regional Chief Operating Officer
	(ii) Name of HCF or CBMWTF	:	Kasturba Medical College Hospital, Ambedkar Circle - Tower 1
	(iii) Address for Correspondence	:	KMC Hospital, Dr. B.R. Ambedkar Circle, Mangalore - 575001.
	(iv) Address of Facility	:	KMC Hospital, Dr. B.R. Ambedkar Circle, Mangalore - 575001.
	(v) Tel. No, Fax. No	:	0824-2444590 0824-2421140
	(vi) E-mail ID	:	info@kmchospitalsmangalore.com
	(vii) URL of Website	:	www.manipalhospitals.com
	(viii) GPS coordinates of HCF or CBMWTF	:	NA
	(ix) Ownership of HCF or CBMWTF	:	Private
	(x). Status of Authorization under the Bio-Medical Waste (Management and Handling) Rules	:	Authorization no. KSPCB/BMW/2017-18/Reg.No.147980/OB/437 Valid up to-30.06.2021
	(xi) Status of Consents under Water Act and Air Act	:	Valid up to 01.07.2016 to 30.06.2021
2.	Type of Health Care Facility	:	Super Specialty
	(i) Bedded Hospital	:	No. of Beds: 240
	(ii) Non-bedded hospital	:	NA
	(Clinic or Blood Bank or Clinical Laboratory or Research Institute or Veterinary Hospital or any other)	:	

(iii) License number and its date of expiry	:	DKA00356AAHP-3 rd Sept. 2022		
3. Details of CBMWTF	:			
(i) Number healthcare facilities covered by CBMWTF	:	NA		
(ii) No of beds covered by CBMWTF	:	NA		
(iii) Installed treatment and disposal capacity of CBMWTF	:	NA		
(iv) Quantity of biomedical waste treated or disposed by CBMWTF	:	NA		
4. Quantity of waste generated or disposed in Kg per annum (on monthly average basis)	:	Yellow Category : Avg. 1774kgs / month Red Category: Avg. 4198kgs /month White can: Avg. 386kgs /month Blue Category: Avg. 1248 kgs /month General Solid waste : Avg. 7364.7 kgs./ Month		
5. Details of the Storage, treatment, transportation, processing and Disposal Facility	:			
(i) Details of the on-site storage facility	:	Size : Width of the area 6ft, Height - 8.3ft, Length - 4ft. Capacity : Total 1500kg for all waste Provision of on-site storage : (cold storage or any other provision): NA		
(ii) Details of the treatment or disposal facilities	:	Type of treatment equipment	No. of units	Capacity Kg/day
				Quantity treated or disposed in kg per annum
		Incinerators		NA
		Plasma Pyrolysis		NA
		Autoclaves		NA
		Microwave		NA
		Hydroclave		NA
		Shredder		NA
		Needle tip cutter or destroyer		NA
		Sharps encapsulation or concrete pit		NA
		Deep burial pits		
		Chemical disinfection		

	Any other treatment equipment	NA	
(iii) Quantity of recyclable wastes sold to authorized recyclers after treatment in kg per annum	:	Red Category (like plastic, glass etc.) NA	
(iv) No of vehicles used for collection and transportation of biomedical waste	:	M/s. Ramky Energy & Environment Ltd.	
(v) Details of incineration ash and ETP sludge generated and disposed during the treatment of wastes in Kg per annum	:		Quantity generated Where disposed
		Incineration Ash ETP Sludge	NA NA
(vi) Name of the Common Bio-Medical Waste Treatment Facility Operator through which wastes are disposed of	:	M/s. Ramky Energy & Environment Ltd.	
(vii) List of member HCF not handed over bio-medical waste.	:	NA	
6. Do you have bio-medical waste Management committee? If yes, attach minutes of the meetings held during the reporting period.	:	YES	
7. Details trainings conducted on BMW	:		
(i) Number of trainings conducted on BMW Management	:	38	
(ii) number of personnel trained	:	790	
(iii) number of personnel trained at the time of induction	:	188	
(iv) number of personnel not undergone any training so far	:	NA	
(v) whether standard manual for Training is available?	:	YES	
(vi) any other information	:	NO	
8. Details of the accident occurred during the year	:	Needle stick injury	
(i) Number of Accidents occurred	:	12	
(ii) Number of the persons affected	:	NIL	
(iii) Remedial Action taken (Please attach details if any)	:	NO	
(iv) Any Fatality occurred, details	:	NO	
9. Are you meeting the standards of air pollution from the incinerator? How many times in last year you tested the standards?	:	NA	
Details of Continuous emission monitoring system installed	:	NA	
Treated waste generated and treatment	:	NA	

	Methods in place. How many times you have not met the standards in a year?		
11.	Is the disinfection method or sterilization meeting the log 4 Standards? How many times you have not met the standards in a year?		NA
	Any other relevant information		(Air Pollution Control Devices attached with the Incinerator)NA

Certified that the above report is for the period from 01.01.2018 to 31.12.2018 is as per the records held at this hospital.

Date:
Place: Mangaluru


Regional Chief Operating Officer
KMC Hospital
Dr. B R Ambedkar Circle
MANGALURU - 575 001

Data of Bio- Medical Waste for the year of 2018 TOWER I											
Month	Yellow in KG's	Average /day	Red in KG'S	Average /day	Blue in KG'S	Average /day	Can in KG'S	Average /day	Total in KG's	Black in KG'S	Average /day
Jan	1201.8	38	4153	134	1218.5	39	818	20	7791.4	7008.9	228
Feb	1704.5	45	4342	130	1067	34	385	12	7198.5	7070.5	228
Mar	7162.0	98	4421	143	1122.5	38	304	10	7850	7873.5	254
Apr	7452.0	94	4041	137	1246.5	40	801.5	19	7738.5	7387	238
May	5039.5	53	4298.5	137	1090	35	446	14	7422.4	7535.5	243
Jun	1380.0	34	4082	132	884	32	391.5	13	7167.9	6812.5	220
Jul	1632	35	4321.5	138	1211.5	39	416.5	13	7781.5	7114	229
Aug	1748.0	36	4023.5	130	1386	44	382.5	12	7494.5	7139	230
Sep	1290	37	4099.5	131	1256.5	41	342.5	11	7418.5	6993.5	226
Oct	1196	38	4208	136	1401	45	230.5	7	7634.5	7482	241
Nov	1847.4	40	4057	131	1359	44	324.5	10	7597.9	7778	251
Dec	2034.0	46	1487	145	1853.5	53	214	7	8379	8182	264
Total	24287.1	634.88065	50372	1624.9032	14980	483.22881	4838.5	149.584816	91278.8	86376.4	2880.851613
Average/Month	1774		4198		1248		386		7806.3	7244.7	

Regional Chief Operating Officer
KMC Hospital
Dr. B R Arambekar Circle
MANGALURU - 575 001

KMC Hospital

LIFE'S ON

MANGALURU



KMCH AC: ADMIN: 010: 2018

08 February 2019

The Environmental Officer,
Karnataka State Pollution Control Board,
Regional Office
Baikampady Industrial Area
Mangalore

Dear Sir,

Sub: Submission of Annual Report regarding handling of Bio Medical Waste.

With reference to the subject cited above, please find enclosed herewith triplicate of the Annual report for the period January 2018 to December 2018 for handling and disposing of Bio Medical Waste pertaining to this hospital Tower II.

Please acknowledge the receipt of the above.

Thanks & Regards,

Regional Chief Operating Officer

Regional Chief Operating Officer
KMC Hospital
Dr. B R Ambedkar Circle
MANGALURU - 575 001

Relay 14/2/19
REGIONAL OFFICE
Karnataka State Pollution Control Board
Plot No.10-B, Baikampady Industrial Area
MANGALORE-575011

KMC Hospital

Dr. B R Ambedkar Circle, Mangaluru 575 001. P + 91 824 2444 590 www.mangalore.manipalhospitals.com

Registered Office

Manipal Health Enterprises Pvt Ltd

The Annex, 893/2, Rustom Bagh Road, Off HAL Airport Road, Bangalore 560 017. P + 91 80 4936 0100 www.manipalhospitals.com
CIN : U85110KA2010PTC052540

Form - IV
(See rule 13)
ANNUAL REPORT

[To be submitted to the prescribed authority on or before 30th June every year for the period from January to December of the preceding year, by the occupier of health care facility (HCF) or common bio-medical waste treatment facility (CBWTF)]

#	Particulars		
1.	Particulars of the Occupier :	:	
	(i) Name of the authorized person (occupier or operator of facility)	:	Regional Chief Operating Officer
	(ii) Name of HCF or CBMWTF	:	Kasturba Medical College Hospital, Ambedkar Circle – Tower 2
	(iii) Address for Correspondence	:	KMC Hospital, Dr. B.R. Ambedkar Circle, Mangalore – 575001.
	(iv) Address of Facility	:	KMC Hospital, Dr. B.R. Ambedkar Circle, Mangalore – 575001.
	(v) Tel. No, Fax. No	:	0824-2444590 0824-2421140
	(vi) E-mail ID	:	info@kmchospitalsmangalore.com
	(vii) URL of Website	:	www.manipalhospitals.com
	(viii) GPS coordinates of HCF or CBMWTF	:	NA
	(ix) Ownership of HCF or CBMWTF	:	Private
	(x). Status of Authorization under the Bio-Medical Waste (Management and Handling) Rules	:	Authorization no. KSPCB/BMW/HCE/2016/Reg.No.119074 /OB/943 .Valid up to- 30.06.2021
	(xi). Status of Consents under Water Act and Air Act	:	Valid up to: 30.06.2021
2.	Type of Health Care Facility	:	Super Specialty
	(i) Bedded Hospital	:	No. of Beds: 200
	(ii) Non-bedded hospital	:	NA
	(Clinic or Blood Bank or Clinical Laboratory or Research Institute or Veterinary Hospital or any other)	:	
	(iii) License number and its date of expiry	:	DKA00356AAHP – 3 rd Sept. 2022
3.	Details of CBMWTF	:	


	(i) Number healthcare facilities covered by CBMWTF	:	NA																																								
	(ii) No of beds covered by CBMWTF	:	NA																																								
	(iii) Installed treatment and disposal capacity of CBMWTF	:	NA																																								
	(iv) Quantity of biomedical waste treated or disposed by CBMWTF	:	NA																																								
4.	Quantity of waste generated or disposed in Kg per annum (on monthly average basis)	:	Yellow Category : Avg. 2182kgs / month Yellow C Category: Avg. 32kgs./month Red Category: Avg. 2153kgs /month White can: Avg. 44kgs /month Blue Category: Avg. 741 kgs /month General Solid waste : Avg. 4523.75 kgs./ Month																																								
5.	Details of the Storage, treatment, transportation, processing and Disposal Facility																																										
	(i) Details of the on-site storage facility	:	Size : Width of the area 18.6ft, Height -8.6ft, Length – 5 ft. Capacity : Total 3000kg for all waste Provision of on-site storage : (cold storage or any other provision): Na																																								
	(ii) Details of the treatment or : disposal facilities		<table> <tr> <th>Type of treatment equipment</th><th>No. of units</th><th>Capacity Kg/day</th><th>Quantity treated or disposed in kg per annum</th></tr> <tr> <td>Incinerators</td><td></td><td>NA</td><td></td></tr> <tr> <td>Plasma Pyrolysis</td><td></td><td>NA</td><td></td></tr> <tr> <td>Autoclaves</td><td></td><td>NA</td><td></td></tr> <tr> <td>Microwave</td><td></td><td>NA</td><td></td></tr> <tr> <td>Hydroclave</td><td></td><td>NA</td><td></td></tr> <tr> <td>Shredder</td><td></td><td>NA</td><td></td></tr> <tr> <td>Needle tip cutter or destroyer</td><td></td><td>NA</td><td></td></tr> <tr> <td>Sharps encapsulation or concrete pit</td><td></td><td>NA</td><td></td></tr> <tr> <td>Deep burial pits:</td><td></td><td></td><td></td></tr> </table>	Type of treatment equipment	No. of units	Capacity Kg/day	Quantity treated or disposed in kg per annum	Incinerators		NA		Plasma Pyrolysis		NA		Autoclaves		NA		Microwave		NA		Hydroclave		NA		Shredder		NA		Needle tip cutter or destroyer		NA		Sharps encapsulation or concrete pit		NA		Deep burial pits:			
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		Chemical disinfection:		
		Any other treatment equipment	NA	
	(iii) Quantity of recyclable wastes sold to authorized recyclers after treatment in kg per annum	:	Red Category (like plastic, glass etc.) NA	
	(iv) No of vehicles used for collection and transportation of biomedical waste	:	M/s. Ramky Energy & Environment Ltd.	
	(v) Details of incineration ash and ETP sludge generated and disposed during the treatment of wastes in Kg per annum	:		Quantity generated Where disposed
			Incineration Ash ETP Sludge	NA NA
	(vi) Name of the Common Bio-Medical Waste Treatment Facility Operator through which wastes are disposed of	:	M/s. Ramky Energy & Environment Ltd.	
	(vii) List of member HCF not handed over bio-medical waste.	:	NA	
6.	Do you have bio-medical waste Management committee? If yes, attach minutes of the meetings held during the reporting period.	:	YES	
7.	Details trainings conducted on BMW	:		
	(i) Number of trainings conducted on BMW Management	:	35	
	(ii) number of personnel trained	:	250	
	(iii) number of personnel trained at the time of induction	:	92	
	(iv) number of personnel not undergone any training so far	:	NIL	
	(v) whether standard manual for Training is available?	:	YES	
	(vi) any other information	:	NIL	
8.	Details of the accident occurred during the year	:		
	(i) Number of Accidents occurred	:	6	
	(ii) Number of the persons affected	:	NIL	
	(iii) Remedial Action taken (Please attach details if any)	:	NA	
	(iv) Any Fatality occurred, details	:	NO	
9.	Are you meeting the standards for Pollution from the incinerator? If not, how many times in last year could not meet the standards?	:	NA	

	Details of Continuous online emission monitoring systems installed	:	NA
10.	Liquid waste generated and treatment Methods in place. How many times you have not met the standards in a year ?	:	NA
11.	Is the disinfection method or sterilization meeting the log 4 Standards? How many times you have not met the standards in a year?	:	NA
	Any other relevant information	:	(Air Pollution Control Devices attached with the Incinerator)NA

Certified that the above report is for the period from 01.01.2018 to 31.12.2018 is as per the records held at this hospital.

Date:
Place: Mangaluru


Regional Chief Operating Officer
CMC Hospital
Dr. B R Ambedkar Circle
MANGALURU - 575 001

Data of Bio- Medical Waste for the year of 2018 TOWER II													
Month	Yellow in KG's	Average /day	Yellow C in KG's	Average /day	Red in KG'S	Average /day	Blue in KG'S	Average /day	Can in KG'S	Average /day	Total in KG's	Black in KG'S	Average /day
Jan	2632	87	5	2.8012487	2516.8	81	911	29	82.5	3	6202.3	4787	154
Feb	2620	85	2	2.7263267	2255	73	1024.5	33	38	1	5937.5	4768	154
Mar	2151.5	69	9	2.2388137	2414.5	78	755.5	24	16.5	1	5338	4490	145
Apr	2251	72	16	2.3277836	2373	77	732	24	76	2	5418	4388	142
May	2350	76	50	2.7783559	2967.5	96	69.5	2	17	1	5724	5949	192
Jun	2471	80	1.5	2.5712799	2252.5	73	846	27	54	2	5623.5	4801	155
Jul	2291	74	16.5	2.383975	1995.5	64	953	31	53	2	5292.5	4170	135
Aug	2181	68	124.5	2.1917794	2218	72	1101	36	69	2	5494.3	4088	132
Sep	1866.5	60	22.5	1.9422477	1934.3	62	840	27	65	2	4705.8	3887	125
Oct	1467.5	47	34.5	1.5270552	1536	50	516.5	17	36	1	3556	4187	135
Nov	1750	57	48.5	1.8376691	1649.5	53	568.5	18	15	0	3999	4277	138
Dec	1840	60	52.5	1.9209157	1723.5	56	575	19	3	0	4147.5	4493	145
Total	26104.8	844.67097	382.5	27.247451	25836.1	833.42258	8892.5	286.85484	525	16.935484	61438.4	54285	1751.129
Average/Month	2182		32		2153		741		44		5119.866667	4523.75	


 Regional Chief Operating Officer
 KMC Hospital
 Dr. B R Ambedkar Circle
 MANGALURU - 575 001