## ManipalHospitals



LettNo.MHB/BMW001/Form-IV/BMW-Apr/2018

19<sup>th</sup> April, 2018

To,

The Environmental Officer,

Karnataka State Pollution Control Board,

Bangalore-City East

"Nisarga Bhavan", 3rd Floor,

Timmaiah road, 7<sup>th</sup> D Cross, Opp Pushpanjali Theatre,

Shivanagar, Bangalore-560 010.

Dear Sir,

Sub: Submission of Biomedical Waste Annual Report for the year January 2017 to December 2017

With reference to the above subject, kindly find enclosed herewith the Annual report in prescribed Form-IV for Biomedical Waste generated & disposed by M/s. Manipal Hospital, Bangalore for the period Jan 2017 to Dec 2017.

Kindly acknowledge the same.

Thanking you,

Deepak Venugopalan

**Chief Operating Officer** 

Manipal Hospital, Bangalore

SULDA RASSA ASMA) ENVERONMENTAL GIGINER

Enclosures: 1. Annual report in Form-IV and Annexure

- 2. Accident Report in Form-I
- 3. Minutes of Biomedical Waste Management Committee Meeting

Manipal Hospital HAL Airport Road

#98, HAL Airport Road, Bengaluru 560017 P+91 80 4011 9000. +91 80 2502 3344/4444 www.manipalhospitals.com





Registered Office

Manipal Health Enterprises Pvt Ltd

The Annexe, #98/2, Rustom Bagh Road, Off HAL Airport Road, Bengaluru 560 017 P+91 80 4936 03000 www.manipalhospitals.com CIN: U85110KA2010PTC052540



## Form - IV

(See rule 13)

## ANNUAL REPORT

[To be submitted to the prescribed authority on or before 30<sup>th</sup> 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)]

Sl. No.	Particulars	Description
1	Particulars of the Occupier	Ms. Manipal Hospitals, Bangalore
	(i) Name of the authorised person	Mr. Deepak Venugopalan,
	(occupier or operator of facility)	COO, Manipal Hospital, Bangalore
	(ii) Name of HCF or CBMWTF	Ms. Manipal Hospitals, Bangalore
	(iii) Address for Correspondence	Manipal Hospital, Bangalore No 98, Rustom Bagh, HAL Airport Road, Bangalore – 560 017
	(iv) Address of Facility	Manipal Hospital, Bangalore No 98, Rustom Bagh, HAL Airport Road, Bangalore – 560 017
	(v)Tel. No, Fax. No	Tel No: +91 80 4011 9000 Fax No: +91 80 2526 6757
	(vi) E-mail ID	deepak.venugopalan@manipalhospitals.com
	(vii) URL of Website	Yet to have
	(viii) GPS coordinates of HCF or CBMWTF	-
	(ix) Ownership of HCF or CBMWTF (State Government or Private or Semi Govt. or any other)	Private
	(x). Status of Authorisation under the	Authorisation No.: KSPCB/BMW/2015-16/Reg
	Bio-Medical Waste (Management and	No. 89903/H 366
	Handling) Rules	Dated: 13.07.2015
		Valid Up to: 30.06.2018
	(xi). Status of Consents under Water	Consent No: AW-301638, Dated:15/12/2016
	Act and Air Act	Valid up to: 30/06/2021
	Type of Health Care Facility	Super Speciality Quaternary care hospital
	(i) Bedded Hospital	No. of Beds: 600
	(ii) Non-bedded hospital	NA NA
	(Clinic or Blood Bank or Clinical	
2	Laboratory or Research Institute or	
	Veterinary Hospital or any other)	
	(iii) License number and its date of expiry	Authorisation No.: KSPCB/BMW/2015-16/Reg No. 89903/H 366
		Dated: 13.07.2015
		Valid Up to: 30.06.2018
3	Details of CBMWTF	NA
3	(i) Number healthcare facilities	NA NA

	covered by CBMWTF					
	(ii) No of beds covered by CBMWTF		N	IA		
	(iii) Installed treatment and disposal		NA			
	capacity of CBMWTF in Kg/day					
	(iv) Quantity of biomedical waste		N	NA		
	treated or disposed by CBMWTF in					
	Kg/day					
4	Quantity of waste generated or	Yellow: 13252.6 Kg				
	disposed in Kg per annum (on					
	monthly average basis)	White(Sharp W	/aste): 52	23 Kg		
		Blue(Glass Waste): 2520 Kg				
		Yellow(Chemo	ellow(Chemo Waste)-179 Kg			
5	(i) Details of the Storage, treatment, transportation, processing and Disposal Facility	Size -NA-				
	(ii) Details of the on-site storage	Capacity -NA-				
	Facility disposal facilities	Provision of on-site storage: (cold storage or			torage or	
		any other provi	ision) - 1	NA-		
		Tuna of	No	Congoity	Quantit	
		Type of treatment	of	Capacity Kg/day	y	
		equipment	units	Rg/day	Treated	
		equipment	units		or	
					dispose	
	Charles Management				d	
			1		in kg	
					per	
	the base of some transition of				annum	
		Incinerators		-NA-		
	THE CONTRACT OF THE CONTRACT O	Plasma				
	The Mindre State of States and States	Pyrolysis				
	described with the second	Autoclaves				
	to the checkerorulor	Microwave				
	Debug like a contractor obtaineds	Hydroclave				
	the search	Shredder				
	The statute of a college account of	Needle tip				
	ent than he was not a	cutter or				
	This is enabled shown a subset of marks	destroyer				
	stolet de la Silveya	Sharps				
	et a Ann Sameta accessed sent	encapsulatio				
		n or				
	Shift and the the mention of the con-	concrete pit				
	participation in the year with the man	Chemical				
	Salaha da Salah	disinfection				
		Any other				
	Tunida in State of St	treatment				
		equipment:				

to authorized recyclers after treatment in kg per annum.	7 11 11 12 7			
m kg per amum.	-NA-			
(iv) No of vehicles used for collection and transportation of biomedical waste	-NA-			
(v) Details of incineration ash and ETP sludge generated and disposed during the treatment of wastes in Kg per annum  Quantity Where generated disposed Incineration -NA-Ash				
(vi) Name of the Common Bio- Medical Waste Treatment Facility Operator through which wastes are  [ETP Sludge]  M/s. Anu Autoclave & Incin Services (w. April 2018)  CBWTF operator for period Jan 17 to M.				
disposed of was M/s. Maridi Eco Industries Pvt Ltd (vii) List of member HCF not handed over bio-medical waste.				
Do you have bio-medical waste management committee? If yes, attach minutes of the meetings held during the reporting period				
7 Details of trainings conducted on BMW  (i) Number of trainings conducted on BMW Management 38				
(ii) number of personnel trained Total: 3069				
(iii) number of personnel trained at the time of induction				
(iv) number of personnel not undergone any training so far				
(v) Whether standard manual for Training through PPT training is available?				
(vi) any other information) Nil				
8 Details of the accident occurred during the year  (i) Number of Accidents occurred  (ii) Number of persons affected  (iii) Remedial Action taken (Please				
attach details if any) (iv) Any Fatality occurred, details.				
9 Are you meeting the standards of air Pollution from the incinerator? How many times in last year could not met the standards?				
Details of Continuous online emission -NA-monitoring systems installed				
10 Liquid waste generated and treatment Liquid waste is treated in DEWAT	& the			

	methods in place. How many times you have not met the standards in a year?	treated effluent is well within the limits Hospital has always met with the required effluent standards.
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-
12	Any other relevant information (Air Pollution Control Devices attached with the Incinerator)	-NA-

Certified that the above report is for the period from Jan 2017 to Dec 2017.

Date: 19.04.2018

Place: Bangalore

Deepak Venugopalan

COO-Manipal Hospital, Bangalore Name and Signature of the Head of Institution

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			ANNEXUE	RE		
	BIOI	MEDICAL WASTE	INVENTORY FROM JAN	IUARY 2017 TO	DECEMBER 2	017
SI. No.	Month	QUANTITY IN Kg				
	WOITH	Yellow	Yellow-Chemo	Red	Blue	White-Sharps
1	Jan-17	16123	308	15634	2376	670
2	Feb-17	16123	442	15953	2119	418
3	Mar-17	15114	408	16263	2389	566
4	Apr-17	14781	545	15970	2157	510
5	May-17	14813	447	17295	2251	480
6	Jun-17	15936	0	11007.29	2025	401.22
7	Jul-17	10999.57	0	13421.25	2800.5	697.68
8	Aug-17	10575	0	13835.15	2724.26	585.29
9	Sep-17	11004.7	0	14794.91	2872.46	544.25
10	Oct-17	10693.32	0	14112.89	2937.7	491.23
11	Nov-17	11099.45	0.16	14400.58	2884.46	441.47
12	Dec-17	11768.9	0.26	14503.7	2703.77	473.99
otal BMW Generation Per Annum		159030.94	2150.42	177190.77	30240.15	6279.13
ovg BMW Generation per Month		13252.57833	179.2016667	14765.8975	2520.0125	523.2608333

