



Date: 07/01/2022

To,  
The Environmental officer,  
Karnataka state pollution control board,  
(City region West), 1<sup>st</sup> floor, Nisargabhavan,  
Shivanagar, Rajajinagar,  
Bengaluru-560010


Dear Sir,

**Sub: Submission of Biomedical Waste Annual Returns in Form - IV.**

Herewith we are submitting the Bio-medical waste annual returns in **Form – IV (See Rule 13) for the year 2021 from 01.01.2021 to 31.12.2021**, towards the generation and disposal of biomedical waste along with Annexure 1 for Non-Covid and Annexure 2 for Covid waste details as per BMW rules.

Kindly acknowledge the receipt of the same.

Yours faithfully,

  
For Manipal Hospital Yeshwanthpur  
Bengaluru.

CC: The Senior Environmental Officer,  
KSPCB, BMW Cell, 4<sup>th</sup> Floor, Parisara Bhavana,  
Church Street, Bengaluru – 560001.



Manipal Hospital - Yeshwanthpur

Brigade Gateway, #26/4, 80 Feet Road, Dr. Rajkumar Road, Malleshwaram West, Bengaluru 560 055, Karnataka  
P +91 80 6165 6262

Manipal Hospital - Private Limited

(Formerly known as Columbia Asia Hospitals Private Limited)

CIN U85110KA2003PTC033055

Regd. Off The Annexe, #98/2, Ruston Bagh, Off. HAL Airport Road, Bengaluru - 560 017

P +91 80 4936 0300 | info@manipalhospitals.com | www.manipalhospitals.com



**Form-IV**  
(See rule-13)  
**ANNUAL REPORT**

To be submitted to the prescribe authority on or before 30<sup>th</sup> June every year for the period from January to December of the proceeding year by the occupier of health care facility (HCF) or common bio-medical waste treatment facility(CBMWTF)

Sl No.	Particulars	
1.	Particulars of the Occupier	
	i) Name of the authorized Person (Occupier of : operator of facility)	<b>Dr.Rahul Tewari</b> The General Manager
	ii) Name of HCF or CBMWTF	<b>M/s. Manipal Hospital-Yeshwanthpur</b>
	iii) Address of the Correspondence	No.26/4, Brigade Gateway, 80 Feet Road,
	iv) Address of the Facility	Dr,Rajkumar Road,Malleswaram West Bengaluru-560055
	v) Tel. No, Fax No.	080-61656262
	VI) E-Mail ID	ayan.c@columbiaindiahospitals.com
	vii) URL of Website	www.manipalhospitals.com
	viii) GPS coordinate of HCF or CBMWTF	-
	ix) Ownership of HCF CBMWTF	(State Government or Private or Semi Govt. or any other) <b>Private</b>
	x) Status of Authorization under the Bio-Medical Waste (Management and Handling) Rules.	Authorization <b>No.PCB/35/BMW-08/2020-21/4462</b> Date: <b>03-12-2021</b> Valid up to <b>30-06-2026</b>
	xi) Status of the Consent under Water Act and Air Act.	<b>Valid up to 30-06-2026</b>
2.	Type of Health Care Facility	Multispecialty Hospital
	i) Bedded Hospital	160 Beds
	ii) Non Bedded Hospital laboratory( Clinic or Blood Bank or Clinically or Research Institute or Veterinary Hospital or any other)	NA
	lii ) Licence Number & its date of expiry	NA
3	Details of CBMWTF	<b>Anu Autoclave &amp; Incine Services</b>
	i) Number of Healthcare facilities covered by CBMWTF	Handled by above mentioned vendor
	ii) Number of beds covered by CBMWTF	-----  -----
	iii) installed treatment and disposal capacity of CBMWTF	-----  -----
	iv) Quantity of Bio-medical waste treated or disposed by CBMWTF	-----  -----



4.	Quantity of waste generated or disposed in Kgs per Annum( on monthly average basis)		Non Covid waste		Covid waste
			Yellow Category : 36440.5 Kg/A		5218 kg/A
			Red Category: 35623 kg/A		4497.5 kg/A
			White: 811 kg/A		27 kg/A
			Blue: Category: 3999.5 Kg/A		175 kg/A
			General Solid waste: Wet & Dry 100 kg/month		
5.	Details of storage. treatment, transportation, processing and disposal facility				
	On		Size: 29'*11'		
	i)Details of the site storage facility		Capacity: can store up to 213 kg/day 27.5 kg/day		
			Provision of on-site storage: cold storage or any other provision- Cold Storage		
	Disposal facilities		Type of treatment No cap quantity Equipment of acit treaedo Unit y r S kg/ disposed Day in kg Per Annum  Incinerators Plasma Pyrolysis Autoclaves Microwave Hydroclave Shredder -----NA----- Needle tip cutter or – destroyer Sharps encapsulation or – concrete pit Deep burial pits: Chemical - disinfection: Any other treatment equipment:		
	iii Quantity of recyclable wastes : sold to authorized recyclers after treatment in kg per annum.		Red Category (like plastic, glass etc.  Handled by CBMWTF		
	iv) No of vehicles used for collection : and transportation of biomedical waste		Handled by CBMWTF		
	(v) Details of incineration ash and Quantity Where ETP sludge generated and disposed generated disposed during the treatment of wastes in Kg l		Quantity Where Generated disposa  Incineration Ash  ETP Sludge  Handled by CBMWTF		



	(vi) Name of the Common Bio- : Medical Waste Treatment Facility Operator through which wastes are disposed of		<b>Anu Autoclave &amp; Incine Services</b>
	(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 we have infection control committee
7.	Details trainings conducted on BMW		-
	(i) Number of trainings conducted on BMW Management.		Monthly 2 trainings
	(ii) number of personnel trained		For all housekeeping staff & Nursing staff
	(iii) number of personnel trained at the time of induction		For all department for new joiners we conduct training about BMW
	(iv) number of personnel not undergone any training so far		NA
	(v) whether standard manual for training is available		Yes available
	(vi) any other information		Nil
8	Details of the accident occurred during the yea		Nil
	(i) Number of Accidents occurred		Nil
	(ii) Number of the persons affected		Nil
	(iii) Remedial Action taken (Please attach details if any		NA
	(iv) Any Fatality occurred, details.		Nil
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 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		LWTP is provided & well-functioning
11	Is the disinfection method or sterilization meeting the log 4 standards? How many times you have not met the standards in a year?		---
12	Any other relevant information		: (Air Pollution Control Devices attached with the incinerator NA

Certified that the above report is for the period from - 01-01-2021 To 31-12-2021.

Date: 07-01-2022

Place: Bengaluru

Name and Signature of the Head of the Institution

*Anu Chandra*  
 Anu Chandra  
 Manipal Hospital  
 Bengaluru  
 Manipal Private Limited



Annexure-1

M/s. Manipal Hospital- Yeshwanthpur

MONTH WISE GENERATION OF BIO-MEDICAL WASTE FOR THE YEAR 2021

For the period from 01-01-2021 to 31-12-2021

Month & Year	Cat,1,3,5 Yellow in Kg's	Cat,6 (Blue) in Kg's (Glass)	Cat,7 (Red) in Kg's	Cat,4 ( White-PPC) in Kg's
January-2021	2006	94	2337	42
February-2021	3996	350	3966	41.5
March-2021	2860	498	3489	159
April-2021	2525.5	392	2605	77
May-2021	2953	324	2698	67.5
June-2021	3029	261	2599	60
July-2021	3102	524	2713	72
August-2021	3027	348	3474	60
September-2021	3146	346	2849	68
October-2021	2539	339	3117	64
November-2021	3525	355	3019	83
December-2021	3732	168.5	2757	17
<b>TOTAL</b>	<b>36440.5 Kg's</b>	<b>3999.5 Kg's</b>	<b>35623 Kg's</b>	<b>811 Kg's</b>

*Ayan Chakraborty*



Annexure-II

M/s. Manipal Hospital- Yeshwanthpur

Covid Waste

MONTH WISE GENERATION OF BIO-MEDICAL WASTE FOR THE YEAR 2021

For the period from 01-01-2021 to 31-12-2021

Month & Year	Cat,1,3,5 Yellow in Kg's	Cat,6 (Blue) in Kg's (Glass)	Cat,7 (Red) in Kg's	Cat,4 ( White-PPC) in Kg's
January-2021	171	0	196	0
February-2021	254.5	0	163.5	0
March-2021	309	0	284	0
April-2021	422	0	338	0
May-2021	1201	37	1103	5
June-2021	585.5	77	628	22
July-2021	219	0	119	0
August-2021	114	0	110	0
September-2021	480	0	400.5	0
October-2021	495	13	376.5	0
November-2021	482	48	365	0
December-2021	485	0	414	0
<b>TOTAL</b>	<b>5218 Kg's</b>	<b>175 Kg's</b>	<b>4497.5Kg's</b>	<b>27 Kg's</b>