# manipalhospitals

LIFE'S ON



To

Date: 24-01-2022

The Environmental Officer Karnataka State Pollution Control Board Regional Office-Mahadevapura 3<sup>rd</sup> Floor, Nisaraga Bhavana, Shinanagar, Rajajinagar, Bengaluru-560010

Respected Sir,

Sub: Submission of Bio-Medical Waste Annual Returns in Form-IV

With reference the above subject, we here with submitting the Bio-medical waste annual returns in Form-IV (see rule-13) towards generation and disposal of Bio-medical waste for the year 2021 for the period from 01-01-2021 to 31-12-2021 with annuxre-1 for Non covid Bio medical waste & Annexure-II for Covid Bio medical waste as per BMW rules.

Kindly acknowledge the receipt of the same,

Thanking you

For Manipal Hospital-Varthur Road

Authorized Signatory



Manipal Hospital Varthur Road

Survey No. 10P & 12P, Ramagondanahalli Village, Varthur Hobli, Whitefield, East Taluk, Bengaluru 560 066, Karnataka P+91 80 6165 6666

Manipal Hospitals Private Limited

(Formerly Columbia Asia Hospitals Private Limited)

CIN: U85110KA2003PTC033055

Regd. Off. The Annexe, #98/2, Rustom Bagh. Off. HAL Airport Road, Bengaluru - 560 017 P +91 80 4936 0300 E 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)

SI No.	Particulars			
1.	Particulars of the Occupier			
	i) Name of the authorized Person	Dr. Chaitanya Patania		
	(Occupier of : operator of facility	Hospital Director		
	ii) Name of HCF or CBMWTF	M/s. Manipal Hospital-Varthur Road		
	iii) Address of the Correspondence	No,10 P & 12 P, Ramagondanahalli Village,		
	iv) Address of the Facility	Varthur Hobli, Whitefield, Bengaluru-560066		
	v) Tel. No, Fax No.	080-61656666		
	VI) E-Mail ID	facilities.whitefield@manipalhospital.com		
	vii) URL of Website	www.manipalhsopitals.com		
	viii) GPS coordinate of HCF or CBMWTF			
	ix) Ownership of HCF CBMWTF	(State Government or Private or Semi Govt. or an other) Private		
	x) Status of Authorization under	Authorization No KSPCB/84/BMW/2017/Reg		
	the Bio-Medical Waste	No.131411		
	(Management and Handling) Rules.	Valid up to : 30-06-2022		
	xi) Status of the Consent under Water Act and Air Act.	Valid up to : 30-06-2022		
2.	Type of Health Care Facility	Multispecialty Hospital		
	i) Bedded Hospital	162 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 CBMW?F	Anu Auto Clave & Incine services		
	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			



	Quantity of waste generated or disposed in Kgs per Annum( on monthly average basis)		Non Covid waste		Covid was
			BOIY.	1743 Kg/month	
	basis)	average	Red Category:		533.5 kg/mo
			White:	2552 kg/month	323 kg/mor
			Blue: Category:	56 kg/month	14.5 kg/moi
5.	Details of store		General Calif	277 Kg/month	
	or storage, treatment, tr	ransportati	on processing w	/aste: Dry garbage	e-35 kg/day
	On  i) Details of the site of		processing and di	sposal facility	0,,
	i)Details of the site storage facility		Size: 8 ft* 8 ft		
			Capacity: can stor	e up to 154 kg/day	221
			riovision of on	-site store -	
	Disposal facilities		Provision of on-site storage: cold storage or any other provision- Cold Storage		
			Type of treatme	cold Stora	ge
			Equipment		uantity
				acit (	reaedo
					r
				S kg/	disposed
	*			Day	in kg
					Per
			Incinerators Annu		ım
			Plasma Pyrolysis	*	
			Autoclaves		
			Microwave		
			Hydroclave Shredder		
			Needle tip out	N	A
			Needle tip cutter o destroyer	r-	
			Sharps		
			encapsulation or -		
			concrete pit		
			Deep burial pits:		
1			Chemical - disinfect	ion:	
		1	America	.1011.	
1			Any other treatmen	nt	
iii (	Quantity of recyclable wastes: sold t	0	Any other treatment equipment:		
	Quantity of recyclable wastes: sold to horized recyclers after treatment in	to kg	equipment:		
per	annum.	kg	Red Category (like pl	astic, glass etc.	
per iv)	annum.	kg	Red Category (like pl	astic, glass etc.	
per iv) trar (v) [	annum.  No of vehicles used for collection : ar ansportation of biomedical waste	kg nd	Red Category (like pl	astic, glass etc.	
per iv) trar (v) [ Whe	nannum.  No of vehicles used for collection: are apportation of biomedical waste  Details of incineration ash and Quant	nd ity	Red Category (like pl Handled by CBMWT Handled by CBMWT	lastic, glass etc. F	
per iv) trar (v) [ Whe gene	nannum.  No of vehicles used for collection: are an arranged and biomedical waste  Details of incineration ash and Quantaire ETP sludge generated and dispose arrated disposed during the content of the	nd ity	Red Category (like pleased by CBMWT) Handled by CBMWT) Quant	lastic, glass etc.  F  F  tity Where	
per iv) trar (v) [ Whe gene	nannum.  No of vehicles used for collection: are an arranged and biomedical waste  Details of incineration ash and Quantaire ETP sludge generated and dispose arrated disposed during the content of the	nd ity	equipment:  Red Category (like pl  Handled by CBMWTI  Handled by CBMWTI  Quant	lastic, glass etc.  F  tity Where	
per iv) trar (v) [ Whe gene	annum.  No of vehicles used for collection : ar ansportation of biomedical waste	nd ity	equipment:  Red Category (like pl  Handled by CBMWT)  Handled by CBMWT)  Quant Gene Incineration	lastic, glass etc.  F  F  tity Where	
per iv) trar (v) [ Whe gene	nannum.  No of vehicles used for collection: are an arranged and biomedical waste  Details of incineration ash and Quantaire ETP sludge generated and dispose arrated disposed during the content of the	nd ity	equipment:  Red Category (like pl  Handled by CBMWT)  Handled by CBMWT)  Quant Gene Incineration Ash	lastic, glass etc.  F  tity Where	
per iv) trar (v) [ Whe gene	nannum.  No of vehicles used for collection: are an arranged and biomedical waste  Details of incineration ash and Quantaire ETP sludge generated and dispose arrated disposed during the content of the	nd ity	equipment: Red Category (like pl Handled by CBMWT) Handled by CBMWT) Quant Gene Incineration Ash ETP Sludge	lastic, glass etc.  F  tity Where	

	(vi) Name of the Common Bio- : Medical Waste Treatment Facility Operator through which wastes are disposed of	Anu Auto Clave & Incine services	
	(vii) List of member HCF not handed over bio-medical waste		
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	200 Members	
	(iii) number of personnel trained at the time of induction	For all department for new joiners, nurses, housekeeping 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)	Aiil	
8	Details of the accident occurred during the yea	Nil Nil	
	(i) Number of Accidents occurred		
	(ii) Number of the persons affected	, Nil	
	(iii) Remedial Action taken (Please attach details if any	Nil NA	
	(iv) Any Fatality occurred, details.	Nil	
)	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	
0	Methods in place. How many times you have not met the standards in a year	LWTP is provided & well-functioning	
1	Is the disinfection method or sterilization meeting the log 4 standards? How many times you have not met the standards in a year?		
2	Any other relevant information	: (Air Pollution Control Devices attached with the	

Certified that the above report is for the period from: 01-01-2021 to 31-12-2021

Date: 24-01-2022 Place: Bengaluru

Name and Signature of the Head of the Institution

#### Annexure-I

### M/s. Manipal Hospital- Varthur Road,

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

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

Month & Year January-2021	in Kg's	Cat.6 (Blue) in Kg's (Glass)	Cat.7 (Red) in Kg's	Cat.4 ( White-PPC)	
January-2021	1493.36	268.65	2270.36	in Kg's 63.74	
February-2021	1554.42	196.89	2289.22		
March-2021	1772.35	202 -	-209.22	56.30	
April-2021		292.88	2721.37	52.58	
	1526.89	193.86	2259.06	43.41	
May-2021	1147.09	145.50	1779.80		
June-2021	1427.70		1//3.80	18.63	
July-2021		217.07	2131.09	51.56	
July-2021	1753.18	297.78	2579.03	50.75	
August-2021	2049.58	345.97	2649.64		
September-2021	1748.06	204.40		81.55	
October-2021		284.43	2681.78	64.13	
1	2221.20	352.36	3029.41	63.27	
lovember-2021	1942.67	323.49	2972.40		
December-2021	2256.10	410.10		64.33	
		710.10	3264.65	59.10	
TOTAL	20921 Kg's	3329 Kg's	30628 Kg's	669 Kg's	



#### Annexure-II

### M/s. Manipal Hospital- Varthur Road,

#### 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	(Blue) in Kg's	Cat,7 (Red) in Kg's	Cat,4 ( White-PPC) in Kg's
January-2021	345.03	(Glass) 36.74	168.95	
February-2021	315.02	31.20		3.19
March-2021	468.85		120.08	5.22
April-2021		118.12	242.09	8.80
	1022.88	240.06	663.82	24.77
May-2021	1832.60	368.50		34.77
June-2021	1145.69		1544.72	60.24
July-2021		139.17	539.94	29.48
2019-2021	332.04	77.50	122.35	
August-2021	341.47	34.01		11.17
September-2021	128.93		177.46	3.43
October-2021		7.76	67.15	1.74
	137.14	26.28	48.22	1.55
ovember-2021	152.52	14.75	83.89	1.55
ecember-2021	181.11	44.45	03.89	5.46
	-01.11	44.12	96.16	8.67
TOTAL	6403 Kg's	1138 Kg's	3875 Kg's	174 Kg's

