

Mohali

**Fortis Hospital**  
Sector 62, Phase-VIII  
Mohali - 160 062  
Tel.: 91-172-469-2222, 91-172-502-1222  
Fax: 91-172-4692221, 91-172-509-6221  
E-mail: [contactus.mohali@fortishealthcare.com](mailto:contactus.mohali@fortishealthcare.com)  
Website: [www.fortishealthcare.com](http://www.fortishealthcare.com)

To

Date 31.01.2022

The Environmental Engineer,  
Punjab Pollution Control Board,  
Plot No. 55, Phase 2,  
S. A. S. Nagar (Mohali).



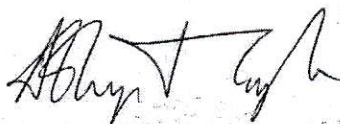
Sub: Submission of Annual Bio-Medical Waste Report FY 2020 (1<sup>st</sup> Jan 2021 to 31<sup>st</sup> Dec 2021)

Dear Sir,

Please find enclosed the Annual Bio-Medical Report for the year 2021 with below mentioned enclosures.

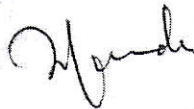
1. Annual Report Form IV
2. Accident Reporting Form 1
3. Annexure -1 for Biomedical waste details month wise for the year 2021

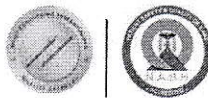
With Best Regards

  
Authorized Signatory

For Fortis healthcare Ltd., Mohali

Abhijit Singh  
Zonal Director  
Fortis Hospital  
Sector-62, Phase-VIII, Mohali





A UNIT OF FORTIS HEALTHCARE LIMITED

Regd. Office : Fortis Hospital, Sector 62, Phase - VIII, Mohali - 160062  
CIN No. : L85110DL1996PLC076704

 **Fortis SPECIALITY** Hospital

**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)]

Sl. No.	Particulars		
1	Particulars of the Occupier	:	
	(i) Name of the authorized person (occupier or : operator of facility)	:	Abhijit Singh.
	(ii) Name of HCF or CBMWTF	:	FORTIS HEALTHCARE LTD.
	(iii) Address for Correspondence	:	C/O FORTIS HOSPITAL, SECTOR 62
	(iv) Address of Facility	:	PHASE 8, MOHALI, SAS NAGAR
	(v) Tel. No, Fax. No	:	0172-469222
	(vi) E-mail ID	:	ABHIJIT.SINGH@FORTISHEALTHCARE.COM.
	(vii) URL of Website	:	WWW.FORTISHEALTHCARE.COM.
	(viii) GPS coordinates of HCF or CBMWTF	:	NL-30.413832, EL76.434924
	(ix) Ownership of HCF or CBMWTF	:	(State Government or Private or Semi Govt. or any other)
	(x). Status of Authorization under the Bio-Medical Waste (Management and Handling) Rules	:	Authorisation No.: BMW/RENEWAL/SAS/2019/927626 ..... Valid upto: 31/03/2024
	(xi). Status of Consents under Water Act and Air Act	:	Valid upto: 31/03/2023 31/03/2023
2	Type of Health Care Facility	:	
	(i) Bedded Hospital	:	No. of Beds: 360
	(ii) Non-bedded hospital	:	N/A
	Clinical Laboratory or Research Institute or Veterinary Hospital or any other)	:	
	(iii) License number and its date of expiry	:	NA
3	Details of CBMWTF	:	
	(i) Number of health care facilities covered by CBMWTF	:	NA
	(ii) No. of Beds covered by CBMWTF	:	NA
	(iii) Installed treatment and disposal capacity of CBMWTF;	:	NA Kg / day
	(iv) Quantity of bio medical waste treated or disposed by CBMWTF	:	NA Kg / day
4	Quantity of waste generated or disposed in Kg per Annum (on monthly average basis)	:	Yellow Category: 85735.59 Kg PA (7144.63 kg/month) Red Category: 108007.00 kg PA (9000.58 kg/month) White: 2186.11 kg PA (182.18 kg/month) Blue Category: 20671.96 kg PA (1722.66 kg/month) General Solid Waste: 10867 kg/month (32447 kg/year)
5	Details of the Storage, Treatment, Transportation, Processing and Disposal Facility	:	
	(i) Details of the on-site storage	:	Size: 450-550 S&F

*Handwritten signature*

	facility		Capacity: 750 kgs/day (Approx)			
			Provision of on-site storage : (Cold storage or any other provision)			
	(ii) Disposal facilities		Type of treatment equipment	No of Units	Capacity Kg/day	Quantity Treated or disposed in kg per annum
			Incinerators			/
			Plasma Pyrolysis			
			Autoclaves			
			Microwave			
			Hydroclave			
			Shredder			
			Needle tip cutter or destroyer			
			Sharps			
			Encapsulation or concrete pit		NA	
			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.) — 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 Generated	Where disposed	
			Incineration	—	— /	
			Ash	—	— /	
			ETP Sludge	—	— / NA	
	(vi) Name of the Common Bio-Medical Waste Treatment Facility Operator through which wastes are disposed of		M/S RAINBOW ENVIRONMENTS PVT LTD VILL - BALLYALI KALAN, TEH - KHARAR DIST - S.A.S. NAGAR (PB)			
	(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 MINUTES OF MEETINGS ATTACHED			

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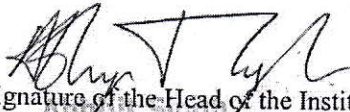
7	Details trainings conducted on BMW		
	(i)	Number of trainings conducted on BMW Management	24 nos.
	(ii)	Number of personnel trained	242 nos
	(iii)	Number of personnel trained at the time of induction	78
	(iv)	Number of personnel not undergone any training so far	NIL
	(v)	Whether standard manual for training is available?	YES
8	Details of the accident occurred during the year		MAJOR NIL
	(i)	Number of Accidents occurred	NEEDLE STICK INJURIES (44)
	(ii)	Number of persons affected	74 (INTERNAL BENCHMARKS)
	(iii)	Remedial Action taken (Please attach details if any)	VACCINATED DONE (TRAINING PROVIDED)
	(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?		YES (NIL)
	Details of Continuous online emission monitoring systems installed		NIL
10	Liquid waste generated and treatment methods in place. How many times you have not met the standards in a year?		YES, AS PER NORMS and 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?		YES DISINFECTION METHOD AS PER NORMS ARE FOLLOWED.
12	Any other relevant information		(Air Pollution Control Devices attached with the Incinerator)

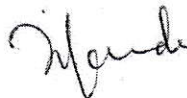
Certified that the above report is for the period from

..... 31<sup>ST</sup> DECEMBER 2021 .....  
 ..... 1<sup>ST</sup> JANUARY 2021 TO .....  
 .....

Date: 31.01.2022

Place: Mohali

  
 Name and Signature of the Head of the Institution  
 Anjali Singh  
 Zonal Director  
 Fortis Hospital  
 Sector-62, Phase-VIII, Mohali



FORM - I  
[See rule 4(o), 5(i) and 15(2)]

ACCIDENT REPORTING

1. Date and time of accident : Needle stick injury (As per Annexure 2)
2. Type of Accident : needle stick injury
3. Sequence of events leading to accident : As per Annexure-2
4. Has the Authority of been informed immediately: NIL
5. The type of waste involved in accident : NIL
6. Assessment of the effects of the accidents on human health and the environment : For Safety Vaccination done
7. Emergency measures taken : Training provided with test to all Healthgivers.
8. Steps taken to alleviate the effects of accidents : Procedural Trainings / Trainings with PPE on Segregation
9. Steps taken to prevent the recurrence of such an accident : Continuous Trainings
10. Does your facility have Emergency Control policy?  
If yes, give details : Hospital has ERT/Hazmat team to deal any kind of emergency with safety & security as per norms

Date : 31.01.2022

Place : Mohali

Signature : *Abhijit Singh*

Designation : Abhijit Singh  
Zonal Director  
Fortis Hospital  
Sector-62, Phase-VIII, Mohali

*Abhijit Singh*

## ANNEXURE - 1

Name of the Hospital : Fortis Hospital Limited (Fortis Healthcare Limited)  
Address of the Hospital : Mohali- Phase-8, Sector 62, SAS Nagar, Mohali.  
Year : 2021

### Details of Category wise, Biomedical Waste. (Kgs.)

CATEGORY/DATE	YELLOW	Bag	RED	Bag	BLUE	Bag	WHITE	Bag		
JANUARY	4800.923	1745	7835.208	1675	1399.907	187	178.893	121	159.735	27
JANUARY (COVID19)	804.272	549	751.361	421	8.500	3	6.500	5	0.000	0
FEBURY	5663.663	1896	8413.881	1831	1500.558	206	182.586	121	172.354	30
FEBURY (COVID19)	407.386	261	263.775	146	7.300	3	3.600	3	0	0
MARCH	6106.164	1948	8799.155	2009	1795.048	273	237.981	178	180.248	34
MARCH (COVID 19)	459.560	366	360.075	278	27.820	7	10.566	8	0.000	0
APRIL	4789.975	1548	6622.485	1602	1385.410	184	148.875	121	163.329	28
April (COVID 19)	1083.520	896	893.500	695	72.000	21	40.26	38	0	0
May	4528.170	1455	6025.674	1278	1087.432	145	117.111	108	155.795	25
MAY (COVID 19)	2067.900	1640	1571.970	1206	155.560	42	92.18	68	0	0
JUNE	6979.454	1625	8137.456	1680	1660.555	196	151.561	128	182.685	31
JUNE (Covid 19)	674.659	417	582.860	358	40.730	9	8.97	7	0	0
JULY	7571.677	1743	9162.676	1827	1729.6	205	157.494	149	165.45	31
JULY (Covid19)	76.350	39	87.250	37	10	3	4	4	0	0
AUGUST	8214.488	1587	9465.831	1562	1873.216	226	174.722	158	159.112	30
August (Covid 19)	79.077	43	81.146	37	16.654	5	8.2	6	0	0
SEPTEMBER	8342.625	1519	9334.131	1577	1911.407	224	145.615	128	145.659	30
September (Covid 19)	94.700	68	102.35	57	11	4	6	6	0	0
OCTOBER	7594.936	2042	9845.172	2049	2111.688	241	176.656	159	147.984	29
OCTOBER (COVID 19)	31.5	22	42	23	11	4	3.5	4	0	0
NOVEMBER	6089.270	1658	9861.805	1927	1916.496	228	164.94	166	136.72	29
NOVEMBER (COVID 19)	64.600	47	69.800	42	9	5	4.8	5	0	0
DECEMBER	7302.918	2053	9697.443	2151	1931.074	227	157.6	161	138.73	29
DECEMBER (COVID 19)	30.2	22	30.9	21	7	3	3.5	3	0	0
<b>TOTAL</b>	<b>83857.987</b>	<b>25189</b>	<b>108037.904</b>	<b>24489</b>	<b>20678.955</b>	<b>2651</b>	<b>2186.110</b>	<b>1855</b>	<b>1907.801</b>	<b>353</b>

After generation, Segregation, Collection & Storage of Bio-Medical Waste, handed over to Authorized outsourced Agency M/s Rainbow Environment Pvt. Ltd., Village Balyali, Mohali for treatment & disposal as per PPCB norms.



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A UNIT OF FORTIS HEALTHCARE LIMITED

Regd. Office : Fortis Hospital, Sector 62, Phase - VIII, Mohali - 160062  
CIN No. : L85110DL1996PLC076704

**ANNEXURE - 2**  
**NEEDLE STICK INJURY 2021**

S.No	Month	No. of Injury	Area Distribution of Needle Stick Injury														Categories of Needle Stick Injury					Incidence Needle Stick Injury									
			Ward A1	Ward A2	Ward A3	Ward A4	OPD	Sample Collection	ORTHO ICU	CCU	MICU	NISCU	GICU	MSOT	Dialysis	Daycare	PCR	PATH LAB	Triage	Doctor	Nurse	GDA	Technician	Trainee	HK	Wrong segregation	Re-Capping	Splash	After use before disposal	Procedural	
1	January	3	1					2																			1			1	1
2	February	6	2	1				1						1			1						1				1			2	3
3	March	7								3	1	2	1																5	2	
4	April	9	1	1				1	1	2				1	1											1	4		1	3	
5	May	3						1		1				1												1			1	1	
6	June	4						1	3												2	2								4	
7	July	1											1											1			1				
8	August	2								1												1	1			1				1	
9	September	2								2													2								2
10	October	2											1										1			1				1	
11	November	4								1													2	1	1				2	1	1
12	December	1								1																				1	
	<b>Total</b>	<b>44</b>	<b>1</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>5</b>	<b>14</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>34</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>8</b>	<b>2</b>	<b>12</b>	<b>19</b>	

*M. Gaudin*

## MINUTES OF MEETING

### FHM-BMW COMMITTEE (14 May 2021)

NAME OF UNIT – Fortis Hospital Mohali

Venue- Virtual

NAME OF COMMITTEE: Bio-Medical Waste Committee

1. Date & Time: 14.05.2021 (3pm – 4pm)
2. Total no. of Members present in the meeting: 6
3. Agenda circulated prior to meeting (Yes/No): Yes

#### List of Attendees:

1. Dr. Anita Sharma-Infection Control Officer, Lab Head –BMW Chairperson
2. Joice Thomas - ACNO
3. Rajesh Sharma- Housekeeping Head
4. Neeraj Tandon – Engineering Head
5. Sheila Kispotta –ICN
6. Dr. Apra Kalra

#### AGENDA

1. Update on the progress made from the last minutes of meeting.

##### New Additions /Concerns

- BMW mixing in blue bins
- Quality of Hub cutters & way forward
- Any statutory compliances to be followed in the coming months- Mr Neeraj to apprise.
- Vaccination status-Ongoing
- Mandatory trainings on BMW- Compliance at FHM and FMC
- Medication tray-not being followed by staff in ICU and ward.



The following points were discussed and responsibilities and timelines were agreed as in the table below.


S.No.	Issues	Discussion	Responsibility	Expected Closure Date	Remarks
Issues from previous meeting					
1	Bilyali Visit	Representatives from IC Team, Engg earlier this morning. Observations from the visit were shared with the group.  Glass waste was being received in puncture proof containers contrary to PPCB guidelines.	NT/ICNs	Dec 2020	CLOSED 30.12.2020
2.	Waste Handling	BMW committee recommended heavy duty gloves to be worn for handling of waste. However latex gloves can be used in transit	HK/IC	With immediate effect	Closed
3	Treatment of hazardous chemicals	All hazardous waste is being treated via ETP. Concerns were raised for Cidex. The committee was assured that this being	Engg/IC Team	Ongoing	Closed

		neutralised using glycine at the point of generation e.g. Endoscopy.			
4	TT & HBV Status	Vaccination Registers in the areas to be updated with new joiners and doctors. Chicken pox status to be added.	IC Team/ Nursing Incharges	Ongoing	Chicken Pox vaccination/previous history added to nursing vaccination registers.
5	Training on Hub Cutters	Re-enforcement/on hands training on Hub cutters	IC Team/ Nursing Incharges	Ongoing	
6.	Mutilation of gloves/IV tubings /bottles etc.	Education, Re-enforcement and continuous monitoring  Scissors to be procured	Nursing Team/ICNs	Continuous	Ongoing. Scissors are in place.
<b>New Additions/ Concerns</b>					
1	BMW mixing in blue bins	Mask, caps and gloves are being discarded in blue bins.  BMW segregation	HK/IC Team/Nsg Incharges	Immediate	

		trainings to be reinforced			
2	Quality of Hub cutters	The blade is getting blunt or broken after a few mutilations rendering it useless.  Newer options have to be explored and the same has been informed to the Purchase department	Purchase HOD	July 2021	
3.	Medication trays are not being used frequently	Medication tray usage to be reinforced to advocate safe Injection practises and proper BMW segregation.	Nsg Incharges/ICNs	Immediate	

Date and Time of Next Meeting: To be arranged in the month of Dec 2021

Signature of Chairman and Secretary

  
Dr Anita Sharma

(Chairman)

  
Kiranpreet Kaur

(Secretary)



## MINUTES OF MEETING

### FHM-BMW COMMITTEE (10 Dec. 2021)

**NAME OF UNIT – Fortis Hospital Mohali**

**Venue-Board room**

**NAME OF COMMITTEE: Bio-Medical Waste Committee**

1. Date & Time: 10.12.2021 (2:30pm – 3:30pm)
2. Total no. of Members present in the meeting: 11
3. Agenda circulated prior to meeting (Yes/No): Yes

**List of Attendees:**

1. Air Marshal Dr R. Ranyal (Medical Director)
2. Dr. Anita Sharma-Infection Control Officer, Lab Head –BMW Chairperson
3. Dr Shweta Prabhakar, Head Quality
4. Mrs Madhavi Chikale, CNO
5. Joice Thomas - ACNO
6. Rajesh Sharma- Housekeeping Head
7. Neeraj Tandon – Engineering Head
8. Sheila Kispotta –ICN
9. Kiranpreet Kaur-ICN
10. Pooja Kumari-ICN
11. Dr. Apra Kalra

### **AGENDA**

1. Update on the progress made from the last minutes of meeting.

**New Additions /Concerns**

- BMW mixing in blue bins
- Quality of Hub cutters & way forward-under discussion
- Any statutory compliances to be followed in the coming months- Mr Neeraj to apprise.
- Vaccination status-Ongoing
- Mandatory trainings on BMW- Compliance at FHM and FMC

The following points were discussed and responsibilities and timelines were agreed as in the table below.


S.No.	Issues	Discussion	Responsibility	Expected Closure Date	Remarks
<b>Issues from previous meeting</b>					
1	TT & HBV Status	Vaccination Registers in the areas to be updated with new joiners and doctors. Chicken pox status to be added.	IC Team/ Nursing Incharges	Ongoing	Chicken Pox vaccination/previous history added to nursing vaccination registers.
2.	Training on Hub Cutters	Re-enforcement/on hands training on Hub cutters	IC Team/ Nursing Incharges	Ongoing	Training ongoing
<b>New Additions/ Concerns</b>					
1	BMW mixing in blue bins	Mask, caps and gloves are being discarded in blue bins.  BMW segregation trainings to be reinforced	HK/IC Team/Nsg Incharges	Immediate	Training ongoing

2	Quality of Hub cutters	The blade is getting blunt or broken after a few mutilations rendering it useless.  Newer options have to be explored and the same has been informed to the Purchase department	Purchase HOD	July 2021	Still in discussion
3.	Medication trays are not being used frequently	Medication tray usage to be reinforced to advocate safe injection practises and proper BMW segregation.	Nsg Incharges/ICNs	Immediate	ANTT Trays were distributed in all ICU.  Point Closed.

**Date and Time of Next Meeting: To be arranged in the month of May 2022.**

**Signature of Chairman and Secretary**

Dr Anita Sharma

  
(Chairman)

Kiranpreet Kaur



(Secretary)

