

FORTIS MEMORIAL RESEARCH INSTITUTE

Sector 44 (Opp. HUDA City Centre Metro Station), Gurgaon 122 002, Haryana (India)

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To

Regional Officer,
Haryana State Pollution Control Board,
Vikas Sadan, 1st Floor,
Gurgaon (North)

June 14, 2018

Subject: Submission of Form IV for Biomedical Waste Annual Report for the period 01.01.2017 up to 31.12.2017

Dear Sir

Kindly acknowledge the receipt of the duly filled Form IV for Biomedical Waste Annual Report for the period 01.01.2017 up to 31.12.2017.

Yours faithfully

Authorized Signatory

Enclosed:

- Duly filled Form IV for Biomedical Waste Annual Report for the period 31.01.2017 up to 31.12.2017
- Duly filled Form I for Accident Reporting for the period 01.01.2017 up to 31.12.2017

FORM IV

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)]

S.No.	Particulars		
1.	Particulars of the Occupier		·
20	(i) Name of the authorised person (occupier or operator of facility)	:	Mr.Faizal Imtiaz
	(ii) Name of HCF or CBMWTF	:	FORTIS HOSPOTEL LIMITED
c	(iii) Address for Correspondence	:	The Executive Centre, Level 18, DLF Cyber City, Building No.5, Tower A, Phase III, Gurugram - 122002
	(iv) Address of Facility	:	Fortis Memorial Research Institute
			Sector – 44, Opposite HUDA City Centre Metro Station, Gurugram - 122002
	(v) Tel. No, Fax. No	:	+91-9910677580; 0124-4962222
	(vi) E-mail ID	:	amardeep.kaushal@fortishealthcare.com
	(vii) URL of Website	:	www.fmri.in
	(viii) GPS coordinates of HCF or CBMWTF		28.4572° N, 77.0728° E (HCF)
	(ix) Ownership of HCF or CBMWTF	:	Private (Public)
	(x) Status of Authorisation under the Bio-Medical Waste (Management and Handling)	:	Authorisation No.: HSPCB/BMW/EE/2016/658
	Rules		valid up to <u>31.03.2019</u>
,	(xi) Status of Consents under Water Act and Air Act	:	Valid up to: <u>30.09.2018</u>
2.	Type of Health Care Facility	:	HCF
	(i) Bedded Hospital	:	300



S.No.	Particulars	3,	
	(ii) Non-bedded hospital (Clinic or Blood Bank or Clinical Laboratory or Research Institute or Veterinary Hospital or any other)	:	NA
	(iii) License number and its date of	:	License Number: 658
	expiry	-	License Date of Expiry: 31.03.2019
3.	Details of CBMWTF	:	Vulcan Waste Management Pvt. Ltd.
	(i) Number healthcare facilities covered by CBMWTF	:	CBMWTF will provide the details
	(ii) No. of beds covered by CBMWTF	:	CBMWTF will provide the details
	(iii) Installed treatment and disposal capacity of CBMWTF:	:	Kg per day CBMWTF will provide the details
,	(iv) Quantity of biomedical waste treated or disposed by CBMWTF	:	Kg/day CBMWTF will provide the details
4.	Quantity of waste generated or disposed in Kg per annum (on monthly average basis)	:	Yellow Category: 61,181.44 Kgs + 1,602.62 Kgs (Cytotoxic) = 62,784.06 Kgs per annum Red Category: 1,04, 288.67 Kgs per annum White: 3,725.69 Kgs per annum Blue Category: 23,869.17 Kgs per annum General Solid waste: 5,200
5.	Details of the Storage, treatment, transp	ort	ation, processing and Disposal Facility
	(i) Details of the on-site storage		Size: 500 sq.ft.
•	facility		Capacity: 20,000 kg per month
			Provision of on-site storage : NA



	Particulars	*	8	*			
	(ii) Disposal facilities		Type of treatment equipment	No. of units	Capac ity Kg/da y	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 Deep burial pits:				
			Chemical disinfection:				
			Any other treatment equipment:				
	(iii)Quantity of recyclable wastes sold to authorize recyclers after treatment in kg per annum.		Red Category (I				
	(iv)No of vehicles used for collection and transportation of biomedical waste		CBMWTF will	provide tl	ne deta	nils	
	(v) Details of incineration ash and				Whe		
	() = state of intermediation asil and	11		Quantity	I VVIII	ere	
				Quantity generated		osed	
	ETP sludge generated and disposed during the treatment of	*	Incineration Ash			1	
	ETP sludge generated and					1	
,	ETP sludge generated and disposed during the treatment of wastes in Kg per annum		Ash ETP Sludge CBMWTF will 1	generated provide the	disp	ils	
,	ETP sludge generated and disposed during the treatment of wastes in Kg per annum (vi) Name of the Common Bio-Medical Waste Treatment Facility Operator through		Ash ETP Sludge	generated provide the	disp	ils	
,	ETP sludge generated and disposed during the treatment of wastes in Kg per annum (vi) Name of the Common Bio-Medical Waste Treatment		Ash ETP Sludge CBMWTF will 1	generated provide the	disp	ils	-
	ETP sludge generated and disposed during the treatment of wastes in Kg per annum (vi) Name of the Common Bio-Medical Waste Treatment Facility Operator through	1	Ash ETP Sludge CBMWTF will 1	provide the	disp ne deta nt Pvt.	ils Ltd.	



S.No.	Particulars	*	
6.	Do you have bio-medical waste management committee? If yes, attach minutes of the meetings held during the reporting period		Yes Minutes of the Meeting attached
7.	Details trainings conducted on BMW		
	(i) Number of trainings conducted on BMW Management.		72
	(ii) number of personnel trained		1448
	(iii) number of personnel trained at the time of induction		579
×	(iv) number of personnel not undergone any training so far		0 (Nil)
	(v) whether standard manual for training is available?		Yes
	(vi) any other information)		NA
8.	Details of the accident occurred during the year		0
	(i) Number of Accidents occurred		0
	(ii) Number of the persons affected		0
	(iii) Remedial Action taken (Please attach details if any)		NA
	(iv) Any Fatality occurred, details		NA
9.	Are you meeting the standards of air Pollution from the incinerator? How many times in last year could not met the standards?		NA (CBMWTF Responsibility)
	Details of Continuous online emission monitoring systems installed		NA (CBMWTF Responsibility)



S.No.	Particulars	*	
10.	Liquid waste generated and treatment methods in place. How many times you have not met the standards in a year?		Yes Always compliant with the 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 Always compliant with the standards
12.	Any other relevant information		NA (CBMWTF Responsibility)

Certified that the above report is for the period from <u>01.01.2017</u> up to <u>31.12.2017</u>

Date: 14.06.2018

Name and Signature of the Head of the Institution

Place: Gurugram, Haryana

DETAILS OF BIO-MEDICAL WASTE GENERATED DURING JANUARY 01, 2017 UPTO DECEMBER 31, 2017

CLIENT ID:

G 421

CLIENT NAME: FORTIS HOSPOTEL LIMITED

ADDRESS:

FORTIS MEMORIAL RESEARCH INSTITUTE

SECTOR - 44, OPPOSITE HUDA CITY CENTRE METRO STATION, GURGAON, HARYANA - 122002

Month	Incinerab	le (Kgs)	Au	Autoclavable (Kgs)				
WIGHT	Yellow	Cytotoxic	Red	Glass	Sharp	Total (Kgs)		
Jan-17	5,035.00	113.00	8,487.00	1,656.00	259.00	15,550.00		
Feb-17	5,040.00	101.00	8,120.00	2,110.00	323.00	15,694.00		
Mar-17	5,064.00	152.00	8,625.00	2,093.00	321.00	16,255.00		
Apr-17	4,930.00	194.00	8,045.00	1,939.00	325.00	15,433.00		
May-17	5,436.00	179.00	9,326.00	2,141.00	326.00	17,408.00		
Jun-17	5,001.80	144.00	8,074.22	1,968.41	299.03	15,487.46		
Jul-17	5,568.29	103.02	8,875.53	2,266.98	285.39	17,099.21		
Aug-17	5,304.22	104.94	8,956.51	1,998.76	303.46	16,667.89		
Sep-17	5,145.65	139.06	9,085.56	2,221.33	305.49	16,897.09		
Oct-17	5,088.91	111.45	8,954.20	2,168.86	326.02	16,649.44		
Nov-17	5,292.51	116.31	9,754.94	1,893.53	378.01	17,435.30		
Dec-17	4,275.06	144.84	7,984.71	1,412.30	274.29	14,091.20		
Tatal	61,181.44	1,602.62	104,288.67	23,869.17	3,725.69	14,091.20		
Total	Table 1 Company	62,784.06		20,000.17	131,883.53	194,667.59		



MINUTES OF MEETING 6.3.17

NAME OF UNIT: FORTIS MEMORIAL RESEARCH INSTITUTE

NAME OF COMMITTEE: INFECTION PREVENTION AND CONTROL COMMITTEE

1	Date and time of meeting: 6.3.17
2	Total no. of Essential Members in the committee: 20
3	Number of members attended (attach attendance sheet): 20
4	Chairman, convener & Mandatory Members present (Yes/No): Yes
5	Details of essential members who neither attended nor sent a representative: No
6	Agenda circulated prior to meeting (Yes/No): Yes
7	Discussion on Action Taken Report on action items / recommendations from previous meeting (Yes/No): Yes
8	Details of action items open from previous meeting : Yes

Action Item	Responsibility	Expected Closure Date	Status
Hand hygiene drive: Hand hygiene awareness drive to be carried out especially in ER, Nightingale ward and 3 rd and 4 th floors.	Infection control team	30.5.17	In progress
ATP meter: Procurement of new ATP meter for environmental surveillance	Infection control officer/MD	Pending since last meeting.	In Progress
Engineering: A: OT: OT door to be maintained properly for smooth functioning. Engineering to share AMC reports with the Infection control team.	A&B: Mr. Rajendra Vats& team	25.3.17	Closed



•	×-	•	* . *
MRSA screening: To be done for all surgical patients.	MD/MS	30.3.17	In Progress
Isolation rooms: Engineering to share the detailed list of Positive and negative pressure isolation rooms in each departments so that more isolation rooms can be created.	Mr Vats & Team	25.3.17	Closed
Reporting of technicians: MD to take decide on the reporting of technicians across the hospital	Dr Yash Pande	30.3.17	In Progress
 BMT unit and Liver transplant unit for AMS compliance: a) BMT unit antibiotic consumption to be monitored by Pharmacologist. Same to be discussed with the concerned team. b) Liver transplant team is redosing at 6 hours instead of 4 hours as per SOP recommendation. The same to be discussed with concerned team. 	a) MD/MS b) ICO	30.3.17	In Progress



Nursing hostel water cultures: Dr Dash suggested that the surveillance of	*		
water from nursing hostel to be done every 6 monthly	ICT		Closed
* * *			
Dr Dash as Chairperson:		*	
Dr Yash Pande suggested that as per Support Office SOP, a clinician be made the Chairperson, IPCC. Dr Dash was suggested as the Chairperson IPCC.	Dr Yash Pande		Closed

Apart from the above mentioned points, discussions of the MOS and CESC parameters with reference to Infection control were discussed. Also, Hand hygiene compliance data, Bio Medical waste surveillance data and vaccination data was discussed.

Signature of Convener: Dr Ruchika Bagga

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Minutes of the Meeting

NAME OF UNIT: FORTIS MEMORIAL RESEARCH INSTITUTE

NAME OF COMMITTEE: INFECTION*PREVENTION AND CONTROL COMMITTEE

- 1. Date & Time:12/7/17
- 2. Total no. of Members in the committee: 20
- 3. Number of members attended (attach attendance sheet):28
- 4. Chairman, convener & Mandatory Members present (Yes/No): yes
- 5. Details of essential members who neither attended nor sent a representative: NA
- 6. Agenda circulated prior to meeting (Yes/No): YES
- 7. Discussion on Action Taken Report on action items / recommendations from previous meeting (Yes/No): Yes
- 8. Details of action items open from previous meeting: ATP meter not procured yet
- 9. Details of action items open from previous two meetings: NA

Action Item	Responsibility	Expected Closure Date	Status					
The Chairman of the committee welcomed and greeted all the members and meeting started with discussion of last minutes.								
1 point was pending from last mee	ting on ATP procur	ement and was disc	ussed further.					
Meeting was held as per the below agenda:								
 MOS & CESC data of last 4 months(Feb.17- June.17) Surveillance reports 	*							

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			*
 Hand Hygiene Compliance Trainings of healthcare workers Vaccination record updates BMW audit findings Engineering parameters 			
MOS & CESC data of last 4 months(Feb.17- June.17)			
CESC and MOS Data was discussed and shared with all concerned stakeholders. SSI: Hand Hygiene Compliance was a major concern among the surgical team and the committee members agreed to empower the Nurses and OT manager and Anaesthetists & Surgeons to stop the surgical procedure if standard precautions were not followed by any member assisting or performing the procedure.	HOD Anaesthesia, &OT manager/Nursi ng	Immediate	
AMS Prophylaxis was also an additional concern for SSI, HOD Quality suggested if the Anaesthetists to take up the ownership of complying with AMS prophylaxis among all specialities.	HOD Anaesthesia	Immediate	
Surveillance reports			
Surveillance Reports were shared with the team members.	NA		- *
Hand Hygiene Compliance			
Quarterly hand hygiene data among all HCWs(Nurses, Doctors, GDA & Technicians) department wise were shared with all team members HOD Quality requested members to comply to hand hygiene. Hand hygiene activities to be conducted every month.	ICN	Immediate & ongoing	



•	•	•	
Trainings of healthcare workers- Report on training was shared by the ICN	ICN	ONGOING	
Vaccination record updates HR took a great initiative in doing the follow up of pending employees (Doctors, Technicians etc.) on monthly basis. Complete Vaccination data of all HCWs should be shared with ICN	HR		
AUDIT FINDINGS: Cross unit Infection control audit findings were shared with the team members.			
Zonal Director suggested that the Engineering team should frequently visit the OT complex and other areas to check all the environmental parameters to avoid such non-compliances.			
a) Prevention of Catheter Associated Urinary Tract Infection (CAUTI) in Fortis Hospitals	Infection Control nurses	30/7/17	
An external audit was conducted by the support office team on CAUTI prevention bundles, and non-compliance was discussed.		•	
Quality Head suggested providing training to GDA on infection control techniques to be followed while emptying the urobag.	Jen s		• ,
OT: HOD Gynecology proposed that Scrub Nurse was not following Non Touch Technique while handling dressing	Infection control team & OT in charge	Immediate	



	•		•
material.	*		
ATP meter: Procurement of new ATP meter for environmental surveillance was discussed and Quality Head suggested the biomedical engineering team to provide updates on the same.	HOD Biomedical Eng/ICN	30/7/17	
Engineering parameters: A: OT: Engineering team should frequently audit the OT for checking all environmental parameters such as Humidity, Pressure, and Temperature etc. B:Dedicated lockers should be provided for doctors to keep their personal belongings C: Scrub station Timers should be checked frequently for its working condition	A &B &C: Mr. Rajendra Vats& team OT manager	30/7/17	
a) Audit data's were discussed and there were concerns about waste segregation methods and working condition of BMW bins. b) Foot pedals found non- working & missing from few biomedical bins inside OT.	HOD Housekeeping	30/7/17	

Signature of Chairman:

Signature of Convener:



Minutes of the Meeting

NAME OF UNIT: FORTIS MEMORIAL RESEARCH INSTITUTE

NAME OF COMMITTEE: INFECTION PREVENTION AND CONTROL COMMITTEE

- 1. Date & Time:26/10/17
- 2. Total no. of Members in the committee: 20
- 3. Number of members attended (attach attendance sheet):19
- 4. Chairman, convener & Mandatory Members present (Yes/No): yes
- 5. Details of essential members who neither attended nor sent a representative: NA
- 6. Agenda circulated prior to meeting (Yes/No): YES
- 7. Discussion on Action Taken Report on action items / recommendations from previous meeting (Yes/No): Yes
- 8. Details of action items open from previous meeting: ATP meter not procured yet
- 9. Details of action items open from previous two meetings: Yes

Action Item	Responsibility	Expected Closure Date	Status	
The Convenor of the committee welcomed and greeted all the members and meeting started with discussion of last minutes. 1 point was pending from last two meeting on ATP procurement and was discussed further.				
Meeting was held as per the below agenda: MOS & CESC data of last 3months(July.17- Sept.17) Surveillance reports				

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	•		*
 Hand Hygiene Compliance Trainings of healthcare workers Vaccination record updates BMW audit findings Engineering parameters 	*		
MOS & CESC data of last 3 months(July.17- Sep.17)			
CESC and MOS Data was discussed and shared with all concerned stakeholders.	ICT	Immediate	·
SSI : Post-operative care pamphlets should be discussed with surgeons and to be prepared			
Surveillance reports			
Surveillance Reports were shared with the team members.	ICN		
Neonatologist suggested that separate the surface swab and hand swab reports for better understanding.			
Hand Hygiene Compliance			
Hand hygiene data among all HCWs (Nurses, Doctors, GDA & Technicians) department wise were shared with all team members.			
1)Hand Hygiene Compliance was a major concern among doctors and the committee members suggested to empower the Nurses to stop the doctors and offer hand rub if standard precautions were not followed during their rounds and procedure.	Infection control team/ HOD Quality /CNO/MD	Immediate	
2) Hand hygiene data should be shared with doctors department wise.		Sec. 1	
3) MD suggested one on one discussion with doctors to improve hand hygiene compliance.			



		•	•
 4) Committee members agreed to sensitise the patients about the importance of hand hygiene and prior information should be given to all healthcare workers. 5) HOD Quality suggested to display Hand hygiene data in OT lounge. 	*		
Trainings of healthcare workers- Report on training was shared with team members Committee members suggested to train the doctors annually on infection control practices.	ICO/MD/HOD Quality		
Vaccination record updates Vaccination data was shared with team members	NA		
ATP meter: Procurement of new ATP meter for environmental surveillance was discussed and Quality Head suggested the biomedical engineering team to provide updates on the same.	HOD Biomedical Engg/ICO/MD		
Engineering parameters:		,	9
A: OT: Surgeons had complaints about environmental parameters such as humidity and temperature. Engineering team should frequently audit the OT for checking all environmental parameters such as Humidity, Pressure, and Temperature etc.	Mr. Rajendra Vats& team/ OT manager		



BMW Audit findings:	# 	
 a) Audit data's were discussed and there were concerns about working condition of BMW bins b) Foot pedals found non- working in ICUs and foot pedal absent in few biomedical bins inside OT. 	HOD Housekeeping	

Signature of Chairman:

Signature of Convener:

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Minutes of the Meeting

NAME OF UNIT: FORTIS MEMORIAL RESEARCH INSTITUTE

NAME OF COMMITTEE: INFECTION*PREVENTION AND CONTROL COMMITTEE

- 1. Date & Time:30/01/18
- 2. Total no. of Members in the committee: 20
- 3. Number of members attended (attach attendance sheet):19
- 4. Chairman, convener & Mandatory Members present (Yes/No): yes
- 5. Details of essential members who neither attended nor sent a representative: NA
- 6. Agenda circulated prior to meeting (Yes/No): YES
- 7. Discussion on Action Taken Report on action items / recommendations from previous meeting (Yes/No): Yes
- 8. Details of action items open from previous meeting: ATP meter not procured yet
- 9. Details of action items open from previous two meetings: Yes

Responsibility	Closure Date	Status
and greeted all the	members and meeti	ng started with
-		is on post discharge
200		
	and greeted all the	and greeted all the members and meeting on ATP procurement and another one sets was discussed further.

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•	•		•
 Vaccination record updates BMW audit findings Engineering parameters 	₩		
MOS & CESC data of last 3 months(Oct.17- Dec.17) CESC and MOS Data was discussed and shared with all concerned stakeholders. SSI: Post-operative care pamphlets should be discussed with surgeons and to be prepared	ICO/HOD quality	Immediate	
Surveillance reports Surveillance Reports were shared with the team members.	NA	NA	
Hand Hygiene Compliance Hand hygiene data among all HCWs (Nurses, Doctors, GDA & Technicians) department wise were shared with all team members. 1) Hand Hygiene Compliance was a major concern among doctors and the committee members suggested to display hand hygiene posters in entrance of ward 2) Hand hygiene data should be shared with doctors department wise. 3) MD suggested one on one discussion with doctors to improve hand hygiene compliance.	Infection control team/ HOD Quality /CNO/MD	Immediate	
. 4) HOD Quality suggested to display Hand hygiene data in OT lounge.	e A		



Trainings of healthcare workers- Report on training was shared with team members	NA	On -going	
Vaccination record updates Vaccination data was shared with team members	NA ,		
Engineering parameters: Engineering parameters was shared with team members .	NA	Immediate	
a) Audit data's were discussed and there were concerns about working condition of BMW bins b) Foot pedals found non- working in ICUs and foot pedal absent in few biomedical bins inside OT.	HOD Housekeeping	On-going	

Signature of Chairman:

Signature of Convener:

MSOG/COM.MOM/2014/1.0



FORM I

ACCIDENT REPORTING

- 1. Date and time of accident: No Accident Reported
- 2. Type of Accident: No Accident Reported
- 3. Sequence of events leading to accident: NA
- 4. Has the Authority been informed immediately: NA
- 5. The type of waste involved in accident: NA
- 6. Assessment of the effects of the accidents on human health and the environment: NA
- 7. Emergency measures taken: NA
- 8. Steps taken to alleviate the effects of accidents: NA
- 9. Steps taken to prevent the recurrence of such an accident: NA
- 10. Does you facility has an Emergency Control policy? If yes give details: Yes in Safety

 Manual which covers all aspects of Emergency & Disaster Preparedness

Date: June 14, 2018

Place: Gurugram, Haryana.

Signature: Dr. Virender Kumar Sobti

Designation: Director