

## 21<sup>st</sup> January, 2022

To

The District Environmental Engineer, Tamil Nadu Pollution Control Board Kappalur Madurai – 8

Dear Sir,

Sub: Annual report for Bio medical waste -Reg

We here with furnish the Annual report for Bio medical waste for the year 2021 in Form IV as per BMW Rules-2016.

With warm regards,

for APOLLO SPECIALITY HOSPITALS - MADURAI,

Dr. ROHINI SRIDHAR

Sr. Vice President - Medical Services

Man X

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RL GAMAH NAGAR MA SO (625020)
Counter Mo:1.01/02/2022.10:30
To:THEOT ENVIRON.TH P C B India Post
P1M:625008, Kappalur IndlEstate SO
From:P PALANIVEL.TADURAI\*
Wt:58gas
Amt:35.00(Cash)
(Track on www.indiapost.gov.in)

Apollo Speciality Hospitals, Lake View Road, K.K. Nagar, Madurai-625 020. Tele No. : (0452)2580892 - 94, 2581148 - 50 Fax : 91-452-2580199, Email : apollo\_madurai@apollohospitals.com Emergency : (0452)2581111 / 1066

Registered Office : Apollo Hospitals Enterprise Limited, No. 19, Bishop Gardens, Raja Annamalaipuram, Chennai - 600 028. Corporate Identity Number (CIN) : L85110TN1979PLC008035



#### From –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 biomedical waste treatment facility (CBWTF)]

SI.No	Particulars		
	Particulars of the Occupier	:	Dr. Rohini Sridhar, Sr. Vice President - Medical
	(i) Name of the authorized person	:	
	(occupier or operator of facility)		Services Madurai
	(ii) Name of HCF or CBMWTF	:	Apollo Speciality Hospitals, Madurai
	(iii) Address for Correspondence	:	Lake View Road K.K. Nagar, Madurai - 625020
	(i) Address of Facility		Lake View Road K.K. Nagar, Madurai - 625020
	(ii) Tel. No. Fax. No.	:	9842981211
	(V) E-mail ID	:	palanivel_p@apollohospitals.com
	(i) URL of Website	:	www.apollohospitals.com
	(ii) GPS coordinates of HCF of		
	CBMWTF		To the second 1 td
	(iii) Ownership of HCF of CBMWTF		M/s. Ramky Energy and Environment Ltd
	(iv) Status of Authorization under the	:	AuthorizationNo.21BAC37251170 Dated 13/11/2021
	Bio-Medical Waste (Management		Valid up to 31/03/2024
	. and Handing) Rules.		Air & Water consent Order No: 2105237293211
	(v) Status of Consents under Water	: -	Air & Water consent Order No. 2100257256277
	Act and Air Act.		2105137293211 Valid up to: 31/03/2024
	Type of Health Care Facility	:	Speciality Hospitals
	(i) Bedded Hospital	:	No. of Beds: 250
	(ii) Non-Bedded Hospital	:	
	(Clinic or Blood Bank or Clinical		
	Laboratory or Research Institute or		
	Veterinary Hospital or any other)		AuthorizationNo.21BAC37251170 Dated 13/11/202
	(iii) License number and its date of	:	AuthorizationNo.21BAC37231170 Dated 10717292
	expiry.		Valid up to 31/03/2024
3.	Details if CBMWTF	ļ:	
	(i) Number healthcare facilities		
	covered by CBMWTF		
	(ii) No. of beds covered by CBMWTF	<del>  :                                   </del>	
	(iii) Installed treatment and disposal	:	
	capacity of CBMWTF		
	(iv) Quantity of biomedical waste	1: "	
	treated or disposal by CBMWTF	+	Yellow category: 1554.16 KG
4.	Quantity of waste generated or	1:	
	disposed in Kg per ahnum (on	1	Red Category: 2129.08 KG
	monthly average basis)		White: 1250 KG (Puncture proof container)
			Blue Category: 224.83 KG
			General Solid Waste:
	Bataile of the Storage treatment, tran	sport	ation, processing and Disposal Facility
5.		: [	Size . 0.76 feet x 6.66 feet
	(i) Details of the on-site storage		Capacity: 50 sqft x 4 Rooms
	facility		
	In Discosal Equilities	1	Type of treatment No Capacity Quantity
	(ii) Disposal Facilities		Equipment of Kg/day treated or
			Units disposed
		2.	In Kg per
			Annum
			Incinerators
		- 1	Plasma Paralysis
		1.	Autoclaves
			Microwave
			Hydroclave
			Shredder
			Needle tip cutter or
		1	destroyer
1.			Sharps
1.77			encapsulation or
			concrete pit
100		14	Deep Burial pits:
CIII J			Chemical
			disinfection:
1000			Any other treatment
	있다. 그리는 사람이 되었다면 보다 되었다는 그리고 하는데 모르는데 그리고 있다.	- 1	Any other treatment

(iv) No of vehicles used for collection and transportation of biomedical waste.  (v) Details of incineration ash and ETP sludge generated and disposal during the treatment of wastes in Kg per annum)  (vi) Name of the Common Bio-Medical Waste Treatment Facility Operator through which wastes are disposed of  (vii) List of member HCF not handed over bio-medical waste management committee? If yes, attach minutes of the meetings held during the reporting period.  7. Detail trainings conducted on BMW  (i) Number of training conducted on BMW Management.  (ii) 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 is available?		to authorized recyclars after treatment in kg per annum.	:	Red Category (like plastic, glass etc.)
ETP sludge generated and disposal during the treatment of wastes in Kg per annum)  (vi) Name of the Common Bio-Medical Waste Treatment Facility Operator through which wastes are disposed of  (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.  7. Detail trainings conducted on BMW  (i) Number of training conducted on BMW Management.  (ii) Number of personnel trained at the time of induction  (iv) Number of personnel not undergone any training so far.  (v) Whether standard manual for Available		and transportation of biomedical waste.	•	
Medical Waste Treatment Facility Operator through which wastes are disposed of  (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.  7. Detail trainings conducted on BMW  (i) Number of training conducted on BMW Management.  (ii) Number of personnel trained (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  Available		ETP sludge generated and disposal during the treatment of wastes in Kg per annum)		
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(i) Number of training conducted on BMW Management.  (ii) Number of personnel trained 369  (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 Available		Do you have bio-medical waste management committee? If yes, attach minutes of the meetings held during the reporting period.	:	
on BMW Management.  (ii) Number of personnel trained 369  (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 Available	/.			
(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 Available		on BMW Management.		12
the time of induction  (iv) Number of personnel not undergone any training so far.  (v) Whether standard manual for Available				369
undergone any training so far.  (v) Whether standard manual for Available		the time of induction		218
(v) Whether standard manual for Available				•
N		(v) Whether standard manual for training is available?		Available
(vi) Any other information)				
8. Details of the accident occurred during the year	8.	during the year		
(i) Number of Accidents occurred				
(ii) Number of the persons affected	J. 75			
(iii) Remedial Action taken (Please attach details if any)		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?	9.	Pollution from the incinerator?. How many times in last year could not met		
Details of Continuous online emission monitoring systems installed				
10. Liquid waste generated and treatment methods in place. How many times you have not met the standards in a year.	10.	Liquid waste generated and treatment methods in place. How many times you have not met the standards in a year.	3	We have 100 KLD STP
11. It the disinfection method or sterilization meeting the log 4 standards? How many times you have not met the standards in a year?	- 11.	It the disinfection method or sterilization meeting the log 4 standards? How many times you have	1.	
12. Any other relevant information	12.			

Certified that the above report is for the period from January/2021 to December/2021

Name and Signature of the Head of the Institution

Date: 21/01/2022

Place: Madurai

Jon J.

# APOLLO SPECIALITY HOSPITALS, MADURAI BIOMEDICAL WASTE - 2021

# YEARLY STATEMENT

	I LA	KLISIAIL			
MONTH	RED	YELLOW	White (SHARP)	BLUE	TOTAL
JANUARY	1942	1406	. 96	230	3674
FEBRUARY	1776	1329	88	218	3411
MARCH	2604	1502	106	226	. 4438
APRIL	1956	1372	95	193	3616
MAY	1765	1269	87	149	3270
JUNE	1778	1325	88	200	3391
JULY	2250	1626	98	242	4216
AUGUST	2329	1790	104	247	4470
SEPTEMBER	2362	1792	113	249	4516
OCTOBER	2339	1824	110	255	4528
	2230	1706	109	249	4294
NOVEMBER	2218	1709	109	240	4276
DECEMBER	2210				
	25549	18650	1203	2698	48100
Total	2129.083333	1554.166667	100.25	224.8333333	4008.333333
Per Month Avarage		52	3	7	- 134
Per Day Avarage	71	34	<i>3</i>	1	0.0

G. SARANAM IYYAPPA

Sr. Executive - Housekeeping

P.PALANÍVEL

General Manager - Engineering

DE ROHINI SRIDHAR

Sr. Vice President - Medical Sen

# **MEETING MINUTES**

Committee Name:	Infection Control Committee	Al al	The or water Science	11 21 1 11 11
Date of Meeting:	25.02.2021		Time:	
Location:	Conference Hall	Start:	12.30 p.m.	
Minutes Prepared By:	Kevin William – Quality	End:	01.30 p.m.	- 111
Presided by:	Dr. Senthur Nambi		Ž.	

## 1. Attendance at Meeting (add rows as necessary)

Dr. Rohini Sridhar, COO

Senthur Nambi. Infectious Diseases

Dr. K. Praveen Rajan, ADMS

Dr. Usha Rani, Lab Services

Dr. Bennet, General Surgery

Dr. Ram Murugan, Microbiology

Dr. Meenalatha, ICU

Dr. Jude vinoth, Emergency consultant

Dr. Harikrishnan, Pulmonology

Dr. Meenatchi, Microbiology

Dr. Vinothkumar, Pharmacy

Ms. Yamuna menon ,Nursing Administrator

Ms. Joy, Nursing

Mr. Anand, Pharmacy

Ms. Emy, Infection Control

Ms. Suganthi, Infection Control

Ms. Krishnaveni, Lab Services

Ms. Selvi, Housekeeping

Dr. Kevin, Quality

Critical care & Emergency, MOT-Incharge

## 2. Meeting Agenda

Infection Control Quality Indicators Review Microbilogy Data Review Antibiotics Data Review

3. Previous meeting discussions/follow ups (if any);

Apollo

Hospital name: Apollo Speciality Hospitals, Madurai

(ey Issues Discussed	Root Cause Identified	Agreed Action/ Decision	Assigned To/ Responsibility	Due Date	Follow up/ Status
Drug resistant index to be issued to consultant	To know by the consultant	To be circulated once in every 3 months to the consultants. To be displayed in OT, Emergency, ICU, DMO's room, common notice board	Mr. Ananth		
Urine sample	To know the reason for Mixed growth	Training to the staff	Nurse Educator		
Surgical site Infection form incision time and antibiotic timing not mentioned	To follow the incision timing SSI	To track appropriately	ALL consultant & nurses		Done
	To improve the analysis	Analysis of non- compliance moments	Ms. Emy & Ms. Suganthi		Done
Antibiotic drug chart and HEA Form to be followed circular to be given	To strengthen AMS	Policy – to be followed for all patients	Dr.praveen		
Unit angolfic anti		The state of the s	and the same of th		Done
Unit specific anti biogram to be circulated	To know the specification				
Proper indication to be followed for central line insertion					
Antibiotic susceptibility pattern chart		To be circulated all the department	Mr.Ananth		No was to lake Appendix

General comments (if any):nil

Signed by:

(Chairperson)



#### MEETING MINUTES

Committee Name:	Infection Control Committ	ce		,
Date of Meeting:	22.06.2021		Time:	
Location:	Conference Hall	Start:	12.30 p.m.	
Minutes Prepared By:	Ramya - Quality	End:	01.30 p.m.	
Presided by:	Dr. Rohini sridhar			

#### 1. Attendance at Meeting (add rows as necessary) and

Dr. Rohini Sridhar, COO

K. Praveen Rajan, ADMS

Usha Rani, Lab Services

Dr. Ram Murugan, Microbiology

Dr. Sridhar, senior cardiothoracic surgeon,

Dr. Rikesh, CT-Anesthetist

Dr Sannath, cardiothoracic surgeon

Dr.-Murugan Jeyaraman, paediatrics

Dr. Hacikrishnan, Pulmonology

bir. Meenatchi, Microbiology

Dr. Vinotlikumar, Pharmacy

Dr.Nikil thiwari

Ms. Yamuna menon , Nursing Administrator

Ms. Joy, Nursing

Mr. Anand, Pharmacy

Ms. Emy, Infection Control \*

Ms. Suganthi, Infection Control

Ms. Saranamiyyapa, Housekeeping

Mr. Marichamy, MOT-Incharge

Ms: Dheepa, CTOT-Incharge

#### 24Meeting Agenda

cction Control Quality Indicators Review crobilogy Data Review Antibiotics Data Review

: Previous meeting discussions/ follow.ups (it an)



Root Cause Identified	Agreed Action/ Decision	Assigned To/ Responsibility	Due Date	Follow up/
To reduce the risk of SSI	Training to be given to post operative patient and attenders	Ms.Emy	w.i.e	Status
To reduce Blood stream infections	Training to be given to staff regarding central line management Do's& Don'ts	Ms.Emy	w.i.e	
To reduce the risk of covid 19		All concerned	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
To track all the patient in sepsis with PCT and culture reports		ICU Consultants	20.7.202	l
	To reduce the risk of SSI  To reduce Blood stream infections  To reduce the risk of covid 19  To track all the patient in sepsis with PCT and culture	To reduce the risk of SSI  To reduce Blood stream infections  To reduce the risk of covid 19  To track all the patient in sepsis with PCT and culture	Identified  Agreed Action/Decision  To reduce the risk of SSI  To reduce Blood stream infections  To reduce the risk of covid 19  Agreed Action/Decision  Training to be given to post operative patient and attenders  Ms.Emy  Ms.Emy  Ms.Emy  Ms.Emy  Ms.Emy  Ms.Emy  Agreed Action/Responsibility  Ms.Emy  Ms.Emy  To reduce Training to be given to staff regarding central line management Do's& Don'ts  To reduce the risk of covid 19  To track all the patient in sepsis with PCT and culture	Identified Agreed Action/Decision Responsibility Date  To reduce the risk of SSI to post operative patient and attenders  To reduce Blood stream infections Central line management Do's& Don'ts  To reduce the risk of covid 19  To track all the patient in sepsis with PCT and culture  Agreed Action/Responsibility Date  Ms.Emy w.i.e  W.i.e  Ms.Emy w.i.e  All concerned .

General comments (if any):nil

Signed by:

(Chairperson)



## MEETINGMINUTES

CommitteeName:	InfectionControl Committee			
DateofMeeting:	29.09.2021			
Location:			Time:	, ,
MinutesPreparedBy:	ConferenceHall	Start:	12.00p,rn.	Between the Party Control of t
Presidedby:	Ramya V-Quality Systems	End:	01.30p.m.	
20000000	Dr.Senthur Nambi			

# 1.AttendanceatMeeting(addrowsasnecessary)

- 1. Dr.K.PraveenRajan, JD
- 2. Dr. Nikhil Tiwari GM Ops
- 3. Dr. O R Kumaran Sr. Consultant General Medicine
- 4. Dr. Padma Prakash, Consultant ICU
- 5. Dr. Bennett Rajmohan Consultant General Surgery
- 6. Dr. Ravindran Consultant Anaesthesiology
- 7. Dr. Harikrishnan, Pulmonology
- 8 Dr. Meenatchi Asst Consultant Microbiology
- 9. Dr. Vinothkumar, Pharmacy

- 10. Ms. Joy, Assistant Nursing Superintendent
- 11. Mr. Anand, Clinical Pharmacist
- 12. Ms.Emy, Sr. Infection Control Nurse
- 13. Ms. Suganthi, Infection Control Nurse
- 14. Ms.Saranam Ayyapa, House keeping
- 15. Ms. Ramya V, Manager Quality

# 2.MeetingAgenda

Infection Control Quality Indicators Review

- Hospital Acquired Infection
- Hand Hygiene
- **Bundle Compliance**
- Needle Stick Injury
- Covid -19 Data & Vaccination

Microbiology Data Review

- Surveillance data
- Susceptibility Pattern
- Notifiable Diseases

Antibiotics Data Review

- Sensitive Pattern
- Surgical Prophylaxis

Review of Policy& Manual



# 3. Previous Meeting Points

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ĺ	4.ActionItems/	Decisiontracker(	addrowsasnecessary	Assigned	Due	Followup/ Status
1	Key IssuesDiscus	Root CauseIden	Agreed Action/De	To/	Date	Status
	sed	tified	cision	Responsibi lity		
-	To reduce	Post-Operative	To prepare	Ms.Emy		
	the risk of	t	Patient			
	SSI	patient	Education			
		education.	material in the			
					•	
			, , , , , , ,			
			Pamphlet or a		1	
			Short Video			
			explaining			
			about the Do's			
			and Don't for			
			such patients			Mark 2 and 1 marks
		11-2	To check the	Ms. Emy &		
	Urinary track	Toreduce the	antibiotics used	Ms. Suganthi		
	infection	UTI	for the patients			
			having UTI.	- C M-		***
L		VAP data is nil	To Revisit the	Ms. Emy & Ms.		
	VAP data	from Jan to	COVID Patients	Suganthi		
		Aug 2021	(Culture &			••
		Aug 2021	Antiblotic)	Ms. Emy & Ms.		
_			To Analyze the	Suganthi	<u></u>	
	Hand Hygiene		data as follows :	Juganan .		
	compliance		a) No. of Moments		, , , , , ,	
	Compliance		missed			
			b) Compliance			-
			to each			
			moment			
			c) Area wise			
			compliance			
			d) Cadre wise			
	•		compliance	The state of the s		Manager of the state of the sta
-		entreprised their the sample distinguish philosophic is blacked to be bed reprised in	To analyze the	Ms. Emy &		
	Bundle		data as follows	Ms. Suganthi		
	Compliance		a) All the bundle			
			compliance			
			shall be			
			analyzed			
			separately			
		The state of the s	b) Area wise	Constitutive annother an interest day or quick and the general and the second s	were and the same production of	more the strong to the control of th
-	Notifiable	Missed	To Include the	Ms. Jincy		1

Apollo

Hospital name: Apollo Speciality Hospitals, Madurai

disease	Mucormycosis in the list of notifiable	Mycor Mycosis in the Notifiable disease.	Thomas & Mr. Robin	
Infection Control Manual	disease NABH 5 <sup>th</sup> Edition	To update the manual as per the 5 <sup>th</sup> Edition of NABH Standards	Ms. Emy & Ms. Suganthi Ms. Ramya Mr.Anand	
ECG Gel	Culture Growth is seen in Gel used for ECG & USG.	Brand has been changed for GEL (Arrow).	Ms. Emy & Ms. Suganthi	



#### MINUTES OF THE MEETING

Committee Name:	Infection Control Committee	a ta Progra, ad in gamegi <del>n diseasi in diseasian pengrandi paktion</del> ina kerdak didabadi idan er <del>pisasi diseasi</del> an	
Date of Meeting:	22.12.2021		Time
Location:	Conference Hall	Start:	12.00p.m.
Minutes Prepared By:	Ramya V-Quality Systems	Endi	
Presided by:	Dr.Senthurnambi		01.30p.m.

1.Attendance at Meeting(add rows as necessary)	And the second control of the second control
1. Dr.K. Frayeen Kajan, JD	Present
2. Dr. Nikhil Tiwari GM Ops	Present
3. Dr. Sridhar V Sr. Consultant CTVS	Present Present
4. Dr. Rikesh, Consultant Anesthesiology	Present.
5. Dr. Ram Murugan Consultant Microbiology	Present
6. Ms.Joy, Assistant Nursing Superintendent	
7. Mr.Anand, Clinical Pharmacist	
8. Ms.Emy, Sr. Infection Control Nurse	
9. Ms. Suganthi, Infection Control Nurse	
10. Ms.SaranamAyyapa, Housekeeping	
11. Ms. Ramya V, Manager Quality	
	·

# 2.MeetingAgenda

Infection Control Quality Indicators Review

- Hospital Acquired Infection
- Hand Hygiene
- Bundle Compliance
- Needle Stick Injury
- Covid -19 Data & Vaccination

#### Microbiology Data Review

- Surveillance data
- Susceptibility Pattern
- Notifiable Diseases

#### Antibiotics Data Review

- Sensitive Pattern
- Surgical Prophylaxis

Review of Policy & Manual



# 3. Previous Meeting Points

NII

Cey Issues Olscussed	Decision tracker( Root Gause Identified	Agreed "Action/De cision:	Assigned To/ Responsibl	Due Date	Follow up/Status
Bundle Compliance		Compliance and Deviation need to be specified for all the bundles.	Ms. Emy& Ms. Suganthi	•	
Drug pattern	i	Drug Sensitivity Pattern to microbes need to be Shared with the Consultants (mail/What app)	Mr. Ananth		
Covid status with regards o Employees Post infection/ /accination Status)		To include the data on staff vaccination and positive swab reported Staffs to Covid - 19 in the presentation.	Ms. Emy& Ms. Suganthi		

Dr. K. PRAVEEN RAJAN
Dr. K. PRAVEEN RAJAN

Dr. K. PRAVEEN RAJAN

M.B.S. PGDHM., FCD., MBA. PGDMLE

M.B.B.S. PGDHM., FCD., MBA. PGDMLE

Joint Director of Medical Services

Joint Director of Medical Services

Joint Director of Medical Services

Apollo Speciality Hospitals

Apollo Speciality MADURAL-20

Lake View Road, K.K. Nagar, MADURAL-20

Lake View Road, K.K. Nagar, MADURAL-20