

Date: 20/06/2023



The Chief Engineer
Waste Management Cell
West Bengal Pollution Control Board
'Paribesh Bhawan'
Building No. 10A, Block - LA
Sector - III, Bidhannagar
Kolkata - 700 106

Submission of Annual Report in Form IV of Apollo Multispeciality Hospitals Limited

Dear Sir,

In compliance with the Sl. No. 5 of Additional Conditions stipulated in the Grant of Authorization, Memo No. 25/2S(BM)-523/99-2000 dated 06.09.2021 issued from your office, we are submitting the Annual Report for the period January 2022 to December 2022 in the prescribed format (Form - IV), duly filled in, required as per the Bio-medical Waste Management Rules, 2016.

Thanking you,

For Apollo Multispeciality Hospitals Limited


Rana Dasgupta
(Chief Executive Officer -ER)

Encl. A/a



Apollo Multispeciality Hospitals Limited

(Formerly Apollo Clinics Hospital Limited), 58, Canal Circular Road, Kolkata, West Bengal - 700 054, India.

☎ +91-33-4420 2122 / 2320 3040 / 2320 2122, Emergency ☎ 1866-033112MB1988PLC045223

Garshad Clinic, 48/15, Leela Roy Sarani (Garshad), Kolkata, West Bengal - 700 019, India. ☎ +91-33-2461 0026 / 8079 / 8451 / 8547 / 8432

✉ info@kolkata.apollohospitals.com 🌐 kolkata.apollohospitals.com

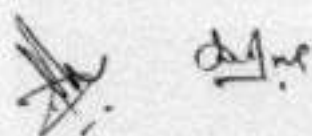


ApolloMultispecialityHospitals
apollohospitalskolkata
Apollo_Kolkata
Apollo Multispeciality Hospitals

**/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)	:	Mr. Rana Dasgupta Chief Executive Officer
	(ii) Name of HCF or CBMWTF	:	Apollo Multispecialty Hospitals
	(iii) Address for Correspondence	:	58 Canal Circular Road, Kadapara, Phoolbagan
	(iv) Address of Facility	:	Kakurgachi, Kolkata - 700054
	(v) Tel. No, Fax. No	:	(033) 2320 2122/3040 ; 23205218
	(vi) E-mail ID	:	infokolkata@apollohospitals.com
	(vii) URL of Website	:	kolkata.apollohospitals.com
	(viii) GPS coordinates of HCF or CBMWTF	:	Yes
	(ix) Ownership of HCF or CBMWTF	:	(State Government or Private or Semi Govt. or any other) - Private
	(x). Status of Authorization under the Bio-Medical Waste (Management and Handling) Rules	:	Authorisation No.: 06/25(BM)-523/99-2000 6/9/21 Valid upto: 31/8/26
	(xi). Status of Consents under Water Act and Air Act	:	06/25/CON(BM)-31/25/2015. Valid upto:31/08/26
2	Type of Health Care Facility	:	
	(i) Bedded Hospital	:	No. of Beds: <u>750</u>
	(ii) Non-bedded hospital	:	NA
	Clinical Laboratory or Research Institute or Veterinary Hospital or any other)	:	
	(iii) License number and its date of expiry	:	34234624. Validity - 3/08/2025
3	Details of CBMWTF	:	
	(i) Number of health care facilities covered by CBMWTF	:	1774 Nos
	(ii) No. of Beds covered by CBMWTF	:	-
	(iii) Installed treatment and disposal capacity of CBMWTF;	:	<u>7500</u> Kg / day
	(iv) Quantity of bio medical waste treated or disposed by CBMWTF	:	<u>7222</u> Kg / day
4	Quantity of waste generated or disposed in Kg per Annum (on monthly average basis)	:	Yellow Category: 10,220 Kgs Red Category: 11,784 Kgs White: 608 Kgs Blue Category: 1,603 Kgs General Solid Waste: 60,000 Kgs
5	Details of the Storage, Treatment, Transportation, Processing and Disposal Facility	:	
	(i) Details of the on-site storage	:	Size:1) 12' x 10' - 02 nos, 2) 8'x 6' - 02 nos



facility		Capacity: 2000 Kgs				
		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	1	5 Litre	1200 Ltrs
			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 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	:	01 No.			
(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	NA	NA	
			Ash	NA	NA	
			ETP Sludge	1400 Kgs	Dumping Area	
(vi)	Name of the Common Bio-Medical Waste Treatment Facility Operator through which wastes are disposed of	:	Medicare Environmental Management Pvt. Ltd. Durgapur Facility			
(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 (Attached)			

7	Details trainings conducted on BMW	
	(i) Number of trainings conducted on BMW Management	310 Sessions
	(ii) Number of personnel trained	6201 Staffs
	(iii) Number of personnel trained at the time of induction	All
	(iv) Number of personnel not undergone any training so far	None
	(v) Whether standard manual for training is available?	Yes
8	Details of the accident occurred during the year	
	(i) Number of Accidents occurred	27 - Needle Stick Injury
	(ii) Number of persons affected	27 Staffs
	(iii) Remedial Action taken (Please attach details if any)	Attended by House Physician and necessary steps taken as per protocols.
	(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
	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?	STP Standards maintained. (Half yearly test reports attached)
11	Is the disinfection method or sterilization meeting the log 4 standards? How many times you have not met the standards in a year?	NA
12	Any other relevant information	(Air Pollution Control Devices attached with the Incinerator)

Certified that the above report is for the period from

January 2022 – December 2022

RANA DASGUPTA
Rana Dasgupta

Name and Signature of the Head of the Institution

Date: 20/06/2023

Place: KOLKATA



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

ACCIDENT REPORTING

1. Date and time of accident : NA
2. Type of Accident : Nil
3. Sequence of events leading to accident : NA
4. Has the Authority of 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 Emergency Control policy? If yes, give detail : Yes, Hospital Emergency Code is declared for Spill Management. Team arrives to do the clearance as per the policy.

Date : 20/06/2023

Place : KOLKATA

Signature

Rana Saypta

Designation

CEO ER





BIO-MEDICAL WASTE MANAGEMENT COMMITTEE MEETING

MINUTES OF MEETING

UNIT NAME:	APOLLO MULTISPECIALITY HOSPITAL, KOLKATA.
MONTH:	MAY 2022
DATE:	28.05.2022
TIME:	03:00PM TO 04:00PM
VENUE:	BOARD ROOM
PREPARED BY:	MR.NILADRI SENGUPTA
PRESIDED BY:	MS.TANUSRI PAL

MEETING ATTENDED BY:

- **DR. S.S.BHATIA- DMS**
- **DR. SANTANU PANDA- HEAD QA**
- **MS. MADHUKARI RAY – DON ER**
- **MS. JUNIE XAVIOUR – NS INFECTION CONTROL**
- **TAPAS SENGUPTA – DGM SAFETY & SECURITY**
- **MS. SARBANI RAJ – SENIOR MANAGER OPERATION**
- **MR. RAJESHWAR ROY - SENIOR MANAGER OPERATION**
- **MR.LALTU CHAKRABORTY-EXECUTIVE- HK**
- **MR. ABHISHEK BHATTACHATYA - METERIALS**
- **MR. AKASH KARMAKAR – SENIOR EXECUTIVE QA**
- **MR. ARKAPRABHA MITRA – SHIFT ENGG MAINTENANCE**
- **MR. NILADRI SENGUPTA – EXECUTIVE- HK**

MEETING AGENDA:

- **TO DISCUSS THE AVAILABILITY OF CONSUMABLES & BARCODE.**
- **TO BE DISCUSSED ON AUDIT POINTS OF GOAL PORTAL.**
- **AWARENESS ON NEEDLE STICK INJURY.**
- **PARTICIPATION OF NON-MEDICAL STAFF IN BMW PROGRAMME.**

GENERAL POINTS DISCUSSED:

- **Last year comprehensive report to be submitted in the meeting.**
- **By 10th June Bio Medical report to be submitted to PCB.**
- **Full covered uniform required.**
- **Training session to be initiated for all.**
- **Needle stick injury report to be submitted.**
- **In place of needle burner if hub cutter can be place.**

HIGHLIGHTS:

- **Medicare person to give training.**
- **Non-medical staff training.**
- **Site visit.**


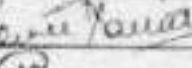













Signature *For Rajenar Roy. (Sr. Manager - IPR)*
Chairman – Bio Medical Waste Management Committee

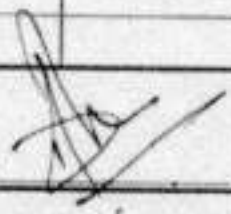
APOLLO MULTISPECIALITY HOSPITALS - KOLKATA

BIOMEDICAL WASTE MANAGEMENT COMMITTEE MEETING

VENUE: Board Room DATE: 28/05/22
 SPEAKER: Ms. Parvati Pal. TIME: 3 pm - 4 pm

SLNO	NAME	DESIGNATION	DEPARTMENT	SIGNATURE
1	SHARBANI RAJ	SR MGR	OPS	
2	Junie Xamouh	NS-IC	Nsg	
3	ARKA PRANO MOYKA	Asst. Engg	Maintenance	
4	Tapash Sengupta	DGM	Security	
5	Debasis Dutta	Executive	HR	
6	Naim Chakrabarty	EXECUTIVE	HR	
7	Dr. S. S. Bhaute	DMG	Med	
8	Abhishek Bhattacharya	Plintat	Materials	
9	Aakash Kumar	Gen Executive	QA	
10	Nitadori Sengupta	Executive	HR	
11	Dr. Santanu Paul	NSG	ES	
12	Manish Kumar	NSG NS-IC	NSP	
13	Rajeshwar B	Sr. Manager	Ops	
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SIGNATURE OF THE SPEAKER



MEETING MINUTES

Committee Name:	BIO MEDICAL WASTE MANAGEMENT COMMITTEE		
Date of Meeting: (DD/MM/YYYY)	22.11.2022	Time: 1 pm – 2 pm	
Location:	Board Room	Start:	1 pm
Minutes Prepared By:	Tanusri Pal	End:	2 pm
Presided By:	Dr. Surinder Singh Bhatia – Director of Medical Services		

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

1. Dr. Surinder Singh Bhatia- Director of Medical Services
2. Dr. Partho Bhattacharya, Joint Director- Medical Services
3. Capt. Madhukari Ray - Director Nursing
4. Mr. Krishnendu Bose – GM Maintenance & Projects
5. Mr. Dulal Chakraborty – GM Operations
6. Mr. Ashish Mishra, Company Secretary
7. Ms. Soma Das, Head – QA
8. Ms. Junie Xaviour , Nursing Superintendent
9. Mr. Tapas Sengupta, DGM, Safety & Security
10. Ms. Sharbani Raj, Sr Manager - Operations
11. Mr. Rajeshwar Ray, Sr. Manager- Operations
12. Mr. Amitava Nandi, DGM - Materials
13. Ms. Tanusri Pal, Sr. Manager - Housekeeping
14. Mr Akash Karmakar, Sr Executive, Quality Assurance
15. Mr. Partho Sarathi Chowdhury, Manager – Housekeeping
16. Mr. Deepak Mazumdar, Manager – Learning & Development
17. Mr. Niladri Sengupta, Executive - Housekeeping

2. Meeting Agenda

1. Timing of the waste pick up should be maintained between 7:30 am – 8:30 am
2. Monthly bills should be sent with required verification.
3. Bio Metric Access control of storage rooms to be repaired.
4. Ramp for the weighing the bags needs repair work.
5. Bio Medical Waste Generation limit: Per Day limit can exceed on few occasions.
6. Staff members from all departments should participate in the trainings by BMW team
7. BMW training by Medicare team.
8. Appropriate segregation at source
9. Irregular Supply of BMW barcodes & bags.

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

Previous minutes were confirmed, decisions taken as per the requirements and there were no other amendments.

4. Action Items/ Decision tracker *(add rows as necessary)*

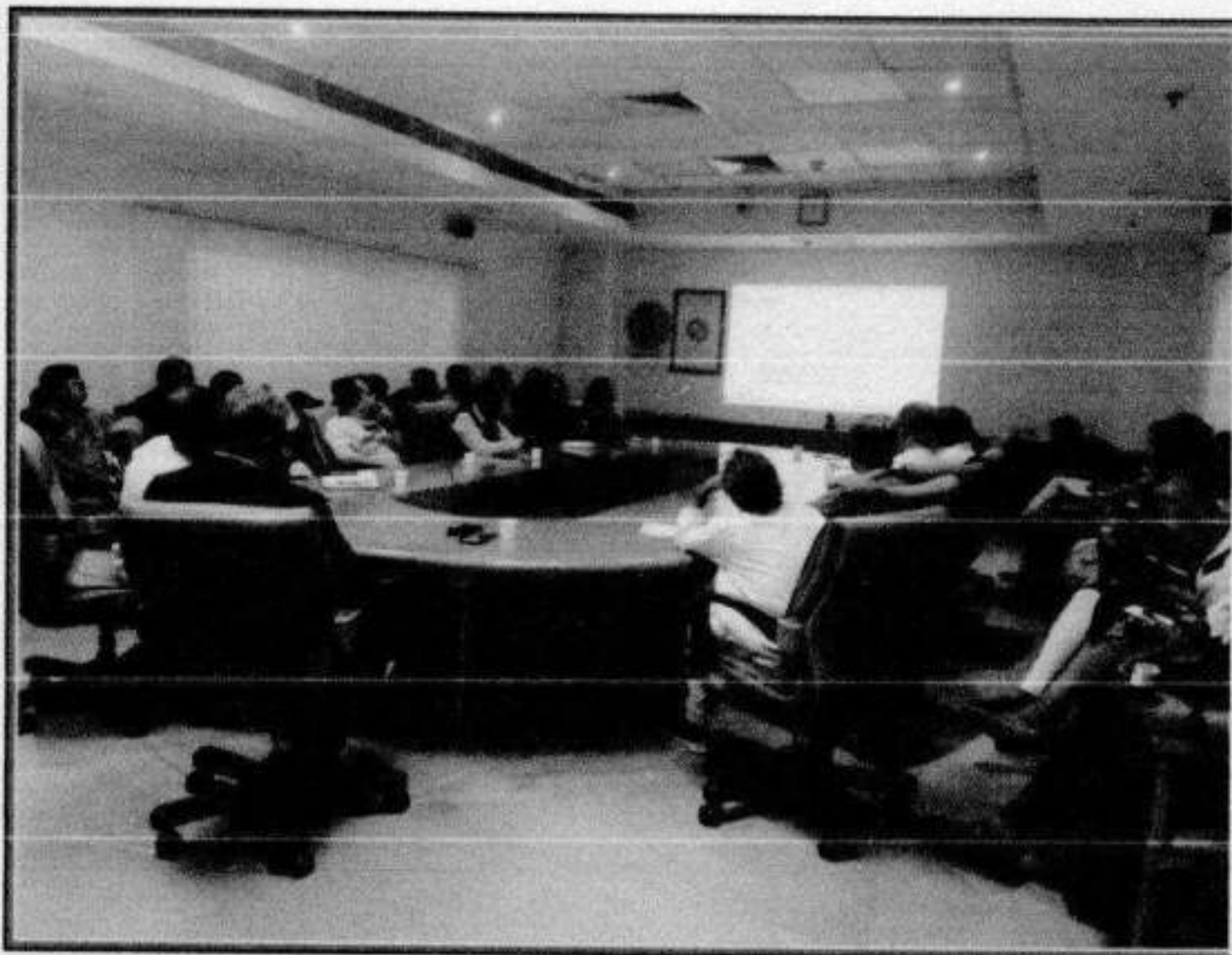
Key Issues Discussed	Root Cause Identified	Agreed Action/ Decision	Assigned To/ Responsibility	Due Date	Follow up/ Status
1 Timing of the waste pick up should be maintained between 7:30 am – 8:30 am	It has been observed that Medicare vehicle comes after 9 am which is not a suitable time.	It has been decided to send communication to Medicare team on sending the vehicle between 7:30 – 08:30 am	Ms. Tanusri Pal	15/12/22	Immediate
2. Monthly bills should be sent with required verification.	It has been observed the monthly bills received from Medicare is not accurate.	It has been decided to meet the senior team of medicare and address the issue.	Ms. Tanusri Pal	20/12/2022	Immediate

3. Bio Metric Access control of storage rooms to be repaired.	The bio metric access control is not functioning.	The Bio Metric access control should be re- activated.	Mr. Tapas Sengupta	30/11/2022	Imme- diate
4. Ramp for the weighing the bags needs repair work.	The ramp is at an elevated height. Which is difficult for the staffs to load the container.	Ramp to be leveled at an acceptable height.	Mr. Krishnendu Bose	30/12/22	Imme- diate
5. Bio Medical Waste Generation limit: Monthly & Average per day	It has been observed that there are few days when the per day limit has exceeded	Initiative to reduce waste from various units to be taken up	Sr. Junie Xaviour / Ms. Tanusri Pal	30/04/2023	
6. Appropriate Segregation at source	It has been observed that appropriate segregation is not followed in few areas of the hospital	Training on BMW disposal to be carried out at unit levels by BMW Trainers.	Ms. Tanusri Pal / Sr. Junie Xaviour / Mr. Deepak Mazumdar	15/12/2022	
7. Disposal Of Body Parts	Segregation of body parts in freezer based on MLC & Non MLC should be clearly marked.	Process flow on disposal of Body parts to be reiterated.	Mr. Tapas Sengupta / Ms. Tanusri Pal	30/11/2022	

General comments (if any):

Sl./No	Points Discussed	Responsible for Action	EDC
1.	Transportation of BMW should not be done during busy hours	Mr. Raju Singh / Mr. Partha Sarathi Choudhury	Immediate
2.	Training on BMW disposal – Video to be prepared	Ms. Tanusri Pal / Deepak Mazumdar	31/12/2022

Hospital name: Apollo Multispeciality Hospitals, Kolkata



Signed by:

Rale

(Chairperson)



APOLLO MULTISPECIALITY HOSPITALS - KOLKATA

BIO MEDICAL WASTE MANAGEMENT - COMMITTEE MEETING

DATE:	TIME:			
	1 pm - 2 pm			
SPEAKER	VENUE:			
Ms Tanusri Paul	Board Room			
SNO	EMPLOYEE NAME	DESIGNATION	DEPARTMENT	SIGNATURE
1	Dr. Kumar	DMS	Med	[Signature]
2	Dr. P. Bhattacharya	JOMs	Med	[Signature]
3	DULAN	Clin	Ops	[Signature]
4	Ashish Mishra	C.S. GM	Finance	[Signature]
5	Soma Das	Reg. Head	Quality	[Signature]
6	Arun Kumar	Asst. Mgr	Quality	[Signature]
7	Amritansu Nandi	DGM	Materials	[Signature]
8	Krishnendu Bose	GM	NLE	[Signature]
9	Rajeshwar Roy	ST. Manager	Ops	[Signature]
10	Tapaswini Sengupta	DBN	Security	[Signature]
11	Kyritia Sanyal Choudhury	Manager	Housekeeping	[Signature]
12	Deepak Majumdar	Manager	HR	[Signature]
13	Nitadi Sengupta	Executive	Housekeeping	[Signature]
14	Janie Xanouse	NS-IC	Nursing	[Signature]
15	Nadukani Ray	DN-ER	Inf	[Signature]
16	Shobani Ray	Br. Mgr	Ops	[Signature]
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30				

SIGNATURE OF THE SPEAKER:

TEST REPORTS	
DESCRIPTION OF SAMPLE	FREQUENCY
STP / ETP WATER	HALF-YEARLY

Building No. P- 46, Udayan Industrial Estate,
 3, Pagladanga Road,
 Kolkata 700015, West Bengal
 Tel. +91 7044036120
 Email: udayan@mitrasak.com
 Web: www.mitrask.com

TEST REPORT

ULR: TC-695022000007496F

Name & Address of the Customer:
 Apollo Multispeciality Hospital Limited,
 58, Canal Circular Road,
 Kolkata-700054.

Report No. : C/2022/7496
Date : 22.09.22
Sample No. : MSK/KOL/2022/7252
Date of receipt of sample : 14.09.22
Date(s) of performance : 14.09.22-22.09.22
Ref. No. & Date : As per letter dt. 18.04.22
Discipline : Chemical

We hereby certify that the following sample drawn by us from the customer has been analyzed with the following results:

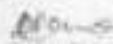
1	Group	: Pollution & Environment
2	Description of sample	: Effluent water
3	Date of sampling	: 13.09.22
4	Unique Identification	: STP Water from Inlet
5	Place of sampling	: Apollo Multispeciality Hospital Limited, 58, Canal Circular Road, Kolkata-700054.
6	Sampling Plan & Procedures used	: APHA 23 rd edition, 2017
7	Environmental conditions during sampling & Transport Condition	: (2 - 5) °C Cold chain maintained.
8	Identification of the personnel performing sampling	: Mr. Shukar Payra

ANALYSIS RESULT


Sl No.	Test Parameter	Unit	Test Method	Result
1.	pH.	at 25°C	APHA 23 rd edition, 2017, 4500-H+B	7.34
2.	Biochemical Oxygen Demand (BOD)	mg/l	APHA 23 rd edition, 2017, 5210B	72
3.	Chemical Oxygen Demand (COD)	mg/l	APHA 23 rd edition, 2017, 5220B	240
4.	Oil and Grease	mg/l	APHA 23 rd edition, 2017, 5520B	<5.0
5.	TDS	mg/l	APHA 23 rd Edition, 2540-C	1638

End


Report prepared by:

Signature: 
 Name: Mr. Asim Kumar Jana
 Designation: Sr. Office Assistant

Report Verified By:

Signature: 
 Name: Ms. Prulami Dutta
 Designation: Sr. Executive QA

Report Sign By Authorized Signatory

Signature: 
 Name: Dr. Soumyadeep Mukhopadhyay
 Designation: Lab in charge

- The results relate only to the samples tested.
- This Test Report shall not be reproduced except in full, without the permission of Mitra S.K. Private Limited.
- The reserved part of sample(s) for chemical analysis (Non-perishable sample(s) Food, Waters) shall be retained for 15 days from the date of issue of the Test Report. Perishable sample(s) shall be retained 2 days from the date of issue of the Test Report.
- The reserved part of sample(s) for chemical analysis (Food, Solid & Liquid Waste) shall be retained for 15 days as per ISO 17025 guideline & IAS 1 month from the date of issue of the Test Report.
- The reserved part of sample(s) for microbiological analysis (Non-perishable sample(s) Food, Treated Water, Sewage) shall be retained for 15 days from the date of issue of the Test Report. Perishable sample(s) shall be retained 2 days from the date of issue of the Test Report.

Building No. P-48, Uttayan Industrial Estate
 T.Pagalanga Road,
 Kolkata 700015, West Bengal
 Tel. +91 7944006120
 Email: udhyaraj@mitrask.com
 Web: www.mitrask.com

TEST REPORT

Name & Address of the Customer: Apollo Multispeciality Hospital Limited,
 58, Canal Circular Road,
 Kolkata-700054

Report No.: C/2022/2188B
Date: 12.10.2022
Sample No.: MSKGL/D/2022-23/10.00306
Date of receipt of sample: 06.10.22
Ref. No. & Date: Letter, dt. 18.04.22
Discipline: Micro-Biology

We hereby certify that the following sample drawn by us from the customer has been analysed with the following results:

1	Group	: Water & Residue in Water
2	Description of sample (As declared by customer)	: Effluent Water
3	Date of sampling	: 06.10.22
4	Unique Identification	: STP Outlet water
5	Place of sampling	: Apollo Multispeciality Hospital Limited, 58, Canal Circular Road, Kolkata-700054
6	Sampling Plan & Procedures used	: As per FSSAI manual
7	Environmental conditions during sampling & Transport Condition	: Maintained
8	Identification of the personnel performing sampling	: Mr. Shunkar Praya

Analysis Result

Sl. No.	Test Parameter	Requirement (Acceptable limit) as per IS: 10500-2012	Permissible limit in the Absence of Alternate source As Per IS: 10500-2012	Result	Test Method
1	Colony Alpha Formers (No./l)	0.1 Max	No Relaxation	<0.1	H. 54194 (Part 2) 2013
2	Colony Beta Formers (No./l)	1.0 Max	No Relaxation	<1.0	H. 54194 (Part 1) 2013

————— END —————

Report prepared by

Prayash

Prayash
 Authorized Signatory

- The results relate only to the items tested.
- This Test Report shall not be reproduced except in full, without the permission of Mitra S.K. Private Limited.
- The returned part of sample(s) for chemical analysis (Non-perishable sample(s) for Food, Surface Water, Sewage) shall be returned for 15 days from the date of issue of the Test Report. Perishable sample(s) shall be returned 2 days from the date of issue of the Test Report.
- The returned part of sample(s) for chemical analysis (Food, Solid W, Surface Water) shall be returned for 15 days as per CPCB guideline 6.1 (a) / 7 months from the date of issue of the Test Report.
- The returned part of sample(s) for Microbiological analysis (Non-perishable sample(s) for Food, Surface Water, Sewage) shall be returned for 15 days from the date of issue of the Test Report. Perishable sample(s) shall be returned 2 days from the date of issue of the Test Report.

TEST REPORT

Name & Address of the Customer:
 Apollo Multispeciality Hospital Limited
 58, Canal Circular Road
 Kolkata - 700054

Report No. : MSKGL/ED/2022-23/002541
Date : 22.09.22
Sample No. : MSKGL/ED/2022-23/10.00258
Date of receipt of sample : 14.09.22
Date(s) of performance : 14.09.22 - 22.09.22
Ref. No. & Date : As per letter dt.18.04.22
Discipline : Chemical

We hereby certify that the following sample drawn by us from the customer has been analyzed with the following results

1	Group	Pollution & Environment
2	Description of sample (As declared by customer)	Effluent Water
3	Date of sampling	13.09.22
4	Unique Identification	STP water from Outlet
5	Place of sampling	Apollo Multispeciality Hospital Limited, 58 Canal Circular Road, Kolkata - 700054
6	Sampling Plan & Procedures used	APHA 23 rd edition, 2017
7	Environmental conditions during sampling & Transport Condition	(2 - 5) °C Cold chain maintained.
8	Identification of the personnel performing sampling	Mr. Shankar Patra

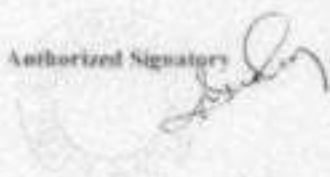
Analysis Result

Sl No.	Test Parameter	Unit	Test Method	Limits as per CPCB	Result
1	Total Suspended Solids	mg/l	APHA (23rd Edition) 2540D - 2017	100	12.1

Report prepared by:



Authorized Signatory



- The results relate only to the samples tested.
- This Test Report shall not be reproduced except in full, without the permission of Mitra S.K. Private Limited.
- The reserved part of sample for chemical analysis (Non - perishable samples) Food, Water shall be retained for 15 days from the date of issue of the Test Report. Perishable samples shall be retained 2 days from the date of issue of the Test Report.
- The reserved part of sample for chemical analysis (Soil, Solid & Capable Slurries) shall be retained for 15 days or per CPCB guidelines if class 1 months from the date of issue of the Test Report.
- The reserved part of sample for Microbiological analysis (Non - perishable samples) Food, Sealed Water, Sealed Slurries shall be retained for 15 days from the date of issue of the Test Report. Perishable samples shall be retained 2 days from the date of issue of the Test Report.



N.D. INTERNATIONAL

GOVERNMENT REGISTERED



An ISO 9001 : 2015 Company | Certificate : 18DQCM02

TEST REPORT

ULR No. TC581022000000605F

Certificate No.: E(D)/21-22/183

SAMPLE DRAWN BY US :

Format No. :NDI/FM/51

Date: 26.03.2022

Page 1 of 1

Name of Customer	: M/s. Apollo Multispeciality Hospitals Ltd.		
Address	: 58, Canal Circular Road, Salt Lake, Kolkata-700 054.		
Description of Sample	: STP Water		
Collection Source	: STP Inlet		
Sampling Done by	: Mr. Sujit Kayal		
Environmental Condition	: Temperature : 36°C		
Sample Drawn on	: 22.03.2022		
Analysis Started on	: 22.03.2022		
Analysis Completed on	: 26.03.2022		
Method of Sampling	: IS : 3025 (Part - 1) 1987,	Sampling Plan : NDI / FM / 52A	
Mode of Sampling	: Grab		

A. PHYSICAL TEST FINDINGS:

Sl. No.	Test Parameter	Test Method	Unit	Result
1	Temperature	APHA 23rd Edn. 2550-B	°C	26

B. CHEMICAL TEST FINDINGS:

Sl. No.	Test Parameters	Test Method	Unit	Result
1	pH at 25°C	APHA 23rd Edn. 4500 H ⁺ B	--	7.44
2	Total Suspended Solids	APHA 23rd Edn. 2540 D	mg/l	64.0
3	Oil & Grease	APHA 23rd Edn. 5520 D	mg/l	8.6
4	Biochemical Oxygen Demand at 27°C for 3 days	IS 3025 (Part - 44) 1993	mg/l	03
5	Chemical Oxygen Demand	APHA 23rd Edn. 5220 B	mg/l	807
6	Total Dissolved Solids	APHA 23rd Edn. 2540C	mg/l	1622

--End of Test Report--



For N.D. International

K.P. De - CEO
(Authorised Signatory)

1. The test report shall not be reproduced, except in full, without written approval of the company.
2. Results relate only to the parameters tested.
3. The remaining sample after test will be retained for 15 days from the date of issue of certificate.



TEST REPORT

ULR No. TC5910220000000606F

Certificate No. : EID/21-22/184

SAMPLE DRAWN BY US :

Format No. :NDI/FM/51

Date: 26.03.2022

Page 1 of 1

Name of Customer : Mrs. Apollo Multispeciality Hospitals Ltd.
 Address : 5B, Canal Circular Road, Salt Lake, Kolkata-700 054.
 Description of Sample : STP Outlet
 Collection Source : STP Outlet
 Sampling Done by : Mr. Sujit Kayal
 Environmental Condition : Temperature : 36°C
 Sample Drawn on : 22.03.2022
 Analysis Started on : 22.03.2022
 Analysis Completed on : 25.03.2022
 Method of Sampling : IS : 3025 (Part - 1) 1987, Sampling Plan : NDI / FM / 52A
 Mode of Sampling : Grab

A. PHYSICAL TEST FINDINGS:

Sl No.	Test Parameters	Test Method	Unit	Result
1	Temperature	APHA 23rd Edn. 2550-B	°C	26

B. CHEMICAL TEST FINDINGS:

Sl No.	Test Parameters	Test Method	Unit	Result	Limit as per Environmental Protection Act. (MOE & F) for Effluent discharge into inland surface water
1	pH at 25°C	APHA 23rd Edn. 4500 H B	—	7.52	5.5 - 9.0
2	Total Suspended Solids	APHA 23rd Edn. 2540 D	mg/l	14.0	100 mg/l. (max)
3	Oil & Grease	APHA 23rd Edn. 5520 D	mg/l	<2 (DL: 2)	10 mg/l. (max)
4	Biological Oxygen Demand at 27°C for 3-days	IS 3025 (Part - 4) 1993	mg/l	24	30 mg/l. (max)
5	Chemical Oxygen Demand	APHA 23rd Edn. 5220 B	mg/l	67	250 mg/l. (max)
6	Total Dissolved Solids	APHA 23rd Edn. 2540C	mg/l	1260	2100 mg/l. (max)
7	BIO-ASSAY	IS 6582 (Part 2) :2001	-	99% fish survived after 96 hours in 100% effluent	90% survival of fish after 96 hours in 100% effluent

Note : DL - Detection Limit

Remarks : Satisfactory for the above tested parameters.

Statement of Conformity is applied considering Decision Rule as per ISO Guide 98-4.

End of Test Report



For N.D. International

K.P. De - CEO

(Authorised Signatory)

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2. Results relate only to the parameters tested.

3. The remaining sample after test will be retained for 15 days from the date of issue of certificate.

SPN-II

TEST REPORTS	
DESCRIPTION OF SAMPLE	FREQUENCY
STP / ETP WATER RADIO ACTIVITY TEST	YEARLY



TEST REPORT

ULR: TC-695022000007497F

Name & Address of the Customer:
Apollo Multispeciality Hospital Limited,
58, Canal Circular Road,
Kolkata-700054.

Report No. : C/2022/7497
Date : 22.09.22
Sample No. : MSK/KOI/2022/7253
Date of receipt of sample : 14.09.22
Date(s) of performance : 14.09.22-22.09.22
Ref. No. & Date : As per letter dt.18.04.22
Discipline : Chemical

We hereby certify that the following sample drawn by us from the customer has been analyzed with the following results:

1	Group	: Pollution & Environment
2	Description of sample	: Effluent water
3	Date of sampling	: 13.09.22
4	Unique Identification	: STP water from Outlet
5	Place of sampling	: Apollo Multispeciality Hospital Limited, 58, Canal Circular Road, Kolkata-700054.
6	Sampling Plan & Procedures used	: APHA 23 rd edition,2017
7	Environmental conditions during sampling & Transport Condition	: (2 - 5) °C Cold chain maintained.
8	Identification of the personnel performing sampling	: Mr. Shankar Payra

ANALYSIS RESULT

Sl No.	Test Parameter	Unit	Test Method	Limit as per CPCB	Result
1.	pH	at 25°C	APHA 23 rd edition,2017, 4500-11-H	5.5 - 9.0	7.56
2.	Biochemical Oxygen Demand (BOD)	mg/l	APHA 23 rd edition,2017, 5210A	30	26
3.	Chemical Oxygen Demand (COD)	mg/l	APHA 23 rd edition,2017, 5220A	250	92
4.	Oil and Grease	mg/l	APHA 23 rd edition,2017, 5520B	10	<5.0
5.	TDS	mg/l	APHA 23 rd Edition, 2540 C	-	1492
6.	Bio Assay	-	IS 6582 (P-2)	90% survival of fish after 96 hours in 100% effluent	No fish are survived in 100% effluent water after 96hrs (TF-4)

End

Report prepared by:

Signature:
Name: Mr. Anir Kumar Jana
Designation: Sr. Office Assistant

Report Verified By

Signature:
Name: Ms. Paulami Dutta
Designation: Sr. Executive QA

Report Sign By Authorized Signatory

Signature:
Name: Dr. Soumyadeep Mukhopadhyay
Designation: Lab In charge

- The results relate only to the items tested.
- This Test Report shall not be reproduced except in full, without the permission of Mitra S.K. Private Limited.
- The reserved part of sample(s) for chemical analysis (from - perishable sample(s) Food, Water) shall be retained for 15 days from the date of issue of the Test Report. Perishable sample(s) shall be retained 2 days from the date of issue of the Test Report.
- The reserved part of sample(s) for chemical analysis (from - Solid & Liquid Waste) shall be retained for 15 days as per CPCB guideline & (for) 1 month from the date of issue of the Test Report.
- The reserved part of sample(s) for Microbiological analysis (from - perishable sample(s) Food, Sealed Water, Sealed foods) shall be retained for 15 days from the date of issue of the Test Report. Perishable sample(s) shall be retained 2 days from the date of issue of the Test Report.

APOLLO MULTISPECIALITY HOSPITALS - KOLKATA

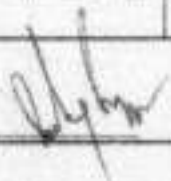
HOUSEKEEPING TRAINING ATTENDANCE SHEET

TOPIC: **BIO MEDICAL WASTE MANAGEMENT**
 DATE: **02.08.22** TIME: **10AM-11AM**

TRAINER: **RINKU SAPUI** VENUE: **1ST FLOOR (MB)**

SLNO	EMPLOYEE NAME	EMPLOYEE ID.	SIGNATURE
1	Ram Mandal	115	[Signature]
2	AJIT vs Jhon	55050648	[Signature]
3	Suhk Haha	406	[Signature]
4	Abhisek Chakraborty	703	Abhisek
5	[Signature]	108	[Signature]
6	Jannette Basik	307	[Signature]
7	Jayanta Paul	020	J. Paul
8	Biswajit Mandal	106	[Signature]
9	Mantra Paul	213	M/K
10	Suhk Haha	452	[Signature]
11	Debarshi Ghosh	307	[Signature]
12	Tapan Das	327	T. Das
13	Chay Bum	320	Chay Bum
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TRAINER'S SIGNATURE:



HOUSEKEEPING H.O.D. SIGNATURE



APOLLO MULTISPECIALITY HOSPITALS - KOLKATA

HOUSEKEEPING TRAINING ATTENDANCE SHEET

TOPIC:	Bio medical waste management		
DATE:	2/8/22	TIME:	5:10 pm - 5:45 pm
TRAINER:	Prabir Dasgupta	VENUE:	M/B end floor
SLNO	EMPLOYEE NAME	EMPLOYEE ID	SIGNATURE
1	Raju Pramanik	5500039	Raju Pramanik
2	Dudhwan Haldar	5500056	Dudhwan
3	Sanjay Ranee	5500032	Sanjay
4	Sanjay Nag	5500061	Sanjay
5	Sunay Ranee	5500072	Sunay
6	Naba K. Sinha	5500085	NABA
7	Prangaban Haldar	5500013	P. G. Prangaban
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TRAINER'S SIGNATURE: Prabir Dasgupta

HOUSEKEEPING H.O.D. SIGNATURE



ATTENDANCE SHEET

Apollo Multispeciality Hospitals Kolkata

Program: Biomedical Waste Management

Date/Time/Duration: 13/9/22 - (3-4) Pm

Co-ordinator/Trainer: Dr. Jhuma Bagchi

Participants: PHC Staff

S.no	CODE	Name	Dept.	Sign
1	1048342	Poulami Dasgupta	AHC (P/S)	Dasgupta
2	1049301	Kheyalu Sen	AHC (P/S)	Sen
3	1048701	Grandma Boy	AHC (P/S)	Siboy
4	1049165	Kamini Saha	AHC (P/S)	Saha
5	1162374	Somasree Chatterjee	AHC	Chatterjee
6	1049942	Sohini Mukherjee	AHC	Mukherjee
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13/09/2022

ATTENDANCE SHEET

Apollo Multi-speciality Hospitals Kolkata

Program: Bio-medical Waste Management

Date/Time/Duration: 10/02/2022

Co-ordinator/Trainer: Dr. Suchismita Bhosnick

Participants: PHC Staff

S.no	CODE	Name	Dept.	Sign
1	1048301	Skantana Ray	P/S.	[Signature]
2	1181505	D. Chatterjee	ophthal	[Signature]
3	123456	Saloni K. Roy	Physiology	[Signature]
4	144704	Lipa Pal	cardiology	[Signature]
5	5287	Abhishek Ghosh	A-H C	[Signature]
6	1049867	Pratik Biju	Optical	[Signature]
7	1048318	Neelam Ch Das	PFT	[Signature]
8	336	Aspitad Ghosh	MHC	[Signature]
9	127279	Indrani Koul	cardiology	[Signature]
10	1049301	Krupati Sen	P/S	[Signature]
11	7447	Pritya Chakrabarty	AHC	[Signature]
12	1184818	Tanya Das	PFT	[Signature]
13	137157	Sohini Mukherjee	AEC	[Signature]
14	123431	Debdatta	Pharm	[Signature]
15	104834	Atan Ch	PFT	[Signature]
16	124694	Jharna Ch	USG	[Signature]
17	124350	Shubhankar	Phlebotomy	[Signature]
18	1162870	Soumasree Chatterjee	AHC	[Signature]
19	1048342	Panchami Dasgupta	P/S AHC	[Signature]
20	000382	Sabita Das	Nursing	[Signature]

10/02/2022

ENDOSCOPY TECHNICIAN TRAINING ATTENDANCE SHEET

DATE	TOPICS	EMPLOYEE INFORMATION										MONTH			
		EMP ID - 1048129	EMP ID - 1048148	EMP ID - 1048107	EMP ID - 1048155	EMP ID - 1048114	EMP ID - 1048120	EMP ID - 1048120	EMP ID - 1115213	EMP ID - 1048111	EMP ID - 1048133	EMP ID - 1115213	EMP ID - 1148145	TRAINER NAME	TRAINER SIGNATURE
TIME	Topic	NOORUDIN DEY	SULTAN MALLY	ABDUL HAS	ABDULKEP DAS	LAB HUBMAN	SOURIN CHANDRAN	PRABHU MONDAL	UJAL ROY	SOVAN CHAU	PRASANT SARKA	DEBPRITYA ROY	SOUKAM CHIKSHI	DR. SANKU	
26.06.2022	HUMAN ANATOMY AND PHYSIOLOGY	Mukherjee	Sir	Ashish	Pradyot	Arif	Soumen Ghosh	Prasun Mandal	Ujwal	Sovan	Prasant	Debjyoti	Soukham	DR. SANKU	Con
06.06.2022	DIFFERENT FUNCTION OF ENDOCRINE	Mukherjee	Sir	Ashish	Pradyot	Arif	Soumen Ghosh	Prasun Mandal	Ujwal	Sovan	Prasant	Debjyoti	Soukham	DR. SANKU DAS	Soumen
18.06.2022	ENDOSCOPIC EQUIPMENT	Mukherjee	Sir	Ashish	Pradyot	Arif	Soumen Ghosh	Prasun Mandal	Ujwal	Sovan	Prasant	Debjyoti	Soukham	DR. NIKHIL SONDELIA	S
13.06.2022	ENDOSCOPIC, COLONOSCOPY, ENTEROSCOPY PROCEDURES	Mukherjee	Sir	Ashish	Pradyot	Arif	Soumen Ghosh	Prasun Mandal	Ujwal	Sovan	Prasant	Debjyoti	Soukham	DR. ANIRBEN THAKUR	Con
03.06.2022	BIOCHEMICAL NUTRI MANAGEMENT	Mukherjee	Sir	Ashish	Pradyot	Arif	Soumen Ghosh	Prasun Mandal	Ujwal	Sovan	Prasant	Debjyoti	Soukham	DR. SREERAM DAS	Sir
29.06.2022	DIETITION CONTROL	Mukherjee	Sir	Ashish	Pradyot	Arif	Soumen Ghosh	Prasun Mandal	Ujwal	Sovan	Prasant	Debjyoti	Soukham	DR. SANKU	Sir
24.06.2022	MANAGEMENT OF PATIENT AND ASSIST IN PROCEDURE	Mukherjee	Sir	Ashish	Pradyot	Arif	Soumen Ghosh	Prasun Mandal	Ujwal	Sovan	Prasant	Debjyoti	Soukham	DR. SANKU	Sir
27.06.2022	DIAGNOSTIC END SCOPE	Mukherjee	Sir	Ashish	Pradyot	Arif	Soumen Ghosh	Prasun Mandal	Ujwal	Sovan	Prasant	Debjyoti	Soukham	DR. NIKHIL SONDELIA	S



MULTI SPECIALITY HOSPITALS
ATTENDANCE SHEET

Title: BMW management.

Date: 03/03/22

Speaker: Ms. Tanushri

Time: 2 PM - 3 PM.

S.No.	Name (In CAPITALS)	Emp. No.	Department	Signature
1.	SUCHITRA JENA	1048536	OT.	[Signature]
2.	Lalagna Adhikary Patra	1078909	OT	[Signature]
3.	Madhusona Kundu	1216525	OT	[Signature]
4.	Akhita Saha	1232606	OT	[Signature]
5.	Ananya Maity	1235463	CHOU-1	[Signature]
6.	Tina Mondal	1186091	Genl-1	[Signature]
7.	Devi Paromita Kishor	1140828	Genl-2	[Signature]
8.	MONALISHA GAUNIA	1240031	STC-3	[Signature]
9.	S. Himangshu	1170153	STC-2	[Signature]
10.	Madhumita Bag	1249596	SICU	[Signature]
11.	ANANYA CHAKRABARTY	1162883	STC-3	[Signature]
12.	Sachita Paul	1149735	STC-3	[Signature]
13.	Suchitra Mohapatra	1159075	Diagnosis	[Signature]
14.	Mamami Das	1180776	Diagnosis	[Signature]
15.	Shikha Biswas	1236266	Genl-1	[Signature]
16.	Sandhya Das Mahapatra	1225160	Genl-1	[Signature]
17.	SURESHA MAITY	1185741	Genl-1	[Signature]
18.	Kulci Ghoshal	1187008	KT	[Signature]
19.	Jayashree Das	1172226	KT	[Signature]
20.	MADHURI BARIK	1043332	4th Left	[Signature]
21.	SNEHA SINGH	1224549	4th left	[Signature]
22.	Neha Maity	1225511	CCW/CCU	[Signature]
23.	SANJA GUHA	1182422	CCW/CCU	[Signature]
24.	Sarpalma Kumar	1250443	RTU-2	[Signature]
25.	Dipansu Patra	1136265	NDU-2nd	[Signature]
26.	Tanushri Jena	1182205	NDU-2nd	[Signature]
27.	Prayana Sahoo	1182205	NDU-2nd	[Signature]
28.	KRISHNA HARIPRAY	1100066	Genl-1	[Signature]
29.	Poulami Saha Ray	1187119	RTU-1	[Signature]
30.	ANKITA KOLEY	1182205	CCU	[Signature]
31.	DIWA ROZARHO	1100066	OTU	[Signature]
32.	Sahana Bora	1133376	CCU	[Signature]
33.	Tanika Das	1180004	CCU	[Signature]
34.	Ashana Kishor	1260779	CCU	[Signature]

Signature of the speaker

S.No.	Name (in CAPITALS)	Emp. No.	Department	Signature
1.	MANORAMA PARIY	1161996	GH3U-2	[Signature]
2.	Nadi Singh	1162912	PSW	[Signature]
3.	Poojamma Kanna	1113249	PSW	[Signature]
4.	Indira Hospital	1186278	PSW	[Signature]
5.	Atij Ghosh	1128423	GH2U	[Signature]
6.	SIT DIPANWITA BISWAS	1186282	GH1DU-2	[Signature]
7.	Debolina Jana	1181039	GH1DU-1	[Signature]
8.	Parvita Majumdar	11123473	CCU	[Signature]
9.	Arpita Halder	1190891	CCU	[Signature]
10.	Pratima Singh	1187131	CCU	[Signature]
11.	Raviya Sin.	1161351	5th HDU	[Signature]
12.	Subhadra Salia	1172987	4th floor	[Signature]
13.	JAYANTI MAJIK	1188362	GH1DU-1	[Signature]
14.	Mamika Ghosh	1188368	1st floor	[Signature]
15.	Jashita Ghosh	1102004	GH1DU-1	[Signature]
16.	Smriti Mandal	234467	RTU-1	[Signature]
17.	Rishmita Ghosh	1128818	oncology	[Signature]
18.	Puja Chhetri	1197732	oncology	[Signature]
19.	Rebecca Chakrabarti	1188696	STAFF	[Signature]
20.	Rupali Shome	1135799	oncology	[Signature]
21.	Priganta Chakrabarti	1140072	HDU-2	[Signature]
22.	Jayita Halder	1187887	4th floor	[Signature]
23.	Rishmita Ghosh	1172987	GH1DU-1	[Signature]
24.	Mansi Jana	1198832	oncology	[Signature]
25.	Kapali Ghosh	110240	oncology	[Signature]
26.	Ipita Khanna	1188353	PICU	[Signature]
27.	Puja Maister	1188724	PSW	[Signature]
28.	Katani Das	1126906	GH1DU-1	[Signature]
29.	Mona Goswami	1140423	GH1DU-1	[Signature]
30.	Kanu Ghosh	1172103	1st floor	[Signature]
31.	Subhita Ghosh	1131920	PICU	[Signature]
32.	Rishi Ghosh	1134953	GH1DU-1	[Signature]
33.	Romee Paul	1189364	PICU	[Signature]

Signature of the speaker