

21 March 2024

To,

The Regional Environmental Officer

KSPCB

RO – BNG

Bangalore South

Sub – Regarding submission of BMW Annual report – Sagar Hospitals – DSI

Dear Sir/ Madam,

This is with reference to the above subject we are here by submitting the Biomedical Waste Annual report for the period of Jan 2023 to Dec 2023.

Request you to kindly acknowledge the receipt of this letter.

Enclosed

1. Annual Report – Biomedical Waste
2. MOU with Maridi Bio Industries Pvt Ltd
3. BMW – Authorization (2021-2031)
4. Consent for Operation (CFO – Air, Water)
5. Picture of waste segregation area

Thanking You

Regards



Dr Deepak P Balani

Medical Director

Sagar Hospitals – DSI

Shayige Malleshwara Hills

Kumaraswamy Layout

Banashankari

Bangalore - 560078

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 authorised person (occupier or operator of facility)	:	Dr DEEPAK BALANI (MEDICAL DIRECTOR)
	(ii) Name of HCF or CBMWTF	:	SAGAR HOSPITALS - DSI
	(iii) Address for Correspondence	:	SHAYILE MALLESHWARA HILLS, KUMARSWAMY LAYOUT, BANASHANKARI
	(iv) Address of Facility	:	SHAYILE MALLESHWARA HILLS, KUMARSWAMY LAYOUT, BANASHANKARI
	(v) Tel. No, Fax. No	:	080 42999 009
	(vi) E-mail ID	:	md.bsk@sagarhospitals.in
	(vii) URL of Website	:	www.sagarhospitals.in
	(viii) GPS coordinates of HCF or CBMWTF	:	LATITUDE: 12.907950 N LONGITUDE: 77.565063 E
	(ix) Ownership of HCF or CBMWTF	:	(State Government or Private or Semi Govt. or any other)
	(x). Status of Authorisation under the Bio-Medical Waste (Management and Handling) Rules	:	Authorisation No.: KSPCB/RSD/BNY-CITY/BMW/183575/ 02.21.22/164..valid up to 30.09.2031
	(xi). Status of Consents under Water Act and Air Act	:	Valid up to: 30/09/2031
2.	Type of Health Care Facility	:	HCF
	(i) Bedded Hospital	:	No. of Beds: 150
	(ii) Non-bedded hospital	:	NA
	(Clinic or Blood Bank or Clinical Laboratory or Research Institute or Veterinary Hospital or any other)	:	
	(iii) License number and its date of expiry	:	BLV0289IALSSH/17-01-2027
3.	Details of CBMWTF	:	NA
	(i) Number healthcare facilities covered by CBMWTF	:	NA
	(ii) No of beds covered by CBMWTF	:	NA
	(iii) Installed treatment and disposal capacity of CBMWTF:	:	_____ Kg per day NA

	(iv) Quantity of biomedical waste treated or disposed by CBMWTF :	___ Kg/day NA																																																		
4.	Quantity of waste generated or disposed in Kg per annum (on monthly average basis) :	Yellow Category : 976 kgs Red Category : 1262 kgs White: 52 kgs Blue Category : 299 kgs General Solid waste: NIL																																																		
5	Details of the Storage, treatment, transportation, processing and Disposal Facility																																																			
	(i) Details of the on-site storage facility :	Size : 150 sq ft Capacity : 300 kgs Provision of on-site storage : (cold storage or any other provision) ROOM TEMPERATURE																																																		
	(ii) Details of the treatment or disposal facilities :	<table border="1"> <thead> <tr> <th>Type of treatment equipment</th><th>No of units</th><th>Capacity Kg/day</th><th>Quantity treated or disposed in kg per annum</th></tr> </thead> <tbody> <tr><td>Incinerators</td><td>NA</td><td></td><td></td></tr> <tr><td>Plasma Pyrolysis</td><td>NA</td><td></td><td></td></tr> <tr><td>Autoclaves</td><td>1</td><td>1.9 kg</td><td></td></tr> <tr><td>Microwave</td><td>NA</td><td></td><td></td></tr> <tr><td>Hydroclave</td><td>NA</td><td></td><td></td></tr> <tr><td>Shredder</td><td>NA</td><td></td><td></td></tr> <tr><td>Needle tip cutter or destroyer</td><td>NA</td><td>-</td><td></td></tr> <tr><td>Sharps encapsulation or concrete pit</td><td>NA</td><td>-</td><td></td></tr> <tr><td>Deep burial pits:</td><td>NA</td><td></td><td></td></tr> <tr><td>Chemical disinfection:</td><td>1</td><td>-</td><td></td></tr> <tr><td>Any other treatment equipment:</td><td>ETP</td><td></td><td></td></tr> </tbody> </table>			Type of treatment equipment	No of units	Capacity Kg/day	Quantity treated or disposed in kg per annum	Incinerators	NA			Plasma Pyrolysis	NA			Autoclaves	1	1.9 kg		Microwave	NA			Hydroclave	NA			Shredder	NA			Needle tip cutter or destroyer	NA	-		Sharps encapsulation or concrete pit	NA	-		Deep burial pits:	NA			Chemical disinfection:	1	-		Any other treatment equipment:	ETP		
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Any other treatment equipment:	ETP																																																			
	(iii) Quantity of recyclable wastes sold to authorized recyclers after treatment in kg per annum. :	Red Category (like plastic, glass etc.) HANDLED OVER TO M/S MARIDI BIO INDUSTRIES Pvt Ltd.																																																		
	(iv) No of vehicles used for collection and transportation of biomedical waste :	1 VEHICLE [MARIDI BIO INDUSTRIES]																																																		
	(v) Details of incineration ash and ETP sludge generated and disposed :	<table border="1"> <thead> <tr> <th>Quantity generated</th><th>Where disposed</th></tr> </thead> <tbody> <tr><td></td><td></td></tr> </tbody> </table>			Quantity generated	Where disposed																																														
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	during the treatment of wastes in Kg per annum	Incineration Ash ETP Sludge	NA
	(vi) Name of the Common Bio-Medical Waste Treatment Facility Operator through which wastes are disposed of	M/s MARIDI BIO INDUSTRIES Pvt Ltd.	
	(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 - Along with HIC Committee Minutes of meeting Attached	
7	Details trainings conducted on BMW		
	(i) Number of trainings conducted on BMW Management.	20	
	(ii) number of personnel trained	208	
	(iii) number of personnel trained at the time of induction	186	
	(iv) number of personnel not undergone any training so far	NIL	
	(v) whether standard manual for training is available?	YES	
	(vi) any other information	NO	
8	Details of the accident occurred during the year		
	(i) Number of Accidents occurred	9 (Needle stick Injury)	
	(ii) Number of the persons affected	NIL	
	(iii) Remedial Action taken (Please attach details if any)	Post-exposure prophylaxis has been done for all the 9 candidates.	
	(iv) Any Fatality occurred, details.	Nil	
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?	YES. COMPLIANCE WITH STANDARDS	
11	Is the disinfection method or sterilization meeting the log 4	YES.	

	standards? How many times you have not met the standards in a year?		
12	Any other relevant information	:	(Air Pollution Control Devices attached with the Incinerator) NA

Certified that the above report is for the period from JANUARY 2023 - DECEMBER 2023

DP Balani

Name and Signature of the Head of the Institution

Dr. DEEPAK P BALANI

MEDICAL DIRECTOR

SAGAR HOSPITALS-DSI

BANASHANKARI

BANGALORE - 560 078.

Date: 21-03-2024

Place BANGALORE

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	standards? How many times you have not met the standards in a year?		
12	Any other relevant information	:	(Air Pollution Control Devices attached with the Incinerator) NA

Certified that the above report is for the period from JANUARY 2023 - DECEMBER 2023

DP Balani

Name and Signature of the Head of the Institution

Dr. DEEPAK P BALANI

MEDICAL DIRECTOR

SAGAR HOSPITALS-DSI

BANASHANKARI

BANGALORE - 560 078

Date: 21-03-2024

Place: BANGALORE

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**Sagar
Hospitals-DSI**
With you, for life.
(Unit of Mahatma Gandhi Vidyapeetha Trust)

Shayige Malleshwara Hills, Kumaraswamy Layout, Banashankari, Bangalore - 560 078. Ph: 91-80-4299 9999

MINUTES OF HICC MEETING MARCH 2024

Date : 08/03/2024

Time:02.30 PM

Venue : 5TH Floor Conference Hall

Members Present: 33	Members Absent: 11
Dr. Kavyashree S P (Intensivist) - Chairperson	Dr.Chandrappa H N (HOD Anaesthesia) - Member
Dr. Arati Kamble (Microbiologist / ICO) -Convener	Dr. Roopa M O (Lab medicine) - Member
Ms. Mary Elizabeth Job (Infection Control Nurse) - Member	Dr.Basavraj S.Kyavater (Orthopedician Consultant) - Member
Dr Priyadarsini R (Clinical Phatmacologist) - Member	Dr. Arun (Internal Medicine Consultant) - Member)
Dr. Deepak Balani (Medical Director) - Member	Dr Parashuram (Anaesthologist) – Member
Dr.Kamal Bhalla (Internal Medicine Consultant) - Member	Dr.Shanthala S (OBG Consultant) - Member
Mr. Satish M N/ Jolly Shinde (Housekeeping in- charge) - Member	Mr. Sanjay (Pharmacy Assistant Manager) - Member
Dr. Sudeep Bhandary (HOD Emergency) – Member	Mr Ravilochan (MRD Head) - Member
Mr. Shivananda HM (CSSD in-charge) - Member	Mr Praveen Y (Biomedical Head) - Members
Mr Pradeep Kumar H R (Manager Facility & Maintenance) - Members	Dr. Manjunath R (Internal Medicine Consultant) - Member
Mr. Lokeshawarappa (ICU Nurse in-charge) - Member	Ms Kala (ANS) - Member
Ms Saraswathi (Labour ward in-charge) - Member	
Ms Deepa (Medication Nurse) - Member	
Ms Triveni (PVT ward in-charge) - Member	
Ms Sharon Rosi Jude (Nurse Educatoe) - Member	
Mr Kumar Naik / Mr Sachin P J (ER Supervisor) - Member	
Ms Pavithra (PICU in-charge) - Member	
Ms Manasa S R (EDS) - Member	
Ms. Mala T (Nursing Superintendent) - Member	
Dr. Lakshmikanth (Deputy Medical Superintendent) - Member	
Ms. Kiranamai (Dept Clinical Nutrition in-charge) - Member	

Please bring this report during your visit to the Hospital / ಅಸ್ತತ್ರೆಗೆ ಬರುವಾಗ ಈ ರಿಪೋರ್ಟನ್ನು ತನ್ನಿ

Above test Results pertain to the sample received, results should be clinically correlated as all test results are dependent on multiple variables and the quality of the sample received by the laboratory.

PLEASE COLLECT THE REPORTS WITHIN THREE MONTHS FROM THE DATE OF REPORTING

Ms. Suma -OT-in-charge) - Member	
Ms Lisy Mary B (Coordinator-Quality) - Member	
Ms Rangamma (Nursing Supervisor) - Member	
Ms Linda (Neuro ICU in-charge) - Member	
Ms Mariamma (OPD In-charge) - Member	
Ms Reela (General Ward in-charge) - Member	
Mr Kulkarni Kiran (Manager -F&M) - Memeber	
Dr Roopa P (Patient Safety Officer) - Member	
Dr Seema (Neuro Critical Care) - Member	
Mr Ravi Pawar (G M Operation) - Member	
Mr Chethan (SPVT in-charge) - Member	
Mr Praveen / Amarjith (BME) - Member	

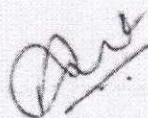
Point Discussed:

1. Review of minutes of last meeting held on 22nd Feb 2024
2. HAI statistics for the month of Feb 2024
3. Biomedical waste management observations for the month of Feb 2024
4. Hand Hygiene compliance of Feb 2024
5. Water quality test report of Feb 2024
6. MDRO's of Feb 2024
7. Sharp Injury & Blood and Body fluid Exposure of Feb 2024
8. Restricted Antibiotic usage and overall consumption
9. Surgical Prophylaxis
10. Antibiotic audit along with literature review

S.NO	Points Discussed	Action points	RESPONSIBILITY	TARGET DATE for closure
1	Surveillance of SSI	Should have surveillance of 30 days to 90 days surgeries	ICN / PCS	Informed to PRO
2	Screeing tool for evaluating HAIs	Screeing tool for evaluating HAIs to be briefed to all the Nursing Incharges	Nurse Educator	On going
3	Clinician to attend HIC meeting	Requesting the clinciains to take part in HIC meeting whose case will be presented for discussion	Medical Services	By next meeting
4	Surgical Prophylaxis	Analysis of non compliance to prophylatic antibiotic	CP / ICO	Done

5	Restricted Antibiotics	Patient wise data on restricted antibiotic should be tracked and presented	CP /ICO	Next Meeting
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Infection Control Convener

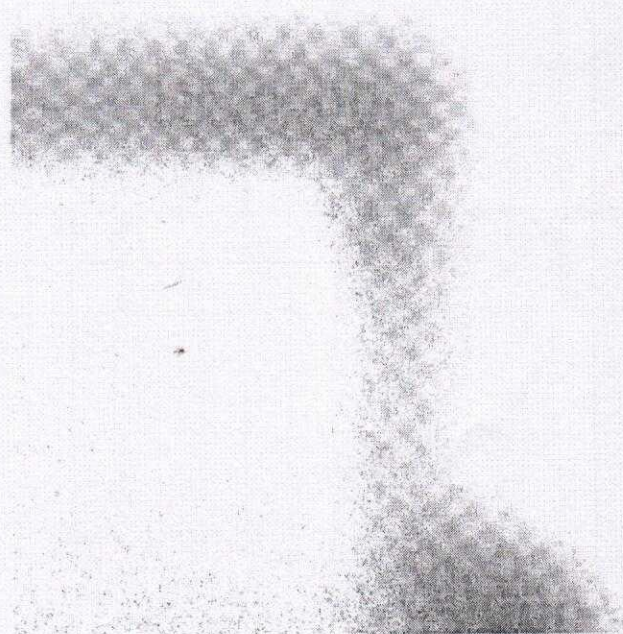


Signature:

Infection Control Chairperson



Signature:



TRAINING ATTENDENCE

FF-NSG-091

DATE OF TRAINING: 11.04.22

TRAINING TOPIC: Biomedical Waste Management

TIME: 12.00hrs - 13.30hrs

NAME OF THE TRAINER: Mary Elizabeth Job

DURATION: 20mins

TRAINING MODULE: Lecture

VENUE: Lab 1st floor

SL.NO	NAME OF THE STAFF	ID BSK NO.	DEPARTMENT	SIGNATURE	REMARKS
1	Maamade deurek	JNR 3566	Laboratory		
2	Panchami S.S	JNR 4443	Laboratory		
3	Tejaswini HD	JNR 4886	Laboratory		
4	Shubha S	JNR 4350	Laboratory		
5	Rishma P.P	JNR 4466	Laboratory		
6	Hemamateshwari K	JNR 4492	Laboratory		
7	Dimpal	JNR 4683	Lab		
8	H.Ashwini Rajak	JNR 4443	Lab		
9	P. P. A. K. R.	JNR 4182	Lab		
10	P. P. A. K. R.	JNR 4482	Laboratory		
11	M. M. A. L. O. R.	JNR 4789	Laboratory		
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SIGNATURE OF THE TRAINER

MINUTES OF HICC MEETING JUNE ' 2024

Date : 12/06/2024

Time:02.30 PM

Venue : 5TH Floor Conference Hall

Members Present:20	Members Absent: 23
Dr. Kavyashree S P (Intensivist) - Chairperson	Dr.Chandrappa H N (HOD Anaesthesia) - Member
Dr. Arati Kamble (Microbiologist / ICO) -Convener	Dr.Basavraj S.Kyavater (Orthopedician Consultant) - Member
Dr. Deepak Balani (Medical Director) - Member	Dr. Arun (Internal Medicine Consultant) - Member)
Ms.Ranjini (Infection Control Nurse) - Member	Dr Parashuram (Anaesthologist) – Member
Mr. Satish M N (Housekeeping in-charge) - Member	Dr.Shanthala S (OBG Consultant) - Member
Dr. Sudeep Bhandary (HOD Emergency) – Member	Dr. Manjunath R (Internal Medicine Consultant) - Member
Mr. Shivananda HM (CSSD in-charge) - Member	Amarjith (BME) - Member
Ms Deepa (Medication Nurse) - Member	Mr. Sanjay (Pharmacy Assistant Manager) - Member
Ms Sharon Rosi Jude (Nurse Educator) - Member	Ms Kala (ANS) - Member
Mr Sachin P J (ER Supervisor) - Member	Ms Rangamma (Nursing Supervisor) - Member
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Ms Lisy Mary B (Coordinator-Quality) - Member	Ms Manasa S R (EDS) - Member
Dr Deepika c (AMA MED -ADM)	Ms Reela (General Ward in-charge) - Member
Dr.Kamal Bhalla (Internal Medicine Consultant) - Member	Dr Priyadarsini R (Clinical Phatmacologist) - Member
Mr Pradeep KumarMR Kulkarani kiran (Manager Facility & Maintenance) - Members	Dr. Roopa M O (Lab medicine)- Member
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Ms Pavithra (PICU in-charge) - Member	Ms. Kiranamai (Dept Clinical Nutrition in-charge) - Member
lokeshwarappa (ICU-incahrge)-Member	Ms .Rukmini R senior nurse -NICU)
	Ms Mariyamma (OPD In-charge) - Member
	Mr Chethan (SPVT in-charge) - Member
	Mr .MADHU D (Incharge -Pharmacy)
	Dr .Roopa.p (PHC/PSO)

Point Discussed:

1. Review of minutes of last meeting
2. HAI statistics for the month of MAY ' 2024
3. Biomedical waste management observations for the moth of MAY ' 2024
4. Hand Hygiene compliance of MAY ' 2024
5. Water quality test report of MAY ' 2024
6. MDRO's of MAY ' 2024
7. Sharp Injury & Blood and Body fluid Exposure of MAY ' 2024

S.NO	Points Discussed	Action points	Responsibility	Target for closure
1	Clinician to attend HIC meeting	Requesting the clinicians to take part in HIC meeting whose case will be presented for discussion & Committee member should participate .	Medical Services	By next meeting
2	Sump and borewell water & Chemical analysis report	Make a schedule for cleaning & SOP for the same	Facility manager	Immediately & Once in a 3 month
3	CAUTI & SSI was discussed	Outcome to be mentioned	ICN/ICO	By next meeting & On going
4	Surgical Prophylaxis QI	Raw data to be submit to quality/HIC .	OT manager	immediately & Ongoing
5	BMW non compliace was discussed .	Strictly to be adhere the policy & Reinforced class.	Educator & HIC Link Nurse/ICN	On going
6	Blue container for glassware	Raise the indent for blue container	HK HOD	Immediately

Bio Medical Waste Segregation Annual Report for -January-2023 to December -2023(BSK-DSI)														
Month/Year	Yellow Bags		Red Bags		Blue Mark Box		Whites		Cytotoxic Bags		Covid19 Bags		Total	
	Count	Weight	Count	Weight	Count	Weight	Count	Weight	Count	Weight	Count	Weight	Count	Weight
Jan-23	411	999.2	422	1293	37	297	22	43.36	0	0	0	0	892	2632.11
Feb-23	359	980	377	1287	36	306	29	49.58	0	0	0	0	801	2622.34
Mar-23	388	893.97	384	1105.6	37	295.13	9	29.43	0	0	0	0	818	2324.14
Apr-23	453	873.22	445	1430	37	250.1	42	88.54	0	0	0	0	977	2641.78
May-23	412	945.17	416	1064.37	33	260.14	13	40.96	0	0	0	0	874	2310.64
Jun-23	383	913.96	408	1178.17	32	283.72	25	58.39	0	0	0	0	848	2434.24
Jul-23	374	850.56	410	1196.02	33	259.52	40	62.5	0	0	0	0	857	2368.6
Aug-23	404	861.35	409	1203.98	29	231.88	15	33.21	0	0	0	0	857	2330.42
Sep-23	391	929.14	401	1293.17	43	374.07	30	63.11	0	0	0	0	865	2649.49
Oct-23	435	1182.92	412	1416.77	42	338.5	10	34.7	0	0	0	0	899	2972.89
Nov-23	437	1207.98	433	1433.8	47	423.92	33	64.1	0	0	0	0	950	3129.8
Dec-23	439	1085.18	454	1251.8	37	271.69	18	60.6	0	0	0	0	948	2669.27
Total	4886	11722.65	4971	15153.68	443	3591.67	286	628.48	0	0	0	0	10586	31085.72