

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  
Shavige Malleshwara Hills  
Kumaraswamy Layout  
Banashankari  
Bangalore - 560078

**Form - 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 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 - D31
	(iii) Address for Correspondence	: SHANIE MALLESHWARA HILLS, KUMARSWAMY LAYOUT, BANASHANKARI SHANIE MALLESHWARA HILLS KUMARSWAMY LAYOUT, BANASHANKARI
	(iv) Address of Facility	
	(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 : 12.907450 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/RSED/BN4-CITY/BMW/183575/ 00.21.2016/164, 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  (Clinic or Blood Bank or Clinical Laboratory or Research Institute or Veterinary Hospital or any other)	: NA
	(iii) License number and its date of expiry	: BLV02891AL55H/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	: Type of treatment equipment 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	Quantity treated or disposed in kg per annum
	(iii) Quantity of recyclable wastes sold to authorized recyclers after treatment in kg per annum.	: Red Category (like plastic, glass etc.) HANDED OVER TO M/S MARIKI BIO INDUSTRIES Pvt Ltd.	
	(iv) No of vehicles used for collection and transportation of biomedical waste	: 1 VEHICLE [MARIKI BIO INDUSTRIES]	
	(v) Details of incineration ash and ETP sludge generated and disposed		Quantity generated Where disposed

	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

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DP Balani

Name and Signature of the Head of the Institution

**Dr. DEEPAK P BALANI**  
MEDICAL DIRECTOR  
SAGAR HOSPITALS-DSI  
BANASHANKARI  
BANGALORE - 560 078.

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Date: 21-03-2024  
Place: BANGALORE

	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) <b>NA</b>

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

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**D P 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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### MINUTES OF HICC MEETING MARCH 2024

Date : 08/03/2024

Time:02.30 PM

Venue : 5<sup>TH</sup> 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 Pharmacist) - Member	Dr. Arun (Internal Medicine Consultant) - Member
Dr. Deepak Balani (Medical Director) - Member	Dr. Parashuram (Anaesthetist) - 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. Lokeshwarappa (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 Educator) - 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 / ಅನ್ತರ್ಗತ ಬಳಬಾರ್ತೆ ಕೆಂಪುಂಟು ತಾಣ

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 Mariyamma (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	

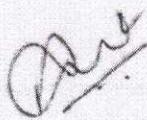
**Point Discussed:**

1. Review of minutes of last meeting held on 22<sup>nd</sup> 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 cliniciains 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 prophylactic antibiotic	CP / ICO	Done

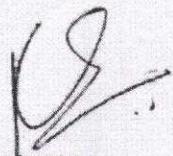
5	Restricted Antibiotics	Patient wise data on restricted antibiotic should be tracked and presented	CP /ICO	Next Meeting
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Infection Control Convener



Signature:

Infection Control Chairperson



Signature:

## TRAINING ATTENDENCE

FF-NSG-091

DATE OF TRAINING: 11.04.23

TRAINING TOPIC: Biomedical Waste Management TIME: 12.00 hrs - 12.30 hrs

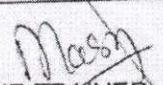
NAME OF THE TRAINER: Mary Elizabeth Job

DURATION: 20 min.

TRAINING MODULE: Lecture

VENUE: Lab 1A 4th floor

SL.NO	NAME OF THE STAFF	ID BSK NO.	DEPARTMENT	SIGNATURE	REMARKS
1	Naarmade devi@	JNR 3506	Laboratory	<i>Naarmade devi</i>	
2	Panchami. S.S	JNR 1413	Laboratory	<i>Panchami S.S</i>	
3	Tejaswini HO	JNR 4886	Laboratory	<i>Tejaswini HO</i>	
4	Shubha. S	JNR 1350	Laboratory	<i>Shubha. S</i>	
5	Rishma. P.P	JNR 1466	Laboratory	<i>Rishma. P.P</i>	
6	Hemamata Shwari KN	JNR 4492	Laboratory	<i>Hemamata Shwari KN</i>	
7	Qimpal	JNR 4683	Lab	<i>Qimpal</i>	
8	H. A. Bhagya Preethi	JNR 1003	Lab	<i>H. A. Bhagya Preethi</i>	
9	PIPLA KPO	JNR 1820	Lab	<i>PIPLA KPO</i>	
10	RANJYA SHREE B.J	JNR 4682	Laboratory	<i>RANJYA SHREE B.J</i>	
11	MGM@10	JNR 4789	Laboratory	<i>MGM@10</i>	
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 SIGNATURE OF THE TRAINER

## MINUTES OF HICC MEETING JUNE ' 2024

Date : 12/06/2024

Time:02.30 PM

Venue : 5<sup>TH</sup> Floor Conference Hall

<b>Members Present:20</b>	<b>Members Absent: 23</b>
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
Ms. Mala T (Nursing Superintendent) - Member	Ms. Suma -OT-in-charge) - Member
Dr. Lakshmikanth (Deputy Medical Superintendent) - Member	Dr Seema (Neuro Critical Care ) - Member
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
Mr Ravi Pawar (G M Operation) - Member	Ms Triveni (PVT ward in-charge) - Member
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	Count	Weight	Count	Weight	Count	Weight	Count	Weight	Count	Weight	Count
Jan-23	411	999.2	422	1293	37	297	22	43.36	0	0	0	0	0	0	0	0	892	2632.11		
Feb-23	359	980	377	1287	36	306	29	49.58	0	0	0	0	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	0	0	0	0	818	2324.14		
Apr-23	453	873.22	445	1430	37	250.1	42	88.54	0	0	0	0	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	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	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	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	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	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	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	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	0	0	0	0	948	2669.27		
<b>Total</b>	<b>4886</b>	<b>11722.65</b>	<b>4971</b>	<b>15153.68</b>	<b>443</b>	<b>3591.67</b>	<b>286</b>	<b>628.48</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10586</b>	<b>31085.72</b>		