



महाराजा अग्रसेन अस्पताल
Maharaja Agrasen Hospital
West Punjabi Bagh, New Delhi-110026

EP/F-174



Ref. No. MAH/ADMN/181-A/2024769

Date: 28.06.2024

Sr. Scientific Officer
Delhi Pollution Control Committee
Deptt. of Environment, Govt. of NCT of Delhi,
4th & 5th Floor, ISBT Kashmere Gate,
Delhi-110006

Sub.: Submission of Annual Bio Medical Waste Report (Form IV).

Sir,

Please find enclosed herewith duly filled Annual Report (Form IV) for the year of 1st January 2023 to 31st December 2023 for Bio Medical Waste generated at Maharaja Agrasen Hospital, West Punjabi Bagh, New Delhi-110026.

Thanking You,

For Maharaja Agrasen Hospital



Authorized Signatory

Encl.: Form IV
Minutes of Meeting- 05 pages

Board Helpline No. : 011-40777555, 40777666, 40777777 E-mail : info@mahdelhi.org Website : www.mahdelhi.org

A unit of Maharaja Agrasen Hospital Charitable Trust

This information is not intended to be a substitute for professional medical advice, diagnosis or treatment.

All Disputes are subject to Delhi Jurisdiction



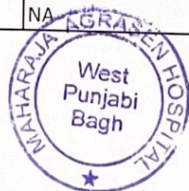
Form IV
(See rule 13)
ANNUAL REPORT

(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(CBMWTF).

S. No	Particulars	:																
1	Particulars of the Occupier	:																
	(i) Name of the authorized person(occupier or operator of facility)	:	Dr. SBS Srivastava															
	(ii) Name of the HCF or CBMWTF	:	Maharaja Agrasen Hospital															
	(iii) Address for Correspondence	:	Road No. 35, West Punjabi Bagh, New Delhi-110026															
	(iv) Address of Facility	:	Road No. 35, West Punjabi Bagh, New Delhi-110026															
	(v) tel. No, Fax. No.	:	011-40777777															
	(vi) E-mail ID	:	info@mahdelhi.org															
	(vii) Url of Website	:	www.mahdelhi.org															
	(viii) GPS Corrdinates of HCF or CBMWTF	:	28.6739N,77.1340E															
	(ix) Ownership of the health Care Facility	:	Trust															
	(x) Status of Authorization under the Bio Medical Waste (Management and handling) Rules	:	Authorisation No : DPCC (11) / (5) (01) / 2019 / BMW /NST/ Auth / 1995951 Valid Upto 13/11/2024															
(xi) Status of Consents Under Water Act and Air Act	:	Application Submitted, under process																
2	Type of Health Care Facility	:																
	(i) Bedded Hospital	:	No. of Beds : 300															
	(ii) Non-Bedded Hospital(Clinic/Blood bank or Laboratory or Veterinary Hospital or any other)	:	N.A.															
	(iii) License Number and its Date of Expiry	:	DHS / NH / 139 Dated : 08.05.2023 Valid Upto 31.03.2026															
3	Details of CBMWTF	:																
	(i) Number Healthcare facilites covered by CBMWTF	:	SMS Water Grace BMW Pvt. Ltd.															
	(ii) No. of beds covered by CBMWTF	:	300															
	(iii) Installed treatment and disposal capacity of CBMWTF	:	NA															
(iv) Quantity of biomedical Waste treated or disposed by CBMWTF	:	NA																
4	Quantity of waste generated or disposed in Kg per annum (on monthly average basis)	:	Yellow : 38,659.02 kg, Red: 75,543.31 kg, White : 1287.95 kg, Blue : 16,940.13 kg, General Solid Waste kg/ month															
		:																
		:																
		:																
		:																
5	Details of Storage, treatment, transportation, processing and Disposal Facility- kg per annum approx.	:																
	(i) Details of the onsite storage facility	:	size: 500 Sq. ft. Provision of on-site storage: Yes (Cold storage or any other provision): NA															
	(ii) Disposal Facilites	:	<table border="1"> <thead> <tr> <th>Type of treatment</th> <th>No. of Units</th> <th>Capacity kg/ day</th> <th>Quantity</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></td> <td>5932.20 kg per annum</td> </tr> </tbody> </table>	Type of treatment	No. of Units	Capacity kg/ day	Quantity	Incinerators	NA			Plasma Pyrolysis	NA			Autoclaves	1	
Type of treatment	No. of Units	Capacity kg/ day	Quantity															
Incinerators	NA																	
Plasma Pyrolysis	NA																	
Autoclaves	1		5932.20 kg per annum															



		Microwave	NA		
		Hydroclave	NA		
		Shredder	NA		
		Needle tip cutter or Destroyer	NA		
		Sharp encapsulation or Concrete Pit	NA		
		Deep burial pits	NA		
		Chemical dsinfection:	NA		
		Any other treatment equipment:	NA		
(iii) Quantity of recyclable wastes sold to authorized recyclers after treatment in Kg per annum	:	Red category (like plastics, glass, etc): Not Applicable (Disposed to SMS Water Grace BMW Pvt Ltd)			
(iv) No. of vehicles used for collection and transportation of Biomedical Waste	:	01nos + 01nos for COVID Waste (Closed Body Vehicle for collection from Maharaja Agrasen Hospital)			
(v) Details of incineration ash and ETP sludge generated and disposed during the treatment of waste in Kg per annum	:		Quantity generated	Where Disposed	
		Incineration ash	NA		
		STP Sludge			
(vi) Name of the Common Bio-medical Waste Treatment Facility Operator through which waste are disposed of	:	SMS Water Grace BMW Pvt. Ltd., DJB, STP Nilothi, New Delhi-110041			
(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 training conducted on BMW	:				
(i) Number of trainings conducted on Bio-Medical Waste management	:	38			
(ii) Number of personnel trained	:	473			
(iii) Number of Personnel trained at the time of induction	:	243			
(iv) Number of personnel not undergone any training so far	:	Nil			
(v) Wheher standard manual for training is available?	:	Yes			
(vi) Any other information	:	NA			
8 Details of accidents occurred during the year	:				
(i) Number of accident occurred	:	17			
(ii) Number of the person affected	:	Nil			
(iii) Remedial action taken (Pls. attach details if any)	:	Injection TT after injury, Vaccination with Injection Hepatitis B and ART as per standard protocol			
(iv) Any Fatality occured details	:	NA			
9 Are you meeting the standards of air pollution from the incinerator? How many times in last Year could not meet 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?	:	NIL (Met the Standard)
11	Is the disinfection method or sterilization meeting the log 4 standards? How many times you have not met the standards in a year?	:	NIL (Met the Standard)
12	Any other relevant information	:	(Air Pollution Control Devices attached with the Incinerator):

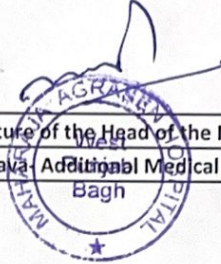
Certified that the above report is the period from 01 January 2023 to 31 December 2023.

Date: 28, June - 2024

Place: New Delhi

Name and Signature of the Head of the Institution

Dr. S.B.S. Srivastava - Additional Medical Superintendent



Maharaja Agrasen Hospital, Punjabi Bagh

Biomedical Waste Annual Report

Period of Data: 1 January 2023 to 31 December 2023

S No	DATE	YELLOW + CYTO		RED		BLUE		WHITE		TOTAL	
		Bags	Weight	Bags	Weight	Bags	Weight	Bags	Weight	Bags	Weight
1	Jan-23	1212	3602.09	1624	6834.28	405	1630.88	437	112.05	3678	12179.3
2	Feb-23	1115	3503.65	1474	6388.2	368	1504.65	434	112.79	3391	11509.29
3	Mar-23	1143	3494.45	1475	6701.63	338	1528.26	381	100.39	3337	11824.73
4	Apr-23	1111	3238.25	1436	6239.01	325	1376.82	386	102.51	3258	10956.59
5	May-23	1102	3053.85	1442	6288.78	307	1336.73	378	100.93	3229	10780.29
6	Jun-23	1039	2791.31	1380	5904.8	270	1149.8	368	99.87	3057	9945.78
7	Jul-23	1122	3178.34	1477	6055.35	361	1387.78	381	114.51	3341	10735.98
8	Aug-23	1145	3208.9	1552	6392.19	354	1382.63	359	114.51	3410	11098.23
9	Sep-23	1087	3095.44	1493	6220.3	349	1547.03	359	102.88	3288	10965.65
10	Oct-23	1144	3365.04	1551	6416.14	369	1413.24	405	116.49	3469	11310.91
11	Nov-23	1055	2952.94	1467	5833.18	304	1223.35	355	109.01	3181	10118.48
12	Dec-23	1102	3174.76	1509	6269.45	321	1458.96	346	102.01	3278	11005.18
REPORT TOTAL		13377	38659.02	17880	75543.31	4071	16940.13	4589	1287.95	39917	132430.41





Maharaja Agrasen Hospital
Punjabi Bagh, New Delhi-26

Minutes of Meeting - Bio Medical Waste Management

Date of Meeting : 17.03.2023
Time : (2.00-3.00) PM
Location : 6th Floor Conference Hall

The members were present (Attendance Sheet attached)

The following points were discussed and decided that:

S.N.	Discussion	Responsibility	Target date
1	Previous meeting minutes were discussed and all points have been highlighted.		
2	The Kayakalp quality indicators (CSSD, Biomedical waste and Laundry) for the period January 2022 to December 2022 were discussed. The non-compliances along with the corrective and preventive actions taken were highlighted.	Housekeeping supervisor Nursing Supervisor CSSD In charge Laundry In charge Sanitary Inspector Infection Control Nurse	Continuous process
3	The various quality improvements brought about during the CAHO CSSD audit were discussed. The final and physical audit of CSSD was successfully concluded on 17.02.2023.	CSSD In Charge OT In Charge Infection Control Nurse	
4	It was pointed out that the Bowie-Dick cycle for the autoclaves in CSSD must be set as per the guidelines.	CSSD In charge Biomedical Engineering Dept	31.03.2023
5	It was brought to notice that few biomedical waste barcodes were not being scanned during the scanning process by the First app. It was decided that the same must be recorded and informed to the appropriate authorities on daily basis. The data will be reviewed weekly for monitoring of compliance. It was also decided that Butterfly will be intimated about the defective barcodes for appropriate corrective action.	Housekeeping supervisors Sanitary Inspector Infection Control Nurse Mr Sachin/ Ms Reema Sr Administrative Officer	25.03.2023

Swati Mittal

Dr. Swati Sagarika Mittal
Associate Consultant Microbiologist/
BMWM officer

Dr. S S Srivastava

Dr. S S Srivastava
Additional MS/ Chairperson BMWM subcommittee

Dr. Suparna Jha
Additional MS/ Co-Chairperson



Maharaja Agrasen Hospital
Punjabi Bagh, New Delhi-26

Date of Meeting : 06-04-2023

Time : 2.45 - 3.15pm

Members Present : Dr.Rakhee Aggarwal (JMS)
Dr.Swati Sagarika Mittal (Microbiologist & BMW Officer)
Sindhu.S.Pillai (Sr.ICN)
Anumeeta Chand (ICN)

Minutes of Meeting

S. No	Discussion
1	6 th ICU: As discussed with Dr Kapil , the covid & non covid BMW to be segregated with 6 th Floor ward BMW respectively, as we cannot make any provision inside 6 th icu .
2	Chemotherapy day care: The biomedical waste bins will be kept inside the small storage room of 614 which is next to hand washing area, also the drug preparation will have biomedical waste bins near the bio safety cabinet for disposal at generation.
3	It was decided to provide a hand washing station for 6 th ICU, Sr.A.O to make provision.
4	The entrance door partition of 6 th ICU has to be shifted beyond the chemotherapy room so that proper segregation of two departments can be done.
5	The demand for non chlorinated cytotoxic biomedical waste bags (colour coded: yellow) as per the BMW 2016 guidelines has been initiated to the purchase department.

Swati Mittal

[Signature]

Kapil



Maharaja Agrasen Hospital
Punjabi Bagh, New Delhi-26

Minutes of Meeting - Bio Medical Waste Management

Date of Meeting : 09.06.2023
Time : (2.00-3.00) PM
Location : Microbiology Laboratory (Basement)

The members were present (Attendance Sheet attached)

The following points were discussed and decided that:

S.N.	Discussion	Responsibility	Target date
1	Previous meeting minutes were discussed and all points have been closed.		
2	It was discussed that the doors inside the common biomedical waste storage area must be labelled as: Biomedical waste weighing room Utility Room General waste storage Blue and White Biomedical waste storage Yellow Biomedical waste storage Red biomedical waste storage Also it was decided that the entrance door of the common biomedical waste area must have Biohazard symbol. It was discussed that the common biomedical waste storage area will be painted after approval is taken for the same.	Sanitary Inspector Ms Reema Sr A. O	19.06.2023
3	It was decided that as there has been change in disposal of dry general waste from black to blue, the hospital waste segregation posters will be updated throughout the hospital. Also the labels of the dry general waste bins will be updated as per the change.	Ms Reema Sr A.O Nursing Supervisors Housekeeping Supervisors ICNs	19.06.2023

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Maharaja Agrasen Hospital
Punjabi Bagh, New Delhi-26

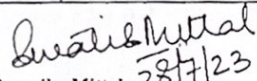
Minutes of Meeting - Bio Medical Waste Management

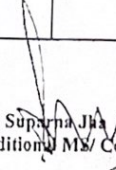
Date of Meeting : 28.07.2023
Time : 12 Noon to 1 pm
Location : Conference Hall (Sixth floor)

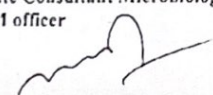
The members were present (Attendance Sheet attached)

The following points were discussed and decided that:

S.N.	Agenda	Discussion	Responsibility	Target date
1	-	Previous meeting minutes were discussed and all points have been closed.		
2	Data Validation	It was discussed that the raw data being collected for the quality indicators of CSSD, Laundry and Biomedical waste management will be validated and the same will be documented duly signed monthly. It was decided to validate 15% of the raw data being collected.	CSSD and Laundry Raw Data: ICNs and Quality Dept BMWM raw Data: ICNs and Sanitary Inspector	07.08.2023 for this month and then continuous process
3	Surveillance of ETP/ STP	In the HICC meeting dated 05.07.2023, it was decided to take up infection control aspects related to liquid waste water. The surveillance monitoring of ETP/ STP will be done by BMWM sub-committee under HICC. The parameters will monitored as per BMW Guidelines, 2016.	Maintenance Dept (Report to be submitted to BMWM sub-committee every 6 months)	Continuous process
4	Neutralization of Liquid waste	Liquid chemical waste like formalin solution and Cidex OPA must be neutralized before discharge into sewerage system as per BMW Guidelines, 2016. The neutralization methods will be evaluated and submitted to purchase department for procurement of the chemicals. The concerned departments where such waste is generated will be trained regarding the neutralization process and will be monitored for compliance by the ICNs.	Purchase Dept Histopathology Dept (Ms Sarla/ Mr Sumit/ Lab Quality Manager) ICU Endoscopy Dept Bronchoscopy Dept ICNs	07.08.2023 and Continuous process
5	Segregation of Linen	As per Laundry management SOP, linen is being segregated as dirty, soiled and infected. The same must be documented in the laundry register at the locations and laundry. A column for count of soiled linen is to be created and maintained in both locations and laundry.	Nursing in charges Laundry In Charge	31.07.2023 and Continuous process


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Additional MS/ Co-Chairperson


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Additional MS/ Chairperson BMWM subcommittee



Maharaja Agrasen Hospital
Punjab Bagh, New Delhi-26

Minutes of Meeting - Bio Medical Waste Management

Date of Meeting : 16.11.2023

Time : 3 pm to 4 pm

Location : Microbiology lab (Basement)

The members were present (Attendance Sheet attached)

The following points were discussed and decided that:

S.N.	Agenda	Discussion	Responsibility	Target date
1	Previous minutes	Previous minutes were discussed and actions taken were highlighted.		
2	Updating SOPs	It was informed that the quality indicators being monitored have been updated in the SOPs of biomedical waste management, CSSD and Laundry. Any other necessary changes will be done in the SOPs as and when required.	Dr Swati Sagarika Mittal	Continuous process
3	Audit of CSSD and Laundry items at patient-care locations	It was discussed that audits will be conducted across the hospital for storage and handling of CSSD and laundry items (infection control aspects) at patient-care locations. A report of the same will be submitted.	Infection control nurse	30.11.2023
4	Audit of biomedical waste storage area	It was discussed that audit will be conducted of the common biomedical waste storage area. A report of the same will be submitted.	Sanitary inspector Infection control nurse	20.11.2023

Swati Mittal
17/11/23

Dr. Swati Sagarika Mittal
Associate Consultant Microbiologist/
BMWM officer

[Signature]

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Additional MS/ Chairperson BMWM subcommittee

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