



**महाराजा अग्रसेन अस्पताल**  
**Maharaja Agrasen Hospital**

West Punjabi Bagh, New Delhi-110026

EP/F-174



Ref. No. MAH/ADMIN/181-A/2022 2825

Date: 24.02.2022

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

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

Sir,

Please find enclosed the duly filled Annual report(FORM IV) for the year of 1<sup>st</sup> January 2021 to 31<sup>st</sup> December 2021 for Bio Medical Waste generated at Maharaja Agrasen Hospital, Punjabi Bagh, New Delhi-110026.

Thanking You,

**For Maharaja Agrasen Hospital**

Authorized Signatory



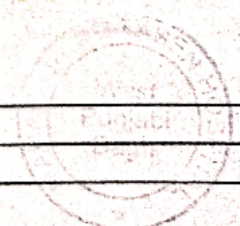
Encl. : FORM IV  
Minutes of the Meeting- 05 pages



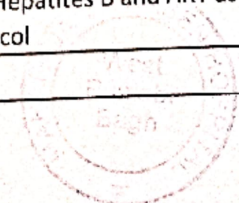
**Form IV**  
(See rule 13)  
**ANNUAL REPORT**

(To be submitted to the prescribed authority on or before **30th June every year** for the period from **1st January 2021 to 31st December 2021** 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	Punjabi Bagh , West , New Delhi - 110026		
	(iv) Address of Facility	Punjabi Bagh , West , New Delhi - 110026		
	(v) tel. No, Fax. No.	011-4077777		
	(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 Contents Under Water Act and Air Act	DPCC/BMW/2019/21 Vaild upto : 11/12/2023		
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	DGHS / NH/139 Valid upto 31/3 /2023.		
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 disposible capicity of CBMWTF	NA		
	(iv) Qauntity of biomedical Waste treated or disposed by CBMWTF	NA		
4	Qauntity of waste generated or disposed in Kg per m (on monthly average basis)	Yellow : 34,320.105 Kg Red : 72,099 Kg White : 1269.85 kg Blue : 14,930.69 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-Dedicated Bio Medical waste collection room ste storage: Yes Cold Storage : NA		
	(ii) Disposal Facilites	Type of treatment Equipments	No. of Units	Quantity Treated or Disposal in kg per Annum
		Incinerators	NA	
		Plasma	NA	



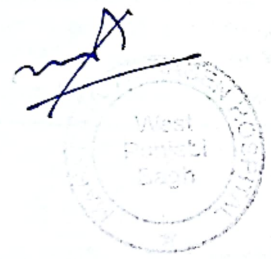
	Pyrolysis	NA	
	Autoclaves		1 5424 kg per annum
	Microwave	NA	
	Hydroclave	NA	
	Shredder	NA	
	Needle tip cutter or Destroyer	NA	
	Sharp encapsulation or Concrete Pit	NA	
	Deep burial	NA	
	Chemical disinfection:	NA	
	Any other treatment equipment:	NA	
(iii) Quantity of recyclable wastes sold to authorized recycler after treatment in Kg per annum	NA ( Disposed to SMS Water Grace BMW Pvt Ltd)		
(iv) No. of vehicles used for collection and transportation of Biomedical Waste	01nos + 01 nos 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	NA	
	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 Nelothi , New Delhi 110041		
(vii) List of member HCF not handed over bio medical waste	NA		
Do you have BMW Management committee ? If yes attach minutes of the meeting held during the reporting period	Yes , Minutes Attached		
8. Details training conducted on BMW			
(i) Number of trainings conducted on Bio-Medical Waste management	30		
(ii) Numbers of personnel trained	478		
(iii) Numbers of Personnel trained at the time of induction	179		
(iv) Numbers of personnel not undergone any training so far	Nil		
(v) Whether standard manual for training is available?	Yes		
(vi) Any other information	NA		
Details of accidents occurred during the year			
(i) Numbers of accident occurred	28		
(ii) Numbers of the person affected	Nil		
(iii) Remedial action taken ( Pls. attached details if any)	Injection TT after Injury and Injection Hepatitis B and ART as per standard Protocol		
(iv) Any Fatality occurred details	NA		

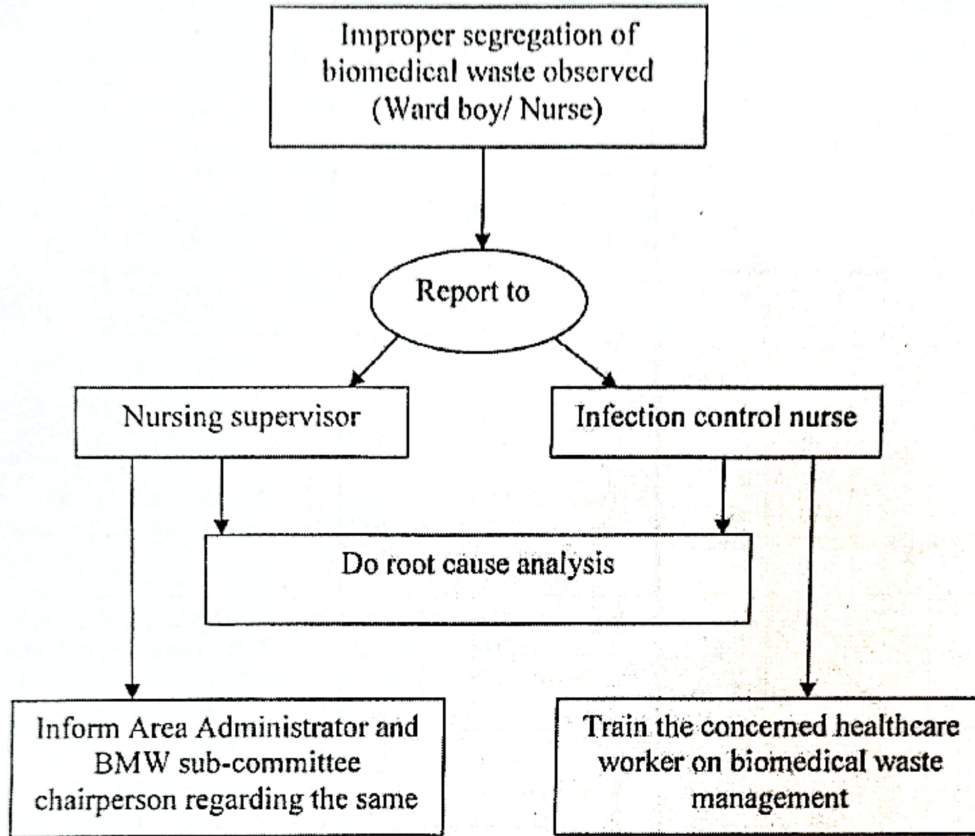


9	Are you meeting the standards of air pollution from the incinerator? How many times in last Year could not the standards ?	:		NA
	Details of continuous online emission monitoring systems installed	:		NA
10	Liquid waste generated and treatment methods in place. How many times you have not the standards 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 the standards in a year?	:		NIL (Met the Standard)
12	Any other relevant information	:		NIL
Certified that the above report is the period from 01 January 2021 to 31 December 2021.				
Date				Name and Signature of the Head of the Institution
Place	New Delhi			Dr. S.B.S.Srivastav - Joint Medical Superintendent

*[Handwritten signature]*

*[Handwritten signature]*





NOTE: The housekeeping supervisors will appoint a ward boy in each shift as a team leader who will coordinate with the nursing-in-charge for monitoring of compliance to biomedical waste segregation of that location and also report any non-compliance observed to the nursing supervisor and area ICN.



**Maharaja Agrasen Hospital**  
Punjabi Bagh, New Delhi-26

Minutes of Meeting - Bio Medical Waste Management

Date of Meeting : 27.9.2021

Time : 11 am to 12 noon

Location : 6<sup>th</sup> Floor Conference Hall

The members were present (Attendance Sheet attached).

The following points were discussed and decided that:

S. No	Discussion	Responsibility	Target Date
1.	Previous meeting minutes were discussed and all points have been closed except submission of the CBWTF (SMS Grace) Site visit report		
2.	CBWTF (SMS water grace pvt ltd) six-monthly site visit report of June 2021 must be submitted after due signatures and stamp.	Sanitary Inspector Sr A.O	30.09.2021
3.	It was discussed that the BMW transport trolley washing process in the common waste storage area must be monitored and proof of the same must be submitted to the sub-committee.	Sanitary Inspector Housekeeping supervisors	30.09.2021
4.	It was decided that the DPCC submitted monthly report of BMW will be submitted to the IT department by 5 <sup>th</sup> of every month from Sr A O office keeping all stakeholders in loop for uploading on the hospital website. The report must be uploaded on the website by 7 <sup>th</sup> of every month.	Sr A.O office Quality Department IT Department	Continuous process
5.	It was discussed that appropriate PPE must be worn by healthcare workers while handling biomedical waste. The same must be monitored and audit done on regular basis.	Housekeeping Supervisors Nursing Supervisors Sanitary Inspector Infection Control Nurse	Continuous process
6.	It was decided that a checklist will be prepared for the maintenance of hub-cutters and an audit will be done every 15 days for maintenance and usage of hub-cutters.	Checklist preparation: Dr Swati Audit: Housekeeping supervisors Nursing Supervisors Infection Control Nurse	05.10.2021 Continuous process
7.	It was informed by Sr A.O that colour coded and closed storage trolleys for bmw bags in common storage area have been finalized and a demand has been placed with the purchase department for the same. He also informed that the trolleys will be procured within 10 days.		
8.	It was discussed that improper segregation of waste is being observed regularly from different locations of the hospital even after repeated trainings. Hence a process flow was decided whenever any improper segregation is observed (Attached flowchart)	Housekeeping Supervisors Nursing Supervisors Infection Control Nurse	Continuous process

Dr. S S Srivastava

JMS

Enclon - (1)



MINUTES OF MEETING - BIO MEDICAL WASTE MANAGEMENT

Date of Meeting : June (1.6.2021)

Time : 02.00 PM

Location : 6<sup>th</sup> Floor Conference Hall

The members were present (Attendance Sheet attached)

The following points were discussed and decided that:

S. No	Discussion	Responsibility	Target Date
1.	Previous meeting minutes were discussed and all points have been closed.		
2.	It was discussed that Biomedical waste Annual report 2020 must be submitted to DPCC within the defined timeframe.	<ul style="list-style-type: none"><li>• Mr Rakesh Gera</li><li>• Ms Reema Phogat/ Mr Sachin Dayal</li></ul>	15.06.2021
3.	The six-monthly on-site visit to SMS Grace Pvt Ltd is to be undertaken in this month.	<ul style="list-style-type: none"><li>• Housekeeping supervisors</li><li>• Sanitary Inspector</li><li>• Infection Control Nurses</li><li>• Mr. Rakesh Gera/ Mr Sachin/ Ms Reema</li></ul>	30.06.2021
4.	<p>It was observed that the hub-cutters are not being used by the end users. The reasons identified were:</p> <ol style="list-style-type: none"><li>1. Few of the hub cutters are defective in which the needles are being stuck blocking the cutter for further use</li><li>2. The screw which is removed to take out the sharp container for disposal after its 3/4<sup>th</sup> filled has been found missing at few locations.</li></ol> <p>The purchase department must be notified regarding the defective hub-cutters for replacement.</p> <p>A report on the locations which have hub-cutters with missing screws has to be prepared for further action.</p>	<ul style="list-style-type: none"><li>• Housekeeping Supervisors</li><li>• Nursing Supervisors</li><li>• Sanitary Inspector</li><li>• Infection Control Nurses</li></ul>	08.06.2021
5.	Improper segregation of waste was being observed in most of the locations of the hospital. It was discussed that the new staff must be trained on biomedical waste management and strict monitoring and supervision of the same must be done on regular basis.	<ul style="list-style-type: none"><li>• Housekeeping Supervisors</li><li>• Nursing Supervisors</li><li>• Sanitary Inspector</li><li>• Infection Control Nurses</li></ul>	

*for*  
*S S Srivastava*  
Dr. S S Srivastava 5/6/2021  
JMS



**Maharaja Agrasen Hospital**  
Punjabi Bagh, New Delhi-26

Date: 15/12/2021


Minutes of Meeting - Bio Medical Waste Management

Date of Meeting : 15.12.2021  
Time : 01:30 PM – 02.00 PM  
Location : 6<sup>th</sup> Floor Conference Hall

The members were present (Attendance Sheet attached)

The following points were discussed and decided that:

S. No	Discussion	Responsibility	Target Date
1.	Previous meeting minutes were discussed and all points have been closed.		
2.	It was informed that as per gazette notification the thickness of biomedical waste bags to be used henceforth in the hospital must be of at least 75µm.	Purchase Dept Store (Main) ICN Sr A.O	-
3.	Six-monthly site visit report to SMS grace pvt ltd for December 2021 is to be submitted to HICC along with photographs.	Sanitary Inspector ICN Sr A.O	15.01.2022
4.	The biomedical waste transport tracking form must be duly maintained at all locations to ensure timely transport of biomedical waste.	Housekeeping Supervisors Nursing Supervisors Infection Control Nurse	-

  
Dr. S S Srivastava  
JMS





**Maharaja Agrasen Hospital**  
Punjabi Bagh, New Delhi-26

Date: 12/02/2021

Minutes of Meeting - Bio Medical Waste Management

Date of Meeting : Feb (12.2.2021)  
Time : 01:30 PM – 02.00 PM  
Location : 6<sup>th</sup> Floor Conference Hall

The members were present (Attendance Sheet attached)

The following points were discussed and decided that:

S. No	Discussion	Responsibility	Target Date
1.	Previous meeting minutes were discussed and all points have been closed.		
2.	It was discussed that the mobile phone used to scan the biomedical waste barcodes must have internet facility for smooth functioning of the "First" app.	Housekeeping supervisor Mr Rahul Senior Administrative Officer	19.02.2021
3.	Training on biomedical waste management and spill management will be done hospital-wide for the healthcare workers handling biomedical waste.	Infection Control Nurse	28.02.2021
4.	Hub-cutters must be procured and implemented on an urgent basis and training regarding the usage and maintenance must be given to the end-user.	Housekeeping Supervisors Nursing Supervisors Infection Control Nurse	28.02.2021
5.	It was discussed that the current barcodes do not adhere to the biomedical waste bags effectively. It was decided to analyze the root cause.	Mr Rahul Housekeeping Supervisor	20.02.2021
6.	Kayakalp Indicators (CSSD, BMW, Laundry) from Jan 2020- Dec 2020 were discussed with RCA and CAPA.	----	----
7.	It was observed that there was delay in issue of clean linen by laundry due to delay in condemnation by user end. It was discussed that as per hospital policy condemnation of linen has to be done at the user end (nurses) and concerned area Administrator must be informed in case of any delay in condemnation.	Nursing In Charges Laundry Supervisor	Continuous process
8.	It was decided that any changes in the biomedical waste management protocol of the hospital must be brought about only after due approval of the biomedical waste sub-committee.	----	----

For  
Dr. S S Srivastava  
JMS  
Anshu Mittal  
Microbiologist &  
(BMW office)

**Maharaja Agrasen Hospital, Punjabi Bagh**  
**Biomedical Waste Annual Report**

Period of Data: 1 January 2021 to 31 December 2021

S No	DATE	YELLOW		RED		BLUE		WHITE		TOTAL	
		Bags	Weight	Bags	Weight	Bags	Weight	Bags	Weight	Bags	Weight
1	Jan-21	860	2192.386	1220	5023.781	275	895.04	282	78.692	2637	8189.899
2	Feb-21	810	2158.48	1109	4477.25	269	874.46	291	102.27	2479	7612.46
3	Mar-21	1097	2743.64	1459	5750.94	369	1219.84	366	98.9	3291	9813.32
4	Apr-21	1130	2926.71	1885	9139.09	398	1669.86	452	145.36	3865	13881.02
5	May-21	1000	2857.65	1597	7956.16	294	1347.52	377	118.84	3268	12280.17
6	Jun-21	1007	2648.969	1339	5304.01	353	1097.21	376	99.659	3075	9149.848
7	Jul-21	1102	2749.79	1429	5030.23	368	1050.12	427	98.9	3327	8929.04
8	Aug-21	1067	2907.46	1395	5191.49	396	1196.73	391	98.589	3249	9394.269
9	Sep-21	1091	3134.73	1465	5716.8	456	1300.79	389	100.17	3401	10252.49
10	Oct-21	1304	3705.04	1764	6819.49	508	1687.94	513	128.15	4089	12340.62
11	Nov-21	1181	3109.53	1611	6037.02	452	1399.59	436	100.83	3680	10646.97
12	Dec-21	1153	3185.72	1484	5653.28	394	1191.59	410	99.49	3441	10130.08
REPORT TOTAL		12802	34320.105	17757	72099.541	4532	14930.69	4710	1269.85	39802	122620.186