

**MINUTES OF THE MEETING OF AIIMS BHOPAL BIOMEDICAL WASTE DISPOSAL
COMMITTEE HELD ON 1st JANUARY 2018**

A meeting of AIIMS Bhopal BMW Disposal Committee was held on 1st January 2018 at 10:00 am in the chamber of Medical Superintendent, AIIMS Bhopal.

Following members attended the meeting:

- i. Dr. Rajesh Malik, Medical Superintendent, AIIMS Bhopal- Chairperson
 - ii. Dr John Santoshi, Member
 - iii. Mr Md. Ashiq, Staff Nurse I/c of Bio-medical waste (in place of Ms. Anjana Kavidkar)
 - iv. Dr Debasis Biswas, Member Secretary
1. The Committee met to evaluate the performance of the Optimaster™ 60 Ltr and Optimaster™ 30 Ltr instruments that have been procured by AIIMS Bhopal.
 2. The instruction manuals provided with the 2 instruments were consulted and the print-outs obtained from the instruments between 24/11/2017 and 20/12/2017 were examined to compare the actual running conditions of the instruments against the operational specifications mentioned in the manual.
 3. It was observed that while the instruction manual specified a hold time of 30 minutes at 100^oC, 42 of the 46 cycles run in the Optimaster™ 60 Ltr instrument between 24/11/2017 and 4/12/2017 had a hold time of 35 minutes and none of the cycles run in the Optimaster™ 60 Ltr instrument between 5/12/2017 and 20/12/2017 had a hold time of 35 minutes.
 4. The variation from the protocol given in the instruction manual was even more in case of the to the Optimaster™ 30 Ltr instrument. 34 of the 39 cycles run in the Optimaster™ 30 Ltr instrument between 24/11/2017 and 4/12/2017 had a hold time of 35 minutes and none of the cycles run in the Optimaster™ 30 Ltr instrument between 5/12/2017 and 20/12/2017 had a hold time of 35 minutes. Again from 15/12/2017 to 18/12/2017, all the 8 cycles had hold time of 35 minutes and on 19/12/2017 and 20/12/2017 none had a hold time of 35 minutes.
 5. In addition, from 4/12/2017 to 20/12/2017 the performance was found to be sub-optimal with respect to hold time and temperature in 16% (14 out of 87 cycles) and 31% (24 out of 77 cycles) of the cycles run in Optimaster™ 60 Ltr and Optimaster™ 30 Ltr instruments. In all of these sub-optimal cycles, exposure at 100^oC was less than the recommended duration.
 6. It was brought to the notice of the committee that the efficacy testing of the instruments was not by the vendor done in accordance with the protocol given in the instruction manual. On bringing it to the notice of the vendor, it was communicated vide E-mail dated 14/12/2017 that the protocol for efficacy testing has been changed. However, even the revised protocol was not complied with at the time of efficacy testing and the following departures were observed:

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All concerned officials

(a) Instead of 2 vials being used per instrument (one kept as control and one subjected to microwave cycle), only 1 vial has been used.

(b) The vial was not placed in the bottom center of the drum

(c) Instead of the recommended 3 cycles, only 1 cycle has been run with the indicator.

These departures were communicated to the vendor by the Member Secretary vide E-mail dated 18/12/2017.

The vendor had again performed efficacy testing for 1 cycle on 27/12/2017. However, as per the revised protocol communicated vide E-mail dated 14/12/2017, the efficacy testing has to be performed in a minimum of 3 cycles.

7. In view of these lapses in the operation and efficacy testing of the instruments, the committee observed that the vendor should immediately resolve these issues to the satisfaction of the committee and demonstrate the compliance of the instruments with their manual. Pending such satisfactory resolution, the installation of these instruments cannot be considered to have been done.

(Dr Debasis Biswas)

Member Secretary

(Dr Rajesh Malik)

Chairperson

**MINUTES OF THE MEETING OF AIIMS BHOPAL BIOMEDICAL WASTE DISPOSAL
COMMITTEE HELD ON 24th APRIL 2018**

A meeting of AIIMS Bhopal BMW Disposal Committee was held on 24th April 2018 at 11:30 am in the chamber of Medical Superintendent, AIIMS Bhopal.

Following members attended the meeting:

- i. Dr. Manisha Shrivastava, Medical Superintendent, AIIMS Bhopal- Chairperson
- ii. Dr Debasis Biswas, Member Secretary
- iii. Dr Arun Kokane, Member
- iv. Dr Shashank Purwar, Member
- v. Dr Sanjeev Kumar, Member
- vi. Shri SB Pandey, Member
- vii. Shri Nagendra Saraswat, Member
- viii. Shri Vishal Gupta, Member
- ix. Shri Vikram Gupta, Member
- x. Mrs Anjana Kavidkar, Member

Sl	Agenda item	Discussion	Decision
1.	Storage & Treatment Area for Bio-medical Waste	<p>It was pointed out by the Member Secretary that this issue has been deliberated by the committee and a recommendation was made in its meeting dated 23rd July 2016 to set up a safe, ventilated & secure location for storage of BMW prior to handling over to CBWTF, so that it is protected from pilferage, spillage, scattering, secondary handling, etc</p> <p>The "<u>BMW Treatment & Storage Area</u>" should be:</p> <ol style="list-style-type: none"> 1. Accessible from hospital & Medical College Buildings 2. Accessible to CBWTF vehicle 3. Can be locked 4. Should have autoclave installed for on-site disinfection of lab waste. 5. Shredder for the area is also be purchased <p>A letter was sent to the SE from the office of the MS to set up such a facility</p>	<ol style="list-style-type: none"> 1. The SE emphasized the need to expedite the establishment of this facility. 2. A tentative site was identified on the map to house the facility. 3. The SE asked the ABEU members to prepare a layout for the facility, which should be adequate for storage of the different categories of Bio-medical waste generated from the fully functional hospital and medical college 4. It was also decided that the area should be equipped with a shredder and microwave, apart from autoclave. 5. A visit to the site was proposed to be undertaken by the members of the committee.

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Sl	Agenda item	Discussion	Decision
2.	Tender for the services of a CBWTF operator for transport and disposal of Bio-medical waste	<ol style="list-style-type: none"> 1. It was pointed out by the Chairman that the current CBWTF operator has been awarded an extension of contract till 18th of August 2018. 2. A draft tender document was prepared for hiring of the services of CBWTF operator for a period of 2 years 	It was decided to float the tender after obtaining the approval of the competent authority.
3.	Management of liquid Biomedical waste	<ol style="list-style-type: none"> 1. It was pointed out by the Chairman that an MoU has been received from a potential service provider called “Govindpura Audyogik Kshetra Pradushan Niyanntran Kendra” for outsourcing of the liquid Bio-medical waste generated at AIIMS Bhopal. 2. After detailed discussion, it was observed that this organization was authorized for the handling of industrial waste and, hence, would not be compatible for the handling of liquid bio-medical waste generated at AIIMS Bhopal. 3. It was discussed that till the time the institutional ETP was operational, AIIMS Bhopal could explore the possibility of handing over its liquid waste to a consenting institution with a functional ETP and sign an MoU with such institution so that environmental pollution is avoided. 	<ol style="list-style-type: none"> 1. The committee recommended cancellation of the institute’s membership with “Govindpura Audyogik Kshetra Pradushan Niyanntran Kendra.” 2. It was decided that the institute would send letters to potential Govt. organizations with running ETPS and explore the possibility of this arrangement for the time being.
4.	Integration of procurement of BMW items with the tender for housekeeping	For smooth functioning of the BMW services, it was felt that the supply of bins, bags, sharps containers, etc should be provided by the outsourced agency for house-keeping in future. The agency should also provide dedicated vehicles for transportation of bio-medical waste from the point of generation to the dedicated treatment and storage area.	It was decided that the committee should recommend the inclusion of these provisions in the future tender for hiring of housekeeping agency.

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5.	Colour coding of Bins for general waste	The issue of changing the colour of bins for general waste (black bins to be replaced by blue bins and green bins) in all corridors was discussed.	It was unanimously decided to make the change in accordance with Solid Waste Management Rules, 2016.
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(Dr Debasis Biswas)
Member Secretary

(Dr Manisha Shrivastava)
Chairperson

MINUTES OF THE MEETING OF AIIMS BHOPAL BIOMEDICAL WASTE DISPOSAL

COMMITTEE HELD ON 26th JUNE 2018

A meeting of AIIMS Bhopal BMW Disposal Committee was held on 26th June 2018 at 12:00 noon in the chamber of Medical Superintendent, AIIMS Bhopal.

Following members attended the meeting:

- i. Dr. Manisha Shrivastava, Medical Superintendent, AIIMS Bhopal- Chairperson
- ii. Dr Debasis Biswas, Member Secretary
- iii. Dr Sanjeev Kumar, Member
- iv. Shri Nagendra Saraswat, Member
- v. Shri Vikram Gupta, Member
- vi. Mrs Anjana Kavidkar, Member

Sl	Agenda item	Discussion	Decision
1.	Storage & Treatment Area for Bio-medical Waste	<p>Detailed discussion was held on the layout plan of the Bio-medical Storage & Treatment Area.</p> <p>Area for the same had been finalized behind the Animal House.</p> <p>The layout plan was found to provide for:</p> <ol style="list-style-type: none">(a) Unidirectional flow of Bio-medical Waste from the storage point to the point of disposal(b) Segregation of treated and untreated waste(c) Segregation of the different categories of waste in the storage area <p>It was emphasized that the facility should be easily washable and the liquid waste from the facility should be connected to the ETP</p> <p>The layout plan was recommended by the members.</p>	<ol style="list-style-type: none">1. It was decided that the Member Secretary would move a proposal for the setting up of the facility according to the approved layout plan.2. ABEU would prepare an engineering drawing and financial estimate for the same.3. Funds for the establishment was proposed to be met from the Swatchata Action Plan
2.	Procurement of Autoclave for	<p>The technical specifications of the autoclave were discussed and finalized by the members</p>	<p>It was decided that 2 such autoclaves would be procured through GeM using funds available under Swatchata Action Plan</p>

3.	Training of hospital staff in Bio-medical Waste management	The policy of organizing monthly training classes on this subject was discussed.	It was decided that Ms Anjana would carry on with the policy of organizing the classes at a central location on a monthly basis.
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(Dr Debasis Biswas)
Member Secretary

(Dr Manisha Shrivastava)
Chairperson

**MINUTES OF THE MEETING OF AIIMS BHOPAL BIOMEDICAL WASTE DISPOSAL
COMMITTEE HELD ON 15th SEPTEMBER 2018**

A meeting of AIIMS Bhopal BMW Disposal Committee was held on 15th September 2018 at 11:30 am in the chamber of Medical Superintendent, AIIMS Bhopal.

Following members attended the meeting:

- i. Dr. Manisha Shrivastava, Medical Superintendent, AIIMS Bhopal- Chairperson
- ii. Dr Debasis Biswas, Member Secretary
- iii. Dr Shashank Purwar, Member
- iv. Dr Sanjeev Kumar, Member
- v. Shri Jitendra Saxena (SE) Member
- vi. Shri Nagendra Saraswat, Member
- vii. Shri Vikram Gupta, Member
- viii. Mrs Anjana Kavidkar, Member

Sl	Agenda item	Discussion	Decision
1.	Transportation of liquid Biomedical Waste from AIIMS Bhopal to ETP at BMHRC	<ol style="list-style-type: none"> 1. The modality for hiring an approved agency for this job was discussed. 2. It was noted that of the 2 agencies (CBWTFs) approved by MPPCB, M/s Bhopal incinerators has verbally declined to undertake this job. 3. It was noted that the second agency, M/s Environment Protection Corporation has submitted a formal proposal to carry out this work. 	<ol style="list-style-type: none"> 1. M/s Bhopal incinerators will be asked to submit letter of denial to carry out this work. 2. In such a scenario, since the situation resembled the procurement of the required service from a single available source, the case could be processed through website posting of the requirement with necessary terms and conditions of service and asking for financial quotes for executing the same. 3. Rates quoted by M/s Environment Protection Corporation can be negotiated further by a designated committee.

2.	Review of progress of work of STP & ETP	1. The ABEU representatives updated the committee regarding the current state of work and mentioned that the facilities would be functional by December 2018.	
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(Dr Debasis Biswas)
Member Secretary

(Dr Manisha Shrivastava)
Chairperson