



MAHATMA GANDHI INSTITUTE OF MEDICAL SCIENCES, SEVAGRAM

MANAGEMENT OF DEGRADABLE AND NON-DEGRADABLE WASTE

Solid Waste Management:

In MGIMS general waste is segregated in black, green and blue coloured dustbins and collected daily from offices, wards, laboratories, and OPDs etc. The institute has 5 nos. of instant compost machines with the capacity of recycling of 130 kg of waste per machine per day. The entire general non-infectious waste is recycled & converted into fine compost within 24 hrs.



Liquid Waste Management:

In MGIMS entire liquid waste is managed as per guidelines of Maharashtra Pollution Control Board.

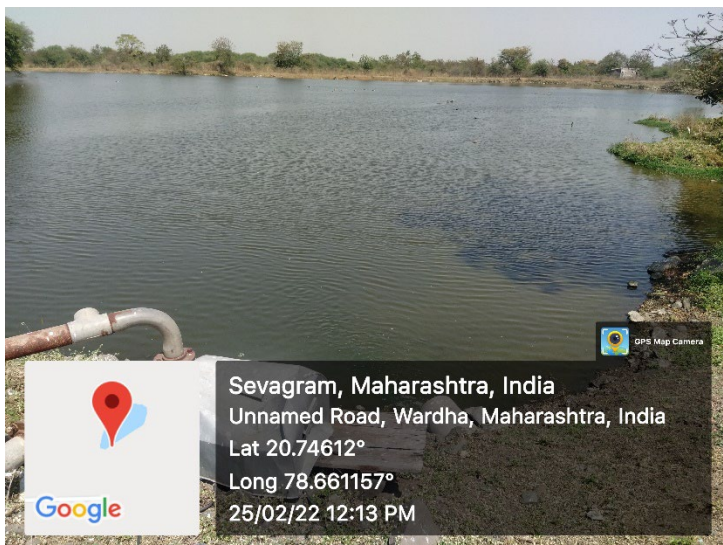
Effluent Treatment Plant (ETP):

There is an Effluent Treatment Plant for treatment of highly infectious liquid waste in which both chemical and biological treatment done followed with disinfection. Infectious liquid waste generated from laboratories, operation theaters and laundry is connected with ETP through underground drainage pipeline for treatment. It has a capacity of storing 30,000 litres and has 5000 litres HDPE Neutralizer, 5000 litres filter notch for treating the effluent water.



Sewage Treatment Plant:

Sewage water collection and disposal facility is properly designed with underground sewage drainage line, chambers, septic tanks, soakage pits followed with Sewage Treatment plant. the underground sewerage system is connected with all sewage generating areas like wards of hospital, hostel campus, residential campus and offices etc. All sewage water is treated in Sewage Treatment Plant based on MBBR technology which is situated far away from the habitation. After the proper treatment sewage water is use for the Agriculture purpose. Physical and chemical analysis of treated water is analysed on regular basis.





Biomedical Waste Management:

In MGIMS, biomedical waste is properly managed as per the norms of Maharashtra Pollution Control Board. All colour coded dust bins, polythenes and needle destroyers are used in wards of Kasturba Hospital, laboratories, OPDs, Departments, etc. Generation, segregation and treatment is managed by institute. Collection, transportation, storage and disposal of BMW is outsourced to CBMWTDF M/s Superb Hygienic Disposals Nagpur. There is a Biomedical Waste Management Committee to manage and supervise the complete facility. Training regarding BMWM is given to employees once in a month.

E-waste management:

All obsolete IT equipment that can no longer be used or repaired are condemned through the Institutional Condemnation Committee. This condemned equipment is then auctioned to external bidders for scraping or recycling by the EMD Department.

Waste Recycling System:

The entire plastic recyclable waste is outsourced to authorized agency M/s Superb Hygienic Disposals Nagpur for treatment and disposal. The entire biodegradable waste is recycled through above mentioned Instant Compost Machines. Fine compost is then utilized for garden and agriculture purpose.

Bio-hazardous waste management:

Collection, transport and disposal of biomedical waste (BMW) is outsourced and done on contractual basis. The Maharashtra Pollution Control Board has authorized an agency named M/s Superb Hygienics & Disposals Ltd. For disposing all Hospital waste as per the norms of the Maharashtra Pollution Control Board. All the waste is disposed of through this agency. Segregation is done as per norms. Every fortnight, supervisory rounds are taken and BMW disposal report is submitted to the Medical Superintendent (Details are available on our website <<https://www.mgims.ac.in/index.php/hospital/bmw>>).

Hazardous chemicals and radioactive waste management:

Our institute follows the radiation safety guidelines prescribed by the Atomic Energy Regulatory Board (AERB) of India. All radiation emitting equipment (i.e. X-ray machines and CT scan) are registered with AERB. Personnel Monitoring Service (TLD badge) is used to record the radiation doses received by individuals working in radiology and radiotherapy

departments. Radiation safety information is displayed for patients in both the departments. Radiation protection programs are conducted by Radiological Safety Officer (RSO) at least once in every year for radiation workers. Dose records are maintained for every individual by RSO and action is taken in case of any over-exposure. Radiation protection survey is carried out at periodic intervals of time to ensure that the dose limits are controlled for radiation workers as well as general public. Radiation installations are so constructed to keep the radiation level as low as possible (ALARA). Radiation safety status report of Radiation installation is used to send to Atomic Energy Regulatory Board (AERB), Mumbai for every year. Radiation safety measures are implemented as per AERB regulation and following on updates in case of any.

Certificate of MPCB authorization certificate attached