

BIOMEDICAL WASTE MANAGEMENT

Criteria 7.1.3



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INTRODUCTION

Quantum University Roorkee is committed to sustainable healthcare practices aimed at reducing its environmental footprint. Through careful management and adherence to strict protocols, the university ensures that the generation of harmful medical waste is minimized. Additionally, the institution prioritizes the efficient use of resources by employing innovative techniques to limit the quantity of blood samples required for various procedures, thereby contributing to a more sustainable and eco-friendly approach to medical research and education. Furthermore, the implementation of rigorous waste segregation measures, with medical waste sorted into different color-coded containers, underscores the university's dedication to responsible waste management practices. These efforts culminate in the safe disposal of medical waste through the utilization of advanced incinerator technology, aligning with Quantum University's commitment to environmental stewardship and community well-being.



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Collection of Bio Medical Waste

The collection of biomedical waste at Quantum University Roorkee is conducted with utmost care and adherence to stringent guidelines. Specialized protocols are in place to ensure the safe handling and disposal of biomedical waste, minimizing any potential risks to public health and the environment. Trained personnel meticulously segregate the waste into designated color-coded containers, each representing a specific category of biomedical waste, such as sharps, infectious materials, or hazardous chemicals. Regular collection schedules are followed to prevent accumulation and maintain a clean and hygienic environment.



Fig 1: Segregation of biomedical waste with different color coding


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Fig 2: Segregation containers available in Department of Paramedical Sciences Lab


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Incinerator Machine for disposal of Biomedical Waste

Quantum University Roorkee employs cutting-edge incinerator technology for the safe and efficient disposal of biomedical waste. This state-of-the-art incinerator machine is specifically designed to handle the unique challenges posed by medical waste, ensuring thorough destruction of potentially hazardous materials while minimizing environmental impact.

Equipped with advanced combustion chambers and filtration systems, the incinerator operates at high temperatures, effectively sterilizing and reducing biomedical waste to inert ash. Stringent emission control measures are implemented to prevent the release of harmful pollutants into the atmosphere.

The university follows strict protocols for the operation and maintenance of the incinerator, with trained personnel overseeing the process to ensure compliance with regulatory standards and safety guidelines. Regular inspections and monitoring are conducted to uphold the integrity of the system and mitigate any potential risks.

By utilizing this sophisticated incinerator technology, Quantum University demonstrates its commitment to responsible waste management practices and environmental stewardship, safeguarding both public health and the surrounding ecosystem.



Fig 3: Incinerator available in Department of Paramedical Sciences Lab