



B.M.S. COLLEGE OF ENGINEERING, BENGALURU-19

Autonomous College under VTU / Approved by AICTE / Accredited by NBA

Department of Medical Electronics Engineering

Report on One-Day Industrial Visit

Mardi Bio Industries: Biomedical Waste Management Plant

Date of Visit: 20/12/2023

Day: Wednesday

Introduction

This visit aimed to provide a comprehensive understanding of the processes, technologies, and standards employed in handling biomedical waste. Mardi Bio Industries is a state-of-the-art biomedical waste management facility located in Sampangi Rama Nagar, Bengaluru, Karnataka 560027. The facility specializes in the efficient and environmentally responsible disposal of biomedical waste generated by healthcare institutions, laboratories, and pharmaceutical companies.

The objectives of the industrial visit were:

- To observe the procedures and protocols for collecting, segregating, and treating biomedical waste.
- To understand the technologies utilized for the safe disposal and treatment of biomedical waste.

Observations and Findings:

- **Collection and Segregation Process:** During the visit, it was observed that Mardi Bio Industries has a meticulous process for the collection and segregation of biomedical waste. Different categories of waste were appropriately segregated at the point of generation and transported to the facility in separate containers to prevent spillage and contamination.
- **Treatment and Disposal Techniques:** The facility employs technologies such as autoclaving, microwaving, and chemical treatment for the sterilization and disposal of biomedical waste. These methods were demonstrated and highlighted the effective eradication of pathogens while minimizing environmental impact.
- **Compliance and Safety Measures:** Mardi Bio Industries showcased commitment to regulatory compliance and safety standards. The facility adheres to guidelines set by regulatory bodies, ensuring the safety of workers and the surrounding environment. Personal protective equipment (PPE) was mandatory for all employees, and stringent safety protocols were observed throughout the facility.
- **Environmental Sustainability:** The emphasis on environmental sustainability was evident in the facility's practices. Efforts to minimize the carbon footprint through waste-to-energy initiatives and recycling programs showcased a commitment to environmental responsibility.



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Conclusion

The visit to Mardi Bio Industries provided valuable insights into the intricacies of managing biomedical waste. The facility's adherence to safety measures, advanced treatment technologies, and commitment to environmental sustainability are commendable. The observations and learnings from this visit can serve as a benchmark for other biomedical waste management facilities.

Acknowledgement

We extend our gratitude to the management and staff of Mardi Bio Industries for their warm reception and informative sessions during our visit. Their willingness to share their expertise and insights contributed significantly to the success of this industrial visit. The experience was not only enjoyable but also incredibly insightful and beneficial for all of us.

[Signature] 20/12/23



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Date: 20TH Dec 2023

Time: 09.00 AM-4.30PM - Attendance

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Outcome of the program/event:

1. Observed the Procedures and Protocols for collecting, segregating and treating biomedical waste.
2. Understand the technologies utilized for the safe disposal and treatment of biomedical waste.



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Report about the event:

The visit to Masadi Bio industries provided valuable insights into the intricacies of managing biomedical waste. The experience was not only enjoyable but also incredibly insightful and beneficial for all of us.


Faculty Coordinator


HOD, MED.ELNS