



Alva's Institute of Engineering & Technology

Shobhavana Campus, Mijar, Moodbidri, D.K – 574225

Department of Information Science and Engineering

in association with



Techgeekz – ISE Students' Forum

**Visit to Material Recovery Facility (MRF)
- a Social Connect and Responsibility Initiative**

Date: 29th October 2024

Venue: Tenkayadapadava village-Dakshina Kannada, Karnataka

Participants: 65 Nos. of students of III Sem B.E. ISE

Report

Objective of the Visit

This visit, under the Social Connect and Responsibility Initiative, was organized to:

1. Provide students exposure to innovative methods of handling and processing large volumes of dry waste.
2. Demonstrate how waste can be effectively managed and converted into reusable resources with minimal manpower.
3. Highlight centralized and environmentally efficient waste management systems.
4. Instill a sense of social responsibility by connecting students with community-driven sustainability efforts.



Insights from the Visit

The Material Recovery Facility (MRF) at Tenkayadapadava village, established by the Zilla Panchayat, serves as an exemplary model of sustainable waste management. Key observations include:

- The facility processes 10 tonnes of dry waste daily and segregates it into 30 sub-components.



- 90% of collected waste is recovered as usable resources, while non-recyclable waste is sent to cement factories for co-processing.
- The facility spans 10,000 square feet, featuring advanced infrastructure like a conveyor belt, bailing machine, stacker, fire safety systems, and a 70-tonne capacity weighbridge.
- Dry waste is collected door-to-door and processed centrally to maximize efficiency and minimize environmental harm.
- Recyclable waste is sent to authorized recycling units, ensuring minimal environmental impact.

Impact on Students: Social Connect and Responsibility

This visit had a profound impact on the students, helping them bridge the gap between theoretical knowledge and real-world social responsibility:

1. Awareness of Community Efforts:

Students gained an understanding of how rural communities and government initiatives collaborate to tackle pressing environmental issues. This broadened

their perspective on the importance of community-driven sustainability efforts.

2. *Empathy for Social Causes:*

Observing the meticulous processes at the MRF instilled empathy for those involved in waste management. Students came to appreciate the essential role these facilities play in maintaining environmental health.

3. *Motivation for Civic Engagement:*

The visit inspired students to take an active role in community-focused initiatives. They realized their potential to contribute to societal welfare through individual actions and collective efforts.



4. *Practical Learning Experience:*

Students witnessed firsthand how technology, innovation, and manpower can be combined to solve large-scale waste management challenges. This practical exposure reinforced their understanding of sustainable development goals.

5. *Commitment to Responsible Living:*

The visit encouraged students to adopt waste reduction practices in their personal lives and promote awareness about recycling within their families and communities.

6. *Promoting a Collaborative Mindset:*

Students appreciated the collaborative nature of the MRF's operations, emphasizing teamwork and the shared responsibility of every individual in creating a sustainable environment.



Conclusion

The visit to the MRF, as part of the Social Connect and Responsibility Initiative, was not just an educational activity but a transformative experience. Students returned with a deeper sense of environmental consciousness, a commitment to social responsibility, and the motivation to bring about positive change in their communities. This initiative exemplifies the efforts of the Department of Information Science and Engineering to produce not just skilled engineers but socially responsible citizens dedicated to the betterment of society and the environment.

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