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A Report on One-day Industrial Visit to "Samruddhi Industries Ltd, Valasapalle" Organized by Department of Mechanical Engineering on 11.10.2025

Report Submitted by: Mr. P Mohammed Rizwan Ali, Assistant Professor, Department of Mechanical Engineering.
Participants: III B. Tech Mechanical Engineering, MITS.
Total Participants: 51
Mode of Conduct: Offline
Report Received on 28.10.2025.

One-day Industrial Visit to “Samruddhi Industries Ltd, Valasapalle", was organized for the III Year B. Tech Mechanical Engineering students on 11-10-2025. The Industrial Visit was organized with an objective to give industry exposure to students in Academics and was started at 10:00 AM at MITS Campus, by College bus and reached Samruddhi Industries Ltd by 10:45 AM.

About Samruddhi Industries Ltd:

Samruddhi Industries Ltd. is a one-stop Brand serving the wide range of Unbreakable Plastic Products. Samruddhi is the famous Exporter, Manufacturer and Supplier of Unbreakable Plastic Products and an ISO 9001:2008 certified company, which stands by the standards. They provide a huge assortment of quality products made of top quality plastic, with a very good market presence in the southern Part of India.

Samrudhhi Polymers was involved in manufacturing a variety of polymer-based products. These typically include plastic films, bags, containers, and specialty packaging materials used across industries like food, pharmaceuticals, and consumer goods. The company utilizes advanced extrusion and blow molding technologies for producing high-quality plastic products. These methods ensure durability, flexibility, and cost-effectiveness in production. Additionally, they may use additive technologies to enhance product features such as UV protection, color, and strength.

Objectives of Visit:

1. The main objective of the visit is to help students understand the manufacturing processes involved in polymer production, such as extrusion, blow molding, and injection molding.
2. Students will exposed to industrial machinery and equipment, allowing them to connect theoretical knowledge with practical applications.
3. Students will learn about the quality control and testing methods used to ensure that the polymer products meet strength and durability standards.
4. The visit will help students understand how different polymers are chosen and applied based on their material properties like flexibility, strength, and UV resistance.
5. Students will gain awareness of sustainability practices in polymer manufacturing, including recycling, waste management, and the use of eco-friendly materials.
6. The visit will allow them to observe how automation and process optimization improve efficiency and product consistency in large-scale production.
7. It will also provide insights into current trends and challenges in the polymer industry, such as biodegradable plastics and innovative packaging solutions.
8. Students will learn about industrial safety practices and the precautions followed while handling machinery, heat, and chemicals in the factory.

A group of 51 students along with the AO of the Mechanical Department Mr. Prashanth visited Samrudhhi Polymers, Valasapalle as part of an educational industrial tour. The visit began with a brief introduction about the company, presented by Mr. Venkateswarulu, Production Engineer at Samrudhhi Polymers. He welcomed the students and explained how polymer processing technologies are advancing to meet industrial and environmental needs. Later, Mr. Sharif Senior Technician at the plant, guided the students through various sections of the factory, including the extrusion, blow molding, and quality testing units. He explained the technology and machinery used in the manufacturing of different polymer products such as plastic films, containers, and packaging materials.

Students also had the opportunity to witness real-time extrusion and molding operations, observing how raw polymer granules are transformed into finished products. Following this, the group visited the quality control division, where they learned about the testing and inspection procedures used to ensure product strength, flexibility, and durability. The visit concluded with an interactive session with company HR Manager Mr. Shah who discussed the importance of innovation and sustainability in the polymer industry. The tour ended with a group photo session.

Outcomes of the visit:

1. Students gained practical understanding of polymer manufacturing processes such as extrusion, blow molding, and injection molding.
2. Students connected theoretical knowledge with real-world industrial applications through exposure to machinery and production systems.
3. Students understood the quality control methods and testing procedures used to ensure product reliability and performance.
4. Students recognized how polymers are selected for specific applications and how sustainability practices are integrated into production.
5. Student became familiar with current developments in the polymer industry, including automation, process optimization and safety standards.