

A Report on One Day Industrial visit to
“Atmika Paper Mills Pvt. Ltd., Cheekatimani Palli”
Organized by Department of Mechanical Engineering
on 17.05.2025



Report submitted by: Mr. Pujari Rajesh, Assistant Professor, Department of Mechanical Engineering.

Participants: III B.Tech. Mechanical Engineering, MITS

Total participants: 50

Report Received on 27.05.2025

Mode of Conduct: Offline

Introduction:

An industrial visit was organized by the Department of Mechanical Engineering, Madanapalle Institute of Technology & Science (MITS), for the III B. Tech. students to Atmika Paper Mill Pvt. Ltd., located near Cheekatimani palli, Andhra Pradesh. The visit took place on 17th May 2025, with the objective of bridging the gap between theoretical knowledge and practical application by providing students with insights into the working of paper manufacturing processes and the mechanical systems involved.



Objective of the Visit

- To provide students with first-hand experience of the manufacturing and processing of paper.
- To understand the application of mechanical engineering principles in industrial settings.
- To expose students to industrial work culture, safety protocols, and environmental sustainability practices.
- To interact with industry professionals and gain insight into career prospects in the manufacturing sector.

Overview of Atmika Paper Mill Pvt. Ltd.:

Atmika Paper Mill Pvt. Ltd. is a leading manufacturer of recycled paper products. The plant uses eco-friendly practices by recycling wastepaper to produce various grades of industrial and packaging paper. The company is equipped with modern machinery and follows a semi-automated process flow.

Key Areas observed during the Visit and Learning Outcomes:

During the visit, students were taken through the entire production cycle, which includes:

Raw Material Processing: Students observed the initial stage of raw material processing, where waste paper and wood pulp are sorted, cleaned, and prepared for pulping.

Pulping and Refining: The mechanical pulping machines, refiners, and related pumps and agitators were demonstrated. Discussions highlighted the energy input, blade design, and maintenance considerations.



Paper Formation: The forming section, which includes the Fourdrinier machine, showed how pulp is spread onto a wire mesh and water is removed through a combination of gravity, suction, and pressing.

Drying and Finishing: Students observed multi-cylinder dryers and calendaring machines. The principles of heat transfer, temperature control, and surface finishing were discussed in this section.

Utilities and Maintenance: The visit also covered the utility sections, including boilers, compressors, and water treatment plants, giving insights into auxiliary systems that support the production line.

Interaction with Industry Professionals: Students had an interactive session with the plant manager and technical staff, where they asked questions regarding:

- Mechanical challenges faced during continuous production.
- Maintenance schedules and predictive maintenance tools.
- Use of automation and control systems.
- Career opportunities in the paper industry.



Students learned about:

- The role of heat exchangers, pumps, and compressors in maintaining process flow.
- Maintenance and operational practices in large-scale machinery.
- Quality control measures and use of instrumentation in process monitoring.
- Environmental controls and waste treatment facilities adopted by the plant.

Conclusion:

The industrial visit to Atmika Paper Mill Pvt. Ltd. was highly informative and beneficial for the students. It provided a practical perspective on the concepts learned in class and helped develop an understanding of real-world industrial operations. The interaction with the plant engineers added value by giving insights into current trends and challenges in the paper manufacturing industry.



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