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S. B. PATIL COLLEGE OF ENGINEERING, INDAPUR, DIST: PUNE
DEPARTMENT OF MECHANICAL ENGINEERING

ACA – R-49

Rev : 00

Date: 01.07.2014

Event Conducted Report

Academic Year: 2025-26

Semester: I

Ref: SPVP/SBPCOE/ME/2025-26/F12/06

Date: 30/09/2025

To,

The Principal

SBPCOE,

Indapur.

Subject: Report of Industrial Visit on 26th Sept. 2025 for SE, TE, BE Students

Respected Sir,

An industrial visit to **Indapur Polymers Pvt. Ltd., Vadapuri** was successfully organised on **26th September 2025** by the Department of Mechanical Engineering for SE, TE and BE Mechanical students. The visit was coordinated by **Prof. J. B. Mule**, under the guidance and support of **Head of Department, Dr. M. D. Jagtap**. Faculty members **Prof. N. S. Bagal** and **Prof. V. D. Gawade** also accompanied the team and contributed to the smooth execution of the event. The primary purpose of the visit was to provide students with practical exposure to polymer processing technologies, plant operations and modern industrial practices that complement their academic learning.

Upon arrival at the industry, the students were welcomed by the plant officials, followed by an introductory session conducted by the Plant Manager. He briefed the students about the company profile, product range, annual production capacity, and the role of Indapur Polymers in the manufacturing sector. This session helped students understand the significance of polymer-based components in automotive, consumer goods and agricultural applications. A detailed safety briefing was then conducted by the Safety Officer, who discussed essential safety protocols, emergency procedures and safe working practices. Personal protective equipment (PPE) such as helmets, goggles and ear protection was provided to all participants before entering the production floor.

The guided plant tour offered students an in-depth understanding of the complete manufacturing workflow. The visit began at the raw material storage section, where students observed various types of polymer pellets, additives and masterbatches, along with the methods used for drying and feeding materials into the system. The next segment of the tour focused on extrusion and compounding processes, where twin-screw extruders were in operation. Engineers explained the importance of temperature control, screw design, feed rate and mixing characteristics that determine the mechanical and thermal behaviour of the final product. Students were able to directly correlate these observations with concepts studied in the classroom, particularly relating to heat transfer, viscosity and material flow behaviour.

The team then visited the moulding section, where injection moulding machines were functioning at full capacity. Students observed mould setup, clamping mechanisms, cycle time





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control and the role of automation in increasing production efficiency. The finishing section introduced students to trimming, cutting, surface finishing and inspection procedures. A visit to the Quality Control Laboratory was particularly enriching, where various tests such as Melt Flow Index (MFI), tensile strength, hardness and dimensional accuracy were demonstrated. Engineers explained how material formulations are adjusted to meet customer specifications and how quality assurance plays a crucial role in maintaining product reliability.

During the interactive session, students asked several technical questions regarding production challenges, waste minimisation, energy consumption and maintenance procedures. Industry professionals shared valuable insights on troubleshooting common defects such as warpage, sink marks and degradation in polymer products. They also highlighted modern industrial practices such as predictive maintenance, lean manufacturing and process optimisation techniques. The session motivated students to explore potential career opportunities in polymer technology, manufacturing engineering and quality assurance domains.

The overall industrial visit proved highly beneficial, as students gained practical knowledge and clarity regarding the industrial applications of polymers and modern manufacturing processes. Faculty members appreciated the organised manner in which the visit was conducted and noted that such field experiences significantly enhance students' understanding and technical confidence. The industry officials also expressed their willingness to collaborate further through workshops, internships and project support for final year students. The visit strengthened the relationship between the institute and the industry, supporting the objective of bridging the gap between theoretical learning and industrial expectations.

In conclusion, the industrial visit to Indapur Polymers Pvt. Ltd. was a productive and informative experience for the students of SE, TE and BE Mechanical Engineering. It broadened their understanding of polymer processing, manufacturing workflow, quality standards and industrial safety. The department extends its sincere thanks to the company officials for their support and hospitality, and to all faculty members for ensuring the successful completion of the visit. The event fulfilled its objectives and provided meaningful learning outcomes that will benefit students in their future academic and professional endeavours.

Dr. M.D. Jagtap

H.O.D
HEAD

Department of Mechanical Engineering
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Dr. S.T. Shirkande

Principal





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Photographs of Event





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