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Report of One-Day Industry Visit at Ambuja Cements Limited (Adani), Sankrail Plant

conducted by

Department of CE & T&P Cell

of

Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex

(An Autonomous Institute)

Title: One-Day Industry Visit at Ambuja Cements Limited (Adani), Sankrail Plant

Date & Time: 16.11.2026, 11.00 Am onwards

Venue: Ambuja Cements Limited (Adani), Sankrail Plant

Number of Participants: 30 B.Tech and Diploma Students from Department of CE

Objective: The primary objective of the one-day industry visit was to provide students with practical exposure to the cement manufacturing industry and help them understand the industrial processes involved in cement production. The specific objectives were:

1. To familiarise students with the various stages of cement manufacturing, including raw material handling, grinding, blending, processing, packaging and dispatch.
2. To bridge the gap between theoretical knowledge acquired in the classroom and its practical application in the cement industry.
3. To provide insights into the functioning of modern cement manufacturing plants, including the use of advanced machinery, automated systems and quality control techniques.
4. To help students understand the importance of cement properties, quality assurance and quality control in construction and infrastructure development.
5. To create awareness about industrial safety practices, environmental management and sustainable approaches adopted in cement manufacturing.
6. To expose students to industrial working environments and provide an opportunity to interact with industry professionals regarding career opportunities and future prospects in the cement and construction sectors

Brief Overview: The Department of Civil Engineering, in association with the Training & Placement (T&P) Cell of Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex, organised a one-day industry visit to **Ambuja Cements Limited (Adani), Sankrail Plant**, on 16th November 2026. A total of 30 students from the B.Tech and Diploma programmes of the Department of Civil Engineering participated in this educational visit.

The visit was organised with the objective of providing students with first-hand exposure to the operational activities of a cement manufacturing facility and familiarising them with the industrial practices followed in the production and distribution of cement.

During the visit, students were introduced to the overall functioning of the cement plant and the different stages involved in cement manufacturing. They gained an understanding of the importance of raw material selection, material processing, grinding operations, blending, quality monitoring and final product handling. The students were also exposed to the role of modern industrial equipment, automated systems and process monitoring in ensuring consistent product quality and efficient plant operations.

Special emphasis was placed on understanding the significance of cement quality in civil engineering applications, particularly in concrete production, structural construction and infrastructure development. The visit also provided an opportunity for students to appreciate the importance of laboratory testing, quality assurance procedures and adherence to prescribed standards in cement manufacturing.

Furthermore, the students were introduced to the importance of industrial safety, proper handling of materials, environmental considerations and efficient resource utilisation in large-scale manufacturing operations. The interaction with industry personnel helped students gain valuable insights into the practical challenges, technological advancements and professional requirements of the cement industry.

The visit served as an effective platform for experiential learning, enabling students to relate their academic knowledge of Construction Materials, Concrete Technology and Building Materials to actual industrial practices.

Outcome:

- The industry visit provided several academic and professional benefits to the participating students. The major outcomes are as follows:
- 1. **Practical Understanding of Cement Manufacturing:** Students developed a better understanding of the different stages of cement production and the functioning of a modern cement manufacturing facility.
- 2. **Application of Theoretical Knowledge:** Students were able to correlate the concepts studied in subjects such as Building Materials, Concrete Technology and Construction Materials with their practical industrial applications.
- 3. **Awareness of Quality Control Procedures:** Students gained an understanding of the importance of quality assurance, laboratory testing and process monitoring in maintaining the required quality and consistency of cement products.
- 4. **Exposure to Industrial Technology:** The visit familiarised students with modern machinery, material handling systems, grinding technologies and automated plant operations.

- 5. **Understanding of Industrial Safety:** Students developed awareness regarding workplace safety, precautionary measures and the importance of following safety protocols in industrial environments.
- 6. **Environmental and Sustainability Awareness:** Students gained insights into the importance of resource optimisation, energy efficiency, pollution control and environmentally responsible manufacturing practices.
- 7. **Industry–Academia Interaction:** The visit strengthened students' understanding of industry expectations and provided an opportunity to interact with professionals working in the cement manufacturing sector.
- 8. **Career Awareness and Professional Development:** Students received valuable exposure to the industrial working environment, helping them understand potential career opportunities in cement manufacturing, quality control, construction materials and allied sectors.

Conclusion

- The one-day industry visit to Ambuja Cements Limited (Adani), Sankrail Plant, was a valuable learning experience for the 30 participating B.Tech and Diploma students of the Department of Civil Engineering. The visit successfully complemented classroom-based learning by providing practical exposure to cement manufacturing processes, industrial equipment, quality control practices, safety measures and environmental considerations.
- The programme helped students develop a better understanding of the relationship between cement manufacturing and its applications in civil engineering projects. Such industry-oriented initiatives play an important role in enhancing technical knowledge, developing professional awareness and strengthening industry–academia collaboration.
- The Department of Civil Engineering and the Training & Placement Cell express their sincere gratitude to the management and technical personnel of Ambuja Cements Limited (Adani), Sankrail Plant, for facilitating the visit and providing the students with this valuable industrial learning opportunity.

Few glimpses of the session-

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