

SWAMI VIVEKANAND INSTITUTE OF ENGINEERING & TECHNOLOGY

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INDUSTRIAL VISIT - MOTI BRICK KLIN

Organizer's Name: Department of Civil Engineering

Coordinator: Er. Kaushik Bharti / Er.Mukesh Kumar

Date: 12th February 2025

Venue: Moti Bricks Klin,Rajgarh,Patiala, Punjab 140417

Introduction of the Event:

On 12th February, Department of Civil Engineering organized an industrial visit to Moti Bricks Klin, Rajgarh, Patiala, Punjab.industrial visits provide students and professionals with practical exposure to manufacturing processes, machinery, and industry operations. A visit to Moti Bricks Klin offered valuable insights into the traditional and modern techniques used in brick production, which plays a crucial role in the construction industry.

During this visit, participants observed the step-by-step process of brick making, from raw material selection to molding, drying, and firing in kilns. They also gained knowledge about the different types of bricks, quality control measures, and the environmental impact of brick manufacturing. This hands-on experience will help bridge the gap between theoretical learning and real world application, enhancing technical understanding and appreciation of the industry's role in infrastructure development.



Gathering of staff & all students for industrial visit in campus

Objective of the Event:

- The primary objectives of the session were:
- Understanding the manufacturing process of Brick step-by-step.

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- Studying raw materials: like types of clay and other materials used in Brick manufacturing.
- Exposure to machinery and modern technologies.
- Understanding Quality control measures and Safety measures.
- Understanding how to waste materials are managed and utilized

Factory Overview:

During the visit, we explored different sections of the factory, including raw material storage, molding units, drying areas, kiln sections, and packaging zones. The factory followed traditional and modern techniques to produce high-quality red bricks.

Manufacturing Process Observed:

1. **Raw Material Preparation** – Clay and other materials were sourced and refined.



Mixing of Clay, Sand and Water



Transportation after mixing

2. **Molding** – Bricks were shaped using hand molds and automated machines

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Placing the clay in brick mold

3. Drying – The molded bricks were left to dry naturally or in drying chambers.



Drying of bricks in sunlight

4. Firing in Kilns – Dried bricks were stacked in kilns and heated at high temperatures



How coal is added in Klin for maintaining temperature

5. Quality Testing & Packaging – Finished bricks were inspected for strength and durability being packed for distribution

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Klin Manager Showing Soundness of Bricks

Key Learnings from the Visit:

- The importance of selecting the right clay for durable bricks.
- Different types of kilns used in the firing process.
- Quality control measures such as strength and water absorption tests.
- Environmental concerns related to emissions and sustainable practices.

Industrial Safety Measures:

The factory followed safety protocols such as wearing protective gear, proper ventilation, and fire safety measures to ensure worker well-being.



All students and staff in Bricks Klin

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Key Outcomes:

The visit to the Moti Bricks Klin was highly informative and provided all knowledge with valuable insights into the brick manufacturing industry. It enhanced our students understanding of industrial processes, quality standards, and sustainability practices. Overall, it was a great learning experience that helped students relates academic concepts to real-world applications._



(Er. Kaushik Bharti)
Faculty In-charge



(Ms. Shivani Guleria)
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