

Event Report

1. Event Title: An Industrial Visit organized by Electrical & Electronics Department ,SOET, Sandip University , Nashik at 33/11 kV Substation, Sharanpur road ,Nashik

2. Event Date: 21/02/2025

3. Event Conduction Duration: 10:00 am to 3:00 pm

4. Event Mode: Field Visit

5. Event Resource Person Details:

6. Name of Event Coordinator:

Dr. Mangesh Nikose - HOD, EEED, Sandip University, Nashik

Mr. Harshal Chaughule – Assistant Professor, EEED, Sandip University, Nashik

Dr. Adarsh Kumar – Associate Professor, EEED, Sandip University, Nashik

Mr. Yogesh Kahandal – Technical Assistant, EEED, Sandip University, Nashik

Mr. Nitesh Mahale – Technical Assistant, EEED, Sandip University, Nashik

& All EEED staff.

Report Prepared By : Mr. Yogesh Kahandal ,TA , EEED, SOET

6. Event Outline & Outcome of the event:

Introduction:

The Electrical & Electronics Department of the School of Engineering and Technology (SOET), Sandip University, Nashik, organized an industrial visit to the 33/11 kV Substation located on Sharanpur Road, Nashik, on 21st February 2025. The visit aimed to bridge the gap between theoretical knowledge and practical application, providing students with firsthand exposure to substation operations and power distribution systems.

Objective of the Visit:

The primary objective of the visit was to familiarize students with the working mechanisms of an electrical substation, its components, and the overall process of power transmission and distribution. It also aimed to enhance students'

understanding of safety protocols, equipment handling, and load management.

Schedule and Activities:

The visit commenced at 10:00 am with a brief introduction to the substation by the site engineer. The students were divided into smaller groups for a more personalized and interactive session. The key activities included:

- Overview of the Substation: Understanding the layout, single-line diagrams, and equipment arrangement.
- Transformer Operations: Explanation of step-down transformers and their role in voltage regulation.
- Circuit Breakers and Switchgear: Demonstration of protection devices, isolators, and breakers.
- Control Room Visit: Observation of monitoring systems, SCADA operations, and fault detection mechanisms.
- Safety and Maintenance Practices: Insights into safety measures, periodic maintenance schedules, and emergency protocols.

Learning Outcomes:

The visit proved to be highly informative, enriching students' knowledge of substation architecture and functioning. Key takeaways included:

- Practical understanding of power flow from the grid to end consumers.
- Real-time exposure to electrical components like CTs, PTs, relays, and capacitors.
- Importance of proper grounding and earthing techniques for operational safety.
- The role of automation and remote monitoring in modern substations.

Conclusion:

The industrial visit to the 33/11 kV Substation on Sharanpur Road was a valuable learning experience for the students of the Electrical & Electronics Department. It successfully complemented their academic curriculum with practical insights, preparing them for future roles in the power sector. The department extends its gratitude to the substation authorities for their cooperation and willingness to share their expertise, making this visit a memorable and impactful event.

Acknowledgements:

We sincerely thank the management of Sandip University, the faculty coordinators, and the substation staff for organizing and facilitating this educational visit. Their support and guidance were instrumental in making the event a resounding success.

Event photos:







