



BIS Standards Club's Exposure Visit to Associate Cables Pvt. Ltd, Chiplun

The Department of Electrical Engineering, in association with the Standards Club, BIS, organized an industrial visit to **Associate Cables Pvt. Ltd., Chiplun** on **03 February 2025**. A total of **25 students** participated in this visit, accompanied by the **faculty mentor Prof. Nikhil N. Kasar**. The visit aimed to bridge the gap between theoretical knowledge and practical industry applications by exposing students to the **standards used in cable manufacturing and BIS testing procedures**. Additionally, it sought to provide insight into career opportunities within the electrical industry.

The journey commenced at **7:45 AM** as the students and faculty departed from the college campus. During the trip, students were briefed on the visit's objectives and the significance of BIS standards in the cable industry. The bus reached **Associate Cables Pvt. Ltd. at 10:45 AM**, where the students were warmly welcomed by company representatives. Refreshments were arranged for the visiting team before proceeding with the day's agenda.

The session began with a **welcome address and industry briefing by Mr Rameshwar Mahale, the Plant Head**. He provided a comprehensive overview of the **industry's policies, manufacturing processes, and safety protocols**.

Following the briefing, the students were taken on a detailed tour of the **cable manufacturing units**. They observed the various stages of production, including raw material selection, extrusion, sheathing, and final testing of cables. A highlight of the visit was an in-depth demonstration at the **Testing Laboratory under BIS**, where students witnessed key quality control tests such as:

- **Flammability Test:** Evaluating fire resistance properties of cables.
- **Tensile Test:** Assessing the mechanical strength and durability of cables.
- **LCR Parameter Test:** Measuring inductance (L), capacitance (C), and resistance (R) values.
- **Smoke Test:** Determining the amount of smoke generated under fire conditions.
- **High Voltage (HV) Test:** Checking insulation properties under high voltage conditions.

These tests gave students a practical understanding of the stringent safety and performance standards that cables must meet before being introduced into the market. The visit also included a tour of the **Forklift Area**, where students gained insights into material handling techniques within an industrial setup. The importance of safety protocols in forklift operation was explained, reinforcing the role of structured logistics in manufacturing industries.

As the visit concluded, **Prof. Nikhil N. Kasar delivered a vote of thanks**, expressing gratitude to Associate Cables Pvt. Ltd. for their hospitality and the detailed insights provided. He extended appreciation to **Mr Rameshwar Mahale and his team** for their efforts in visiting a success.



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The entire visit was **sponsored by the BIS Office, Mumbai Branch**, ensuring that students could participate without financial concerns. The event was coordinated by **Prof. Nikhil N. Kasar** under the guidance of **Dr. Jayant J. Mane, Head of the Department (HOD), Electrical Engineering**. Special acknowledgement was given to **Mr Sahil Yadav and Mr Pushendra Mishra, BIS Promotion Officers from the Mumbai Branch**, for their support in organizing the visit.

Throughout the day, students were provided with **breakfast and lunch**, ensuring a comfortable and engaging experience. After a fulfilling and educational visit, the team departed from the plant, arriving back at the **college campus at 5:30 PM**.

The students shared **positive feedback**, stating that the visit was **highly informative and beneficial** in understanding the real-world application of electrical engineering principles. Many expressed a newfound interest in **cable manufacturing and BIS standards**, recognizing their relevance in future career opportunities.

Glimpses of visit:



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A Group Photo was taken during the IV.



Visit to Cable Testing Lab by BIS



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Visit to Cable Manufacturing units



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Visit to Cable Manufacturing units



A group photo was taken on campus before the departure of the bus for IV.

Report Prepared by:

Standards Club, BIS

Department of Electrical Engineering, FAMT