

## **Report on Expert Session**

**Topic:** Industrial Exposure Visit – Vinayak TMT Bars Pvt. Ltd., Interaction with BIS Officials and Laboratory Visit at IIT Gandhinagar

**Date:** 05<sup>th</sup> April 2025

**Time:** 10.00 AM - 5.00 PM

**Venue:** Vinayak TMT Bars Pvt. Ltd., Kadi and IIT Gandhinagar

### **Event Summary**

GTU School of Engineering and Technology, under the aegis of the Bureau of Indian Standards (BIS), Ahmedabad, organized an exposure visit for Civil Engineering students. The event was conducted as part of the BIS Club activities and comprised three major components: an industrial visit, an expert interaction, and a laboratory tour.

#### **1. Industry Visit – Vinayak TMT Bars Pvt. Ltd. (10:30 AM – 12:00 PM)**

Students visited Vinayak TMT Bars Pvt. Ltd., a prominent steel manufacturing unit in Kadi. The technical team briefed the students about the end-to-end process of TMT bar production including:

1. Raw material inspection and billet preparation
2. Rolling and quenching process
3. Mechanical and chemical testing as per BIS guidelines

The session emphasized the role of standardized processes and BIS certification in ensuring product quality and structural safety.

#### **2. Interaction with BIS Officials at IIT Gandhinagar (2:00 PM – 4:00 PM)**

After lunch at IIT Gandhinagar, students attended a workshop titled “Building Futures – Standards for Civil Engineering”. BIS officials conducted an engaging session highlighting:

1. The importance of standardization in the construction industry
2. Overview of key Indian Standards related to civil engineering
3. BIS certification, and quality assurance.

The session provided a deep understanding of how standards influence project safety, sustainability, and innovation.

#### **3. Laboratory Visit – Geotechnical Engineering Lab, IIT Gandhinagar (4:00 PM – 5:00 PM)**

The visit concluded with a tour of the Geotechnical Engineering Laboratory at IIT Gandhinagar. During the lab session, students explored:

1. Soil classification and testing apparatus
2. Direct shear, tri-axial, and unconfined compression testing setups
3. Demonstrations on bearing capacity and soil compaction analysis

This visit offered insights into the behavior of soil under various loading conditions and the relevance of geotechnical investigation in structural design.

The exposure visit effectively linked theoretical knowledge with real-world applications. By engaging with industry professionals, standardization experts, and academic researchers, students enhanced their understanding of the civil engineering domain. The initiative successfully underscored the critical role of BIS standards in modern construction practices.

The visit was attended by 24 students and coordinated by Prof. Mridul Seth & Prof. Rasik Makwana under the guidance of Prof. (Dr.) Jignesh amin, Professor GTU-SET.

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## Glimpses of Event

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