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Date: Nov. 04, 2023

Industrial Visit Report

SE-Civil

A REPORT ON CONSTRUCTION SITE VISIT

Department of Civil Engineering in association with CESA

Late G. N. Sapkal College of Engineering, Nashik.

Date: Nov. 04, 2023

Class: SE

No. of Teachers: 02

Mode of Transportation: Bus

Travelling Distance: 20 km (One Side)

Purpose: To provide students with an opportunity to observe and learn about construction activities firsthand

Figure 1 Students engaged in discussion

Introduction

The Civil Engineering Students Association with the Department of Civil Engineering of the late G. N. Sapkal College of Engineering, Nashik, organized a one-day visit to an ongoing construction site in Nashik on November 04, 2023, for the students of the second-year Civil Engineering (BE) course. This visit was conducted with the prior approval and guidance of the eminent Principal Dr. S. B. Bagal and the Head of the Department of Civil Engineering Prof. K. A. Salunkhe. The purpose of the visit was to allow students to observe and learn about various construction activities firsthand, which would complement their theoretical knowledge gained in the classroom.

Observations

Construction site with all the equipment

- Site preparation: The site was cleared of vegetation and debris, and the ground was leveled.
- Footings and foundation: Excavation was carried out for the footings and foundation of the structure. Reinforcement bars were placed in the excavated trenches and concrete was poured.
- Superstructure: The superstructure was being constructed using brickwork and concrete. Scaffolding was erected to provide access for workers and to support the construction materials.
- Roofing: The roof was being constructed using prefabricated trusses and metal sheeting.
- Finishing: The exterior walls were being plastered and painted. Doors and windows were being installed.

Figure 2 Detailing of Reinforcement

Equipment and materials observed on the site:

- Excavator
- Concrete mixer
- Crane
- Scaffolding
- Bricks
- Cement
- Sand
- Steel bars
- Formwork
- Roofing materials
- Paints and plasters

Students' engagement

Students were actively engaged in observing the construction activities and asking questions to the site engineer and Professor Patil. They were particularly interested in the following aspects of the construction process:

- Site layout and planning
- Selection of materials and equipment
- Construction methods and techniques
- Quality control and safety procedures

Learning outcomes

The visit to the construction site provided students with a valuable opportunity to:

- Apply their theoretical knowledge to real-world situations.
- Gain a better understanding of the construction process.
- Develop their problem-solving and critical thinking skills.
- Enhance their communication and teamwork skills.

Figure 3 A Picture with the Site Engineers

Conclusion

The construction site visit was a successful learning experience for the students. They gained valuable insights into the construction industry and developed a deeper appreciation for the complexity and challenges involved in constructing buildings and structures.

Recommendations

- It is recommended that similar site visits be organized for future students to provide them with hands-on learning experiences.
- The college should consider collaborating with local construction companies to provide students with internship opportunities.