

Engineering in Action: A Field Visit to PNC Infratech, Gwalior

INTRODUCTION

The Department of Civil Engineering organized a field visit to the PNC Infratech Project, Gwalior, on September 21, 2026, providing students with valuable practical exposure to modern highway and bridge construction practices.

Students observed precast, prestressed and post-tensioned concrete construction, including PSC girder fabrication, reinforcement, prestressing arrangements, girder erection and deck slab construction. The visit also helped them understand construction quality control and safety practices.

The Department sincerely thanked Mr. Deep Singh, Site In-charge, for his valuable guidance and support during the visit.

OBJECTIVES -

To provide students with practical knowledge of modern highway and bridge construction, with particular emphasis on precast concrete construction, prestressed and post-tensioned concrete, PSC girder fabrication, reinforcement and prestressing arrangements, girder transportation and erection, bridge bearings, and deck slab construction.

LEARNING OUTCOMES -

Main outcomes of this visit are -

- Understand the modern methods and techniques used in highway and bridge construction.
- Understand the concept of prestressed and post-tensioned concrete structures.
- Gain practical knowledge of PSC girder fabrication, reinforcement, and prestressing arrangements.
- Understand the procedures involved in transportation, lifting, and erection of PSC girders.
- Relate theoretical knowledge with actual field construction practices, quality control, and safety procedures.

Thanks & Regards
Dr. Manoj Sharma
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