

LUKHDHIRJI ENGINEERING COLLEGE, MORBI

Civil Engineering / Applied Mechanics Department

Dt:13/08/2026

Site Visit Report

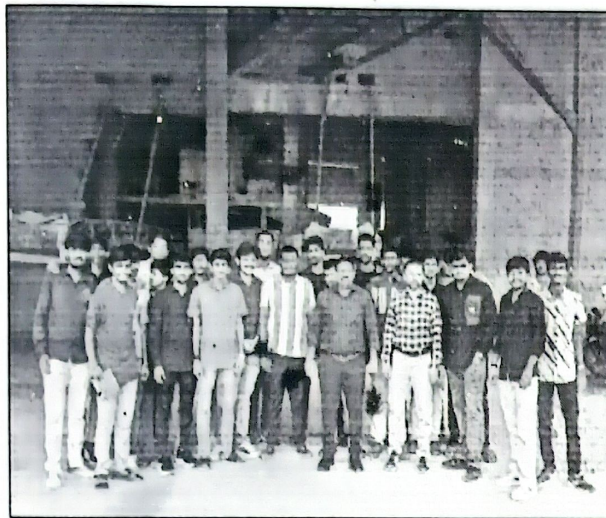
An industrial visit to AURA Fiber LLP, Lalpar, Morbi was successfully organized for 53 students of the Applied Mechanics /Civil Engineering Department, Lukhdhirji Engineering College, Morbi, on 13th August 2026. The visit was organized with the objective of providing students with practical exposure to Glass Fiber Reinforced Polymer (GFRP) reinforcement, its manufacturing process, properties, quality aspects, and applications in civil engineering. During the visit, the technical personnel of AURA Fiber LLP guided the students and explained the various stages involved in the manufacturing of GFRP products. The visit provided an opportunity for students to understand the growing importance of advanced composite materials in modern construction.

The students were introduced to the basic raw materials used in the production of GFRP reinforcement, particularly fiberglass roving and resin, and were explained how these materials are processed to manufacture reinforcement products. They observed the manufacturing facility, production machinery, continuous arrangement of glass fibers, processing of GFRP reinforcement, and storage and handling of finished products. The students were also introduced to different products manufactured by the company, including GFRP Rebars, GFRP Bent Bars, and GFRP Mesh. The visit enabled them to observe the industrial production environment and understand the importance of maintaining consistency and quality during the manufacturing process. Special emphasis was given to the engineering properties and advantages of GFRP reinforcement. The technical personnel explained important characteristics such as high tensile strength, corrosion resistance, lightweight nature, non-conductivity, non-magnetic behaviour, durability, and low maintenance requirements. Students also learned about the differences between conventional steel reinforcement and GFRP reinforcement. They understood that the corrosion-resistant nature of GFRP can be particularly useful in structures exposed to moisture, chemicals, marine environments, and other aggressive exposure conditions.

The students were also briefed about various civil engineering applications of GFRP reinforcement, including bridges and flyovers, highways and pavements, marine and coastal structures, water-treatment facilities, tunnels and underground structures, and industrial infrastructure. The interaction with industry personnel helped the students understand the practical considerations associated with the manufacturing, handling, selection, storage, and application of GFRP reinforcement. The visit also created awareness about the increasing use of advanced composite materials as alternative reinforcement solutions for improving the durability and service life of infrastructure. During the interaction, students had an opportunity to discuss technical aspects of GFRP products and clarify their queries with the industry personnel. They gained useful exposure to the relationship between material properties, manufacturing practices, durability requirements, and field applications. Such industrial exposure is valuable in bridging the gap between classroom-based theoretical concepts and their practical implementation in engineering industries.

Overall, the industrial visit was highly informative and beneficial, enabling students to correlate their theoretical knowledge of construction materials and composite technology with actual industrial practices. The visit enhanced their understanding of GFRP materials, manufacturing processes, engineering properties, advantages, handling practices, and their emerging applications in civil engineering. It also provided valuable exposure to modern construction materials and helped students appreciate the role of innovative, durable, and corrosion-resistant materials in the development of sustainable civil engineering infrastructure.

Glimpse of Site Visit



Yours

PROF. M. S. K. SINGH
 20/11/2020
 10/11/2020