Report on Industrial Visit to Mohite Industries Hydropower Plant, Radhanagari dam

On September 27, 2024, the students of the Second Year B. Tech Aeronautical Engineering visited the Mohite Industries Hydropower Plant as part of an industrial trip. The visit was organized by the university, and a bus was arranged to transport students from the campus. The journey began at 10:00 a.m.

Mohite Industries operates a 10 MW hydropower facility driven by a vertical axis Francis turbine. This visit was highly relevant to our fluid mechanics curriculum, as it allowed us to see the practical application of concepts like energy conversion, fluid flow, and turbine operation in real-world industrial settings. A detailed explanation was provided by the plant engineers, who took us through the process of generating electricity using water from a nearby Bhogawati river.

The engineers explained how the water's potential energy is harnessed, channelled through penstocks, and directed onto the blades of the Francis turbine. The vertical axis of the turbine, coupled with a generator, converts the mechanical energy of the spinning turbine into electrical energy. We were able to observe the turbine in operation and learned how the plant manages efficiency through flow control mechanisms and regular maintenance.

The industrial visit concluded by 4:30 p.m., and we returned to the university campus by 6:00 p.m. Overall, the trip was highly educational and provided valuable real-world exposure to the theoretical knowledge gained in class.

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