Department of Mechanical Engineering

Industry Name:	**Dahanu Thermal Power Station**
Place of Visit:	**Dahanu**
Date of Visit:	**18/09/2017**
Time:	**12:00 pm Onwards**

Programme Summary/Details:

On 18th September 2017, the second-year students of mechanical engineering from Division A and B had the opportunity to visit the Dahanu Thermal Power Station (DTPS) in Maharashtra, India. The visit was organized to provide students with a practical understanding of the various processes involved in a coal-based thermal power plant. Located in the coastal town of Dahanu in Palghar district, DTPS is strategically situated on the Mumbai-Ahmedabad rail line and is 120 km away from Mumbai. During the visit, the students were able to witness the coal handling and washing processes in action. They observed how coal, the primary fuel for power generation, was received, stored, and transported within the plant. The representatives explained the importance of coal washing to remove impurities and ensure optimal combustion efficiency. This practical demonstration provided valuable insights into the crucial initial stages of power generation. The students were then taken to the heart of the power plant, where they witnessed the operation of the boilers. The representatives elaborated on the significance of boilers in converting water into high-pressure steam, which drives the turbines to generate electricity. They explained the different types of boilers used and highlighted the safety measures implemented to ensure smooth operations. This firsthand experience allowed the students to comprehend the complexities of power generation and the role of mechanical engineering in the process

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