

Visit Report

Industrial Visit- Visit to Thermal Power Plant, Dahanu

1. **Event Title:** Industrial Visit Organized by Electrical and Electronics Engineering Department , SOET, Nashik at Adani Thermal Power Plant , Dahanu.

2. **Event Date:** 7th NOV 2022

3. **Event Conduction Duration:** Full Day

4. **Event Mode:** Field Visit

5. **Event Resource Person Details:**

Mr. Shubham Sonar
Assistant Engineer,
Adani Thermal Power Plant,Dahanu

6. **Name of Event Coordinator with contact details:**

Mr. Harshal Chaughule & Mr. Harshal Shelar, Assistant Prof.,EEED,SOET,Nashik.

Report Prepared By : Mr. Yogesh Kahandal ,TA , EEED, SOET

7. **Event Outline & Outcome of the event:**

Objective of Program:

The Objectives of this Industrial Visit:

1. To learn the functioning of a coal based steam power plant.
2. Understanding the coal to electricity cycle.
3. Understand the best and sustainable practices in running a coal based power plant.
4. To understand better the concept of Power Station

Various Thermal Power Plant Equipments : 1. Coal Handling Plant 2. Ash Handling Plant 3. Boiler 4. Super heater 5. Air Pre-heater 6. Economizer 7. Turbine 8. Chimney 9. Feed Pump 10. Generator (Alternator) 11. Switch Yard 12. Exciter 13. Condenser 14. Transformer 15. Wagon Tippler

Output of Program:

Adani - Dahanu Thermal Power Station (ADTPS), consisting two units of 250 MW, is one of the best power generation plants in the country, which commenced its commercial operations in January 1996. Recognized with innumerable awards, this power plant is known for its distinctive features that set it apart from others in terms of technological innovation, superior performance and continuous sustainability for a longer period. ADTPS is located around 120 km north of Mumbai along Mumbai-Ahmedabad rail line.

The plants utilise a mix of Indian washed coal and imported coal as fuel. The general blending ratio is 80 : 20. The indigenous fuel is received from SECL (Korba) and also imported from various countries such as Indonesia and South Africa among others.

Adani - Dahanu Thermal Power Station has implemented integrated management systems (IMS) in its processes and is certified for quality management, environment management, occupational health and safety assessment studies, social accountability management, information security management, energy management and accreditation for ADTPS coal testing laboratory.

It was a great experience to actually take a look at whatever we had studied in theory and study the coal to electricity cycle in detail. It gave us a new perspective about our branch, Electrical and Electronics Engineering, and strengthened our concepts of Power Station Practices.

Number Students Attended: 50

7. Event photos:

