

Industrial Visit Report

Name of industry: Adani Port, Mundra, Gujarat

Date of Visit: 14th and 15th April 2025

Level of visit: Institute

No. of days: 2

Organized by: Instrumentation & Control Dept. & Mechanical Dept.

Faculty coordinators:

Instru. & Control Dept.

1. Dr. Tejal Joshi
2. Prof. Nandkishor Joshi

Mechanical Dept.

1. Prof. Rahul Painter
2. Prof. Nilesh Patel

Participants: I&C Students & Mechanical Students

No. of students: 52 (I&C and Mech.)

An industrial visit was arranged to Adani Port, Mundra, Gujarat, on 14th and 15th April 2025 by Instrumentation & Control Dept. & Mechanical Department. Participant students were from 2nd year Mech. and 2nd, 3rd and 4th year of IC Department. The students reached Ahmedabad Station on 13th April night. From there, bus of Adani company picked students. After completing visit, it again dropped them at the same place on 15th April Night. On the first day, students visited Wilmar and Adani port & SEZ. On the second day, students visited West Port, Adani solar, and Adani thermal power plant.

Adani Ports and Special Economic Zone Limited (APSEZ) is located in the Gulf of Kutch on the west coast of India, situated 60 km west of Gandhidham in Kutch district of Gujarat. It is the largest among all ports of APSEZ and acts as a gateway for north-western India. It is ideal for global trade due to multiple benefits. It is situated enroute most international shipping destinations. The gulf acts as a natural shelter for the port, facilitating 24x7 safe berthing, unberthing and vessel operations. The port also provides a distance advantage to the northern and western hinterland of India vis-a-vis other ports. This makes it the natural gateway for the cargo hubs functioning in the northern and western states of India as well as the NCR. APSEZ is part of Adani Group with businesses spanning coal trading, coal mining, oil & gas exploration, ports, multi-modal logistics, power generation & transmission and gas distribution.

Coal mining:

Berths :

Three dedicated mechanised berths with a quay length of 1120 metres and an annual capacity to handle nearly 60 million tonnes annually. Deep-draft berths (19.5 meters at the berth face in phased manner) to cater to fully-laden cape-size vessels

Conveyors :

21 kms of dedicated conveyor systems with 7.5 metres per second conveying speed for transporting cargo from the jetty to backup and backup to cargo evacuation points. The conveyor system has a capacity to transport 6000 tonnes cargo per hour.

Ship loaders / unloaders:

Seven grab ship unloaders (GSU) with ___ CBM grabs. Each GSU has a rated capacity to discharge 2000 tonnes cargo per hour.

Coal stack pile

Well planned coal stack piles for storage of coal Dedicated storage yard with a (Phase I) capacity to store is 3.2 million tonnes cargo. Cargo is stored customer-wise and grade-wise in designated storage yards.

Stacker reclaimers :

Three stacker reclaimers with 6000 tonnes per hour stacking capacity and 2500 tonnes per hour reclaiming capacity and one reclaimer with 2500 tonnes per hour reclaiming capacity.

Fully automatic control system

Fully mechanised control system for coal yard operations

Truck loading system

Mechanised truck loading system consisting 3 silos and daily capacity to load 12000 tonnes The visit was very useful and informative. Students gained detailed knowledge about various plants of Adani. Students also got vast exposure to technologies of port. Adani visit should be arranged for every batch.

Glimpses of the visit can be seen below:



