

Sarvajanik College of Engineering & Technology

Information Technology Department

Report on Industrial Visit to Adani Port Pvt. Ltd. (Hazira)

The Information Technology Department organized an industrial visit to Adani Port Pvt. Ltd. at Hazira (AHPPL) under the Project UDAAN by Adani Foundation. Udaan is a learning based initiative focused on the youth coming from various schools/colleges across the state of Gujarat. Under this project, an exposure tour is organized wherein students are given a chance to visit the Adani Port and Adani Power facilities at the Hazira site and to get an insight into the large scale business activities carried out there.

The main objective of this industrial visit was to encourage young would-be engineers to develop an interest in all sorts of enterprises and gain an insight into the I.T. operations undertaken for the management and automation of a large-scale port.

The visit was commissioned on 26th February 2018. A total of 53 students of B.E. II (Information Technology) benefited from the visit. The students were accompanied by faculty members Dr. Mita Parikh and Prof Apurva Bharat Mandalaywala.

Key takeaways from the Industrial Visit

1. A fruitful discussion was undertaken with HR Managers at Adani Port, about the importance of I.T. in the field of logistics and the overall development of the industry
2. Students visited the fire safety department and were given a demo of equipments used to ensure safety measurements
3. Students visited the marine control room and observed the operations there
4. Finally the students were taken to visit and observe the entire port area from the bus

About Adani Group

The Conglomerate Adani Group consists of Adani Foundation, Adani Power, Adani Renewables, Adani gas, Adani Transmission, Adani Energies, Adani Agri Logistics, Adani Australia, etc.

About Adani Hazira Port Private Limited

1. Spread over 25 kms area.
2. India's Largest Coal Storage Hub
3. India's Largest Port based Manufacturing Hub
4. India's Largest Commercial Port Company

Adani Hazira Port Businesses

It comprises of Industrial Land, Logistics and Port & Terminals. Adani Ports and Special Economic Zone Limited (APSEZ) operates ports in Hazira, Mundra, Dahej, Dhamra, Kattupalli and terminals in Visakahapatnam, Mormugao and Kandla (Tuna-Tekra).

Services and Commodities handled at Adani Hazira Port

1. Liquid Cargo (Liquid, Crude)
2. Break Bulk Cargo (Steel, Project Cargo, Timber)
3. Dry Bulk Cargo (Coal, Agri., Minerals, Fertilizer)
4. Dredging Marine Services
5. Container Cargo (Containers, RoRo)

Fire Safety Building at Adani Hazira Port

The students were given an in-depth knowledge of Fire Safety Rules and Regulations by the stationed fire safety engineers. They demonstrated various safety equipments. The list is as follows:

1. Safety Shoes
2. Mask
3. Safety Helmet
4. Safety Rope
5. Sea Safety Jackets
6. Hammer, Spanner and other tools
7. Cartage Jacket (CO₂)
8. Headphone with noise cancellation
9. Glass
10. Spark Resistor Filter
11. Spelage Kit
12. LUX Scale Meter
13. CFB Kit (Face mask, Cylinder, Back Plate)

Brief Description of the Industrial Visit

We reached the Adani Hazira Port at 9:45 am by AC bus. Breakfast was offered at the Canteen Amenity. A brief presentation regarding the Adani Group was delivered by Mr. Mehul Parmar, Manager, HR Operations and Mr. Abhishek Sukhwal, Project Officer, CSR, Adani Foundation. They commenced the session with the Adani Anthem which rejuvenated all of us present there. AHPPL has its own cape-size vessels and the company deals with an import-export business of coal and has its own thermal power plant, CNG plant, LPG plant and Solar plants across India. Adani is one of India's fastest growing conglomerates.

The students were briefed about the Hazira Port. 15,000 to 20,000 Containers are transported per ship. Then we moved to fire safety department. Mr. Kinjal Patel, Fire Safety Engineer briefed about the rules and regulations at the AHPPL regarding fire safety norms. We saw different fire safety equipments and its utilities. There are eight assembly points at the company and in case of a catastrophe, workers can move to the nearest assembly point to ensure safety. The port has 169 liquid tanks and the handling of liquid is carried through pipelines directly from the ship. The port also comprises of steel yard, coal yard and bulk yard.

Then students were taken to visit and observe the entire port area via bus. We observed the 2.5 kms long conveyer belt used for easy handling of heavy goods. We saw mammoth containers of 20 to 40ft sizes. The entire port works on automation, so the staff size is approximately 250. During any probable cyclone prediction, all the vessels are called off-shore and the company undertakes an efficient safety measures to avoid any catastrophe.

Then we were taken to the Marine Control Room. They use the software "Automatic Identification System" which uses GPS technique for the positioning of the vessel. Every vessel has a unique IMO (International Maritime Organization) number and is registered through that number. The communication device works on UHF for 5-6 kms and on VHF for 120 kms. Approximately 100 ships are handled at the port per month. That implies 3-4 ships per day.

Afterwards we took lunch at the Canteen Amenities, followed by a group photo and departed for SCET. In a nutshell, the overall experience was memorable. We extend gratitude to the Adani Group, Adani Foundation for providing us a wonderful opportunity to visit their esteemed industry.

Some Glimpses of the Visit

