



Shankersinh Vaghela Bapu Institute of Technology

(Affiliated to Gujarat Technological University, Approved
by AICTE, www.bapugkv.ac.in)
(Gandhinagar-Mansa Road, PO. Vasan, Gandhinagar District, Gujarat, Pin.
382650)

A Report on “Industrial Visit at Adani Ports and Special Economic Zone Limited and Adani Power Plant”

4th and 6th SEMESTER

Organized By

Mechanical Engineering Department

Industrial Visit Details

S. No.	Content	Description
1.	Title	Adani Ports and Special Economic Zone Limited and Adani Power Plant
2.	Date	26 th Jan. 2019 to 27 th Jan. 2019
3.	Place & Distance	Adani Enterprise, Mundra, Kutchh (Gujarat), 374 km
4.	Introduction & Objective	<p>Adani Ports and Special Economic Zone Limited (APSEZ) is India's largest private multi-port operator. It is a part of the Adani Group, an integrated infrastructure corporation. The company (earlier known as Mundra Port & Special Economic Zone Ltd.) changed its name to Adani Ports and Special Economic Zone Limited on January 6, 2012. The company commenced operations at Mundra Port and currently operates 10 ports in India comprising 45 berths and 14 terminals across 6 states.</p> <p>1. Adani Port: Adani Ports, India's largest port company had a very modest beginning in 1998 with just two berths at Mundra, in the Gulf of Kachchh in Gujarat, India. The scale and size of growth in Mundra port is unparalleled which today has 24 berths and is India's largest port. Mundra Port is a deep draft, all-weather port with a high degree of mechanization. It is the only port in the India which has handling and storage facilities for automobile, crude oil, Logistic containers, dry bulk, break bulk and liquid cargo. Mundra can berth the largest post panamax vessel and can handle four million TEUs or Twenty feet Equivalent Unit.</p>

2. Adani Wilmar :

Adani Wilmar Limited (AWL) is a joint venture incorporated in January 1999 between Adani Group & Wilmar International Limited - Singapore. The company has the largest range of edible oils spanning across the categories of Soya, Sun, Mustard, Rice bran, Groundnut, Cottonseed and the company has extended its basket of offering with the introduction of the revolutionary oil – Vivo, India’s first oil for Diabetes care. In this refinery there a pipeline of 6 km which lead raw from the port to directly into the unit. We could explore information about the oil refining process steps such as crushing, Bleaching, Filterisation, Deoderization etc then after to the packaging section of tin canisters as well as the plastic bottles. On our way each one could see the oil being filled in the bottles by automated machines. Samples of oil at its different stages were shown. In the refinery they refine the oil and packing in the different type of packaging unit fully automatically.

3. Adani Power Plant:

A 4620 MW (4x330, 5x660 MW) coal-based thermal power plant at Mundra, Kutch district, Gujarat. This power plant has the Lowest Area/ MW coal based power plant in India This plant is fully functional. Adani Power created history by synchronizing the first super-critical technology based 660MW generating unit at Mundra. This is the first super-critical generating unit in India. The Mundra power project is also the fastest project implementation ever by any power developer in the country with a record completion of inception to synchronization within 36 months. The Phase III of the Mundra Project has received ‘Clean Development

		<p>Mechanism (CDM) Project' certification from United Nations Framework Convention on Climate Change (UNFCCC). This is the world's first thermal project based on supercritical technology to get registered as CDM Project under UNFCCC. Out of 4620 MW they are supplying 2000 MW to Haryana , 2000 MW to Gujarat and 620 MW internally use. In the power plant, students have visited the control panel, boiler and some complex structure of the piping for the water and steam.</p> <p>4. West Basin: There is a 11 km long conveyor belt for transmission of the coal from ship container to the power plant coal storage area. It is one of the best example of material handling equipment continuously.</p>
5.	Work Plan	<p>At Adani Mundra students went for the Mundra Port for the logistics information and then visited the Adani Willmar. On the second day of the visit students have visited the Power Plant and West basin where the coal is managed from the ship container to the power plant. Students were more than happy to see all the machinery and processes and of course to feel the industrial sense.</p>
6.	No. of Students & Faculty Members	<p>No. of Students = 74 No. of Faculty members = 04</p>

Photo Gallery





Visit Arranged by:

- 1. Prof .Dharmendrasinh Parmar**
- 2. Prof. Rushikesh Raval**
- 3. Prof .Vinay Jaisinghani**