



**A
Report
On**

Industrial visit

At

ADANI Group, MUNDRA



Visit date : 4th OCT, 2019 to 5th OCT, 2019

No of Students	78
Department	Mechanical Engineering
Semester	3 rd , 5 th , 7 th

Faculty Guide

Prof. Akash Raiyani
Prof. Abhaysinh Padhiyar

Head of the Department

Prof. Ravi Popat

The Adani Group is one of India's leading business houses with revenue of over \$11 billion. Founded in 1988, Adani has grown to become a global integrated infrastructure player with businesses in key industry verticals - resources, logistics, energy and agro. The integrated model is well adapted to the infrastructure challenges of the emerging economies.

Adani Group's growth and vision has always been in sync with the idea of Nation Building. We live in the same communities where we operate and take our responsibility towards contributing to the betterment of the society very seriously. Through Adani Foundation, we ensure development and progress is sustainable and inclusive; not just for the people living in these areas, but the environment on the whole. At Adani, we believe in delivering benefits that transcend our immediate stakeholders.

About Visit

We followed below mention schedule for two days which given by them under the project UDAAN.

Itinerary			
First Day		Second Day	
5:00 am	Commencement of journey to Mundra from allocated location	5:30 am	Wakeup
Single halt on the way	40 min break for snacks	6:30 am	Aarti, yoga, laughing programme
1:15 pm	Arrival at Shanti-Vihar in Mundra	8:00 am	Tea/coffee and breakfast
1:30 pm	Lunch	9:00 am	Checkout from Shanti-Vihar for visit to West Port.
3:00 pm	Visit to Adani Ports & SEZ	10:30 am	Visit to Adani Power Ltd.
4:30 pm	Visit to Adani Wilmar Ltd.	12:15 pm	Lunch
6:30 pm	Video on Adani Group	1:15 pm	Departure for Ahmedabad
7:00 pm	Shantinath Mahadev Aarti	Single halt on the way	40 min break for snacks
8:00 pm	Dinner	10:00 pm	Reaching back to respective school/college/institution
9:00 pm	Cultural programme/activities by students (in the presence of our rector)		
10:30 pm	Sleep		

We had visited mainly four places.

1. South Port.
2. Adani Willmar.
3. West Port.
4. Adani Power Station

1. South Port.

Mundra Port is the largest private port of India located on the north shores of the Gulf of Kutch near Mundra, Kutch district, Gujarat. Formerly it was operated by Mundra Port and Special Economic Zone Limited.



Mundra Port is the second largest port in India in handling container cargo. In 2014 - 15, Mundra port handled 1.75 Million TEUs and has the installed terminal capacity to handle 2.3 Million TEUs p.a. Mundra port is known for its customer centric approach by providing higher productivity, innovation logistics solutions, faster turnaround of vessels and faster evacuation of containers from the port through double stacked trains. Adani Ports operates two terminals at Mundra - Adani Mundra Container Terminal (AMCT) which started operations in 2007, and Adani International Container Terminal (AICTPL) which was operationalized in 2013. Jointly both terminals handle 26 services, connecting India to destinations across the world.



Mundra port handles multiple types of Bulk Cargo including coal, fertilizers, minerals, and agri- products. With deep draft berths and multipurpose terminals, the port efficiently handles the largest bulk carriers in the world. The port has covered and open storage areas with enormous capacity. Excellent cargo evacuation and receiving infrastructure support smooth cargo movement in and out of the port.

2. Adani Wilmar

Adani Wilmar Limited (AWL) is a joint venture incorporated in January 1999 between Adani Group Conglomerate, the leaders in International trading & Private Infrastructure and Wilmar International Ltd. - Singapore, Asia's leading Agri-business group.



A manufacturer of edible oils, including soybean, cottonseed and groundnut, based in India and selling under the Fortune, Raag and Jubilee brands. A manufacturer of edible oils, including soybean, cottonseed and groundnut, based in India and selling under the Fortune, Raag and Jubilee brands.

3. West Port

West Port of Adani. The Coal Port. The coal arrives here is from 4 different countries Australia, South Africa, Indonesia & China. The port was having India's biggest Crain with Capacity of loading coal up to 200000 tons in a single turn. West Basin, the world's largest coal import terminal, is an ultra-modern fully mechanised infrastructure with unparalleled capabilities in coal handling. We handle all types and grades of coal including steam coal, coking coal imported into the country or moved from domestic sources.

The deep draft berths at West Basin are capable of handling the largest capsized bulk carriers. The integrated conveyor system along with mechanised system allows the port to handle huge volumes of coal cargo required by the customers. Now a days it has capacity of parking for 2 ships at the same time. But Adani is planning to make the parking yard in sea of 'G' shape with having the capacity up to 17 Ships a time, which will be completed in 2020 It also has the India's longest conveyor for the transformation of coal of 22Kms.





4. Power Plant

Adani's first power plant at Mundra was formed to cater to the Mundra port and SEZ business in 2006. Adani ports was already the largest importer of coal, supplying over 50% of the country's imported coal needs and at Mundra, managed the world's largest import coal terminal.

Capitalizing on this foundation, we rapidly scaled up our operations despite no prior experience in power generation. Today, Mundra is the largest private single location coal based power plant in the world. In addition to Mundra in Gujarat, Adani Power has plants at Tiroda in Maharashtra, Kawai in Rajasthan and Udupi in Karnataka.

Being the largest private power producer in India with an installed capacity of 10,480 MW, we are now moving towards our ambitious target of 20,000 MW by 2020 with the help of a world class team of Operations and Maintenance and an expert team of Engineering, Procurement and Construction.

The transmission team of Adani Power was set up to help support the state and central utilities in evacuating power from our plants to benefit the end user. The team ended up creating over 5000 circuit Kilometres of transmission system in less than 3 years – yet another unmatched feat – and went on to become a publicly listed business shortly afterwards.

The sheer dynamism of the Group has helped Adani Power grow tremendously since its inception as well as incubate successful new businesses. As a result, the Power business today is one of the largest businesses of the Adani Group.



Mundra, Gujarat 4620 MW (5 X 660 MW + 4 X 330 MW)

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. Phase III of the Mundra Project, which is based on supercritical technology, has received 'Clean Development 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 a CDM Project under UNFCCC.

Adani Power created history by synchronizing India's first super-critical technology based 660 MW generating thermal power unit at Mundra. The Supercritical power plants operate at higher temperatures and pressures, and therefore achieve higher efficiencies (above 40%) than conventional sub-critical power plants (32%). The use of supercritical technology also leads to significant CO₂ emission reductions (above 20%).

Visit Photographs

