





NAME OF THE INDUSTRY: ADANI POWER PLANT, MUNDRA

DATE: 2^{ND} , MAY, 2017

VENUE: ADANI PORTS, MUNDRA, KUTCH, GUJARAT

NO. OF STUDENTS PARTICIPATED: 74(Second Year EC and EE Students)

FACULTY MEMBERS: 04 Prof. Rohit Parmar Prof. Parthesh Mankodi Prof. Kavindra Jain Prof. Ravi Tanna

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.





Flyash is captured through Electrostatic Precipitators at all operating locations, At Mundra power plant, latest facility is installed for bagging of the flyash for export purpose



All the organic waste at power plants such as kitchen waste, agriculture waste, etc. are used to create soil enriching vermicompost. Using byproduct of industry such as Flyash has shown innovative results such as reduced levels of contaminants and higher nutrition that allows one to enrich soil without the use of artificial fertilizers.



World's first coal based super-critical thermal power project registered under the Clean Development Mechanism (CDM) of the Kyoto Protocol

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%).

- Installing supercritical units Conserve coal
- Installation of energy efficient LED lighting
- > Optimize auxiliary power consumption
- Implementing VFDs
- Improving combustion efficiency
- Minimize system leakages
- (Images and Data Source:www.adanipower.com)

PHOTOGRAPHS









SIGNATURE LIST



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INDUSTRIAL VISIT TO ADANI POWER PLANT, MUNDRA

Signature List:

Sr. No.	Name of the Student	Signature	Sr. No	Name of Student	Signature
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31.	Shaili Shah	Stratt .	32.	Aditya Pandey	Bdity
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- Name of Faculties:
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- Prof. Kavindra Jain
- Prof. Parthesh Mankodi
- Prof. Ravi Tanna