

**Report on  
THERMAL POWER PLANT  
AND  
IT'S PROCESSES**

**28<sup>th</sup> August, 2021**

**Organized by  
ISA STUDENTS SECTION &  
INSTRUMENTATION AND CONTROL  
ENGINEERING DEPARTMENT,  
L.D COLLEGE OF ENGINEERING**

**PLATFORM:-** MS Teams

**DATE:-** 28-08-2021

The event was a part of our Alumni talk series wherein we call the pass outs of our college and predominantly of our Instrumentation and Control Department. The establishment of the series is a very thoughtful gesture because it aims to give the students a next-to-real experience which they can most relate to, because the Speakers are none other than seniors.

This event conducted by ISA, LDCE was taken by our senior of 2019 batch, Mr. Vishvesh Patel. He has an experience of 2 years working in the Torrent Thermal Power Plant.

Before the talk started, he was welcomed by our Head of Department, Dr. Manish Thakker Sir. He brief us about the event came about. Then, Prof. V. P. Patel sir also welcomed the speaker and described the activities of Placement cell and Importance of Training. Then after, Vishvesh presented slides on Thermal Power Plant and its basics. He started with explaining the types of boilers, its working, and the common parts that it consists of, different cycles in which the boiler can operated.

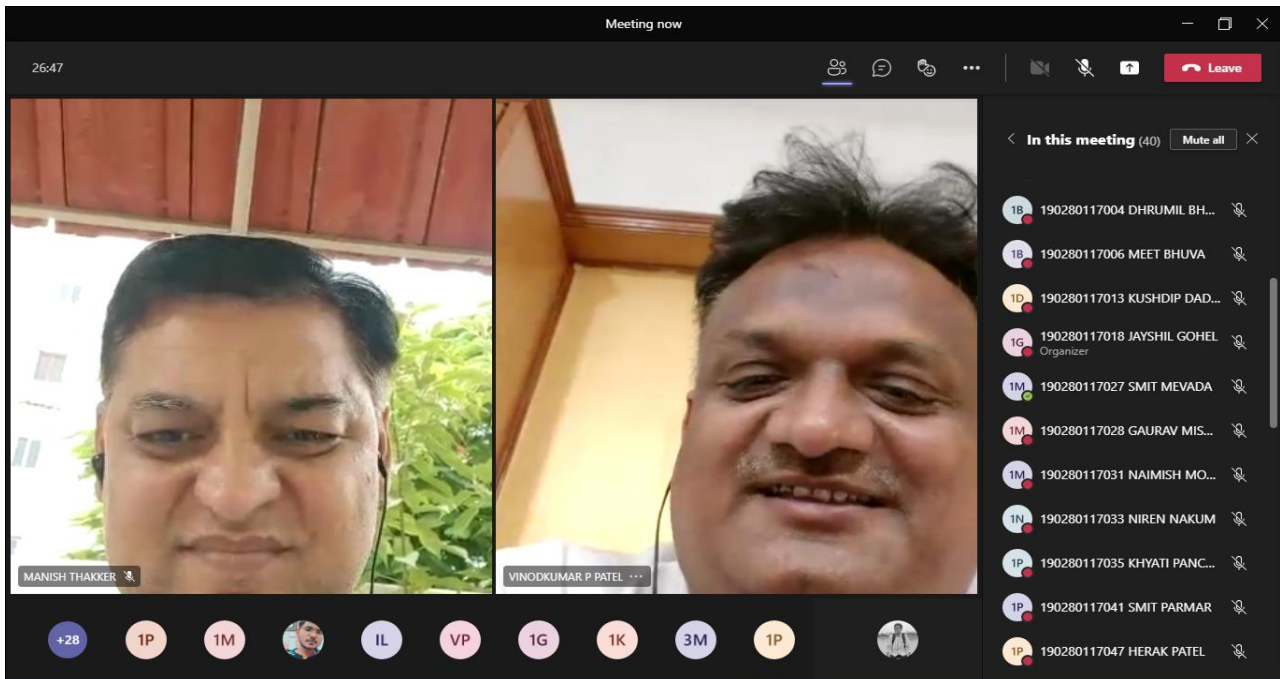
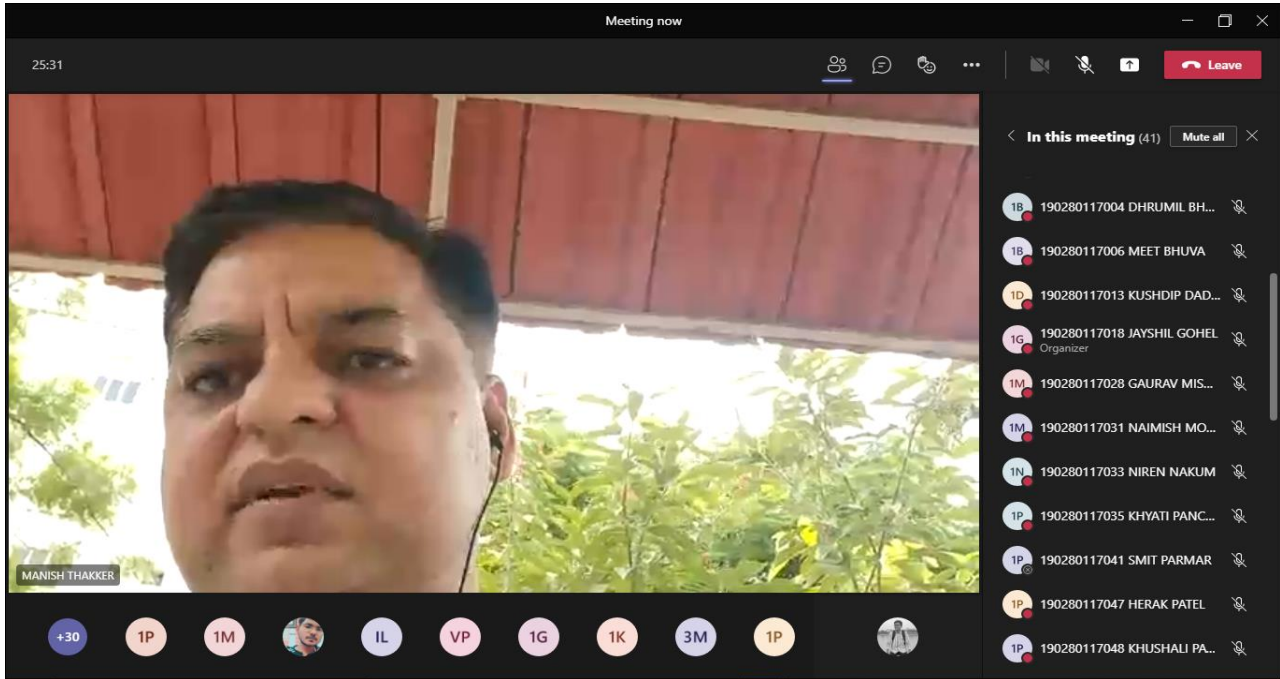
Then, to make things more real and illustrative, he walked us through the PID diagram and other diagrams to make participant understand the entire cycle. By this, we got to know how various parts of the system come together and are integrated.

The event went on very informally and it was a lot fun. The monotonicity of the presentation was very well compensated by sub-QnA sessions after several slides.

The event was conducted online of MS Teams Platform. The entire conversation went on for about 2 hours. After the presentation ended, we a question-and-answer session of about an hour. Various aspects of Thermal Powerplant working and the life as an engineer at Torrent Power were discussed. Also, Vishvesh then groomed us and gave his views & insights on placements – general info, what topics to have a good hold on etc.

The participants enjoyed to have one-on-one talk with Vishvesh and some of the topics discussed were immensely helpful and relevant for participants to have a knowledge in.

# GLIMPSE OF SESSION



01:46:26

180280117008 TAPAN CHAVDA

Vishvesh Patel / MPO / AMGEN

JOSHI BHADRESHKUMAR PANKAJBHAI

190280117057 DEEPANKAR PATNAIK

190280117028 GAURAV MISHRA

MANISH THAKKER

190283117015 VISHAL YADAV

190280117047 HERAK PATEL

VINODKUMAR P. PATEL

IL 1R 1D 1B MP PD 1P 3M 1G

36:57

00:14:29

### OVER VIEW

ISA LDCE (Guest)

Vishvesh Patel / MPO / A...

MANISH THAKKER

VINODKUMAR P. PATEL

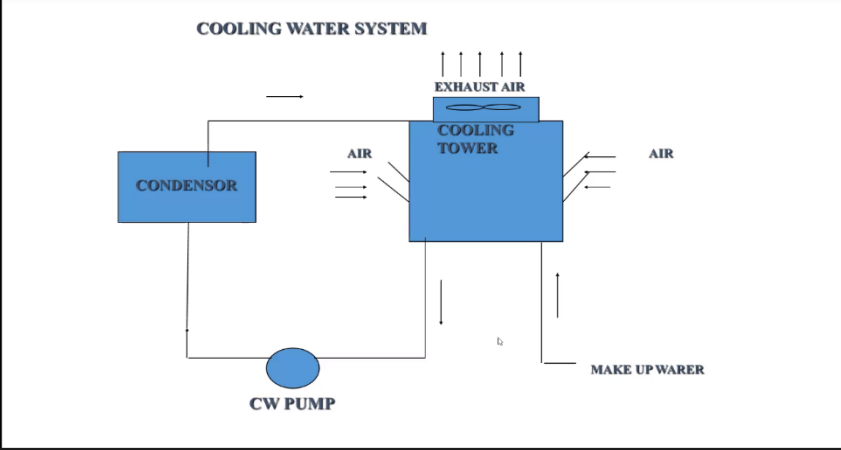
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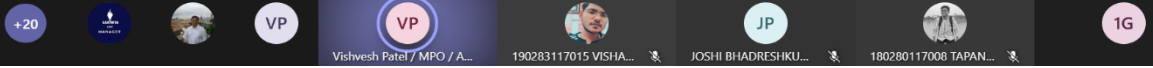
01:22:23



00:59:56



ISA LDCE (Guest)



01:25:26



01:02:58

## Generator Cooling

- Hydrogen gas is used to cool winding of generator because of its better cooling property.
- Filling and expelling of hydrogen gas is to be done very carefully by using CO<sub>2</sub> as an intermediate gas ensuring that no explosive mixture of H<sub>2</sub>-Air is formed.

ISA LDCE (Guest)

