

INDUSTRIAL VISIT REPORT

INDUSTRY VISITED: Central Power Research Institute, Bengaluru

ORGANISED BY: EEE Department, HIT Nidasoshi

DATE & TIME: 20/02/2018 at 10:00 AM

An industry visit to Central Power Research Institute (CPRI) located at Bangalore has been organized for the benefit of 8th Semester students. A batch of EEE final year students (47) and four staff coordinators visited CPRI on 20/02/2018. CPRI is the power house of the Indian Electrical industry, setup in 1960 by the Government of India. It functions as an applied research in electrical Power Engineering, assisting the Electrical Industry in product development and quality assurance. Students were taken to CPRI campus at 10:00 AM. Students were taken to various departments of CPRI and given knowledge about the testing equipment and shown some testing demonstration.



Students visited measuring instruments testing division and observed heat run test (Temperature rise test). The Head of the Heat run Laboratory addressed the students and explained about the functioning of this unit. Students were also shown bus bars, transformers, protecting devices, monitoring of temperature rise. Later the students were taken to short circuit test division where there was a live demonstration of short circuit test on vacuum circuit breakers and explained short circuit curve, how it is recorded. Later students visited cables laboratory and just had an overview of it. This session was concluded with lunch at CPRI canteen.



After lunch students visited High voltage Laboratory where they were shown impulse generator, cascading of transformers to generate High AC voltages. Technical depute explained about corona, lightning and flashover test on transmission line very well. The High Voltage lab setup was very huge and rated up to 3200KV. Students were very excited to see such a huge HV laboratory.

Students also visited High power lab and shown the control room simulation. They were shown testing area of High power Equipments, capacitor banks, inductor banks and some images related to High Power Testing.



Later students visited Impulse current Laboratory where they were explained about Impulse current generator of capacity 100KV, 150KJ. They were explained about necessity of Testing Arrester Blocks, Types of arrester used in the modern days, about residual voltage tests. Operating duty tests and power frequency voltage Vs time curve in detail. Students interacted with the staff at CPRI and expressed their thanks to the officials for the opportunity given.



This industrial visit was highly useful for the students in terms of practical knowledge about the power system. This trip will also be helpful for them to find placement opportunities and JRF in such industries.

The students were accompanied by Dr. S. B. Hadadi, HOD of EEE department, Mr Sagar Birade, Miss R. H. Nayak, Mrs. S.G.Huddar Asst. Prof. EEE department.

Prepared by
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