

Department: Electrical and Electronics Engineering**Report****Industrial Visit to 220kV/66kV Grid Substation Delhi Transco Limited, Pappankalan-III, Dwarka**

Department of Electrical and Electronics Engineering organized an industrial visit to Delhi Transco Limited's 220kV/66kV Grid Substation Pappankalan-III in Dwarka, New Delhi on September 12, 2024. The visit was aimed at enhancing the practical and industrial knowledge of the third-semester EEE students. The students were accompanied by Mr. Sachit Rathee (Assistant Professor) and Mr. Amit (Lab Assistant).

Delhi Transco Limited, formerly known as Delhi Power Supply Company Limited, is the State Transmission Utility for the National Capital Territory of Delhi. The company is responsible for the transmission of electricity at 220 kV and 400 kV levels, and for the upgrading, operation, and maintenance of the high-voltage network.

The visit commenced at 10:30 a.m., with Mr. Vijay (Assistant Manager) received the students. He provided a brief overview of the substation's operations and explained the Single Line Diagram. Following this introduction, he guided the students and faculty into the control room, where the monitoring of equipment such as transformers, line isolators, and circuit breakers takes place. The control panel displaying the status of these machines was also shown to the students.

Mr. Vijay then conducted a detailed tour of the substation, explaining the functions of various components including the transformers and other critical equipment. He provided a thorough description of the operational processes involved.

Throughout the visit, the engineers addressed the students' questions and clarified their doubts. The group departed from the power plant at 2:00 p.m., with students expressing their satisfaction and appreciation for the valuable insights gained.

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