



JC Bose University Of Science & Technology, YMCA Faridabad

“Industrial Visit to HVPNL Sector 64 , 66/11KV Sub Station”

Name of department/ Section/ cell conducting the activity	B. Tech Electrical 3 th semester
Date of conduct	23 Nov 2022
Activity Coordinator	Dr Anju Gupta , Dr. Rajesh Kumar Ahuja
Target audience:	55 students, 5 faculty members
Brief Description of the event	DATE- 23 Nov 2022 MODE OF TRANSPORT- College Bus NUMBER OF STUDENTS- 55 FACULTY NAMES- 1. Dr. Anju Gupta 2. Dr. Rajesh Kumar Ahuja 3. Dr. Rashmi Aggarwal 4. Mr. Satvinder 5. Ms. Bharti Thakur

Objective-

The main aim of organizing this industrial visit is to give some exposure to the students about the generation, transmission, and distribution of electricity. From this visit students understand the working of 66/11KV Substation and how 66KV is coming through the double circuit line from two substations (one is located at Sector 3 named as 220/66KV Substation and the other is located at Samaypur, Faridabad named as 220/66KV Substation). In 66/11KV Substation 66KV is received then it will step down to 11KV with the help of three power transformers named T3, T4, and T5. Then from power transformers, 11KV is given to the distribution transformers for the distribution of power supply in various households. The distribution transformers step down from 11KV to 440V, 3 phase which is then given to the industry, and households. Also, they get to know about the working of various components of the power system like surge arresters, webtrap, PCCU(Power Carrier Communication Unit), isolators, circuit breakers, power transformers, Bucholz relay, Radiator, Breather, AC Cuos, etc.

Pics Taken During this visit-



Fig 1 Pic Inside View



Fig 2 Inside View



Fig 3 Pic Taken When reached



Fig 4 Pic Taken When We Depart

Outcome of the visit-

The overall experience of this visit was so good and knowledgeable for us. We enjoyed a lot as well as understand about the generation, transmission and distribution of electricity and various core concepts of electrical engineering. We are very thankful to the Department of Electrical Engineering for organizing this wonderful trip and we wish our department to organize these kinds of visits in the future also.