

A Report on Industrial Visit to “Nuclear Power Corporation of India Limited (NPCIL)”, NARORA

About Visit

An industrial visit to Narora Nuclear Power Plant (a unit of NPCIL, Govt of India) was organized by **Electro Tech** society of EEE Department on 18th April 2023 for 6th Semester students. The visit was coordinated by Prof.(Dr) Rajveer Mittal(HOD), Ms Poonam Juneja and Ms. Supriya Sharma. Total 42 students along with Faculty members of EEE Department visited the plant. Narora Nuclear Power Station is located at Bulandshahar in Uttar Pradesh. The power plant is one of the Nuclear based power plants of NPCIL .

Students visited the Unit No.1&2 of each 220 MW, and understood various technical factors which would be very helpful for their understanding of various theoretical aspects studied in their curriculum. All the students were divided into six groups and sent for visit of various sub-systems of the plant, like Reactors, Turbo Generator, Switch Yard Control Room, Switch Yard and Cooling Tower. The visit was very successful and it was a learning experience for the students.

Narora Nuclear Power Plant has a total installed generation capacity of 440 MW comprising of Two Units of 220 MW each respectively. It consists of two 220 MW pressurized water reactors with heavy water as moderator (PHWR). The construction costs originally were estimated to be 12.65 billion USD (APPROX). Construction of units 1&2 started in 1 November 1977.



Technical Data

Type of reactor	PHWR
Gross electricity generation	2* 200 MWe
Type of Fuel	Natural Uranium
Primary coolant	Heavy water
Number of bundles	3672
Number of coolant channel	306
Length of bundle	49.5 cm
Diameter of bundle	8.15 cm
Weight of bundle	16.5 kg
Weight of uranium oxide cell	15 kg

Schedule:

Date	Branch , Semester	No. of Students	Faculties /Coordinator
18-04-2023	EEE, 6 th Sem.	42	Ms. Poonam Juneja (Assistant. Prof.) Ms. Supriya Sharma (Assistant. Prof.) & Mr. Ashok (Assisant. Prof.)

