

# CHHOTUBHAI GOPALBHAI PATEL INSTITUTE OF TECHNOLOGY

## Department of Electrical Engineering

### Organized an Industrial Visit

On

Date: 06/02/2024

### At Kakrapar Atomic Power Station-Gujarat Site (Nuclear Power Cooperation of India Limited)

<b>Place of Visit</b>	Kakrapar Atomic Power Station-Gujarat Site (Nuclear Power Cooperation of India Limited) PO: Anumala, Via : Vyara, Dist : Tapi, Gujarat – 394651 Website- <a href="http://www.npcil.nic.in/">http://www.npcil.nic.in/</a>
<b>Organizing Department</b>	Department of Electrical Engineering
<b>Coordinators</b>	Ms. Hinal Surati
<b>Target Students</b>	B. Tech semester 6 & 8 students. Diploma final year students (CGPIT + Diwalibaa Polytechnic)
<b>Total Number of Participants</b>	44 + 3 faculties
<b>Date of Programme</b>	6 <sup>th</sup> February, 2024
<b>Training Officers</b>	1. Mr. B D Vyas 2. Mr. R B Patil

### Details of the Industrial Visit:

#### Industry Profile-Kakarapar Site

Kakarapar Atomic Power Station Site is situated in India, which lies in the proximity of the city of Vyara (near to Surat) in the state of Gujarat. It consists of 2 units each of capacity 220 MWe under operation and 2 units each of capacity 700 MWe under construction.

- Kakrapar Atomic Power Station (KAPS) 1&2-Pressurized Heavy Water Reactors(2 x 220 MWe PHWR)
- Kakrapar Atomic Power Project (KAPP) 3&4-Pressurized Heavy Water Reactors (2 x 700 MWe PHWR)

Our Industrial visit journey was started at 8.40am from Maliba Campus and reached the KAPS vyara at 10:15 am. After completion of entry procedure at the Pass Office to enter inside the KAPS Gate-1&2, the CISF officers welcome us and guided about plant. After this introduction about NPCL, Mr. Vyas, the incharge of our visit draw us to the canteen for breakfast in the main plant campus through KAPS bus. After breakfast, students were went to training center. Sh. R B. Patil and his team members has guided in detail about the KAPS plant and NPCIL. Also aware about safety regarding nuclear radiation with live examples of daily radiations from sun with comparative data. Demonstrated heavy water, unused



fuelcell and dummy reactor model with whole plant. Also he has explained in detail about the reactor construction parameters, working mechanism of plant, fuel cell charging, nuclear material sources all over the world. Representative of NPCL has guided all of us about the advantage and accidents of nuclear power plant with live examples. They inform us about world record of KAPS i.e. 365 days of continuous reactor working.

In the last part of visit, two batches of the students were divided and one batch was headed for cooling tower and second batch was entered in generator room with proper safety personal protective equipment (PPE's). All details about actual power plant work function was given by Representative of NPCL and every steps were explained about power generator with live demo of working generator. Many students have asked the queries and the instructor has solved them very cleverly and politely. After plant visit the students were headed for the delicious lunch provided by KAPS without any charge. After

lunch students were moved to training center main entrance for Group Photo click

After completion of plant visit and photo suit with Representative of NPCL.

**Glimpse of the Visit:**





