

DEPARTMENT OF EEE

Date: 31-03-2023

Report on Power Grid 440kV Switching Station Visit

		Power Grid Corporation of India,		
1.	Name of the Activity/Event	Manubolu		
2.	Date of Activity/Event	31/03/2023		
3.	Organized by/Name of the Committee	Department of EEE		
4.	Place of Activity/Event	Narayana Engineering College, Nellore		
5.	ResourcePerson	1.Mr.Bramha Naidu		
	/Guest/Organization	2.Ms.Leela Mounika		
6.	Type of Activity/Event	Industrial Visit		
7.	Activity/Event objectives	1.Breif analysis of Subject of Transmission .2 Switch Gear Protection of Circuit Breakers, Isolators and so on etc		
8.	Participation	Students	Faculty	Total Participation
9.	General remarks	49	2	51
10.	Enclosures	 Photos Attendance Report Undertaking forms from students 		





Introduction:

On **31st March 2023**, a group of students from **Narayana Engineering College's** Electrical and Electronics Engineering (EEE) department visited the Power Grid 400kV switching station. The visit was organized as a part of their curriculum to provide the students with practical knowledge of power systems and their operation. The students were accompanied by their professors and technical staff.



(Students at Power grid)

(Students observing at Outdoor switch yard)

Objective: The primary objective of the visit was to familiarize the students with the functioning of a switching station and its components, including switchgear, transformers, and protection equipment.

Description:







Students at outdoor Switch yard

Upon arrival at the switching station, the students were given an overview of the switching station's layout and its various components. They were briefed on the function of the switching station, which is to enable the transfer of power between various transmission lines, and to isolate faulty equipment.



(Students at Control Room)



(Reactor at outdoor switch yard)





The students were taken to the main control room, where they were shown the various instruments and control panels used for monitoring and controlling the switching station's operations. The students were then taken to the outdoor switchyard, where they were shown the switchgear, transformers, and protection equipment used in the switching station. The staff explained the function of component and how they work together to ensure smooth and safe operation of the switching station.



(Engineer explaining to students)



(A part of Isolator system)





The students were also shown the switching station's lightning protection system and earthing arrangements, which are crucial to ensuring the safety of the switching station and its personnel.

Conclusion:

The visit to the Power Grid 400kV switching station was an enriching experience for the students of **Narayana Engineering College's EEE department**. The visit helped the students gain a practical understanding of switching stations and their components. It also provided them with insights into the importance of safety and maintenance of switching station equipment. The students and staff were grateful for the opportunity to visit the switching station and extend their thanks to the **Power Grid Corporation of India Ltd** for facilitating the visit.

Faculty In-Charge

HOD-EEE

