



GOVERNMENT DEGREE COLLEGE – YELLANDU
BHADRADRI KOTHAGUDEM DISTRICT
(Affiliated to Kakatiya University, Warangal)



DEPARTMENT OF PHYSICS

TITLE OF THE PROGRAM: Field trip to 132/33 KV Sub-Station,
Yellandu

DATE OF THE EVENT: 29/12/2022

OBJECTIVES OF THE PROGRAM:

Our objective for this visit is to get familiarised with industrial environment and to acquire practical knowledge of electrical power transmission and distribution system.

132/33 KV Sub-Station, Yellandu :

The 132/33 KV Sub-Station, Yellandu was commissioned by TS TRANSCO on 23/10/2014. It Consists of 2 No's of 132 KV Feeders (BudidamPadu – Yellandu, SCCL Solar- Yellandu) and 9 No's of 33 KV Feeders.

The 132/33KV Yellandu Sub-Station Receives power from 220KV Budidam Padu Sub- Station through 132 KV BUdidampadu- Yellandu Feeder.

The Feeder is Radial.

DESCRIPTION ABOUT THE TRIP 32/33 KV:

From this visit, the student got detailed information and practical knowledge about Power Distribution and Transmission.

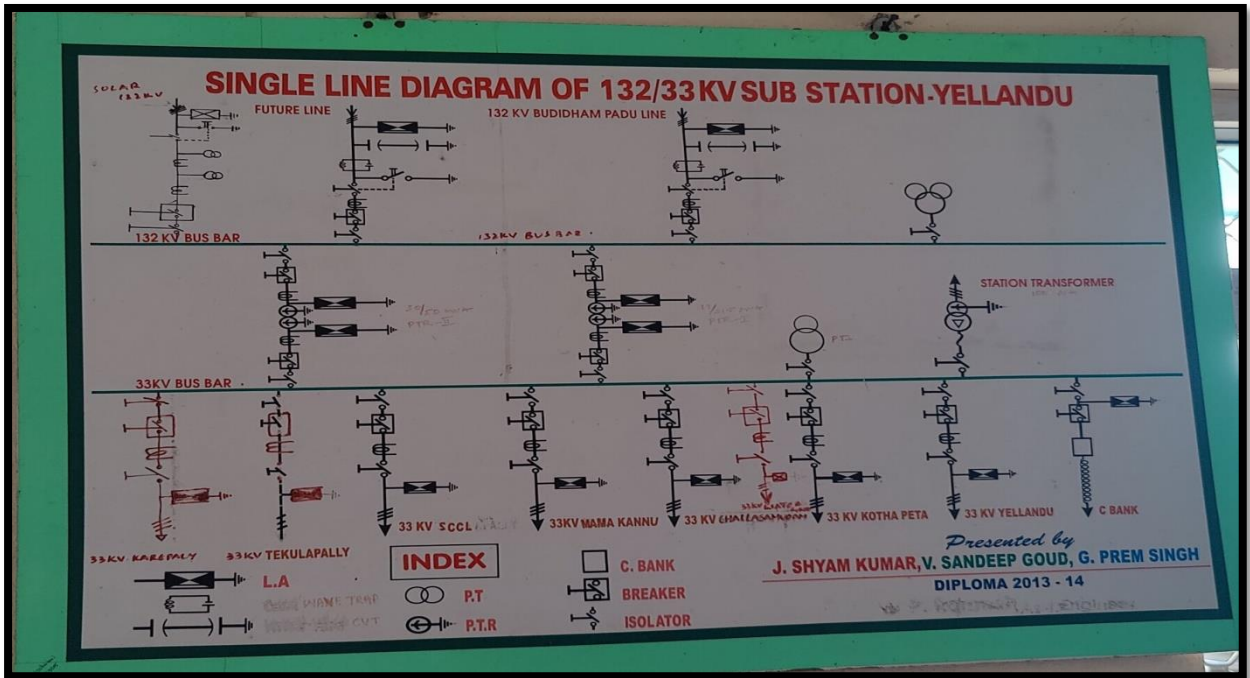
Students got knowledge about different devices used in sub-station like feeders, circuit breakers, transformers, isolators, bus bars, Protective relays, Lightning arresters, Wave traps, and Load break switches and their construction, and working principles.

They got the idea of how to read the single-line diagram of the power substation using different symbols used in the diagram.

Student cleared out practical knowledge of transformer as how it step-down voltage 132 KV to 33 KV

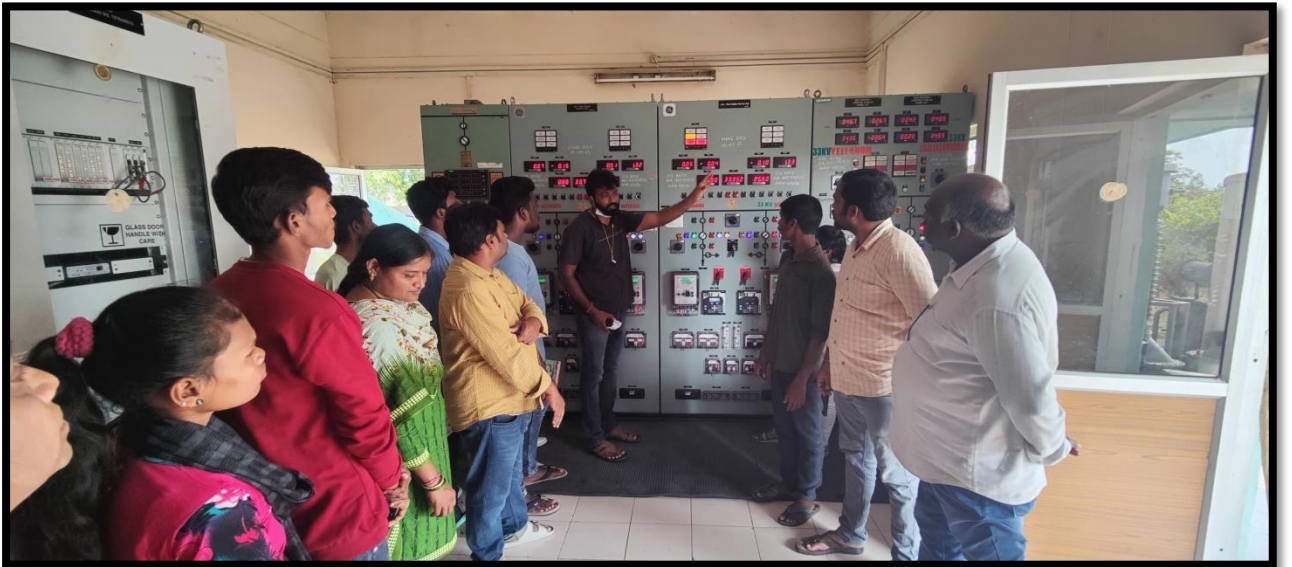
About 20 students were benefited from this visit as they got a chance to discuss with Assistant Engineers and Sub Engineers working at Substation.

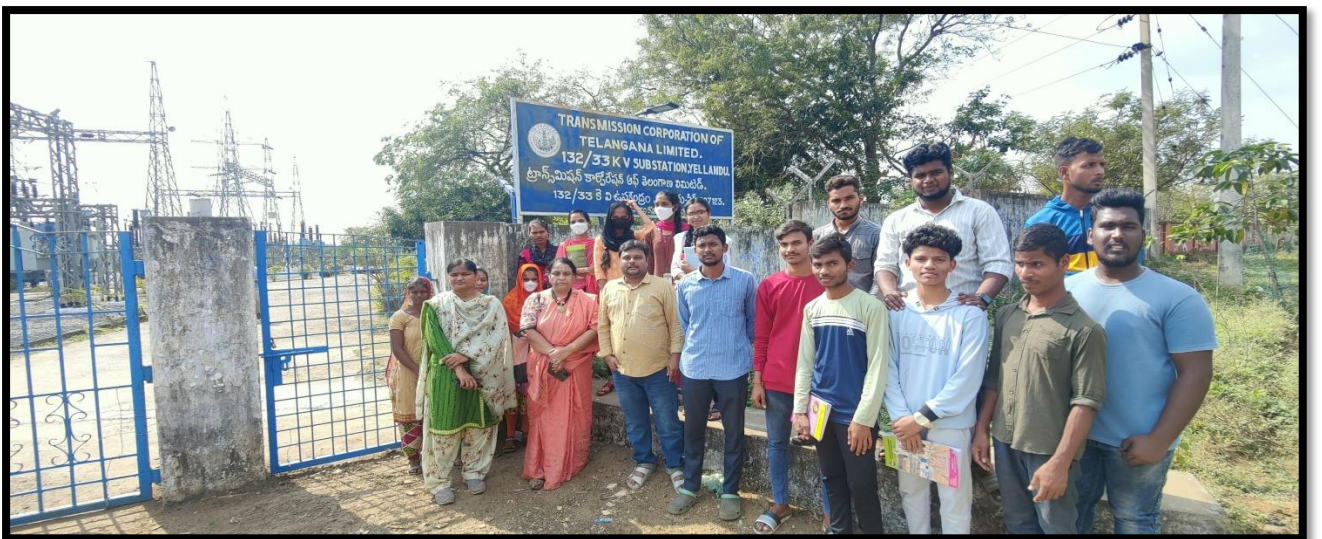
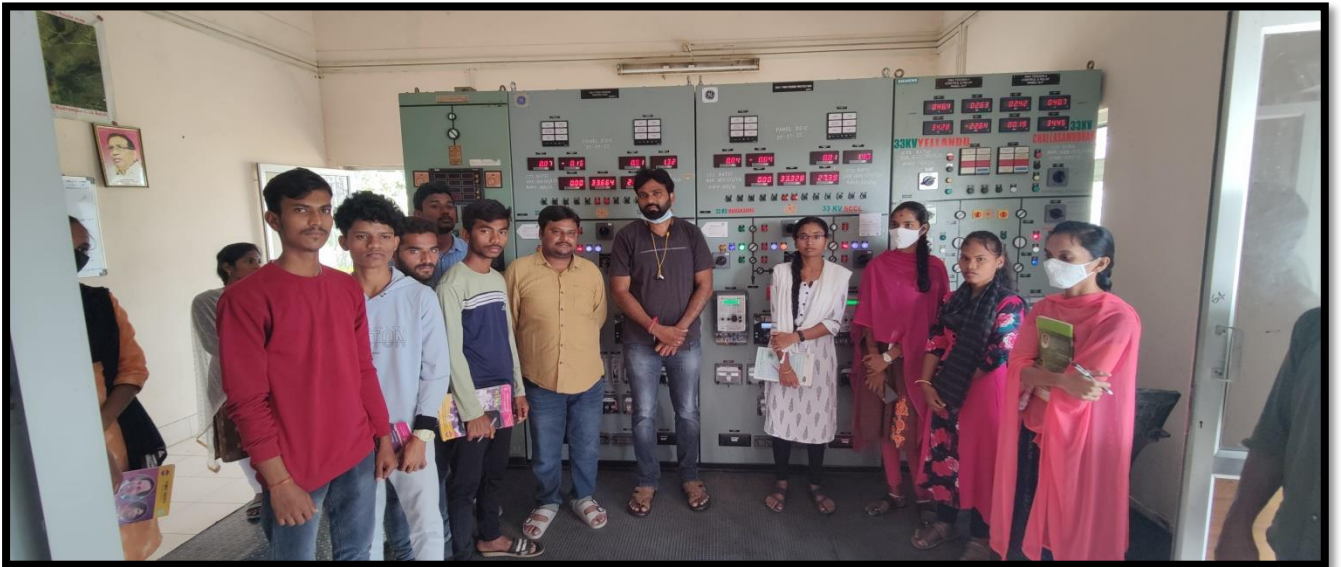
Single Line Diagram of the Sub-station



Photos During Field Visit







List of the students participated in the program :

S.No	Name of the Student	Group & Year	Signature of the student
1	Kalthi Sadhana	III MPC	
2	Goggela Sukanya	III MPC	
3	Yapa Srujana	III MPCs	
4	Danasari Sravani	III MPCs	
5	K Sarala	III MPCs	
6	Macha Saketh	II MPCs	
7	Dharavath Sidhartha	II MPCs	
8	Jarpula Vinay	II MPC	
9	Pathipati Srinivas	II MPCs	
10	Vukem Sandeep	II MPCs	
11	Surnapaka Karthik	II MPCs	
12	M Lakshmi Prashanth	II MPC	
13	Thati Sangeetha	II MPC	
14	N Sai Kiran	II MPC	
15	Md Aseef	II MPC	

Signature of the faculty/ Supervisor

Principal