



SANDIP FOUNDATION'S

SANDIP INSTITUTE OF TECHNOLOGY & RESEARCH CENTRE, Nashik

DEPARTMENT OF ELECTRICAL ENGINEERING

Academic Year 2016-17

**Report on : Industrial Visit to MSETCL 132/33KV Khaprle Substation**

**Event Title:** Visit to MSETCL 132/33KV Khaprle Substation

**Event Date:** 23<sup>rd</sup> Feb 2017

**Event Conduction Duration:** 10.00 am – 1.00 pm

**Event Venue:** Khaprle. Nashik

**Event Resource Person Details:** Dy.Ex. Engineer Mr.Bhausahab Medhe

132/33KV , 50MVA Khaprle

**Name of Event Co-ordinator:** Prof.D.S.Badgujar.

**Name of Faculty Visited:** 1. Prof.D.S.Badgujar. 2. Prof.R.V.Deshmukh

**Name of Subject Concerned:** Power System-2

**Visit arranged for :** TE Electrical Engg Students

**Event Objective :**

- 1.Injection of Power in to the Transmission Line.
2. Operation of Plant using PLC & SCADA Software.
3. Switching and Operation of Power Lines ( Sending Power) .

**Event Outcomes :**

- 1.Student learnt about the Transmission Line network.(Grid Connected)
2. Operation of Transmission Line.
3. Sending Power Management .
4. Operation of Switchgear Equipments (CT,s PTs, Relay)

This visit was arranged prior permission of Principal , Hr. Dr.S.T. Gandhe , SITRC and Dr.P.G.Burade, HOD, Electrical Engg. Dept, SITRC. Dy.Ex. Engineer Mr.Bhausahab Medhe permitted and explained all the details of the substation to the students.

Capacity: 50 MVA

Receives Power from Suzlon Wind Power Ltd: 87.5 MW

Feeders : 33KV – 4 Outgoing Feeders

He explained the operation of substation switchgears such as Circuit Breakers, CTs , PTs , Relay. Transmission line networks was also illustrated by him. Operation of substation by using PLC & SCADA was later explained by him. Visit was very beneficial and helpful for TE students as most of the Practical aspects of Power System-2 subject was covered. Visit was arranged by Prof.D.S.Badgajar with the Cooperation of MSETCI, Nashik.

## Substation Layout of 132/33KV , 50MVA Khaprale Substation.

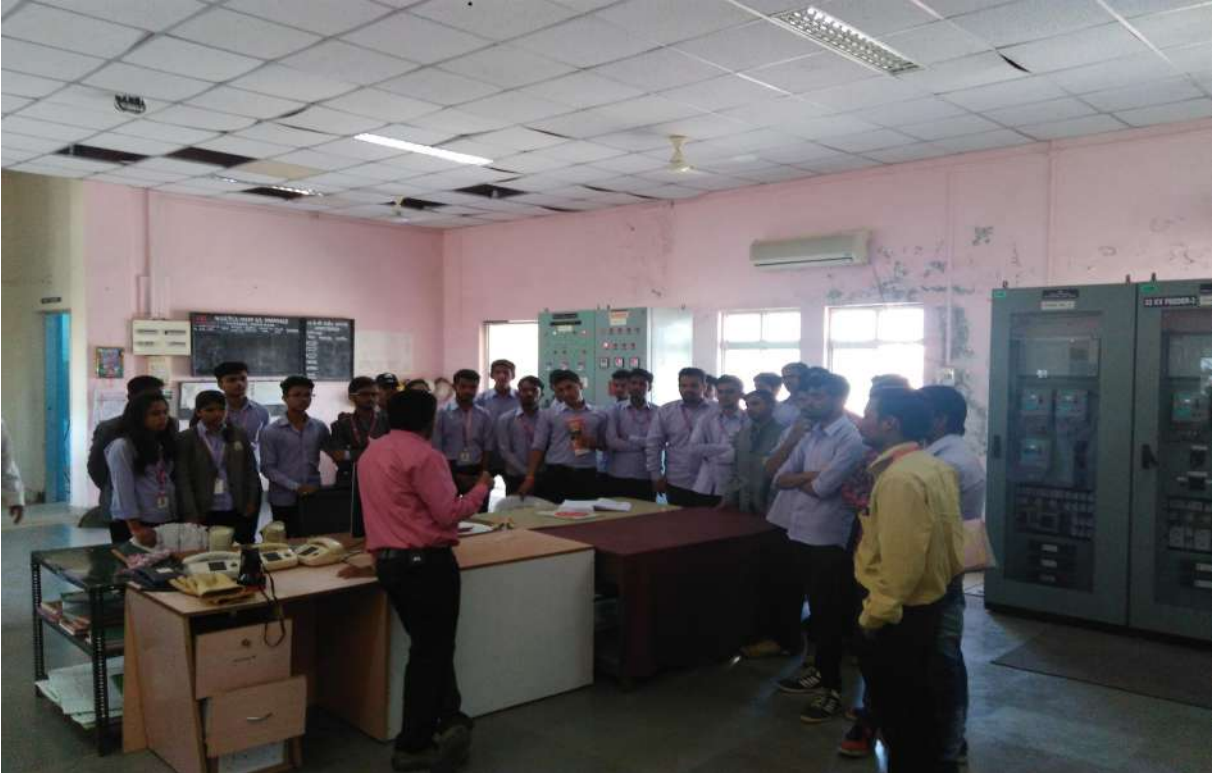


Dy.Ex. Engineer Mr.Bhausahab Medhe explaining the working of Switchgear equipments to TE Students.( CT's , PT's, Power Tranformer, Relays)





Dy.Ex. Engineer Mr.Bhausahab Medhe explaining the controlling of Substation using PLC & SCADA from Control room.



Dy.Ex. Engineer Mr.Bhausheb Medhe , Khaprale Substation with Prof.D.S.Badgujar, Prof.R.Deshmukh and TE Electrical Students, SITRC, Nashik.

