



**SANDIP FOUNDATION'S**  
**SANDIP INSTITUTE OF TECHNOLOGY & RESEARCH CENTRE, Nashik**  
**DEPARTMENT OF ELECTRICAL ENGINEERING**  
**Academic Year 2016-17**

**Report on : Industrial Visit to SUZLON India Pvt Ltd, Sinnar, Nashik**

**Event Title:** Visit to SUZLON India Pvt Ltd, Sinnar, Nashik.

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

**Event Conduction Duration:** 1.30 pm – 5.00 pm

**Event Venue:** Sinnar, Nashik

**Event Resource Person Details:** Ex.Deepak Kothule, SUZLON India Pvt Ltd

**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.Operation of Wind Power Plant.
2. Synchronisation of Wind Plant with Grid.
3. Controlling of Wind Plant
- 4.Construction and Installing of Wind Towers.

**Event Outcomes :**

- 1.Student learnt about the Controlling of Wind Towers using PLC & SCADA.  
(Grid Connected)
2. Working of DGIG Motors.

This visit was arranged prior permission of Principal , Hr. Dr.S.T. Gandhe , SITRC and Dr.P.G.Burade, HOD, Electrical Engg. Dept, SITRC. Ex. Engineer Deepak Kothule, SUZLON India Pvt Ltd, permitted and explained all the details of the Wind Power Plants to the students.

Capacity: 87.5 MW

No. of Wind Mills: 70 Wind Mills of 1.5 KW & 2.1 KW

Mr. Deepak Kothule explained the working of Wind Mill of 1.5 KW . It generates power at a wind speed of 14-30 m/s. He also demonstrated the controlling of wind mills and all controlling techniques ( Pitch , Yaw, Teeth Control) using PLC & SCADA. He later illustrated and explained the DFIG Motor, Constructional features. Students observed the tall structures of wind mills.

Blade Length : 45m Tower Height: 90m

DFIG Motor Generated Voltage: 690V

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.Badgujar with the Cooperation of SUZLON India Pvt Ltd.

Ex.Deepak Kothule explaining the constructional features of Wind Turbine Power Plant to the students



Ex. Deepak Kothule explaining the working of Wind Turbine Power Plant and DFIG motor to the students



## **Wind Turbine**

**Blade length: 45m   Wind Tower Height: 90m**

**Capacity : 2.1KW**

**Generating Voltage : 690V**

