



SANDIP FOUNDATION'S  
SANDIP INSTITUTE OF TECHNOLOGY &  
RESEARCH CENTRE, Nashik DEPARTMENT OF  
ELECTRICAL ENGINEERING  
T.E .Sem-II  
Academic Year 2016-17

**Report on 100kW Solar Power Plant Visit**

**Name of Plant:** 100kW Solar Power Plant at SIEM.

**Address:** Sandip Foundation, Mahiravani, Nashik

**Plant Co-ordinator:** Prof.H.R.Kulkarni

**Plant Visit:** Dated 4<sup>th</sup> Feb 2017

**Timings:** 11.00 am to 3.30 pm

**Organized For:** T.E, Electrical Engg

**Name of Staff Visited:** 1.Prof.D.S.Badgujar  
2. Prof.S.M.Deshmukh

**Visit Co-Ordinator:** Prof.D.S.Badgujar

**Knowledge Concerned With Subject:** Electrical Workshop & Energy Management and Auditing.

**Details of Solar Power Plant:**

Plant Capacity: 100KW

Average No. of Units Generated: 450 Units

No. of Panels: 328

Carbon Saved till date: 4 Tons of CO<sub>2</sub> saved from being released into the atmosphere.

**Objective of Visit:**

- Understand importance of energy and energy security.
- Understand impact of use energy resources on environment and emission standards, different operating frame work.
- Follow format of energy management, energy policy.
- Learn various tools of Demand Control.
- Calculate economic viability of energy saving option.

**Outcome of Visit:**

- Students understood the working principle of PV cell, daily power generation from the plant (no of units), real time monitoring and battery capacity.
- Students got aware about the construction working, operation, generation & maintenance of solar Power Plant.



100KW Solar Power Plant Located at Rooftop of SIEM, Nashik



Prof.H.R.Kulkarni explaining the working of Plant to Students



Prof.H.R.Kulkarni explaining the Real Time Monitoring of Plant to Students



Prof.H.R.Kulkarni Illustrating the Real Time Power Generation of Plant to Students.