



**Sandip Foundation's
Sandip Institute of Technology & Research Centre, Nashik
Department Of Electrical Engineering
Academic Year 2017-18**

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 22nd Jan 2018

Timings: 1.30 pm to 3.30 pm

Organized For: T.E, Electrical Engg,SITRC

Name of Staff Visited: 1.Prof.G.G.Akotkar 2. Prof.M.Bishi

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

No of Students: TE, 61

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 CO₂ 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