INDUSTRIAL VISIT REPORT
OF
GUJARAT SOLAR PARK, CHARANKA
ON
3RD MARCH 2016

VISITED FACULTIES:
PROF. M. J. PATEL
PROF. HIRAK SHAH

VISITED STUDENTS:
4th SEM E.E.E
4th SEM ELECTRICAL

DEPARTMENT OF E.E.E / ELECTRICAL ENGINEERING
GROW MORE FACULTY OF ENGINEERING
Industrial Tours are an effort to bridge this gap of practical exposure.

Industrial Visit plays a vital role for the Engineering Students to showcase all the real working environments of the equipment, machinery, construction and its operation and every other thing that students will come across in their respective field.

The department of E.E.E & Electrical Engineering, Grow More Faculty of Engineering, Himatnagar organized an industrial visit to “Gujarat Solar Park, Charanka” on 3rd March 2016 for 4th Semester Degree E.E.E & Electrical Engineering students. The visit was organized as per GTU university guidelines and recommendations regarding syllabus of Electrical Engineering.

Our main purpose for this visit was that the students improve their practical knowledge and get benefited their theoretical knowledge in the field of Solar Power Generation.

Gujarat Solar Park is the largest solar power park in whole Asia. It is having more than 20 companies generating solar power.

A total 40 students of 2nd Year (4th Semester) Electrical visited Solar Park. The visit was accompanied by E.E.E & Electrical H.O.D Prof. M.J. Patel & Visit Co-ordinator Prof. Hirak Shah. On behalf of students, I am thankful to Prof. Bharat Suthar for the support and mentoring.

On 3rd March, 2016 at 05:00 AM, the students along with the faculties started their journey from Mewad near Grow More Campus.
At 09:00 AM, they reached Radhanpur, where first the students were given breakfast. At 11:00 AM, they reached the destination, where they first visited the Central Tower from which the whole Park can be seen.

The visit started with welcome address by Mr. Sandip Trivedi, Junior Engineer at Alex Solar Power. The Students were given some basic information about the Solar Park and some rules by him.
The visit was divided in 3-Sections basically:

i. Central Watch Tower

ii. 2 MW Wind Mill

iii. Visiting Alex Astral Power
   a. Solar Panels Section
   b. Inverter Section
   c. Control Room Section (SCADA)
After visiting the Central Tower, all the students visited 2 MW Wind Mill which was installed at the site. The students discussed their queries with the Engineers and the faculties. Thereafter the students visited Alex Astral Power of having 25 MW capacity.

A brief introduction about Solar Power generation and its working was explained to the students. The senior engineer *Mr. Kasam* explained the various parts and functioning of a Solar Power Plant. Thereafter the students visited Solar Panels Section, Inverter Module section, Control Room, Battery Room, etc.

The main points discussed during visit to Solar Park were:

- Basic Working & Construction of a Solar Power Plant
- Construction & Working Principle of Solar Panels
- Working of SSM Modules
- Inverter Section & it’s Working
- Switchyard Section of Sub-station
- SCADA Control Room
- Battery Room
Finally the visit was completed at 03:00 PM with the discussion session. Thus the students enhanced their knowledge on Solar Power Generation. Thus the Students got a chance understand the subject matter regarding Renewable Energy Generation systems. The Faculties along with students would like to extend the gratitude to the staff of Alex Astral Power for the permission and support they gave to make our visit a success. After the visit, the students were given Lunch. Finally the students returned at 08:00 PM from the visit.

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PHOTO GALLERY: