


Reg. No. E/4682/RAJKOT



**Sanjaybhai Rajguru College of Diploma Engineering**  
**Sanjaybhai Rajguru Education Zone (SREZ)**

---

**'SREZ', P.Box No. 1006; At-Hadmatiya (Bedi), Morvi Road, Rajkot. Pin : 360 003**  
**Phone : (0281) 2786500 Fax : (0281) 2786260**



# **Report on Industrial Visit**

**Organized By**

**Diploma Electrical Department**

**On 12th & 13th September 2014**



**Date:** 12<sup>th</sup> & 13<sup>th</sup> September 2014  
**Department:** Diploma Electrical Department  
**No. of Company:** Two 1) P.D.P.U. Solar Park, Gandhinagar

2) Sardar sarovar dam, Narmada  
**Faculty:**

| <b>P.D.P.U. Solar Park, Gandhinagar</b> | <b>Sardar sarovar dam, Narmada</b> |
|---|------------------------------------|
| Prof. Pradip Yadav                      | Prof. Pradip Yadav                 |
| Prof. Vishal Chavda                     | Prof. Vishal Chavda                |
| Prof. Bhavesh Chandrala                 | Prof. Bhavesh Chandrala            |
| Prof. Brijesh Jogi                      | Prof. Brijesh Jogi                 |

**Semester:** 5<sup>th</sup> Sem (2014-2015) (80 Students)

**Transportation Facility:** Transportation for Industrial Visit was provided by Sanjaybhai Rajguru College of Diploma engineering college, Rajkot by college bus. Total expenses of the industrial visit were provided by the college to bridge the gap between academic and industries.

➤ **Company Name: P.D.P.U. Solar Park, Gandhinagar**

On the 12th Sep. 2014, the department of Electrical Engineering had organized an industrial visit for 80 students of the 5<sup>th</sup> semester Sanjaybhai Rajguru College of Diploma Engineering who were accompanied by four of the faculties of the department. The visit was to the P.D.P.U. Solar Park at Gandhinagar.

**About Company:** We learnt that the PDPU Solar Power Plant generating 1MW power. That power plant has designed by Sun Edison Company. There are 1854 modules of 140W & 3297 modules of 230W. We have also seen that auto-rotating solar array for R & D. In the control room there are 6 L.T Panels. Every panel has 340V A.C output & it converted 340V/440V by using auxiliary transformer. There-after 440V converted in 11000V by using 440V/11000V transformer. All the generating power selling out to Torrent Power Limited.

We know that production of electrical energy is very constable in nowadays. So, by using solar energy we can produce electrical energy very easily. We visited at PDPU's Solar Power Plant, which is installed by Sun Edison company & they also maintain that plant nowadays. We have seen that the power plant was so advance & it's controlled by only one person.



**P.D.P.U. Solar Park, Gandhinagar**



➤ **Company Name: Sardar sarovar dam, Narmada**

On the 13th Sep. 2014, the department of Electrical Engineering had organized an industrial visit for 80 students of the 5<sup>th</sup> semester Sanjaybhai Rajguru College of Diploma Engineering who were accompanied by four of the faculties of the department. The visit was to the Sardar sarover dam, Narmada

**About Company:** The Narmada, the largest west flowing river of the Peninsula, rises near Amarkantak range of mountains in Madhya Pradesh. It is the fifth largest river in the country and the largest one in Gujarat. It traverses Madhya Pradesh, Maharashtra and Gujarat and meets the Gulf of Cambay. The total length of the river from source to sea is 1312 kilometers (815 miles) while the length up to dam site is 1163 kilometers. (723 miles). The width of the river channel at dam site during high floods is 488 meter (1600 feet) and that during summer is 45.70 meter. (150 feet). The maximum recorded flood on 7th September 1994 was 70,847 cumecs (2.5 million cusecs) while minimum recorded flow in summer was 8.5 cumecs (300 cusecs). The dam is designed for 87,000 cumecs (3.07 million cusecs) flood.

The RBPH is an underground power house stationed on the right bank of the river located about 165 meters downstream of the dam. It has six number of Francis type reversible turbine generators each of 200 MW installed capacity. The T.G. Sets are supplied by M/S Sumitomo Corporation, Japan and M/S BHEL.

These units can operate at minimum reservoir water level of 110.64 meters. These six units have been commissioned in a phase manner during Feb-05 to June-06. The generation of energy depends upon inflow of water from upstream projects and need of water for irrigation in Gujarat.



Reg. No. E/4682/RAJKOT  
**Sanjaybhai Rajguru College of Diploma Engineering**  
**Sanjaybhai Rajguru Education Zone (SREZ)**

"SREZ", P.Box No. 100E; At-Hadmatiya (Bedi), Mervi Road, Rajkot. Pin - 360 003  
Phone : (0281) 2786500 Fax : (0281) 2786260



**Sardar Sarover Dam, Narmada**