



POORNIMA

COLLEGE OF ENGINEERING

9th September, 2015

Report on Industrial Visit of Electrical batch (2013-17) at "765kW GSS Phagi-Jaipur"

Department of Electrical Engineering, Poornima College of Engineering, Jaipur organized a one day Industrial visit at **765kW GSS Phagi-Jaipur on 9th Sep 2015.**

The basic purpose of this visit is to acquaint the technocrats with components i.e. Electrical Power Transformers, Instrument Transformers, Conductors, Insulators, Bus Bars, Circuit Breaker and Relays etc.

Forty (40) students from III year (section A), along with faculty coordinators Mr. Harbeer Singh, Ms. Shital R. Shegokar, and Mr. Ambalal Mathur, Dept. of Electrical Engineering, visited a grid sub-station of 765kW at Phagi, Jaipur. This plant is governed by **Raj. Renewable Energy Corporation Ltd. (RRECL)**. The students were provided information by **Mr. Kamal Jain** (Superintendent Engineer) and **Mr. Vishnu Tiwari** (Electrician), the expert available at plant.

This plant is the first of its kind which is of capacity 765 kV transmission line on EPC basis and a state of art 2x1500 MVA, 765/400 kV Air Insulated Sub-Station. The plant is shared between the Power Grid Corporation of India Limited and Rajasthan Rajya Vidhyut Prasaran Nigam Ltd. Among some of its standout features, it is the first GIS substation with **one and a half circuit breaker scheme** in India, it possesses 3449 m. of Gas Insulated Bus Ducts in a single substation.

During the visit, students raised the queries related to Electrical Power Transformer, Bus bars, Circuit Breakers, Bus lines etc which were perfectly and satisfactory discussed by **Mr. Kamal Jain** (Superintendent Engineer).

Students also appreciated the following:

- Electrical Power transformers
- Instrument transformers
- Conductors& Insulators
- Isolators
- Bus bars
- Lightning arresters
- Circuit breakers
- Relays
- Capacitor banks and miscellaneous equipment

The visit was really informative and the efforts made by senior **Dr. Om Prakash Sharma, Director, PCE, Mr. Shivraj Sharma (HOD, EE)** were prays worthy.

