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REPORT ON

INDUSTRIAL VISIT

AT

GETCO, JAMBUVA

ON 25th JULY '2015

BE – III Electrical (Eve) Students

Prof Pradip Munshi

Prof. Ami Vyas

ORGANIZED BY: ELECTRICAL ENGINEERING DEPARTMENT

visit was organized with the prior permission of Hon. Principal Dr. Vaishali Mungurwadi and HOD of electrical department Dr. Hiren Patel.

On behalf of entire Electrical Engineering Department we thank Chief Engineer GETCO for giving an opportunity to visit the substation and control room. 3rd year students along with 2 faculty members of the Electrical department had attended this industrial visit.

Our main purpose for this visit is to be familiar with industrial environment and to get practical knowledge of electrical power transmission and distribution

Gujarat Energy Transmission Corporation Limited (GETCO) was set up in May 1999 and is registered under the Companies Act, 1956. The Company was promoted by erstwhile Gujarat Electricity Board (GEB) as its wholly owned subsidiary in the context of liberalization and as a part of efforts towards restructuring of the Power Sector. The company is now a subsidiary of Gujarat Urja Vikas Nigam, the successor company to the GEB.

Before entering into switch yard field engineer gave safety instruction to the students because any misbehave might result in life threatening risk.

One of the engineer explained all the essential component of the 220KV substation and explained one line diagram of JAMBUVA Substation. In addition they explained about SCADA (Supervisory Control and Data Acquisition) and various programming done in control room.

Students have visited following places at the site.

1) Control Room

- Control Panel
- Relay Panel
- Metering Panel
- Battery sets

2) Switch yard

- Lightening Arrester
- CT & PT
- Wave trap
- Circuit Breaker
- Isolators
- Earthing switch
- Power Transformers
- Capacitor bank
- Circuit Breaker


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After completion of the visit the students have got the idea about,

- Knowledge of different types Circuit breaker and Relay Substation.
- Operation sequence of different switch gears in Power transmission system.
- Different types of Protective Schemes used in Power system.
- Knowledge about SCADA and microprocessor relay for protection.