



Birla Vishwakarma Mahavidyalaya

A Report on Technical Visit To L&T Power and Training Institute, Vadodara

Date - 18 November 2017



**Department of Electrical Engineering
Birla Vishvakarma Mahavidyalaya
(Engineering College)
Vallabh Vidyanagar**

Starting Date & Time: **18/11/2017 , 08:30 am**

Pick up point: **BVM Engineering College, V.V.Nagar**

Venue & Place of Company: **L&T Knowledge City, Vadodara**

Duration: **1 Day**

Faculty Members:

- Prof. Dipen A. Parikh
- Prof. Ajay M. Patel

Co-ordinated by: **Prof. Rashesh P. Mehta**

Total Number of Students: **37 (2nd year students, Electrical)**

A technical tour for a day was organized for 2ND Year students of Electrical Engineering on 18th November, 2017 by Electrical Engineering Department of our college Birla Vishvakarma Mahavidyalaya under TEQIP-3. Students gathered at the college campus at around 8:30 am and total 37 students registered themselves for the visit. We had 2 faculties from Electrical Department along with us.

Introduction About The Organisation

- Larsen & Toubro Limited is the biggest legacy of two Danish Engineers, who built a world-class organization that is professionally managed and a leader in India's engineering and construction industry. Together, Holck-Larsen and Toubro founded the partnership firm of L&T in 1938, which was converted into a limited company on February 7, 1946.
- Headquartered in Mumbai, Larsen & Toubro Limited is one of the largest and most respected companies in India's private sector. With over 75 years of a strong, customer focused approach and a continuous quest for world-class quality, L&T has unmatched capabilities across Technology, Engineering, Construction and Manufacturing, and maintains a leadership in all its major lines of business.
- Larsen & Toubro Construction is India's largest construction organization. Many of the country's prized landmarks its exquisite buildings, tallest structures, largest industrial projects, longest flyover, and highest viaducts have been built by it.
- L&T Power provides the entire range of supercritical power equipment and services on EPC basis. Its integrated manufacturing facility at Hazira in Gujarat (India) with global partners has a manufacturing capacity of 5000 MW per annum. The L&T Campus is a state of the art structural facility for the training students who are pursuing their training at L&T Power and Training Institute Vadodara.



We were heartily welcomed to one of their class rooms by Mr. Pandya and Mr. Akash. All the faculty members were very frank and ready to answer our dilemmas and queries about the Power consumption scenario of India.



First Mr. Pandya gave us a brief introduction about the L&T PTI Vadodara and the courses that are offered for the trainee students.

Mr. Akash gave us information about the topics and the different fields to be covered in the course of power generation, distribution and transmission that they offer as a 5 to 10 days program tailored to fit the curriculum of the college.

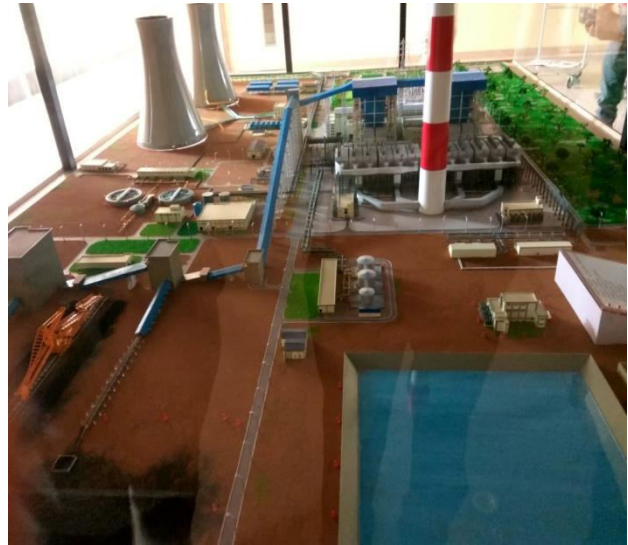


In the QnA session we got to know about how challenging it can be to work on a project, its implications and finishing it in stipulated time frame.

We gained information about Future of Solar Power in India We also got to know that Coal fired Power Plants are going to be continued as they give high reliability other than current ways of utilizing renewable energy sources.

After that tea and snacks were offered.

Overview of TPS model



They also explained us the detailed working of Supercritical Coal Fired Power Plant. A practical model was also kept so that students can get a better understanding of the whole power plant. We were able to see the turbine blades, Polycab wiring cables used, motors, valves and a lot of auxiliary equipment's used to increase the overall efficiency of the steam turbine and generator.

The control room of a virtual thermal power station was shown. It was fully autonomous and controlled by engineers. The faculty members thoroughly explained us about all its applications and effects. They also did a test run giving us an example of how a real control room of a TPS works.

It was a great experience, knowing so much about Power Stations from experienced faculty of L&T PTI.



Conclusion

The one day visit to L&T PTI Vadodara was a great decision made by the college, as all the 2nd Year Electrical students got to learn a lot about how theoretical studies and practical applications are synonymous as well as different from each other. Hence one should definitely get involved in seeing applications practically making their knowledge about it sound and strong.

We were also given tips about how to behave and gain an opportunity towards them while appearing in an interview.

In all, it was a very knowledgeable and helpful session for BVM S.Y. students with L&T PTI.