



# DATTAKALA GROUP OF INSTITUTIONS

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Date: -15/10/2025

## ELECTRICAL ENGINEERING DEPARTMENT

### INDUSTRIAL VISIT REPORT

2025-26

DATE	11 October 2025
DAY	Saturday
VENUE	Loni-Deokar
COMPANIES	Rajmudra Electricals
TIME	10am Onwards
ORGANISED BY	Electrical Department
CLASSES INVOLVED	SE & TE Students
FACULTIES INVOLVED	1) Ms. Tamboli M.S. (Co-ordinator) 2) Mrs. Shelke P.D.



**Date of visit: 11.10.2025**

On 11<sup>th</sup> October 2025 our department has organized a one day industrial visit to Rajmudra Power Electricals Loni Deokar. A team of 48 students with two faculty members have taken part in this industrial visit.

### **Company Profile:-**

From this visit, student got the detailed information and practical knowledge about Transformer Manufacturing. Power Transformer manufacturing process like Core & Winding manufacturing, cooling process and Testing etc. To understand how actual equipment looks and how it's processing, to see the latest advancements of equipment, management in plant and safety to be followed Electrical industries. The company is known for **manufacturing, assembling, and testing of electrical transformers** used in various low-voltage and distribution-level applications. Also to experience the job and responsibilities of an Electrical Engineer.

The visit aimed to provide students with real-time exposure to transformer manufacturing processes, testing procedures, and industrial safety practices.

In the morning at 10:30 a.m. we visited "Rajmudra Electricals". Before entry to the manufacturing area a very informative session about the company and the safety instructions to be provided the personal protective equipment like 'Helmet' to be safe at the workplace. From 10:30 a.m. industrial visit was started, we visited to manufacturing plants of Transformer.

Wide range of power transformers from medium to ultra (1200 kV AC) and from small (5 MVA) to very large power ratings (500 MVA) tailored to meet global customer's needs.

### **Objectives of the Visit**

- To study the manufacturing process of electrical transformers.
- To understand transformer winding, core construction, and insulation techniques.
- To observe various testing methods such as insulation resistance, turns ratio, and load testing.
- To gain knowledge about quality standards followed in transformer production.
- To expose students to modern industrial equipment used in electrical manufacturing industries.
- To enhance practical understanding beyond classroom learning.

### **About Rajmudra Electricals (Transformer Manufacturing Unit)**

Rajmudra Electricals is a reputed company engaged in:

- Manufacturing of distribution and small power transformers
- Winding of LV & HV coils
- Core assembly and tank fabrication

- Transformer oil filtration
- Routine and type testing
- Maintenance and servicing of transformers

The unit follows standard guidelines such as IS standards for transformer construction and electrical safety norms.

## **Activities Conducted During the Visit**

### **➤ Safety Briefing**

Students were informed about:

- PPE requirements
- Safety around high-voltage equipment
- Fire safety and emergency precautions

### **➤ Transformer Manufacturing Section**

Students observed:

- Core cutting and core lamination
- Stacking of CRGO laminations
- LV & HV winding process
- Insulation materials and techniques
- Assembly of windings on the core.

### **➤ Tank Fabrication & Oil Section**

- Tank manufacturing process
- Transformer oil filtration
- Vacuum drying and oil filling procedures



## ➤ Testing Laboratory

Demonstrations included:

- Transformer turns ratio (TTR) test
- Insulation resistance (IR) test
- Winding resistance measurement
- No-load test
- Short-circuit test
- Oil BDV testing

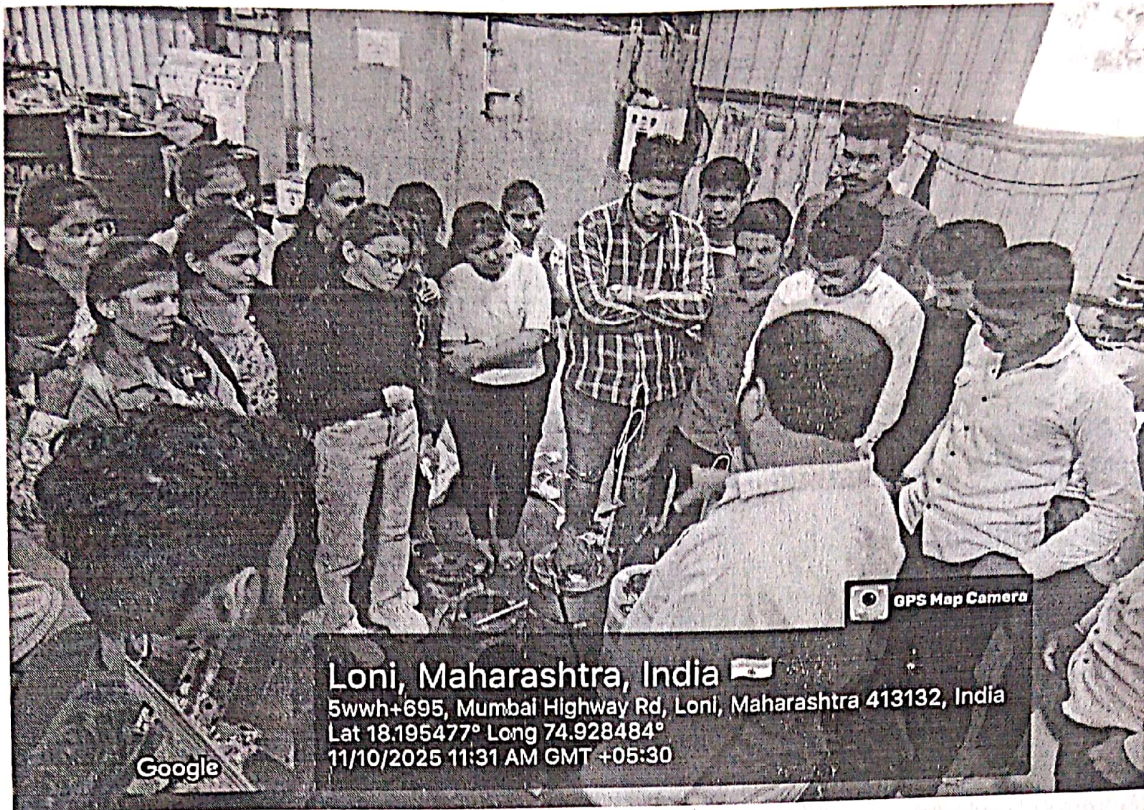
Student gained knowledge of transformer construction, Knowledge of different testing procedures, Awareness of industrial safety and quality control, Exposure to real-time manufacturing operations and Improved technical confidence and practical skills. About 48 students were benefited from this visit as they got chance to discussion with Mr.Deokar T.V.

The industrial visit to Rajmudra Electricals (Transformer Manufacturing Company) was highly informative and beneficial. Students observed various stages of transformer manufacturing and testing, enhancing their technical knowledge and providing valuable industry exposure.

The visit successfully met its objectives and contributed to the professional development of SE and TE Electrical Engineering students.







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