

A Report on
One day Industrial Visit to POWERICA LIMITED, Bangalore
Organised by Department of EEE
On 15-11-2024

Submitted by: Mr. R. Ramesh Kumar, Asst. Professor, EEE Dept. and Mr. K. S. Rajesh Asst. Professor, EEE Dept.

Participants: III Year I semester, B. Tech III Year EEE students

Venue: POWERICA LIMITED, Bangalore

Date & Time of Event: 15-11-2024, 10:30 AM to 3:00 PM

Total no. of Participants: 46 Students + 3 Faculty Members

Organizer: Mr. K N Naidu, Electrical Consultant and Dr. T S Balaji Damodhar, Assistant Professor, EEE Dept.

Faculty Accompanied: Mr. K. S. Rajesh, Mr. R. Ramesh Kumar and Mrs. Sujatha

Report Submitted on: 19.11.2024

Company Profile:

Powerica Limited, was established in the year 1984 under the dynamic leadership of visionary Mr. Naresh Oberoi. It is also promoted by Bharat Naresh Oberoi and Kharatiram Kharak Puri, who have been involved in the diesel generator set business for several decades. Powerica has evolved to become a leading end-to-end power solution provider in conventional diesel-based, standby and prime power applications. Dynamic growth across verticals has also led Powerica to have a strong footprint in renewable energy projects.

Powerica is the Original Equipment Manufacturer (OEM) in India for Cummins India Limited, the global leaders in the design, manufacture, distribution and servicing of diesel engines.

The company is engaged in manufacturing of diesel generating sets, components and erection, supply-installation-testing & commissioning (SITC), operation maintenance, and other services relating to diesel generating sets. These services are provided for diesel generating sets with capacities from 7.5kVA to 2750kVA prime. In addition, they design and manufacture HHP (750kVA to 2000kVA) sound attenuated containerized DG sets that are portable and simple to install & ready to use (RTU) plug-and-play.

Objective of the Industrial Visit:

The objective of this industrial visit is to provide students with a practical understanding of control panel wiring and diesel generator assembly processes. Specifically, the visit aims to:

1. **Understand Industrial Practices:** Observe the design, layout, and wiring processes involved in the assembly of control panels used in diesel generator set applications.
2. **Learn Functional Details:** Gain insights into the operation and functionality of diesel generator systems, including the integration of control panels for efficient operation.
3. **Explore Safety Standards:** Familiarize participants with safety protocols, quality control measures, and best practices followed during the assembly and testing of electrical components.
4. **Enhance Technical Skills:** Bridge theoretical knowledge with real-world applications by witnessing live demonstrations and interacting with professionals in the field.
5. **Develop Awareness of Industry Trends:** Understand the role of automation, advanced materials, and modern technologies in improving the efficiency and reliability of control panels and diesel generators.

The details of the Industrial visit are as follows:

The Department of Electrical and Electronics Engineering, MITS, Madanapalle organized a one-day Industrial Visit to “**POWERICA LIMITED, Bangalore**”, on 15th November 2024 for Third year students. The visit was organized with the prior permission and guidance of **Dr. C. Yuvaraj** Professor & Principal and **Dr. A.V. Pavan Kumar** Professor & Head of the Department. A total of 46 students along with 3 faculty members have joined the visit.

1. We started from our college premises sharply at 6.00 AM on 15th November 2024.
2. We reached “**POWERICA LIMITED, Bangalore**”, by 10:30 AM
3. Upon arrival, participants were warmly welcomed by the company representative **Mr. Seetharam**, DGM – HR and IR.
4. At 11.00 AM, we visited the Control Panel Wiring Section with the Senior Engineer Mr. Sunil Leema, where the assembly and wiring on Control Panels for the DG Set was explained to the students by Mr. G.V. Mahadev, Senior Engineer and Mr Gopi, Senior Engineer.

- At 12.00 PM, we have been taken to Pre-Treatment department where CNC Bending, Punching, Fabrication and Powder Coating of the DG outer casing was explained to the students by Mr.Sanjay L, Technical Trainee.
- At 1.00 PM, we moved to the DG Set Assembly Section where Mr. Sunil Leema, Senior Engineer (Maintenance Department) gave a detailed overview of the Diesel Generator assembly process and various parts of the DG Set.
- At 2.00 PM, the company had provided lunch to the students and faculty members visited.
- At 3.00 PM we headed back to our college and reached at about 8.00 PM.

Outcome of the Industrial Visit:

- Practical Exposure:** Participants gained an exposure to the processes and techniques involved in control panel wiring and diesel generator assembly.
- Enhanced Technical Knowledge:** Improved understanding of the design, functionality, and integration of control panels with diesel generators for industrial applications.
- Understanding Safety and Standards:** Familiarity with industry-standard safety practices, quality assurance protocols, and compliance requirements in electrical system assembly.
- Appreciation of Modern Technology:** Awareness of the latest advancements in automation, materials, and technology used to improve the efficiency and reliability of control systems and power generators.
- Internship Opportunity:** Students have the opportunity to undertake internships to enhance their industry-relevant skills.

Sample Photos:



Sample Feedback from Industry and Students:

Madanapalle Institute of Technology and Science,
Department of Electrical and Electronics Engineering

FEEDBACK REPORT ON INDUSTRIAL VISIT

CLASS: B. Tech III Year I semester **ACADEMIC YEAR:** 2024-25

Name and Address of Industry Visited: Powerica Limited, Bommanahalli, Bengaluru.

Date: 15.11.2024 **Duration:** 10.30Am to 2.00Pm

Beneficiary Dept.: EEE **Year/Semester:** III / I

Total No. of Students: 46

Industrial Visit organized by: Dr T S Balaji Demodhar, Assistant Professor, Dept. of EEE

Name of industrial visit in charge and other Faculty who accompanied the students:

Site in charge: Mr. Seetharam, DGM - HR & IR

Other Faculty Names:

- Mr. K. S. Rajesh
- Mr. R. Ramesh Kumar
- Mrs. Sujatha

Contact Person at Industry: Mr. Raghavendra Prasad
(Sr Manager Project Marketing) - Powerica Limited

Visit related to the subject: Electrical Power Generation Systems & PLC Automations.

During the visit, the students were taken to following Departments in the Industry.

14- Shed-04, CNC Bending, Punching, Fabrication, Powder Coating & Pre-Treatment Department

24- Shed-01, 02 & 03, D.G. Assembly

34- Shed-01A - Control Panel Wiring Section.

Names of Student who offered feedback (Feedback enclosed)

- Talla Chaitanya Lakshmi (22691A0205)
- G. Reddy Bashta (22691A0233)
- M. Meenakshi (22695A0202) For POWERICA LIMITED
- B. Vishnu Vardhan Reddy (22695A0216)

Sign of industrial Visit in charge with Seal: GM-HR & Admin

Sign of Faculty in charge: Sign of Faculty Organizer

Sign of Faculty in charge: Sign of Faculty Organizer

Seal: POWERICA LIMITED

Head of the Department: Electrical & Electronics Engineering
Madanapalle Institute of Technology & Science
MADANAPALLE - 517 325

Each:

- Industrial Visit report with photographs,
- Permission letter

INDUSTRIAL VISIT FEEDBACK FORM

Name of the Student: Tala Chaitanya Lakshmi Course, Branch & Semester: III Year I Semester-EEE
Name of the Industry: Powerica Limited, Bengaluru. Date: 15.11.2024 22691A0205
Type of Interaction: Industrial Visit

Questions	Response of Students			
Relevance of the industrial visits (or input received) w.r.t your curriculum	<input checked="" type="radio"/> Excellent	<input type="radio"/> Good	<input type="radio"/> Fair	<input type="radio"/> Poor
Whether any specific official was assigned for you during the training (or visits)	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
Willingness to share information & details by the officials of the organization	<input checked="" type="radio"/> Excellent	<input type="radio"/> Good	<input type="radio"/> Fair	<input type="radio"/> Poor
Access to different facilities of interest to you - for observation, gather knowledge and get your clarifications cleared	<input type="radio"/> Excellent	<input checked="" type="radio"/> Good	<input type="radio"/> Fair	<input type="radio"/> Poor
Whether any relevant technical literature explained by the Industry person	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
Was the whole training based on a well-defined schedule and adherence to the schedule?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
Was the opportunity given for you to work on real time problem or practical problem or on the day to day activities of the organization?	<input type="radio"/> Yes	<input checked="" type="radio"/> No		
Do the people in the organization encourage interaction with them or extended support in clarifying your doubts or providing information you have sought for?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
Hospitality of the industry (willingness to help you for any problems faced during the period where it is agreed upon etc.)	<input checked="" type="radio"/> Excellent	<input type="radio"/> Good	<input type="radio"/> Fair	<input type="radio"/> Poor
Overall usefulness of the interaction with the industry	<input checked="" type="radio"/> Excellent	<input type="radio"/> Good	<input type="radio"/> Fair	<input type="radio"/> Poor
Your recommendation for considering this organization for Industrial visit (or industry institute interaction) in future	<input type="radio"/> Strong	<input checked="" type="radio"/> Can be considered	<input type="radio"/> Not	

T. Chaitanya
Signature

INDUSTRIAL VISIT FEEDBACK FORM

22691A0216

Name of the Student: S. V. Venkatesh Reddy Course, Branch & Semester: III Year I Semester-EEE
Name of the Industry: Powerica Limited, Bengaluru. Date: 15.11.2024
Type of Interaction: Industrial Visit

Questions	Response of Students			
Relevance of the industrial visits (or input received) w.r.t your curriculum	<input type="radio"/> Excellent	<input checked="" type="radio"/> Good	<input type="radio"/> Fair	<input type="radio"/> Poor
Whether any specific official was assigned for you during the training (or visits)	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
Willingness to share information & details by the officials of the organization	<input checked="" type="radio"/> Excellent	<input type="radio"/> Good	<input type="radio"/> Fair	<input type="radio"/> Poor
Access to different facilities of interest to you - for observation, gather knowledge and get your clarifications cleared	<input type="radio"/> Excellent	<input checked="" type="radio"/> Good	<input type="radio"/> Fair	<input type="radio"/> Poor
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Hospitality of the industry (willingness to help you for any problems faced during the period where it is agreed upon etc.)	<input type="radio"/> Excellent	<input checked="" type="radio"/> Good	<input type="radio"/> Fair	<input type="radio"/> Poor
Overall usefulness of the interaction with the industry	<input type="radio"/> Excellent	<input checked="" type="radio"/> Good	<input type="radio"/> Fair	<input type="radio"/> Poor
Your recommendation for considering this organization for Industrial visit (or industry institute interaction) in future	<input type="radio"/> Strong	<input checked="" type="radio"/> Can be considered	<input type="radio"/> Not	

S. V. Venkatesh Reddy
Signature

Acknowledgments:

We express our sincere gratitude to the Management, Principal, Dean-Administration, Vice Principal (Academics and Administration), Associate Dean-IIIC, Head of the Department-EEE and Academic Head (EEE) for their unwavering support and encouragement. We extend our heartfelt gratitude to Mr. K. N. Naidu, Electrical Consultant, for his invaluable assistance in obtaining permission for the industrial visit. Their continuous backing was instrumental in organizing and facilitating this insightful industrial visit, providing our students with a platform to bridge theoretical learning with practical exposure.