SANDIP UNIVERSITY

Electrical and Electronic Engineering DepartmentSchool of Engineering & Technology
Academic Year 2023-24

Event Report

1. **Event Title:** Electrical Panel (63 amp Minipillar Outdoor Electrical Panels) design under Sandip University Consultancy Work.
2. **Event Date:** 12/07/2023 to 12/08/2023
3. **Event Conduction Duration:** 1 Month
4. **Event Mode:** Field work
5. **Event Resource Person Details:**

i) Dr. P.G. Burade
Associate Dean Engg.
Sandip University

ii) Dr. P.L. Naktode
Consultancy Head & HOD,
Civil Engg., Sandip University

6. **Name of Event Coordinator with contact details:**

Dr. Mangesh Nikose - HOD,EEED,Sandip University,Nashik
Mr. Harshal Shelar – Assistant Professor,EEED,Sandip University,Nashik
Mr. Harshal Chaughule – Assistant Professor,EEED,Sandip University,Nashik
Mr. Yogesh Kahandal – Technical Assistant,EEED,Sandip University,Nashik

Report Prepared By : Mr. Yogesh Kahandal ,TA , EEED, SOET

7. **Event Outline & Outcome of the event:**

Introduction: The Electrical & Electronics Engineering department at SOET, Nashik successfully completed the consultancy work of making 5 electrical panels (63 amp Minipillar Outdoor Electrical Panels). This report provides an overview of the project, including the scope, objectives, methodology, and outcomes. We are also include 3rd Year students in This activity on the basis of Experiantial learning Programme.

Scope: The scope of this consultancy work was to design, develop, and construct five electrical panels for a specific application. The panels were required to meet the client's specifications, industry standards, and safety guidelines. The project involved a comprehensive analysis of the electrical requirements, selection of suitable components, and the integration of various systems.

Objectives: The primary objectives of this consultancy work were as follows:

Understand the client's requirements and specifications for the electrical panels.
Design a comprehensive electrical panel layout that meets the specified criteria.
Select appropriate electrical components and equipment for the panels.
Ensure compliance with relevant industry standards and safety regulations.
Construct the panels with utmost precision and attention to detail.
Test and validate the functionality and performance of the panels.
Deliver the completed panels to the client within the agreed-upon timeframe.

Methodology: The consultancy work followed a systematic approach, which involved the following steps:

Requirement Analysis:

Detailed discussions and meetings with the client to understand their specific requirements.
Gathering information about the electrical load, circuitry, and operational parameters.
Assessing the space available for panel installation.

Design and Layout:

Creating a comprehensive electrical panel layout, taking into account the client's requirements.
Selecting appropriate electrical components, such as circuit breakers, relays, meters, and connectors.
Ensuring proper sizing and compatibility of components to handle the electrical load.
Construction and Assembly:

Procuring high-quality materials and components from trusted suppliers.
Fabricating the panels according to the approved design and layout.
Ensuring proper wiring, insulation, grounding, and labeling of all components.
Adhering to safety standards and guidelines during the assembly process.

Testing and Validation:

Conducting rigorous testing to verify the functionality and performance of each panel.
Checking for any electrical faults, short circuits, or malfunctions.
Making necessary adjustments and modifications to ensure optimal performance.

Outcomes: The successful completion of this consultancy work resulted in the following outcomes:

5 fully functional electrical panels were constructed and delivered to the client.
The panels met all the specified requirements, including electrical load capacity and circuitry.
The panels complied with relevant industry standards and safety regulations.
The client expressed satisfaction with the quality and performance of the panels.
The project was completed within the agreed-upon timeframe and budget.

Conclusion: The Electrical & Electronics Engineering department at SOET, Nashik has successfully completed the consultancy work of making five electrical panels. The project involved a thorough analysis of requirements, careful design and layout, precise construction and assembly, and rigorous testing and validation. The delivered panels met all the specified criteria and were well-received by the client. The department's adherence to industry standards and safety regulations ensured the panels' reliability and performance. Overall, this consultancy work showcased the department's expertise in electrical panel design and construction.

6. <u>Event photos:</u>


LEVEL MEASURMENT
TECHNIQUES
PULL&BEAR


SANDIP
UNIVERSITY


School
of
Engineering
and
SANDIP
UNIVERSITY