Design of an Electrical Supply System for Sun Square Building

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***Abstract*—This thesis presents the design of an electrical supply system for the Sun Square building. The design includes the layout of wiring, protective devices, electrical panels, switches, sockets, and lighting. Short-circuit calculations were performed to ensure the system's safety and proper operation. The author acknowledges the limitations of the design due to limited knowledge and time for research. The design is based on theoretical knowledge and calculations, but practical experience is limited.**

***Index Terms*—electrical supply system, Sun Square building, short-circuit calculation, protective devices, wiring, lighting**

I. Introduction

The thesis focuses on the design of an electrical supply system for the Sun Square building. The design covers the layout of wiring, protective devices, electrical panels, switches, sockets, and lighting. Short-circuit calculations were performed to ensure the system's safety and proper operation. The design process involved the layout of wiring, selection of protective devices, electrical panels, switches, sockets, and lighting. The calculations were based on standard formulas and data from reference books. The author acknowledges the limitations of the design due to limited knowledge and time for research. The design is based on theoretical knowledge and calculations, but practical experience is limited.

II. Methods

The design process involved the layout of wiring, selection of protective devices, electrical panels, switches, sockets, and lighting. Short-circuit calculations were performed to ensure the system's safety and proper operation. The calculations were based on standard formulas and data from reference books. The author used the reference books and standard formulas to perform the calculations. The calculations involved determining the short-circuit current and the instantaneous current peak. The author acknowledges the limitations of the design due to limited knowledge and time for research. The design is based on theoretical knowledge and calculations, but practical experience is limited.

III. Results

The short-circuit calculations were performed for the high-voltage and low-voltage networks. The results were used to design and adjust the protection system. The calculations involved determining the short-circuit current and the instantaneous current peak. The author acknowledges the limitations of the design due to limited knowledge and time for research. The design is based on theoretical knowledge and calculations, but practical experience is limited.

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IV. Discussion

The author acknowledges the limitations of the design due to limited knowledge and time for research. The design is based on theoretical knowledge and calculations, but practical experience is limited. The author's design process involved the layout of wiring, selection of protective devices, electrical panels, switches, sockets, and lighting. The calculations were based on standard formulas and data from reference books. The author acknowledges the limitations of the design due to limited knowledge and time for research. The design is based on theoretical knowledge and calculations, but practical experience is limited.

V. Conclusion

After three months of work, the author completed the design of the electrical supply system for the Sun Square building. The design helped the author understand the design of electrical supply systems better. Despite efforts, the design still has some shortcomings due to limited knowledge and time. The author acknowledges the limitations of the design due to limited knowledge and time for research. The design is based on theoretical knowledge and calculations, but practical experience is limited.

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