Design of an Electrical Power Supply System for a Sugar Factory

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***Abstract*—This thesis focuses on the design of power supply for a sugar factory, covering the calculation of load, design of low and high voltage power distribution networks, and the design of lighting systems. The author completed the design according to international and Vietnamese standards, ensuring technical, safety, aesthetic, and economic requirements. The work involved the use of software such as DIALux for lighting design and AutoCAD for electrical network design. The thesis details the design process, including the calculation of load, design of power distribution networks, and the design of lighting systems. The author used DIALux to design the lighting systems and AutoCAD to design the electrical networks. The design was completed according to international and Vietnamese standards, ensuring technical, safety, aesthetic, and economic requirements. The author gained valuable experience and knowledge in designing power supply systems.**

***Index Terms*—power supply, road factory, lighting design, AutoCAD, DIALux**

I. Introduction

The thesis aims to design the power supply for a sugar factory, covering the calculation of load, design of power distribution networks, and the design of lighting systems. The author completed the design according to international and Vietnamese standards, ensuring technical, safety, aesthetic, and economic requirements. The design process involved the calculation of load, design of power distribution networks, and the design of lighting systems. The author used DIALux for lighting design and AutoCAD for electrical network design. The design was completed according to international and Vietnamese standards, ensuring technical, safety, aesthetic, and economic requirements [1].

II. Methods

The author used DIALux for lighting design and AutoCAD for electrical network design. The design process involved the calculation of load, design of power distribution networks, and the design of lighting systems. The author used DIALux to design the lighting systems and AutoCAD to design the electrical networks. The design was completed according to international and Vietnamese standards, ensuring technical, safety, aesthetic, and economic requirements. The author followed the design process to ensure that the power supply system met the necessary standards and requirements [1].

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III. Results

The author successfully completed the design of the power supply for the sugar factory, including the calculation of load, design of power distribution networks, and the design of lighting systems. The design was completed according to international and Vietnamese standards, ensuring technical, safety, aesthetic, and economic requirements. The author used DIALux to design the lighting systems and AutoCAD to design the electrical networks. The design process involved the calculation of load, design of power distribution networks, and the design of lighting systems. The author followed the design process to ensure that the power supply system met the necessary standards and requirements [1].

IV. Discussion

The design process involved the calculation of load, design of power distribution networks, and the design of lighting systems. The author used DIALux for lighting design and AutoCAD for electrical network design. The design was completed according to international and Vietnamese standards, ensuring technical, safety, aesthetic, and economic requirements. The author gained valuable experience and knowledge in designing power supply systems. The design process was completed according to the standards and requirements, ensuring that the power supply system was technically sound and met the necessary safety, aesthetic, and economic requirements [1].

V. Conclusion

The thesis successfully designed the power supply for a sugar factory, including the calculation of load, design of power distribution networks, and the design of lighting systems. The design was completed according to international and Vietnamese standards, ensuring technical, safety, aesthetic, and economic requirements. The author gained valuable experience and knowledge in designing power supply systems. The author used DIALux for lighting design and AutoCAD for electrical network design. The design process involved the calculation of load, design of power distribution networks, and the design of lighting systems. The author followed the design process to ensure that the power supply system met the necessary standards and requirements [1].

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