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**A PROPOSED DESIGN OF AN INTEGRATED PUBLIC TRANSPORTATION TERMINAL  
IN BARANGAY IGTUBA, MIAGAO, ILOILO**

A Proposal

Presented to

The Faculty of the Department of Civil of Engineering  
Central Philippine University  
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In Partial Fulfillment

Of the Requirements for the degree

**BACHELOR OF SCIENCE IN CIVIL ENGINEERING**

By

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# **A PROPOSED DESIGN OF AN INTEGRATED PUBLIC TRANSPORTATION**

## **TERMINAL IN BRGY. IGTUBA, MIAGAO, ILOILO**

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### **ABSTRACT**

Transportation in Miagao is widely used because even though it is a place which is located in a rural area, it is highly industrialized. Because of this, people tend to have problems regarding transportation for Miagao doesn't have a proper transportation terminal. Thus, this gives rise to the main objective of this study which is designing an integrated transportation terminal that benefits not only the locality, but also the tourist that often visits the area.

The proposed project in Brgy. Igtuba, Miagao is an integrated terminal, that can house 5 jeepneys, 60 tricycles and can cater loading/unloading buses. The proposed structure has a land area of 4,167 sq. meters, that consist of cafeteria, comfort rooms, offices for officials, waiting area and loading/unloading area for different kinds of transportation. The project is also installed with green building technology such as rainwater harvesting and natural lighting, the purpose of which is to lessen the consumption of electricity and water.. This study includes the architectural design, electrical and plumbing layout, structural details, cost estimate, scheduling and traffic flow plan. The structural members were designed and based on the National Structural Code of the Philippines 2010. The total cost of the project is ₱ 18,535,416.00. For the design loads, dead load for the second floor is 5.946 kPa with a corresponding live load of 2.9 kPa. The Municipality of Miagao will be the one to provide the budget for the entire proposed project. The total duration of the project is 321 days