COST ESTIMATE, PROJECT MANAGEMENT, AND STRUCTURAL DESIGN ANALYSIS OF THE PROPOSED FACILITIES FOR ROMBLON STATE UNIVERSITY AGPUDLOS CAMPUS, SAN ANDRES, ROMBLON

A Thesis
Presented to the
Faculty of the College of Engineering and Technology
Romblon State University
Odiongan, Romblon

In Partial Fulfillment of the Requirements
For the Degree of
BACHELOR OF SCIENCE I N CIVIL ENGINEERING

By:

Ronel F. Cardenas
Mark Anthony F. Escarilla
Harold D. Española
Ma. Salve G. Gregorio
Jake Emelito Manalon
Patrick E. Meñez
Marichu F. Merano
Kim C. Montesa
Kahlen Ze F. Montoya
Ani Miguel F. Soguilon

April 2016

APPROVAL SHEET

In partial fulfillment of the requirements for the degree of Bachelor of Science in Civil Engineering, this project study entitled, **"COST ESTIMATE, PROJECT MANAGEMENT AND STRUCTURAL DESIGN ANALYSIS OF THE PROPOSED FACILITIES FOR ROMBLON STATE UNIVERSITY, AGPUDLOS CAMPUS, SAN ANDRES, ROMBLON"** has been prepared and submitted by **RONEL F. CARDENAS, MARK ANTHONY F. ESCARILLA, HAROLD D. ESPAÑOLA, MA. SALVE G. GREGORIO,JAKE EMELITO F. MANALON, PATRICK E. MEÑEZ, MARICHU F. MERANO, KIM C. MONTESA, KAHLEN ZE MONTOYA** , and **ANI MIGUEL F. SOGUILON**, who are hereby recommended for oral examination

PROF. EDDIE M. FABILA
Member, Panel of Examiner

ENGR. RAYMOND JAY G. SEVERO
Member, Panel of Examiner

ENGR. EDISON S. FAJUTRAO
Member, Panel of Examiner

ENGR. ORLEY G. FADRIQUEL
Member, Panel of Examiner

ENGR. REYNALDO P. RAMOS Ph. D
Chairman, Panel of Examiner

ENGR. JASON F. RUFON
Thesis Adviser

Approved and accepted as a partial fulfillment of the requirement for the degree of Bachelor of Science in Civil Engineering.

ENGR. APRILLE ANN M. SIM
Chairman, Civil Engineering Department

ENGR. ORLEY G. FADRIQUEL
Dean, College of Engineering and Technology
Romblon State University

ABSTRACT

CARDENAS, RONEL F., ESCARILLA, MARK ANTHONY F., ESPAÑOLA, HAROLD D., GREGORIO, MA. SALVE G., MANALON, JAKE EMELITO F., MEÑEZ, PATRICK E., MERANO, MARICHU F., MONTESA, KIM C., MONTOYA, KAHLEN ZE F., SOGUILON ANI MIGUEL F. Romblon State University , April 2016. **Cost Estimate, Project Management, and Structural Design Analysis of the Proposed Facilities for Romblon State University, Agpudlos Campus, San Andres Romblon.**

Adviser: **ENGR. JASON F. RUFON**

Before an actual construction of a project, different sectors involved in the project construction are in need of dependable data about the feasibility of a project on the early stages. This study aimed to present a reliable Cost Estimate, Project Management, and Structural Design Analysis of the Proposed Facilities for Romblon State University, Agpudlos Campus, San Andres Romblon. It sought to answer the following questions:

1. Project Management

    1.1 How many personnel are needed to construct the project?

    1.2 How long will the construction of each structure be completed?

2. Cost Estimate

    2.1 What is the estimated cost of the project?

3. Structural Design Analysis

    3.1 What are the design considerations that must be taken into account to ensure the integrity of the structures?

The result of the study will provide the University Board, Directors, Faculty, contractors, the students, the local people, and the local government much information about the viability of the project. The study was conducted at Barangay Agpudlos, San Andres, Romblon during the school year 2015-2016.

All the designs and specifications were provided by the office of the Auxilary Plant Services and Pollution Control Unit, Detailed Cost Estimate, Project Management Plan and Structural Design Analysis.

The results of the study shown that a budget amounting to 79, 600, 752.08 pesos is needed to implement the project. The length of days to finish the construction of each facility varies depending on the activities involved for each facility. For the academic building a design analysis is conducted following the codes and guidelines provided by the NSCP. The structural design analysis showed that the structure is safe for bending, shear and deflection.

After examining the result of the study the researchers came up with following recommendations. Further studies must be conducted before the project implementation. Soil test and other tests must be conducted in the area and that environmental studies as well as parameters and mitigation must be implemented before the construction of the project.