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**PROPOSED DESIGN OF A TWO-STOREY PRIMARY HEALTHCARE
FACILITY IN BARANGAY MALUNANG, ZARRAGA, ILOILO**

A Project Study

Presented to

The Faculty of the Department of Civil Engineering
Central Philippine University
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By

Rayan Ahmad C. Barodi

Lenard Z. Delos Reyes

Mc Julliam Christian M. Hermocilla

John Dave S. Mendoza

Jude Salter M. Toriaga

John Ryan B. Yu

Engr. Shevanee Ruth G. Dela Cruz

Adviser

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A PROPOSED HEALTH CARE CENTER FACILITY IN ZARRAGA , ILOILO

Lenard Z. De los Reyes; Jude M. Salter Toriaga; Mc Julliam Christian M. Hermocilla;
John Dave S. Mendoza; John Ryan B. Yu; Rayan C. Ahmad Barodi

ABSTRACT

The Municipality of Zarraga is facing a problem due to the absence of a 24-hour primary healthcare facility that is well-equipped, and the lack of specialized medical response for morbidity cases. In response, the Municipal Engineering Office (MEO), and Municipal Disaster Risk Reduction and Management Office (MDRRMO) of Zarraga proposed a two-storey Primary Healthcare Facility that can provide immediate primary care and overnight accommodations for patients in need. This study encompasses the architectural design, structural plans, electrical and plumbing layout, cost estimation, and scheduling. The design incorporated Green Building Technologies and complied with the National Structural Code of the Philippines (NSCP) 2015, National Building Code of the Philippines (NBCP), and the Ultimate Stress Design (USD). AutoCAD, STAAD.Pro, Sketchup Pro, and Microsoft Excel were utilized for the calculations and design. The estimated cost of the project is PHP 10,358,808.53 with a 40-week duration. The Department of Health (DOH) Region VI and the Municipal Planning and Development Office (MPDO) provided the budget and funds. The project's structural design of the project is advisable to be reviewed, which were overseen by registered civil engineers and faculty members from Central Philippine University's Civil Engineering Department, to ensure that they comply with the necessary design principles and parameters