

**PROPOSED HOUSING UNIT DESIGN ON A PRELIMINARY SITE DEVELOPMENT
PLAN FOR INDIGENOUS PEOPLE OF BRGY. DACAL SAN ENRIQUE, ILOILO**

A Project Study

Presented to

The Faculty of the Department of Civil Engineering

Central Philippine University

Jaro, Iloilo City, Philippines

In Partial Fulfilment

of the Requirements for the Degree of
Bachelor of Science in Civil Engineering

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June 2022

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ABSTRACT

The Indigenous People (IP) are considered to be underprivileged, without access to safe and secured abodes, unlike other members of the community to which they belong. This project study proposes a site development plan for the six (6)% IP of Barangay Dacal San Enrique, Iloilo, and also focuses on the design of a typical dwelling for an IP family of five (5). Specifically, the proposed plan includes allotted spaces for the commercial strip, community facility and tribal hall, community park, community gardens, low-rise buildings, material recovery facility, water source facility, road networks, drainage systems, electrical and power supply, and 56 housing units. Also, the site development meets the standard of Batas Pambansa Blg. 220, National Housing Authority, and the Housing and Land Use Regulatory Board, for the allocation of the settlements and for the structures to be included. The typical residential unit is designed with consultations from professionals, IP leaders, and the local DSWD. Moreover, the 25-square meter structure conforms to the National Structural Code of the Philippines 2015, National Housing Authority Standards, and other relevant engineering design minimum standards. Natural lighting, Light Emitting Diode (LED) lights, wind turbines, solar panels, and rainwater catchment are the special features incorporated into the design of the proposed project. Architectural, structural, electrical and plumbing plans are provided in the main paper as well as construction specifications, cost estimates, and construction schedule conforming to the minimum standard design in the Philippines. The estimated cost of one house is approximately P497,554.17 with a construction duration of about 30 days which shall be jointly funded by the local government San Enrique and DSWD.