

PROPOSED DESIGN OF TWO-STOREY MUNICIPAL LIBRARY BUILDING WITH
ROOFDECK IN LAMBUNAO, ILOILO

A Project Study

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The Faculty of the Department of Civil Engineering

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ABSTRACT

A public library plays a vital role in establishing the community's needs in enhancing knowledge and culture, especially in a first-class municipality like Lambunao. For the Municipality of Lambunao, the absence of a public library and public museums were the main issues identified that led to the proposal of this study. Thus, a two-storey municipal library building with roof deck is proposed to be constructed at Bonifacio St. Pob. Ilawod, Lambunao, Iloilo. It includes the architectural, structural, electrical, and plumbing designs based on the existing codes and provisions. The cost estimates, construction specifications and work schedules are also added in this proposal. Furthermore, it emphasizes the concept of a Green Library, highlighting the distinctions between traditional libraries and sustainable structures. It incorporates the operation of rainwater harvesting system, solar panels, and natural lighting. The proposed structure has a floor area of 295.61 sq.m. per level and 339.53 sq.m. for the roof deck. It is expected to last for 510 days with an estimated cost of PHP 35,099,300.82, which shall be funded by the Municipal's Engineering Office. Through this project study, it will improve the education and cultural awareness of the people living in the town that will further enrich the community. This study recommends the implementation of this project and it should be checked further by the engineering office. Also, soil analysis should be done for verification of the result, and once the project is completely operational, safety and security devices which includes; CCTVs, fences and other necessary security measure should be installed.