

**Assessment of Rainwater Harvesting Potential of Selected
Buildings in CPU Campus**



A Research Report

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ABSTRACT

Assessment of rainwater harvesting potential of selected buildings in Central Philippine University (CPU) aims to assess the said buildings for rainwater collection and utilization. Specific areas of concerns are type of roofing, catchment area, annual rainfall data in Iloilo, volume of rainwater that could be harvested monthly during the wet and dry season and the total volume of rainwater that could be harvested annually.

Moreover, this study might help the CPU administration in considering alternative sources of water supply and in designing the appropriate sizes of rainwater tanks. Using the formula $Q = CIA$ for the amount of water to be harvested, the estimated monthly potential harvest is 2,753.8 cubic meters. During wet season, the potential harvest is 23,962.77 cubic meters annually while during dry season 9,079.244 cubic meters or a total of 33,042.017 cubic meters. Furthermore, with the growing population in CPU every year, the demand for water is expected to increase and so the need for additional source of water supply is imperative. This study may be used as a basis in choosing the best alternative source of water supply in the campus.