

ABSTRACT

RAINWATER HARVESTING SYSTEM IN DESIGNING THE HOUSE BASED ON PHILOSOPHY LOCAL WISDOM TRADITIONAL HOUSE LAMPUNG

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Rainwater harvesting rarely do in indonesia. Perpetrators of rainwater harvesting in Indonesia is still around 2.3 % of all the people of Indonesia . Though Indonesia has the potential rainfall enough to be used . This study aims to recommend design the house based on philosophy of traditional houses Lampung . In this modern home design , part of the house at the bottom of the stage house is used as rainwater (rainwater harvesting) to ensure the availability of water in the house in question and reduce the risk of flooding in the region and reduce the risk of home against flood water level .

Design houses in this study is result of the combination between the home design modern or minimalist commonly found in residential housing using local wisdom philosophy custom home Lampung. This home has a concept design of residential such as custom home Lampung. In this case take a sample home with spacious 54m² habitable 4-5. Rainwater harvesting system at home that is designed significantly to be an alternative source of domestic water in the house in question. For the wet years, the rain water harvesting system capable of supplying about 80% to 90% of annual domestic water needs. In contrast, for the dry years, the rain water harvesting system capable of supplying about 60% of annual domestic water needs. The benefits of home design, among others, the results of this study can reduce the exploitation of ground water, can reduce the risk of regional flooding, can reduce the risk of flooding in residences, can increase the area of residential buildings, and can promote local wisdom Lampung.

In the end, the concept of this house is recommended to give a new color in the designs of modern houses that exist at this time , by aligning with the philosophy of traditional house Lampung . This home design can provide another option to the developers to apply the concept of housing in residential buildings will be made .

Keywords : Rainwater Harvesting , Local Wisdom , Traditional House Lampung