UNIVERSITI TEKNOLOGI MARA

COCOPEAT GREEN ROOF

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Innovation project report submitted in partial fulfilment of
the requirements for the degree of

Bachelor of Science (Hons.) Construction Technology
Department of Built Environment and Technology Studies

AUGUST 2022

AUTHOR'S DECLARATION

In the name of MOHAMMAD AMIR AZURREN BIN AHMAD NOZAL, declaring that the work that being completed in this innovation project report was carried out in accordance with the regulation of Universiti Teknologi MARA. This innovation project is the original and is the results of my own work, unless otherwise indicated or acknowledge as referencedwork. I can ensure that this topic has not been submitted to any other academic institution or non-academic institution for any degree or qualification.

In case or in the event that my innovation report, be found to violate the conditions mentioned above, I voluntarily waive the right of conferment of my degree and agree be subjected to the disciplinary rules and regulations of Universiti Teknologi MARA.

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ABSTRACT

Malaysia is a developing third-world country experiencing rapid economic expansion. In fact, Malaysia's construction industry is one of its most active, contributing significantly to the country's economic growth. The construction industry has undergone various transformations, beginning with ancient ways and progressing to conventional methods and now to technology. The Industrial Building System (IBS) is gaining popularity in the construction industry due to its multiple advantages. The roof is the most important component of the structure since it protects the occupants from a number of risks. Roofing requirements have grown across the board, resulting in a healthy market for roofing materials in terms of performance and physical attributes. However, there are a number of issues that influence the performance of roof materials. Various issues have been identified as affecting the effectiveness of roofing materials in previous study. The identified issues and problems are durability, ability to reduce heat gain and also relative weight of the roof structure. It offers an opportunity to propose new innovative items to address major concerns by recognising problems. As a result, new innovative concepts are proposed to address the issues while also promoting the use of eco-friendly materials.

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