

**UNIVERSITI TEKNOLOGI
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**RICE HUSK DRYWALL CEILING
BOARD**

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Innovation project report submitted in partial
fulfilment of the requirements for the degree of
Bachelor of Science (Hons.) Construction Technology

**Faculty of Architecture, Planning &
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AUTHOR'S DECLARATION

I declare that the work in this innovation project report was carried out in accordance with the regulations of Universiti Teknologi MARA. It is original and is the results of my own work, unless otherwise indicated or acknowledged as referenced work. This topic has not been submitted to any other academic institution or non-academic institution for any degree or qualification

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ABSTRACT

Rice Husk Drywall Ceiling Board is an innovative product which use a rice husk in mixed design. The ceiling boards were produced using rice husk, wastepaper, fire retardant and portland cement of varying quantities. The compression of the boards was done using hydraulic press. There are a few issues that has been discovered with ceiling elements such as mould growth, presence of dampness, astatic value, also thermal properties. As a result, this innovative product is produced as a solution to a problem identified with ceiling elements, and it also for improving the performance of existing ceiling. The research study aims to develop an effective product that can keep the ceiling in a safe condition, long-lasting and lowering the maintenance cost. In this research, the method used for the development of this innovation idea includes a literature review on relevant topics related to Rice Husk Drywall Ceiling Board. Other than that, an observation on ceiling board in the Construction Industry has been conducted, it is because this technique provides the most accurate information. By doing this approach all the findings will be developed, and it will be easier to highlight the issues. A simulation study also will be used to support the explanation of developing the innovative production process. It may provide a better understanding of how this proposed innovation product works to improve the existing ceiling. In addition, Rice Husk Drywall Ceiling Board has the potential to be marketed to potential users. With this innovative technology, it is believed will generate change that could solve the needs of the Construction Industry and would improve the building's wellbeing while also to sustain Green Building as well as green environment.

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