UNIVERSITI TEKNOLOGI MARA
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LIGHT-TRANSMITTING PRECAST WALL

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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 Studies and Technology

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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

The construction industry has widely used the precast element in building or any structure. The wall constitutes most of the building elements. The light-transmitting precast wall is a precast wall innovation. The ability to transmit light that light-transmitting precast walls have can give a lot of benefit to the building and environment. The building that installs the light-transmitting precast wall can reduce its consumption of electricity, maximize natural light, and even look more aesthetic. The light-transmitting precast wall is still a precast wall. The light-transmitting precast wall also has the advantages of the current precast wall on the market. The light-transmitting precast wall uses optical fibre as the component to transmit the light. The optical fibre can also be the reinforcement for the precast wall. As a result, the precast wall will obtain more strength than an ordinary precast wall. Optical fibre is a suitable innovation in order to make the green construction industry.