



UNIVERSITI
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BUILDCON2023

**COMPILATION OF PROJECT INNOVATION IDEAS
SEMESTER MARCH – AUGUST 2023**

EMBRACING SMART CONSTRUCTION TRANSFORMATION

BUILDERS' CONVENTION DAY 2023

**Department of Built Environment Studies and Technology
College of Built Environment
Universiti Teknologi MARA Perak Branch**

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COMPILATION OF PROJECT INNOVATION IDEAS
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Organised by
Department of Built Environment Studies and Technology
College of Built Environment
Universiti Teknologi MARA Perak Branch
Malaysia

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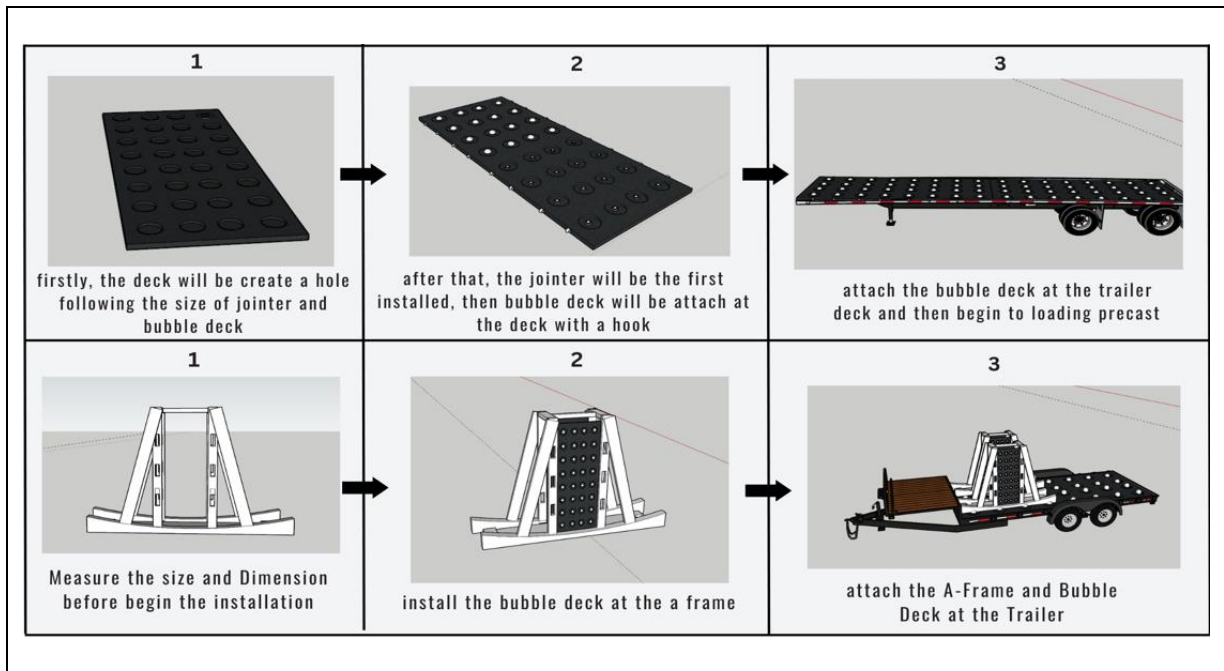
TRANSPORTATION OF PRECAST CONCRETE

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Transportation Of Precast Concrete

Innovation Idea:

There exists a significant amount of inquiry regarding the factors contributing to the occurrence of cracks in precast concrete. One of the primary factors contributing to this phenomenon is transportation. The matter at hand pertains to the occurrence of cracks in precast concrete, specifically in relation to the contractual relationship between a supplier and a contractor. Several issues have arisen in the realm of transportation. The initial issue pertains to the presence of an uneven road surface, which has resulted in the development of cracks in the caravan. There are no supplementary safety features present on the deck that facilitate the absorption of force by the precast concrete. Subsequently, the way the precast is managed also constitutes the primary factor contributing to the deck's issue. The present study focuses on the identification of strategies aimed at enhancing the resolution of the issue, specifically pertaining to the improvement of precast concrete quality and the mitigation of cracking occurrences. Finally, a simulation was conducted to address the problem and propose a simulation of a structural system known as Bubble Deck.

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Prof. Madya Dr. Nur Hisham Ibrahim
Rektor
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Sekian, terima kasih.

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SITI BASRIYAH SHAIK BAHARUDIN
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