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THE CHALLENGES AND SOLUTION TOWARDS IMPLEMENTATION LEAN CONSTRUCTION TOOLS IN MALAYSIA CONSTRUCTION INDUSTRY

Dissertation submitted in partial fulfilment
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DECLARATION

"I declare that this dissertation is the result of my own research and that all sources are acknowledged in the references"

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Date	:	.....

ABSTRACT

Lean construction is an essential aspect of the construction industry, especially in Malaysia. To help the project management team, there are software creator that develop a software relate to lean construction. Lean construction may provide various advantages to a building project, including better efficiency, decreased waste, and higher production. The concepts of lean construction emphasize maximizing value and eliminating waste throughout the project lifecycle, resulting in cost reductions, shorter project durations, and higher quality results. Lean construction may help firms deliver projects more effectively and improve overall customer satisfaction by removing non-value-added tasks and improving workflows. Furthermore, it encourages improved cooperation and communication among project teams, resulting in a more integrated and harmonious working environment. Overall, applying lean construction may enhance project performance and profitability significantly. The objectives for this research are to investigate the availability of LC tools in Malaysian construction industry. Secondly, to investigate the challenges of LC tools implementation in Malaysia Construction Industry and the last objective is to propose a possible solution for the challenges in implementing the LC tools implementation in Malaysian Construction Industry. A quantitative method was used to achieve the research objectives where data collection from 44 out of 150 respondents from project management team were gathered through a questionnaire. Then, the raw data was analysed by using the Statistical Package for Social Science (SPSS). From the findings, 5S software are the most used software in Malaysia construction industry if related to lean construction. Next, Lean Construction tools need big fund to adopt it into the project management was record as the main challenges faces by the project management team through the questionnaire survey. The suggestion for the strategy was to share the case study and success stories from previous project as the

benchmark and references to the amateur project management team. The recommendations for the future research is the scope of this research needs to be widened by focusing on other places in Malaysia as well.

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