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**STRATEGIES FOR WASTE MANAGEMENT METHOD FOR
DEMOLITION PROJECT**

Dissertation submitted in partial fulfilment of the requirements for
the award of Bachelor of Quantity Surveying (Honours)

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SEMESTER: MARCH 2022 – AUGUST 2022

ABSTRACT

Even though construction industries are the more significant contributor to most countries' economies, the construction industry consumes a massive amount of raw materials and energy annually. Waste management plays a huge role in reducing the number of waste and making a contribution to the environment and economy. To enhance waste management among construction players, it is crucial to understand the best strategies to be implemented to reduce waste in demolition work. This industry faces many issues; for example, it faces the challenge of high fragmentation, volatility, low competitiveness, poor quality, and lack of quality expectations. Therefore, this research proposes effective strategies for waste management practices by contractors for demolition projects to promote waste minimisation. Hence, the objectives of this research are to review the demolition waste management strategies implemented by contractors, determine critical success factors for demolition waste management strategies, and suggest effective demolition waste management strategies practised by the contractors. The research methodology applied in this research was a quantitative method using a questionnaire survey. Furthermore, the respondents in this study were G6 contractors in Klang, Selangor. Upon completing the data collection, the data were analysed using Statistical Package for Social Sciences (SPSS) version 26.0.

Keywords: *Strategies, Demolition Works, Waste Management*

ACKNOWLEDGEMENT

In the name of God, the Most Gracious, the Most Merciful.

I like to extend my gratitude to Allah S.W.T. for giving me the strength physically and mentally to complete this dissertation successfully. A few persons worth mentioning have contributed to this final project.

Firstly, I would like to express my utmost gratitude to my final project supervisor, who has given me an immense amount of guidance, support and insightful comments and constructive critics during the preparation of my final project. Besides, I would like to thank my lecturers for their support and encouragement in my final project.

Next, my gratitude also upon the respondents who agreed and willingly to answer my questionnaire survey in this study. Their contributions have greatly helped the finding for this research where I am debated. Not to forget, my friends for their ultimate moral support and uplifting my emotion during this long journey.

Last but not least, a special shout out to my beloved parents and family members for the full support, patience, prayers and constant encouragement from the first day of dissertation writing starts until the completion of my final project

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CHAPTER 1: INTRODUCTION

1.1 BACKGROUND OF RESEARCH

Construction waste demolition is a significant issue worldwide, including in Malaysia. Asbestos produced during demolition is one of the main sources of environmental and health problems, and construction trash may be dangerous (Saadi Nurzalikha et al., 2016). Therefore, waste management is an important aspect of the construction industry and should be managed to create a better construction environment (Esa et al., 2017).

In addition, ineffective waste management techniques have become a severe issue in Malaysia's construction industry. This environmental issue has affected the environment and human health. Despite the government's efforts to improve the situation, Malaysia lags behind Denmark and Japan in recycling and reusing its construction waste (Hamid et al., 2020). If the contractor in this industry does not implement waste management, the loss of millions of ringgit and worse will result in the collapse of the construction industry.

Consequently, recycling and reusing waste materials appears to be a viable strategy that will extend the life of landfills while reducing the consumption of raw natural resources (Hamid et al., 2020). Due to this circumstance, the contractor must pay greater attention to waste management, which will exacerbate the dire situation on the job site. Instead of focusing more on the 'cost of quality,' there should be a greater emphasis on waste management in construction, particularly in demolition projects, which frequently result in greater material waste. There are several options for reducing and recovering, as many resources would otherwise be used for waste