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GREEN PROCUREMENT ADOPTION IN CONSTRUCTION INDUSTRY: QUANTITY SURVEYORS' PERSPECTIVE

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ABSTRACT

Construction activities have significant impacts on the community and environment. One of the efforts currently being undertaken is the introduction of green procurement, which highlighted in the Malaysian economic planning programme. Most industry professionals have experienced challenges in moving from traditional design and construction process to Green construction concept, including quantity surveyor (QS). However, the green procurement in Malaysia can be described as a new concept of greener path and seems to have neglected sustainability considerations by quantity surveyor practices. Thus, this paper aims to improve the quantity surveyors knowledge regarding green procurement in construction industry. Four research objectives were established which are to identify the awareness level in the adoption of green procurement of the quantity surveyor, to justify the barriers that occur inhibiting the adoption of green procurement of quantity surveyor, to identify the critical success factor of the quantity surveyor in adoption of green procurement in construction industry and to justify the method of solution in the implementation of green procurement in the construction industry. This research is based on qualitative method by means of semi-structured interview among the professional quantity surveyor in Malaysia. The finding reveals, mentality and lacking of understanding towards sustainable procurement are the critical barriers that inhibiting the adoption of green procurement among quantity surveyor. While, the mentality to accept the sustainable concept were identified as the most critical success factor in adoption of green procurement. The management support, training, Government incentives and increasing material supply are the method solution to enhance the implementation of green procurement. The outcomes of this research are expected to motivate and enhancing the awareness, practices and implementation of green procurement among quantity surveyor in construction for both public and private projects.

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CHAPTER 1

INTRODUCTION

1.1 BACKGOUND OF STUDY

Procurement can be defined as a process of finding, agreeing on terms and acquiring goods, services or works through a tendering or competitive bidding process. The importance of procurement is to ensure that the buyer receives the best possible price for the services or works. According to Rainville (2018), procurement is the acquisition of goods or services by public entities. The quality, quantity, time, and location aspect are compared in accepting the type of procurement. Private and public bodies define the procurement as a processes to promote fair and open competition while minimizing the risk for the open tendering process.

The selection of procurement are depends on the factors such as delivery and handling, marginal benefit, and price fluctuations. Procurement generally involves making buying decisions under conditions of scarcity. The best method in selecting the procurement is by using the economic analysis methods such as cost-benefit analysis or cost-utility analysis. An analyses without risk and those with risk shall be made. When there is a risk involved, the concept for the best value should be employed.

Malaysia is planning to increase the number of the construction project in the future. The important thing is to ensure more sustainability in the future. With that, the effort that has been taken is by applying green procurement in the construction industry. According to Bohari, Skitmore, Xia, & Teo (2017) the green procurement in the Malaysian construction industry can be describes as a new applications. The environmental criteria is the basic