



## **ORGANIZATIONAL STRUCTURE INFLUENCE ON CONSTRUCTION WASTE MANAGEMENT AMONG PENANG MALAYSIAN CONSTRUCTION INDUSTRY: AN APPROACH VIA PARTIAL LEAST SQUARE STRUCTURAL EQUATION MODELING**

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### **Abstract**

The construction industry is one of the industries that contribute to the economies of Malaysia and to be considered as a significant element to the Malaysia economy. At the same time, when the number of construction projects increases, the number of waste generated by the construction projects also increases which has many negative impacts on the environment and public health as well. In order to reduce the number of waste generated by construction projects, the waste must be properly handled and there must be effective construction waste management practices in every construction industry. Besides, previous studies have stated that the number of construction waste regarding material waste, buildings waste and so on is increasing day by day. The number of waste is on the rise due to the absence of an effective organizational structure which is an important aspect of construction waste management. To address these issues above, this research paper aims to: 1) to investigate the relationship between formalization and construction waste management in Penang construction industries; and 2) to investigate the relationship between centralization and construction waste management in Penang construction industries. The data were collected from 89 respondents among Penang construction companies. In this research, the PLS-SEM technique was used to assess both the measurement and structural models. The result shows that there is a significant relationship between formalization and construction waste management among the construction companies operating in Penang. Centralized organizational structure and construction waste management was also found to be positively correlated in this study.

**Keywords:** Organizational Structure, Construction Waste Management, Formalization, Centralization.