SUSTAINABLE INFRASTRUCTURE CONSTRUCTION CONTEXT IN SEBERANG PERAI TENGAH, PULAU PINANG: AN OVERVIEW OF ECONOMIC PERCEPTIONS AND CHALLENGES

NUR FARAH ASYIKIN BT ABDULL RAHIM

Bachelor of Engineering (Hons) Civil (Infrastructure) UNIVERSITI TEKNOLOGI MARA SEPT 2020

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By

NUR FARAH ASYIKIN BT ABDULL RAHIM

This report is submitted as a partial requirement for the degree of Bachelor of Engineering (Hons) Civil (Infrastructure)

UNIVERSITI TEKNOLOGI MARA

SEPT 2020

AUTHOR'S DECLARATION

I declare that the work in this thesis was carried out in accordance with the regulations of Universiti Teknologi MARA. It is original and is the results of my own work, unless otherwise indicated or acknowledged as referenced work. This thesis has not been submitted to any other academic institution or non-academic institution for any degree or qualification.

I, hereby, acknowledge that I have been supplied with the Academic Rules and Regulations for Under Graduate, Universiti Teknologi MARA, regulating the conduct of my study and research.

Name of Author	: Nur Farah Asyikin bt Abdull Rahim
Author I.D. No.	: 2017428434
Programme	: Bachelor of Engineering (Hons) Civil (Infrastructure)
Faculty	: Civil Engineering
Thesis Title	: Sustainable Infrastructure Construction Context in
	Seberang Perai Tengah, Pulau Pinang: An Overview of
	Economic Perceptions and Challenges

Signature of Author :....farah

Date

: SEPTEMBER 2020

ABSTRACT

Sustainable construction plays a significant role in improving the application of sustainable policies in the construction sector. Although there is a process of change towards the implementation of green strategies nowadays, limited research has been conducted to search the challenges that block the sustainable infrastructure construction movement in Pulau Pinang. This researched was intended to fill this gap in the literature and contribute to the field of knowledge regarding sustainable infrastructure construction in Seberang Perai Tengah, Pulau Pinang. The findings would be of interest to both government and business practitioners in expanding the market for sustainable infrastructure construction. The data presented in this research are mainly obtained from a comprehensive questionnaire survey developed based on a literature review. The questionnaire was completed by professionals who are interested in this topic or who have been involved in sustainable projects. The findings from the survey have been analysed in detail by a variety of statistical approaches. The software that used to develop those statistical methods was Statistical Packages for Social Sciences Version 23 (SPSS). The findings shall assist in understanding the real economic challenges that have been confronting by the practitioners in the construction industry in Seberang Perai Tengah, Pulau Pinang. Finally, recommendations are presented for future researchers to propel the construction sector towards sustainability.

Keywords: Economic Challenges, Sustainable Construction, Sustainable Development, Pulau Pinang, Infrastructure

ACKNOWLEDGEMENT

Firstly, I wish to thank God, Allah S.W.T for guiding and helping me throughout the completion of this dissertation successfully. I also would like to extend my deepest gratitude to my supervisor, Mdm. Adhilla Ainun Musir for her kind assistance, exemplary guidance, her constant support, and her word of wisdom delivered at the right time throughout this study. Towards preparing for this study, many thanks also go to contractors, consultants, developers and local authorities that involved actively and spared their precious time in helping me complete this study. Their kind and generous help will always be in my mind. Last but not least is my appreciation and gratitude to my beloved father and mother, Mr Abdull Rahim bin Hj Muhammad and Mrs Azizah binti Ali and also my siblings for their everlasting love, encouragement and support during my study. I also would like to thank my beloved friends for their bits of help and most significant friendship during the study.