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**THE POTENTIALS OF BAMBOO IN CONSTRUCTION
INDUSTRIES**

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MARCH 2023

ABSTRACT

The use of bamboo in daily life in Malaysia is not strange. Despite its widespread use, from food production to use as a building material in construction, bamboo can be used to build houses. They are not also known as sustainable building materials in the construction industry, but they can be used for others' benefit in lifestyle. Bamboo also has a unique value in each human perception. The concept of bamboo as a green, environmentally friendly material drew architects and engineers to experiment with bamboo. This research attempts to discuss how bamboo is being used in the construction of buildings now. Several literature reviews on using this material in building concepts and the benefits of each case will be discussed in this study. This research analyses the barriers and challenges that developers face when using bamboo materials in Malaysia. The paper's results will show suggestions to overcome the problems so they can promote bamboo building materials to be used widely in Malaysia's construction industry.

Keywords: Bamboo Culture, Bamboo's developer, Architecture Green Building

ACKNOWLEDGEMENT

With high gratitude to Allah S.W.T. who gave me the ideas and physical strength in preparing this dissertation. An undertaking of this project necessitates more than simply the author's efforts. I would like to pay my special regards to the persons and all parties who responded to the survey and also offered their invaluable contributions in carrying out this final project/dissertation.

First of all, I would like to convey my heartfelt appreciation and acknowledgement to my supervisor, who has given me guidance and unfailing support and contribution of ideas in preparing this dissertation. Her advice and guidance allowed me to perform to my fullest potential. Also, a special thanks for his insightful supervision, encouragement, thoughtful criticisms throughout the research and his creative suggestions.

My thanks and appreciations also go to all those who agreed to be interviewed, giving me the benefit of their knowledge, views and experience. I am also indebted to all my friends for their kind cooperation and encouragement which help me in completion of this dissertation.

Finally, I would like to thank my beloved parents and family members, who never stop giving me their encouragement and assisted me in order for me to complete my dissertation. Thank you for all the understanding given to me when I really needed it.

Thank you.

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CHAPTER 1

INTRODUCTION

1.0 INTRODUCTION OF RESEARCH

In human civilization history, house architecture is mostly built from materials from forest resources such as rattan, timber, bamboo, sago palm, and others. Its function is the same as now, which is used as a shelter from the rain, animals and a good comfort from a heat environment. The early history of construction in Malaysia is not as great as elsewhere, however, the journey is quite similar (Mariam, I. et al 2014). Similarly, in Malaysia, the history of house architecture also depends on natural resources to build houses. After all, wood resources are cheap and readily available.

The concept of green construction has been practiced now even in design, functional, or construction work. Apart from green construction, it is also known as sustainable construction refers to the construction of buildings and the use of environmentally friendly and effective methods. Various construction types use green materials to produce an environmentally friendly environment. The importance of emphasizing the green concept in the construction industry needs to be practiced. According to Thi Bich Vân Nguyen (2018), The danger from the devastation of the environment is becoming more and more serious, greatly affecting the life of every