

IMPROVING THE USER INTERACTION THROUGH BAMBOOSA VOID PAVILION AT HOSPITAL PASIR MAS, KELATAN

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Highlights: Open spaces within a hospital area could encourage social interaction between its communities essentially the patients, healthcare workers and visitors. Staying and working in the hospital for a long time will affect the emotional state of a person, well-being, and healing time. However, the hospital building, and its surrounding area might enhance the negative feelings or, conversely, produce feelings of confidence and hope for the recovery processes. Therefore, the innovation of Bamboosa Void Pavilion intentionally maximizes the healing functions of the therapeutic landscape and increase the aesthetic value of the hospital whilst improve the social connection and develop reflective thinking capabilities within the healthcare community.

Key words: *Pavilion, bamboo, hospital, social, interaction, patients, visitor*

Introduction

Bamboosa Void is a new iconic structure in the Hospital Pasir Mas and becomes a main focal point for social and interaction purposes. Staff, patients and also visitor can access this area and experience the natural ambience in the bamboo plaza with the therapeutic landscape design. The local can bring their stuff, interact and communicate with each other at the pavilion that will establish strong sense of community. The idea is to recelbrate and restore the image of therapeutic in Hospital Pasir Mas. The material is inspired by some existing structure that used bamboo as the main material. Bamboo, as one of the most important components of current regenerative green construction material, is getting more and more designer favours on its performance. The bamboo membrane system as one that has both practicality and aesthetic, the performance of adaptability and multipurpose will make it could be used in the public area as social point Centre. The design will highlight some features that make this designed pavilion look more aesthetic and natural effect despite serving as the interaction point in the Hospital Pasir Mas. The form of the leaves is formed from the basic two curvy lines that combine to become the shape of a leaf. (Figure 5.2) The leaf shapes symbolize the therapeutic as they bring the image of nature. Also by using bamboo as the material give a more natural effect toward the structure.

Besides that, the Bamboosa Void Pavilion have three design principle applied to the innovation that are natural ventilation, natural water run-off and shaded area. In term of the material used, this designed pavilion use bamboo as the main construction material, solar panel and polycarbonate as the roofing. In general, bamboo material can provide low-carbon alternatives to several materials, including steel, cement and plastic thus promote the use of green design and also cost-efficient in term of aesthetic value impact. Furthermore, bamboo also has high Flexibility and elastically. Besides it is easy to get the material as well as it is easy to grow up the bamboo and easy to be recycled. Fire and heat resistance also become one of the reasons why this material takes part in this pavilion construction. For the dimension of this Bamboosa Void Pavilion. Overall height is about 5600mm, and the length is about 28000mm as shown in (figure 5.8). The use of the solar panel in this pavilion is purposely for the lighting during night and at the same time promoting sustainable approaches. The solar panel trap the sunlight and convert it to the electrical source to light up the sport light. For the roofing, the material used is polycarbonate PVC type. Toughness, transparency, heat and flame resistance, and dimensional stability are all characteristics of polycarbonates. It's a high-performance plastic sheet that's a direct competitor on the market right now. Combining strength, impact resistance, and high transmission across 200 times the thickness of glass. Despite this material allow the light to penetrate and reach for the vertical planting at the structures.

This innovation not only provides aesthetic impact but also give advantages to some communities related. Patients and visitor can use this pavilion as an area to socialize with family and the waiting area around the Hospital despite embrace the uniqueness of the Bamboosa Void. The location located area very strategic as facing up to the Furqan plaza that has a mosque with water features will maximize the experience for the user. For staff, stress, pressure, hectic environment is common to experience by the staff working in the hospital. So they can come and release their stress at the plaza experiencing the Bamboosa Void Pavilion that gives a visual impact for the user. Government policies can increase the incentives to innovate, including guaranteeing intellectual property rights, government assistance with the costs of research and development, and cooperative research. Besides that, local authorities or government can use it as a guideline to be implemented at suitable spaces such as a park, institution, etc.

This innovation promotes the uniqueness of this Bamboosa Void through social media as that is the easiest platform nowadays. The user just needs to scan and view the page to see the content and some information regarding the Bamboosa Void including the views, construction and others. At the same time we can collaborate with the local authorities to set as a new guide for the designing public spaces in Hospital.

Acknowledgement

Special thank and gratitude for my studio lecturers, LAr. Dr Ramly bin Hasan, Dr Wan Azlina Wan Ismail, Dr. Nur Hafizah binti Ramle for guiding me to complete my innovation project to be successful.

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