

**DEPARTMENT OF BUILDING SURVEYING
FACULTY OF ARCHITECTURE, PLANNING AND SURVEYING
UNIVERSITI TEKNOLOGI MARA**

**CONSTRUCTION AND MAINTENANCE OF AQUARIA UNDERWATER
WORLD LANGKAWI MALAYSIA**

**This academic project is submitted in partial fulfillment of the
requirement for the Bachelor Of Building Surveying (Hons.)**

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(2006699598)**

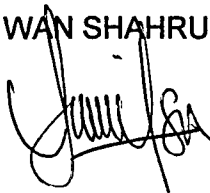
APRIL 2008

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"I hereby declare that this academic project is the result of my own research
except for the quotation and summary which have been acknowledged"

STUDENT'S NAME : WAN SHAHRUL AMIN BIN WAN ISMAIL

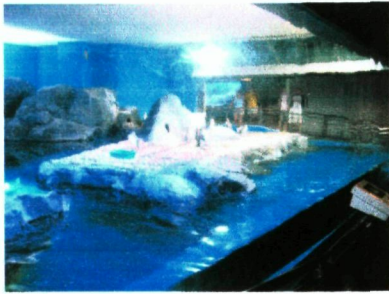
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DATE : 20 APRIL 2008

ABSTRACT



This study was aimed to study the aquaria construction and their application in Malaysia. To support this research the construction and maintenance of aquaria, the Underwater World

Langkawi, Malaysia have been taken as a case study. The aquaria of Underwater Langkawi are located at Langkawi Island, Malaysia. This island is located at the North Peninsular, Malaysia. The 1st phase of building was done on 1995 and for the 2nd phase was done on 2005. This research is analyze in detail their construction and maintenance.

In general the basic types of aquaria are divided by two. This type will be known by the uses of aquaria such as fresh water aquaria and salt water aquaria. The analyze were made from the literature review, for example from the article, reference from text book, aquaria construction and maintenance journal, printed articles, information from the site of aquaria Underwater World Langkawi Malaysia and also information gathering from internet web sites.

This study also highlighted the problems encountering during the construction stage of the aquaria Underwater World Langkawi, Malaysia. The analyze were made from the interview and site visit. Addition, this research also

focus on the analyze the maintenance work that was been taken into this aquaria structure and building.

ACKNOWLEDGEMENT

In the name of Allah most benevolent and most merciful

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- 1) Mr. Tan Eng Kok, The head of Maintenance Department of Aquaria Underwater World Langkawi, Malaysia. The consultant of project of Underwater World Langkawi, Malaysia.
- 2) Mr. Malik b. Abu, the supervisor of Maintenance Department of Aquaria Underwater World Langkawi, Malaysia.