

**CENTRE OF STUDIES FOR BUILDING SURVEYING
FACULTY OF ARCHITECTURE, PLANNING AND SURVEYING
UNIVERSITI TEKNOLOGI MARA**

**A STUDY ON METHOD OF PREVENTION FOR TIMBER DEFECTS ON
TRADITIONAL MALAY HOUSE**

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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”**

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ABSTRACT

This study was carried out to describe the method of prevention for timber defects on Traditional Malay House. This study focused on prevention method which it is part of conservation process. The study is aimed to prolong the heritage timber houses life and maintain its significance such as historical value, architecture value and economy for future generation. The objectives are to identify types of timbers and its uses for traditional house, to observe defects occur on conserved traditional house and to identify method of prevention for timber defects on traditional house. Several methods have been used, interview session and observation, in order to achieve the objectives of the study. The interview is conducted among the respective persons from case study, parties involved, *Perbadanan Muzium Melaka* (PERZIM) and *Badan Warisan Malaysia* (BWM). The result from the observation shows that the conserved timber buildings are well-being care where it can be clearly seen only minor defect occurred during observation. The method of prevention for timber defect is done and it is compliance with the standard.

ACKNOWLEDGEMENT

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CHAPTER 1

INTRODUCTION

1.1 BACKGROUND OF STUDY

Based on good principle of management environment, Malaysia are developed as major exporter of timber and tropical timber products. More than a century Malaysia has been produce tropical hardwood. Today, it still remains among the world's top exporter of the products of tropical hardwood. Timber is material which has long used for construction of structure. In Malaysia there are various types of timber that have high quality and also can be good material in construction. Because of flexibility, quality and values of aesthetic, timber still in demand as material of construction and it can produce interesting design. While timber is not fully used in the construction of brick and concrete, but it is still needed as a framework and roof trusses. According to Taylor (2000), popularity of timber in industry as material construction never decreases especially for construction of house and furniture. Even there are concrete and steel as building material, there is still demand for timber (Lim, 1987).

In peninsular Malaysia, there is Traditional Malay House that fully constructed from timber material. After hundreds years, timber houses are still being appreciated by this community because of its strength, comfort and durability. The design of the house also has a beautiful sculpture that symbolizes the distinctive customs, symbolism and culture of Malay respectively depending on each state. Construction of timber houses to be strong due to the use of joinery. Joinery is used at each connection of timber structures and timber nog used to strengthen the preparation frame of house. The suitable timber for construction depends on its strength in bear the load. The ability of timber to bear the load is depending on its characteristic that is available in the type of timber.