



**DEPARTMENT OF BUILDING
UNIVERSITI TEKNOLOGI MARA
(PERAK)**

**METHOD OF PILING CONSTRUCTIONS
(TIMBER MANGROVE PILE)**

**Prepared by:
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(PERAK)
AUGUST 2021**

It is recommended that the report of this practical training provided

By

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entitled

METHOD OF PILING CONSTRUCTIONS (TIMBER MANGROVE PILE) be accepted in partial fulfillment of requirement has for obtaining Diploma in Building.

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STUDENT'S DECLARATION

I hereby declare that this report is my own work, except for extract and summaries for which the original references stated herein, prepared during a practical training session that I underwent at Urusjaya Construction (M) SDN. BHD. for duration of 20 weeks starting from 23rd August 2021 and ended on 7th January 2022. It is submitted as one of the prerequisite requirements of BGN310 and accepted as a partial fulfillment of the requirements for obtaining the Diploma in Building.

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ABSTRACT

Piling is one way to transfer the load (Load) of a building to the ground. In Malaysia, there are several types of Piling that are commonly used, namely Timber Pile, RC Pile, Bore Pile, Spun Pile, Prestressed Concrete Pile, Sheet Pile, Steel Pile. Piling should be built using durable materials. For example, RC Pile uses minimum Grade 45 concrete so that it is durable and not easily cracked or broken if planted in the ground. In addition, reinforcement iron is also needed so that the construction of the piling becomes stronger. This report will discuss piling work that uses timber mangrove piles for construction. This report was conducted for the construction of a one-storey bungalow house at H.S. (M) 9367, PTD 14665, Block II, Mukim Sri Gading, Pt. Sapran Laut, Batu Pahat, Johor, owned by Professor Nazri bin Mohd Nawi. The objective of this report is to focus on the whole process of piling, which is timber mangrove piling. It also investigated the equipment and machinery involved in the method of piling. This report will also look at the problems and solutions surrounding pile construction. In this report, observation, interview, internet and document review are included in the method of study. According to the conclusions of the study, piling work is necessary to hold the land beneath a raft or as a foundation for a small constructions of a few storey.