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ADVANCED DIPLOMA IN CIVIL ENGINEERING  
SCHOOL OF ENGINEERING  
MARA INSTITUTE OF TECHNOLOGY  
SHAH ALAM, SELANGOR D.E.**

**COMPARATIVE STUDY ON  
THE BEHAVIOUR OF THE  
CONCRETE SLEEPERS**

**BY:**

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A thesis submitted to the School of Engineering, Mara Institute of Technology, Shah Alam, in partial fulfillment of the requirements for Advanced Diploma In Civil Engineering.

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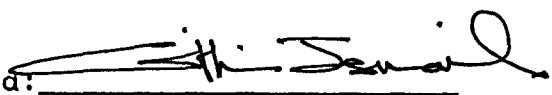
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## ABSTRACT

For many years railway lines were always laid on tracks using wooden sleeper but the decline in timber resources as meant that timber increased in price as its value for use by other industries has been appreciated.

Keretapi Tanah Melayu (K.T.M) is in the process of changing timber sleeper to concrete sleeper on lines in East Coast of Peninsula Malaysia.

This is a preliminary study in idealizing concrete sleeper within Malaysia context. It involves collecting data from the testing done by local manufacturer and comparing the data with those overseas.

Basically, the report is divided into three parts. The first part is the design : Malaysian design and some selected countries overseas. The second part is on testing, procedure and result obtained. The concluding part of the report presents some of the finding and proposal for future study is highlighted.

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To my parents

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