

**PROPERTIES OF PARTICLEBOARD FROM OIL PALM TRUNK**  
**(*Elaeis guineensis*)**

**By**

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**DIPLOMA IN WOOD INDUSTRY**  
**UNIVERSITI TEKNOLOGI MARA**

**April 2008**

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## ACKNOWLEDGEMENT

First and foremost, a lot of thanks to The Almighty Allah S.W.T for His blessing, we are able to complete this final project exactly right on the time and had been successfully submitted. Thousands of thanks to our beloved parents and families for their support, pray and wish for us.

We would like to express our deepest appreciation to our lovely advisor, Encik Ahmad Fauzi and Pn. Nurrohana, who's most encouraging us and also teach us how to do this final project. By using their knowledge and also other revision, we are able to implement the project smoothly. Unforgotten, thanks a lot to Prof. Madya Dr. Jamaludin as a lecturer of WTE 375 (final year project) for his help, support, comment and guidance throughout this subject.

Last but not least, thanks a lot to all friends, classmates, and our entire lecturers and staffs that help and encouraging us to complete this final project.

Thank you.

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## **ABSTRACT**

Oil palm trunk (*Elaeis guineensis jacq*) has now becoming the most important raw materials in wood industries in Malaysia. However its important for production of reconstituted wood based products and furniture can be future enhance through research and development. This study examined the physical and mechanical properties of particleboard made from 2mm oil palm trunk particle in various densities, percentage of resin and wax addition. The result show that the strength properties of particleboard namely the Modulus Of Rupture (MOR), Modulus Of Elasticity (MOE) and internal Bonding (IB) will affect when increasing and decreasing of additives. From this study, the good particleboard is with high density, resin content and without wax addition. In this project, the good variation for oil palm trunk particleboard is the board with 700 kg/m<sup>3</sup>, 12 % resin content and without wax addition.