

**THREE-LAYER PARTICLEBOARD FROM MAHANG GAJAH**  
*(Macaranga gigantea)*

By

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Final Project Submitted in Partial Fulfillment for the Diploma in Wood Industry  
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**NOVEMBER 2006**

## ACKNOWLEDMENT

ALHAMDULILLAH.....

Thanks a lot to our greatest Almighty Allah because of His blessing, managed to complete this project within time. Other than that, without the contribution every body this project I am can not be complete. Before I am going further, I would also like my respectful and beloved advisor Prof. Madya Dr. Jamaludin Bin Kassim for giving me inspiration and guideline in undertaking this project that inspired to me to understand this project.

My dedication also gives to my loyal friends that always support me, assist me with open hand in providing information regarding this project.

Not forgotten a lot of thanks to my beloved family who give me the strength to keep up with the study and encourage me leading towards the success of this final project.

Last but not least, my appreciation goes to other individuals who has involved directly or indirectly with this final project especially to all wood industry lecturer's and staff. It has been a great pleasure for us to do this project and we hope that all our effort in completing this project will be bless by The Al Mighty Allah.

Thank you.

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## **ABSTRACT**

### **THREE-LAYER OF PARTICLEBOARD FROM MAHANG GAJAH (*Macaranga gigantea*)**

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NOVEMBER 2006**

In this study, three layer of particleboard  $700\text{kg/m}^3$  will be use *Macaranga gigantea* wood particles sizes with mixer 0.5mm and fines as a face and back, 1.0mm and 2.0mm as a core. For resin content used; 12% (core), 12%, 14% and 16% (face and back). This type of density will be made a board called particleboard after been cured by heat and pressure. Several type of test will determine the physical and mechanical properties of this board. The result shows that the over sizes of particles for core and more percentages of resin that used will give better properties except for thickness swelling and water absorption.