PRE LIMINARY STUDY ON BOARD FROM OIL PALM TRUNK, (*Elais guineenssi*Jacq), WITH DENSITY OF 600 KG/ M³ AT 5% PHENOL FORMALDEHYDE RESIN

By

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Final Project Paper Submitted in Fulfillment for the Diploma in Wood Industry Faculty of Applied Science, University Teknologi MARA

NOVEMBER 2005

ACKNOWLEDGEMENT

THANKS God, I appreciate for the whole chances and guidance, which me, myself and I be able to complete all these things on time given.

I never expected as it become so easily with advice, encouragement and assisting from my lecturer and advisor, En Wan Mohd Nazri Bin Wan Abd Rahman, in order to finish this final project as one of the compulsory subjects taken by Part 6 students. It also, one of the purposes to complete our diploma program.

We also like to extent our gratitude to Mr. Sardey Idris for his support and co operation in providing us the material and technical assistance during the oil palm board making process.

Then, to En Shahril, our technician, thanks for his co operation during testing process.

Besides, a real thank you to my partner, Norazura Nakim who involved directly in this projects.

Last but not least, to everybody who was involved indirectly in my thesis, especially my classmate and all of the Woodtech lecturer and staff in the completion of this final project.

Thanks for everything!

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ABSTRACT

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In this study, five percent of resin Phenol-formaldehyde (PF) that is will be mixed with the *Elais guineensis Jacq* vascular bundles. This mixed will be made a board that called Oil Palm Board (OPB) after been cured by heat and pressure. The properties of this Oil Palm Board (OPB) will be determined by several types of test. The result shows that there some different trees criteria that will be affected of the board properties. There were some testing that will evaluate these Oil Palm Board (OPB) properties due to the required standard, such as internal bonding, bending testing, water absorption, and thickness swelling. In conclusion, the Oil Palm Board derived from oil palm trunk is not meeting the minimum requirement for MS 544. Another research should be done continuously to find a better solution due to the problem above. In this pre – liminary study, the board is unsuitable for any purposes, especially for exterior purposes.