

**MANUFACTURE OF COMPOSITE PANEL FROM
THE COMBINATION OF OIL PALM FROND FIBERS AND FIBERGLASS**

BY

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**Final Project Submitted in Partial Fulfilment for the
Diploma in Wood Industry, Faculty of Applied Science,
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NOVEMBER 2006**

ACKNOWLEDGEMENT

First of all, I would like to take this precious opportunity to express my special thanks to The Almighty God, Allah S.W.T for His blessing and strength rendered to me upon completion of this final semester project entitled 'Manufacture of Composite Panel from the Combination of Oil Palm Frond Fibers and Fiberglass'.

I would also like to express my very special appreciation and thanks to my project advisor, Professor Dr. Suhaimi bin Muhammed, who is always gives me guideline and a lot of information until this final project report is completed. I would also like to thank his whole family who has stand behind my back and for their supports in accomplishing this final project report. Not forgotten, all of the lecturers for their support and encouragements.

. I also wish to express my gratitude to Mr. Hashim bin Johari with all of his kindness in helping and guiding me to accomplish the composite panel during the experiments.

Thousands of thanks to the Project Coordinator, Associate Professor Dr. Jamaluddin bin Kasim on his constructive comments and suggestion.

Last but not least, not forgotten, thank you so much also to the lovely friends and family for their supports and encouragement in my studies and informally finishing this final project report. And to whom which were involved either direct or indirectly in helping us to finish our project and the final report.

TABLE OF CONTENTS

TITLE	PAGE
PROJECT TITLE	i
APPROVAL SHEET	ii
DEDICATION	iii
ACKNOWLEDGEMENT	iv
LIST OF TABLES	vii
LIST OF PLATES	viii
ABSTRACT	ix
ABSTRAK	x

CHAPTER		PAGE
1	INTRODUCTION	1
	1.1 Justification.....	3
	1.2 Objective.....	3
2	LITERATURE REVIEW	4
	2.1 Composite materials.....	4
	2.1.1 Types of composite materials.....	4
	2.1.2 Earliest examples of composite materials.....	5
	2.1.3 Modern composite materials.....	5
	2.1.4 Mechanics of composite materials.....	6
	2.2 Oil palm.....	8
	2.3 Fiberglass.....	9
	2.3.1 Formation.....	10
	2.3.2 Chemistry.....	11
	2.3.3 Properties.....	13
3	MATERIALS AND METHODS	14
	3.1 Material preparation.....	14
	3.2 Material for the production of the composite.....	16
	3.2.1 Raw fiberglass.....	16
	3.2.2 Oil palm frond fibers.....	17
	3.2.3 Mold release wax.....	18
	3.2.4 Crystic GC-DP710PA.....	19
	3.2.5 Organic peroxide.....	20
	3.3 Methods for the manufacturing of the composite panel.....	21
	3.4 Testing methods	28
4	RESULTS AND DISCUSSIONS	29
	4.1 Results.....	29
	4.2 Discussions.....	29

5	CONCLUSIONS & RECOMMENDATIONS	31
5.1	Conclusions.....	31
5.2	Recommendations.....	32
REFERENCES.....		33
APPENDICES.....		34
VITA.....		37

ABSTRACT

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The number of oil palm fronds that generated upon replanting and pruning is increasing by the years. This brings environmental problems as the excessive disposal of the fronds is inevitable and it could lead to surrounding problems where the fronds that is being neglected in the oil palm plantation is the source of attraction for pests, plant diseases, rats and snakes which could damage the plantation and also can be threats to human. In order to overcome these problems, this study is conducted by combining the oil palm fronds fibers with the fiberglass to make a composite panel. Since fiberglass is expensive, combining the oil palm fronds with fiberglass could help to reduce the cost of fiberglass and ensure that the composite is environmental friendly. The results obtain from the testing of the composite panel that has been made is measured in term of resemblance in percentage whether it resembles more towards pure fiberglass panel or pure oil palm frond fibers panel.