

Physical and Mechanical Properties of Juvenile Mahogany

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TABLE OF CONTENT

CONTENT	PAGE
APPROVAL SHEET	I
DEDICATION	ii
ACKNOWLEDMENT	iii
ABSTRACT	vi
ABSTRAK	vii
LIST OF TABLE	viii
LIST OF FIGURE	ix
LIST OF PLATE	x
LIST OF ABBREVIATION	xi
 CHAPTER 1	
1.0 INTRODUCTION	
1.1 Justification	2
1.2 Objective	3
 CHAPTER 2	
2.0 LITERETURE REVIEW	
2.1 Status of mahogany	5
2.2 Supply Of MAhogany	5
2.3 Medicines Properties in mahogany	6
2.4 Uses	8
2.5 Other About Mahogany	10
2.6 Strength Properties Of Timber	16
2.7 Factoer Effecting The Strenght Of Timber	20
 CHAPTER 3	
3.0 MATERIAL AND METHOD	
3.1 Material	26
3.2 Sample Collection	28
3.3 Sample Prepairation	29
3.4 Laboratory Experiment	30
3.5 Statistical Analysis	38

CHAPTER 4

4.0	RESULT AND DISCUSSION	
4.1	Mechanical proper ties	39
4.1.1	Moudulus Of Rupture (MOR)	39
4.1.2	Modulus Of Elasticity (MOE)	42
4.2	Physical Properties	45
4.2.1	Moisture Content	45
4.2.2	Density	48
4.2.3	Thickness Swelling	51
4.2.4	Water Absorption	54
4.3	Discussion	57

CHAPTER 5

5.0	CONCLUSION AND RECOMENDATION	
5.1	Conclusion	59
5.2	Recommendation	60
	REFERENCES	61
	APPENDICES	62
	VITA	66

**Abstract of final project present to the Universiti Teknologi MARA
Pahang fulfill of requirement for Diploma in Wood Industry**

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Juvenile mahogany wood (*Swietenia Macrophylla*) is one of raw materials which is not much information about it. So, the focus of this study is to examine the physical and mechanical properties fro two portion of wood. The portion are heartwood, part near the pith and sapwood, part near bark which being chose from Jengka 8, which is one of the project by FRIM. This study test was done accordance with 'British Standard'. (BS 373:1957: Testing Small Clear Specimen of Timber). For heartwood, MOR and the density differed significantly ($p < 0.05$), but low for MOE, moisture content, thickness swelling and water absorption. It is hoped that the value derived from this study can beneficial and being use as a guide.