
COCONUT WOOD AS RAW MATERIAL FOR TABLE MAKING

By

Khairuddin bin Ahmad Jamaluddin

**Final Project Paper Submitted in Partial Fulfillment for the Degree of Bachelor Science
(Hons.) in Furniture Technology, Faculty of Applied Science
Universiti Teknologi MARA**

May 2003

ACKNOWLEDGEMENT

In the name of Allah and peace be upon our master and Prophet Muhammad S.A.W. The writer wishes first grateful to Allah; give some efforts and strength to completed of this thesis as name as “Coconut Wood as Raw Material for Table Making”.

The writer would like to express very gratitude and appreciation to his supervisor; Associate Professor Mr. Said bin Ahmad for his guidance and constructive criticism during prepared this thesis. Furthermore for Head of Programme, Associate Professor Dr. Hj. Ashari bin Abd. Jalil, the writer concerns on all useful comments and suggestions. Also special thanks to all lecturers and staff in Furniture Technology Department., for their aid reviewing, critics, advices, willingness, cooperation and guidance in preparing and completing of this thesis. Special thanks to Mr. Lee Hong Kiang, Manager of Kilang Papan Ban Lee, Tikam Batu, Kedah for his technical support.

Also special thanks for his greatly indebted family and friends for being patient and support with him during completing this thesis. Lastly for all those who contribute directly or indirectly in completing this thesis. May Allah bless you all.

Wassalam.

TABLE OF CONTENT

	Page
ACKNOWLEDGEMENT.....	ii
LIST OF TABLES.....	v
LIST OF FIGURES.....	vi
LIST OF PLATES.....	vii
LIST OF ABBREVIATIONS.....	viii
ABSTRACT.....	ix
ABSTRAK.....	x

CHAPTER 1

1.0 INTRODUCTION 1

1.1 Furniture industry.....	1
1.2 Objectives.....	4

CHAPTER 2

2.0 LITERATURE REVIEW 5

2.1 Short history of <i>Cocos nucifera</i> Lynn wood.....	5
2.2 General characteristics and properties.....	5
2.3 Geographical distribution and resource availability.....	7
2.4 The considerations of coconut wood.....	8
2.4.1 Sawmilling.....	8
2.4.2 Drying.....	10
2.4.3 Machining and finishing.....	11
2.4.4 Preservation.....	11
2.4.5 Uses of coconut timber.....	12
2.5 Factors influence the use of coconut wood utilization.....	13
2.5.1 Availability.....	13
2.5.2 Mechanical.....	14
2.5.3 Structural and anatomy.....	15

CHAPTER 3

3.0 MATERIAL AND METHODS 16

3.1 Design of product.....	16
3.2 Drawing.....	17
3.3 Preparation of material.....	27
3.4 Bill of material.....	38
3.5 Manufacturing process of furniture table.....	39
3.6 Machining of coconut wood.....	42
3.7 Route sheet.....	43
3.8 Costing.....	49

CHAPTER 4	
4.0 RESULTS AND DISCUSSION	50
4.1 Preparations of material.....	50
4.2 Fungi and insect attacked.....	51
4.3 Machining process.....	52
4.4 Finish product.....	54
4.5 Costing and pricing.....	56
CHAPTER 5	
5.0 CONCLUSIONS AND RECOMMENDATIONS	59
REFERENCES.....	62
VITA.....	64

ABSTRACT

Coconut wood (*Cocos nucifera* Lynn), is used as raw material in table making. Coconut wood is a species of Palmaceae family which is less used in wood based industries today. The manufacturing process started from tree felling until table constructing. Sketches process and drawing translation to finish product also contributed in table manufacturing realization. Methods to produce coconut wood as new useful features are important as new alternatives for existence wood. This manufacturing process also proven that coconut wood can be used as raw material for furniture making. Any problem or mistakes encountered from the design can be detected and corrected for further improvement by others. The finish product can be proven that the successful table manufacturing process with coconut wood.