

SPECIFIC GRAVITY OF YAMANE (*Gmelina Arborea*)

By

NURAZITA ATAN

NOOR HAYATI MOHD HAMDAN

**Final Project Submitted In Partial Fulfillment For The
Diploma In Wood Industry, Faculty Of Applied Science,
Universiti Teknologi MARA**

October 2010

ACKNOWLEDGEMENT

We would like to express our deepest appreciation and sincere gratitude to the following parties or individuals who in one way or another have helped in making this project successful:

En. Amran Shafie

Dr Wan Nazri Bin Wan Abd Rahman

Department of Wood Industries, Faculty Of Applied Sciences

Universiti Teknologi MARA, Jengka Pahang Darul Makmur

Above all to Allah we surrender and bow in prayer, glorifying and thinking Him for making this project a reality. May God bless you all.

TABLE OF CONTENTS

TITLE	PAGE
APPROVAL SHEET.....	i
DEDICATION.....	ii
ACKNOWLEDGMENT.....	iii
LIST OF TABLES.....	v
LIST OF FIGURES.....	vi
ABSTRACT.....	vii
ABSTRAK.....	viii
 CHAPTER	
1.0 INTRODUCTION.....	1
1.1 Introduction of specific gravity.....	1
1.2 Objectives.....	2
2.0 LITERATURE REVIEW.....	3
1.3 General characteristic.....	3
1.4 Uses.....	4
1.5 Importance of Specific Gravity.....	5
3.0 MATERIAL AND METHOD.....	6
3.1 Material preparation.....	6

4.0	RESULT AND DISCUSSION.....	11
4.1	Specific Gravity by Distance.....	11
4.2	Specific Gravity by Height.....	14
5.0	CONCLUSION.....	15
	REFERENCES.....	16
	APPENDICES.....	17
	VITA.....	19

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

SPECIFIC GRAVITY FROM YEMANE

BY

NURAZITA BINTI ATAN

NOOR HAYATI BINTI MOHD HAMDAN

OCTOBER 2010

ABSTRACT

Specific Gravity (SG) of Yemane (*gmelina arborea*) was determined using the water displacement method. The specimens used are from three different parts of the tree that is, base (DBH). The study showed the differentiation of SG of Yemane at different height level. Beside that the effect of SG at different distance from pith to the bark are also found. It has the highest specific gravity value at the middle part of the tree and nearest specimen to the bark. It is directly related to density. Therefore it has opposite relation with moisture content. Thus many more research on Yemane should be performed as it can increase the usage of this non-commercial species in wood industries.