

**PROPERTIES OF SUGARCANE BAGASSE AND
RICE HUSK FIBERGLASS COMPOSITES**

By

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TABLE OF CONTENTS

TITLE	PAGE
APPROVAL SHEET.....	ii
DEDICATION.....	iii
ACKNOWLEDGEMENT.....	iv
TABLE OF CONTENT.....	v
LIST OF TABLES.....	viii
LIST OF FIGURES.....	ix
LIST OF PLATES.....	x
ABSTRACT.....	xii
ABSTRAK.....	xiii
1.0 INTRODUCTION	1
1.1 Justification.....	3
1.2 Objective.....	3
2.0 LITERITURE REVIEW	
2.1 Composites material.....	4
2.1.1 Types of composite panel.....	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 Fiberglass.....	8
2.3.1 Formation.....	9
2.3.2 Chemistry.....	10
2.3.3 Molecular structure of glass.....	11
2.2.4 Properties.....	12
2.2.5 Utilities.....	13
2.3 Sugarcane.....	14
2.3.1 History.....	14

2.3.2 Cultivation.....	16
2.3.3 Sugarcane mechanical harvest.....	17
2.3.4 Sugarcane as food stuff.....	17
2.4 Paddy.....	19
2.5 Rice.....	20

3.0 MATERIALS AND METHODS

3.1 Materials preparation.....	23
3.1.1 Sugarcane bagasse.....	23
3.1.2 Rice husk	24
3.2 Materials for the production of the composite panel.....	25
3.2.1 Raw fiberglass.....	25
3.2.2 Sugarcane bagasse.....	26
3.2.3 Rice husk.....	27
3.2.4 Mold release wax.....	28
3.2.5 Crystic GC-DP710PA.....	29
3.2.6 Organic peroxide.....	30
3.3 Methods for the manufacturing of the composite panels.....	31
3.4 Testing methods.....	36

4.0 RESULTS AND DISCUSSIONS

4.1 Properties of fiberglass-sugarcane bagasse.....	37
4.1.1 Statistical significant.....	38
4.1.2 Effect of source in fiberglass-sugarcane dregs.....	39
4.1.2.1 Modulus of flexural.....	39
4.1.2.2 Modulus of elasticity.....	40
4.1.2.3 Water absorption.....	41
4.2 Properties of fiberglass-rice husk.....	42
4.2.1 Statistical significant.....	43
4.2.2 Effects of source in fiberglass-rice husk.....	44
4.2.2.1 Modulus of flexural.....	44
4.2.2.2 Modulus of elasticity.....	45
4.2.2.3 Water absorption.....	46

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ABSTRACT

Sugarcane bagasse and rice husks are two kinds of different stuffs. Nevertheless, the number of disposal of these materials excessively brings the similarity that contributes to the environmental problem. Generally, we know that sugarcane and paddy are being the need to most of people in certain parts of the world especially covers South East Asia as well as East Asia region. After their yields are taken from these both kinds of materials, the excessive disposal will occur. This problem will be the source of attraction of pests, rats, flies and so on that could bother the atmosphere and can be threats to humans as well. In order to solve this problem, this research conducts by combining the sugarcane bagasse with raw fiberglass and rice husks with the similar materials to make a composite panel. Since the fiberglass is quite expensive, the combination of this material with sugar cane (fibers and bagasse) rice husks (different sizes) as well may aid to reduce the cost of raw fiberglass as well as ensure that these composite panels are environmental friendly besides have the special and unique features and properties. The result shows that sugarcane fibers better than sugarcane bagasse while rice husk sized 10.0mm better than rice husk sized 20.0mm after done water absorption, tensile strength and bending strength testing.