

**UTILIZATION OF OIL PALM WASTE FOR THE PRODUCTION OF
BLOCKBOARD AND COMPOST AND THEIR ENVIRONMENTAL
IMPACT: AREVIEW**

ZAIRUL AZRIN BIN MD ZAINORDIN

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DECLARATION

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Signature:

Name of Supervisor:

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ZAIRUL AZRIN BIN MD ZAINORDIN

TABLES OF CONTENTS

	<u>PAGE</u>
ACKNOWLEDGEMENTS	II
ABSTRACT	III
TABLE OF CONTENTS	IV
LIST OF FIGURES	VI
LIST OF TABLES	VII
LIST OF ABBREVIATION	VII

CHAPTER

1.0	INTRODUCTION	1
2.0	OIL PALM WASTE	4
2.1	Waste from field	5
2.2	Waste from mill	6
2.2.1	Liquid waste	7
2.2.2	Solid waste	9
2.3	Composting oil palm waste	10
3.0	OIL PALM WASTE UTILIZATION	13
3.1	Oil palm frond Compost	15
3.1.1	Physiological Responses	19
3.1.2	Growth Responses	19
3.1.3	Days of flowering	20
3.1.4	Nutrient content	23
3.2	Oil Palm trunk	24
3.2.1	Furniture production	22

ABSTRACT

In Malaysia, palm oil industry is the most important commodity of this country and become the world's second-largest producer after Indonesia. *Elaeis guineensis* Jacq is one of the most productive oil palm in the world, which can produced 20 to 45 tons of fresh fruit bunch (FFB) in one hectare after 3 years planting (Singh, 2010). With this amount, it's produced high amounts of high value waste that can be utilized. One of the alternatives is the production of "block board" to reconcile the future demand of the low end furniture from the oil palm trunk. While in agricultural sector, it has proven that the oil palm frond have high potential to be composted to replace the peat moss as the humus amended with the soilless medium of the cauliflower crop. Therefore, in this review paper, we will discuss about the environmental impact when utilized the oil palm waste.

Malaysia mempunyai banyak sumber buangan daripada kelapa sawit yang mempunyai nilai yang sangat tinggi. *Elaeis guineensis* jack adalah variati tanaman kelapa sawit yang paling produktif yang mana mempunyai 20 hingga 25 ton dalam masa 1 hektar selepas 3 tahun daripada tarikh tanaman (singh, 2010). Keadaan ini akan membuatkan penghasilan hasil buangan yang boleh diguna pakai semula. Salah satu alternatif ialah penghasilan perabut daripada batang sawit dalam bidang industry. Selain itu di dalam bidang pertanian, pelepah sawit dipercayai boleh menggantikan tanah gambut sebagai humus untuk dicampurkan dengan sabut kelapa sebagai medium untuk fertigasi. Rumusan ini juga dibuat untuk mengetahui impak penggunaan bahan buang kelapa sawit kepada persekitaran.