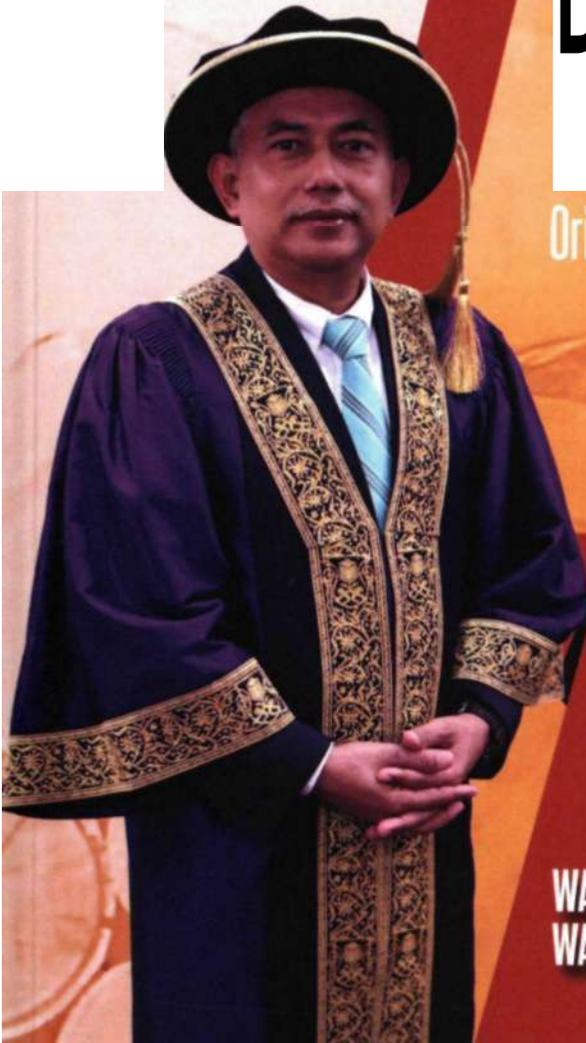




UNIVERSITI
TEKNOLOGI
MARA

Development of Kenaf

Oriented Strand Board (OSB)
and Commercial Trial



WAN MOHD NAZRI
WAN ABDUL RAHMAN

UiTM Professional
Lecture

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CHAPTER 1

Introduction

OVERVIEW

In recent years, natural fibre composite has led to intensive research and significant progress in the world due to its benefits of lightweight material, low cost, nontoxic, chemical and biodegradation resistance and originating from renewable resources. In addressing environmental issues such as deforestation and forest degradation, countries like Malaysia must adopt better and effective solutions to meet the industrial demand of the industries and at the same time protect the natural resources. Due to the shortage of raw materials, industries in Malaysia are forced to use lignocellulose materials from different sources to substitute wood as the raw material for production. One of the most effective ways to meet the demand for wood is by creating more plantations that focus on fast-growing tree species to replace wood as raw material and at the same time, reduce the demand on natural forests and protect natural resources (Wan Abdul Rahman et. al., 2020).

The wood-based industry in some countries, like Malaysia, is facing a shortage of raw wood supply because demand for wood-based products like plywood, oriented strand boards, hardboards, particleboards, and fibreboards is rising quickly around the world. As the demand for particleboards in the furniture and interior design