#### KAJIAN PENGHASILAN POLIPINA: THE CONVERSION OF PINEAPPLE LEAVES TO WHITE FABRIC

#### PREPARED BY:

\*

WAN YUNUS WAN AHMAD JAMIL SALLEH MOHD ROZI AHMAD MUHAMMAD ISMAIL AB KADIR MOHD IQBAL MISNON MOHD AZLIN MOHD NOR KHADIJAH OMAR SITI MARSINAH TUMIN

**OGOS 2010** 

## PROJECT TEAM MEMBERS

# WAN YUNUS WAN AHMAD

Project Leader Signature

JAMIL SALLEH MOHD ROZI AHMAD MUHAMMAD ISMAIL AB KADIR MOHD IQBAL MISNON MOHD AZLIN MOHD NOR KHADIJAH OMAR SITI MARSINAH TUMIN

### ABSTRACT

The Malaysian pineapple leaf fibre (PALF) from Yankee type was converted to fabric through fibre scrapping, hand spinning and hand loom weaving. It was scoured and bleached to remove impurities and turn to natural white colour. The project was to reduce pineapple leaves waste in plantation but a lot of works needs to be carried out to speed up the process of conversion to fibre, yarns and fabric. Process of conversion can be much faster and in larger volume by using suitable machineries and trained workers.

# **TABLE OF CONTENTS**

TITL	LE PAGE					
CAN	DIDATE'S DECLARATION					
ACKNOWLEDGEMENTS						
ABSTRACT						
TABLE OF CONTENTS						
LIST OF FIGURES						
LIST	T OF TABLES	ix				
-						
CHAPTER 1: INTRODUCTION						
1.1	Background of the Study					
1.2	Problem Statement					
1.3	Objectives					
1.4	Scope and Limitations					
CHA	<b>APTER 2: LITERATURE REVIEW</b>	3				
2.1	Introduction to Textile Fibres	3				
2.2	Plant Waste Fibres					
	2.2.1 Pineapple Leaf Fibres (PALF)	4				
2.3	Retting Processes 4					
	2.3.1 Water Retting	5				
	2.3.2 Field or Dew Retting	6				
	2.3.3 Chemical Retting	7				
	2.3.4 Enzymatic Retting	7				
2.4	Pineapple (Pina) Fibre Extraction					
2.5	Pineapple (Pina) Fabric	9				
CHAPTER 3: MATERIALS AND METHODS						
3.1	Materials and Apparatus					
3.2	Research Methodology	10				

	3.2.1	Fibre Extr	12	
	3.2.2	Yarn Forn	12	
	3.2.3 Fabric Formation			13
		3.2.3.1	Weaving Preparation	13
		3.2.3.2	The Weaving Motion	15
3.3	Desizi	18		
3.4	Bleach	18		
CHAP	19			
<b>4</b> .1	19			
CHAP	23			
5.1	Conclu	23		
5.2	Recon	23		
		•		
REFE	24			