### ROPE MAKING USING MAGUEY PLANT AN EXPERIMENTAL STUDY FOR SCIENCE

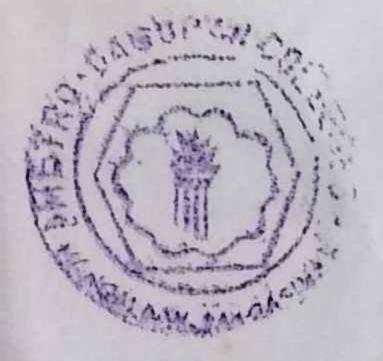
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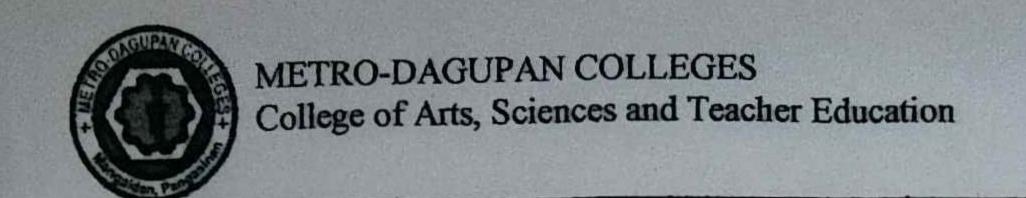
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#### **ABSTRACT**

Title:

Rope Making Using Maguey Plant An Experimental Study for Science

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#### INTRODUCTION

Maguey (scientific name: Agave Cantala) is a fleshy or somewhat woody coarse plant with short stout stem and leaves 20-50 in number which narrow toward both ends. The apex is with sharp horny point and the margin is sharp spiny-like teeth.

Leaves can be harvested from the planted bulbils after the fourth and fifth year and from planted suckers a year earlier harvesting should be during the dry season. Fibers are separated from the pulp by means of retting, hand scraping or by the use of decorticating machines. The retted fibers should be washed and dried in the sun.

# METHODS AND TECHNIQUES OF RESEARCH DESIGN

This study used an experimental method to discover something unknown or for testing an idea. It tried to determined and find out if maguey plant could be an alternative material in rope making.

#### STATEMENT OF THE PROBLEM

This study aims to determined if the fibers of maguey plans is viable for rope making.

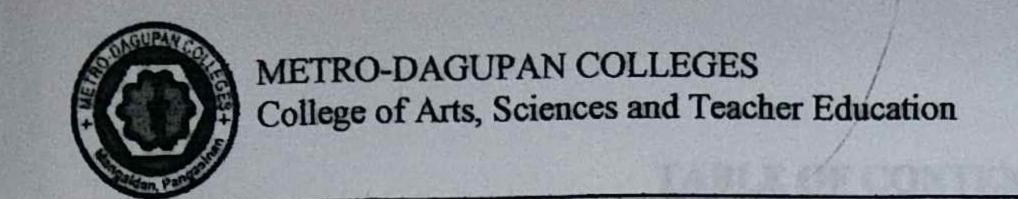
It sought to answer to the following question.

- 1. Can rope maguey competitive to other commercial rope.
- 2. Is it the product for maguey rope durable?

#### **SUMMARY OF FINDINGS**

The researchers conducted an experiment in rope making using maguey plant. It came out in their study that the rope made used of maguey plant are strong and lasting. The maguey rope was tested in terms of durability by towing, hoisting, rigging and wrapping that can compete with other commercial rope.

The researcher also found out that for every roll of rope, the price of per rope is P 7.00, the expenses incurred is P5.00 and thus the return of investment is P2.00.



### CONCLUSIONS

The researchers found out though their experiment the maguey plan can be use on making a rope. Based on this result of the study conducted, maguey plant has a better quality of rope produced.

Rope making is profitable but too difficult due to many process to be undertaken.

### RECOMMENDATIONS

From the foregoing conclusions the following recommendations are hereby suggested.

Since maguey plant produces better quality, the researchers are suggesting to use the product that made from maguey plant and those for the people who are interested to this study they conduct for more information. Further study of maguey can be useful for other medicinal purposes and other things.

## TABLE OF CONTENTS

Approval Sheet	
Acknowledgment	i
Dedication	ii
CHAPTER 1 THE PROBLEM AND ITS BACKGROUND	1
Introduction	1
Conceptual Framework	3
Importance of the Study	5
Statement of the Problem	6
Assumption of the Study	6
Scope and Delimitation of the Study	6
Definition of Terms	6
CHAPTER 2 REVIEW OF PROFESSIONAL LITERATURE	
AND RELATED STUDIES	8
CHAPTER 3 RESEARCH METHODOLOGY	13
Methods of the Study	13
Sources of Data	13
Procedures of the Study	14
Construction and Validation of the Research Instrument	15
CHAPTER 4 PRESENTATION, ANALYSIS AND	
INTERPRETATION OF DATA	16

### CHAPTER 5 SUMMARY, CONCLUSIONS AND

RECOMMENDATIONS	18
Summary of Findings	18
Conclusions	18
Recommendations	19
Bibliography	20
Appendices	21
Curriculum Vita	32

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