

UNIVERSITI TEKNOLOGI MARA

FOLDABLE CHICKEN FEEDER

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ABSTRACT

The foldable chicken feeder is made using aluminum as the main material. It consists of six parts of components. It is not used only for chicken feeders but it can be a trolley cart too if we remove the feeder part. Before this the chicken feeder used plastic as the material of the design but as we know plastic is not suitable for the environment and chicken health because it has chemical substances. Besides, the design was changed because of the contamination with mold and bacteria. The fabrication processes involved in this product include cutting, bolt, and nut joining, grinding, and drilling process. The finding of this prototype has been made successfully and functioned well when the grains were loaded into the feeder and it will come out consistently at the drain. In conclusion, This prototype achieved and This prototype is far from perfect and needs some improvement should be made.

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TABLE OF CONTENTS

	Page
CONFIRMATION BY SUPERVISOR	ii
AUTHOR'S DECLARATION	iii
ABSTRACT	iv
ACKNOWLEDGEMENT	v
TABLE OF CONTENTS	vi-vii
LIST OF TABLES	vii-vii
LIST OF FIGURES	ix-x
LIST OF ABBREVIATIONS	xi
CHAPTER ONE : INTRODUCTION	
1.1 Background of Study	1
1.2 Problem Statement	2
1.3 Objectives	3
1.4 Scope of Study	3
1.5 Significance of Study	3
CHAPTER TWO : LITERATURE REVIEW	
2.1 Benchmarking/Comparison with Available Products	4 - 6
2.2 Review of Related Manufacturing Process	7
2.3 Patent and Intellectual Properties	8 - 9
2.4 Summary of Literature	10 - 11
CHAPTER THREE : METHODOLOGY	
3.1 Overall Process Flow	12 - 13
3.2 Detail Drawing	14 - 20
3.3 Engineering Calculation and Analysis	21 - 22
3.4 Bill of Materials and Costing	23 - 24
3.5 Fabrication Process	24 - 30

CHAPTER ONE

INTRODUCTION

1.1 Background of Study

The main purpose of this project is to design, analyse, and fabricate a design that is a foldable chicken feeder with a low-cost budget. Chicken feeders are an essential component of poultry farming. It is designed to provide access to poultry chickens of all ages to feed safely and efficiently. It also helps in ensuring that chickens get the required amount of nutrients necessary for their growth and development. The quality of chicken feeders is crucial to ensuring that the chickens are healthy, as well as reducing the time and effort needed for feeding.

In recent years, also helped prevent waste and contamination of feed, which can lead to hygiene and health issues for the chickens. The design of chicken feeders has evolved over the years to accommodate the changing needs of the poultry industry. Early chicken feeders were simple troughs that were filled with feed and placed on the ground. However, this design had several drawbacks. Feed wastage was high, the feed was easily contaminated by droppings and soil, and birds were more susceptible to parasites.

Modern chicken feeders come in a variety of designs and materials. It can be made of plastic, metal, or even wood. Some are designed to hang from a wire or chain, while others can be placed on the ground. Some feeders are designed to be used inside the chicken house, while others are suitable for use in outdoor environments.

The study of chicken feeders is important to continue improving poultry production practices. The focus of research can range from the design and materials used to make them, to exploring different feeding schedules and their impact on chicken health and nutrition. Understanding the behaviour and feeding habits of poultry chickens can also inform the design and placement of feeders, thereby improving chickens' welfare and efficiency in poultry farming.