UNIVERSITI TEKNOLOGI MARA

DESIGN AND FABRICATION OF AGRICULTURE PUMP SPRAYER TROLLEY

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ABSTRACT

Agriculture sector is very important in our country. Effective method will ease the process to produce a high quality product. The agriculture pump sprayer trolley is used for watering and fertilizing crops. My objective of this project is to design and analysis an Agriculture Pump Sprayer Trolley and to fabricate an affordable and functional Agriculture Pump Sprayer Trolley. The problem that users faced is most of the agriculture pump sprayer nowadays is heavy, hard to operated and not a user friendly. Plus, most of that pump sprayer also take time and energy to be operated because people need to bring it at their back. So, in my project I will try to make an affordable and machine that easy to use. The expected result is to make a functional pump sprayer for the gardener or others. In conclusion, I hope my project will solve the problems that user faced

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CHAPTER ONE
INTRODUCTION

1.1 Background of Study

Humans invented agriculture between 7,000 and 10,000 years ago, during the Neolithic era, or the New Stone Age. There were eight Neolithic crops such as emmer wheat, einkorn wheat, peas, lentils, bitter vetch, hulled barley, chickpeas, and flax. The Neolithic era ended with the development of metal tools [1].

The agriculture is the most important activities for every country because it was the main source for food [1]. As these spaces evolve, the tools used to obtain effective results must also evolve. The traditional pump sprayer has come to upgrade to a better machine that can help the farmer or people do their job [2]. Agriculture Pump Sprayer Trolley are particularly effective and allow you to fertilize or watering the plants effortless.

1.2 Problem Statement

Generally, in the era of modern technology, most of the pump sprayer is quite expensive and get a lot of electronic components, that's can make a newbie struggling to operate them. Then, most of the modern pump sprayer also need to recharge or refuel that take time and cost to operate them. Other that, most of them also are quite big to be stored, not portable and very heavy to be taken anywhere. So, I try to design and analysis a project that can solve all the problems. In my project, I will try to make it more affordable and easy to operate by a user. I also will not use any power supply to save cost and time when using the machine. Portable, simple and light also is my priority of this project so that it can be easy to be stored and be taken anywhere.