

UNIVERSITI TEKNOLOGI MARA

**DESIGN AND FABRICATION OF AGRICULTURE
MULTI SPRAYER**

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ABSTRACT

In agricultural sector generally farmer uses traditional way that is spray carried on backpack and spraying crop. This becomes time consuming, costly and human fatigue is major concern, these problems can be overcome by using agricultural multi sprayer. It facilitates uniform spread of the chemicals, precision made nozzle tip for stream and capable of throwing foggy spray depending on requirement. In our project we use sprocket and chain that be connected by the connecting rod mechanism to convert rotary motion into reciprocating motion to operate the pump, thus the pesticide is spread through the nozzle. This work gives continuously flow of pesticide at required pressure and height.. By using agricultural sprayer, spraying time human efforts reduces and results in cost reduction.

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CHAPTER ONE

INTRODUCTION

1.1 Background of Study

In this era of globalization, all technologies used will become more advanced. Advanced technology used is very important to ensure that the work to be done is neat and the production period of an object is short. With this, something can be done perfectly and easily human In this era, the project must meet the set criteria such as environmentally friendly, not harmful to others and so on. This sector is run all over the world because it is one of our food sources as well as other life. From a detailed view in terms of fertilizing or watering plants, we can see that this sector is still the average farmers use traditional methods to do it. Therefore, creating a machine that can complete the work quickly is a desirable thing nowadays. With that, the machine that I want to create can do the job quickly and use less manpower. The idea of this project is called a designing and fabrication of agriculture multisprayer.

1.2 Problem Statement

Every agriculture sector in this world have their own machine to do the work . Therefore the equipment or machinery used in the agricultural sector must be improved so that the work becomes quick and easy. From this, the agricultural sector in our country is still adopting to the same systems and equipment. Especially the grass poison machines, on average marketed the machines are manual in nature and farmers have to pump the pressure of the liquid manually and have to spray evenly left and right repeatedly. Furthermore the sprayer has only one and this makes the liquid come out in a small quantity. This will take a long time to complete the work. To solve this problem, the tires are connected to the spray pump using spokes and chains and sprayers can solve this problem. Comes with a 4 sprayer, I feel it will make it easier and faster for farmers to poison.