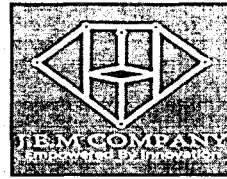




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**UNIVERSITI  
TEKNOLOGI MARA  
MALAYSIA**



## **SMART FOGGER BLUE PRINT**

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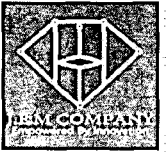
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## **EXECUTIVE SUMMARY**

J.E.M Company is a business provides technology development on fogging machine. This product was develop after doing a lot of survey, research and observations and the main purpose is to enhance the existing fogging machine function, reduce the difficulty and ergonomic disease among user. After some evaluation and discussion, SMART FOGGER is more convenient and might solve current situation.

Our current main target buyer is to Ministry Of Health, Inspectorate Health District, Vector Unit Control. We are taking into consideration to expand our target among private sector, pest control and agricultural in future.

There are 3 of us running these partnership businesses which carry each responsibility according to each speciality.



## **CHAPTER 1**

### **1.0 PRODUCT DESCRIPTION**

#### **1.1 INTRODUCTION**

Prior survey and information collected through questionnaire and interview basis among vector fogger, our company decide to invent a product with a high tech fogging machine. The main purpose of this product development are to reduce work load and health chronic effect to the fogger. Hence, smart fogger installed with some unique features which more practical and convenient to the user.

#### **1.2 PURPOSE DEVELOPMENT**

The purposes of the development are: -

- i. To effectively invent product that can increase efficiency of fogging activity.
- ii. To reduce direct exposure of output pesticide on workers.
- iii. To eliminate the burden that the workers need to carry excessive weight of fogging machine. Thus, avoiding ergonomic disorders.

#### **1.3 PRODUCT CONCEPT**

This product much convenient and effective to the foggers due to the intelligence and ability to reach difficult spot by using controller meanwhile reducing the technology use instead human source and less health adverse to human too.

Built with sensor to detect the motion, distance and surrounds to avoid smart fogger from bumping and hit wall, steep ground, hole and etc.

Equip with leg and wheels to broaden the motion abilities, especially in narrow area. Fog nozzle which can rotate and emit pesticide in fog or droplet forms

## CHAPTER 2

### 2.0 TECHNOLOGY DESCRIPTION

#### 2.1 PROTOTYPE OVERVIEW

