



اَوْنِيُوْرَسِيْتِيْ بِاَتِيَكْنُوْ لُوْ كِيْ بِاَمَّارَا  
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**TECHNOLOGY ENTREPRENEURSHIP  
ENT600**

**BLUEPRINT REPORT**

**ORGANIC WASTE MANAGEMENT OBIN**

**FACULTY** : FSKM  
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**STUDENT NAME** : EIMAN HAZIQ BI AHMAD NIZAM  
**STUDENT ID** : 2017282804  
**GROUP** : CS2416D1  
**LECTURER** : MADAM ZAIDATULHUSNA BINTI MOHD ISNANI

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# 1 EXECUTIVE SUMMARY

In Organic Waste Management, our aim is always trying to reduce the waste in Malaysia in a creative way. OBIN is a product where our customer can make their own fertilizers just by using their food waste at their house. It contains catalyst that helps food waste turn into organic fertilizers. For better storage of the fertilizer products it comes with a cooling system to reduce the smell of the fertilizers. OBIN is targeted to all middle to higher income level in Malaysia who's attracted to home gardening. In comparison to other product which already in the market. With the uniqueness that OBIN have we believed it can strive through the market and made changes to the world.

## 2 PRODUCT DESCRIPTION

### 2.1 DETAILS OF THE PRODUCT

Organic fertilizers can be made from OBIN by using just household food waste. The objective for this product is to make a homemade fertilizer for the home gardener. We can reduce the amount of food waste in the same time. Besides, this product can encourage for consumer to save money. It can also help reduce the amount of food waste in Malaysia which increasing every year. Organic fertilizers will reduce the acidity in the soil that will affect the growth of the plant.

### 2.2 APPLICATION OF FERTIBIN

OBIN is made up from PVC material forming a 5 different compartment container. First compartment is for the storage of the food waste. Second compartment is the OBIN to differentiate between organic and inorganic waste by using carbon sensor. As for the third, it contains the organic waste while the forth container contains the inorganic waste. The fifth which is the last container will store the final product which is the organic fertilizers itself. The third, fourth and fifth container will have a cooling system powered by a rechargeable battery. This is to prevent foul odor leaking out from the container by reducing the evaporation of the waste.

## 2.3 UNIQUE FEATURE

The unique features of this product are:

- Odorless

By using a cooling system to reduce the evaporation process, it can make the waste and fertilizers produce odorless and convenient for the consumers.

- Carbon Sensor

By using our own carbon sensor technology derived from the carbon monoxide sensor, it is used to separate organic and inorganic waste from each other.

- Rechargeable battery

It is a portable trash bin that can be moved freely in the house and comes with a charger to charge the battery.

- Consumer Safety

Auto-switch off the circuit board when detecting abnormalities in the system or electrical appliances.