



اَوَّلُ سَبِيحَةٍ تَكُونُ لَوَكِن مَارَا  
 UNIVERSITI  
 TEKNOLOGI MARA  
 MALAYSIA

## SMART TUMBLER

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- (what is poor  
 what is the  
 product)  
 - same as IPO  
 - m37 target  
 supplier

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## CHAPTER 1: PRODUCT DESCRIPTION

### 1.1. Introduction

A newly product developed based on generated ideas and concerns to those in needs of change in the normal product. This product is the results for those who need to stay hydrated other than creating awareness of the importance of hydration status. The targeted population was those of athlete and the general population around the world. The specifications of this product are slender and long bottle, special alarm as a reminder to drink and as location detection, safety locked and available in many colors. Based on the variables of questionnaires and survey done, this new product was generated through those demands.

What is the product?  
Same as NPD

### 1.2. Purpose of Development

The purposes of the product development are:

- To ensure athlete and other population aware about their hydration status and stay hydrated
- To facilitate athlete in their training by providing a water bottle that are easy to carry
- To assist people that always loss their water bottle
- To provide a water bottle that can lower the percentage of bacteria and make the water safer to be drink

### 1.3. Product Concept

- By using alarm application, this water bottle may help athlete and others to keep on track regarding water consumption and also give alert to them to drink more water.
- The shape of the bottle that curve at the middle with a friction added to make a stronger grip, great for athletes during training.
- Emphasizing GPS tracker that act as location detection when the water bottle loss.
- Built in antibacterial agent that can ensure water safer to drink.

Do you need this?



## 1.4. Application

### 1.4.1. Functions

- Hidralyne silicone - is typically heat-resistant and either liquid or rubber-like, and are used in sealants, adhesives, lubricants, medicine, cooking utensils, and thermal and electrical insulation.
- GPS tracker - is a navigation device, normally carried by a moving vehicle or person to track the device's movements and determine its location.
- Mini alarm – is an alarm device or system of alarm devices gives an audible, visual or other form of alarm signal about a problem or condition.

### 1.5. Unique Features

The uniqueness of the product includes:

- Cylindrical in shape
- Made from hidralyne silicone which made it easier for it to be compressed
- A lid to cover up the nozzle to make the sipping more easily and to avoid leakage
- Comes with different color to suits customer taste
- A long transparent line in the middle where to makes the user see the water level
- Alarms application which alerts user to drink water and alert the location for those who are always loss theirs
- Curve at the middle with a frictions added to make a stronger grips, great for runners.
- Safety- locked to ensure the safety of the user and also to prevent leakage. Every drop of water is priceless
- Able to keep water up to 500 ml, hot or cold.