



## SMART HOSE POWER

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## TABLE OF CONTENTS

Content	Page Number
<b>1.0 EXECUTIVE SUMMARY</b>	<b>3</b>
<b>1.1 Product Concept</b>	<b>3</b>
<b>1.2 Target Market</b>	<b>3</b>
<b>1.3 Competitive Advantages</b>	<b>3</b>
<b>2.0 PRODUCT DESCRIPTION</b>	<b>4</b>
<b>2.1 Product Details</b>	<b>4</b>
<b>2.1.1 Main Water Tap</b>	<b>5</b>
<b>2.1.2 Water On/Off Control Valve</b>	<b>5</b>
<b>2.1.3 Hose Nozzle</b>	<b>5</b>
<b>2.1.4 Retractable Hose Reel</b>	<b>5</b>
<b>2.1.5 Connector</b>	<b>6</b>
<b>2.1.6 Casing</b>	<b>6</b>
<b>3.0 TECHNOLOGY DESCRIPTION</b>	<b>7</b>
<b>3.1 Anti-microbial Growth</b>	<b>7</b>
<b>3.2 Laser Cutting Design</b>	<b>7</b>
<b>4.0 MARKET ANALYSIS AND STRATEGIES</b>	<b>8</b>
<b>4.1 Customer</b>	<b>8</b>
<b>4.2 Market Size</b>	<b>8</b>
<b>4.3 Estimated Cost</b>	<b>8</b>
<b>4.4 Selling Price</b>	<b>9</b>
<b>4.5 Marketing Strategies</b>	<b>9</b>
<b>4.5.1 Advertising and Promotion</b>	<b>9</b>
<b>4.5.2 Pricing</b>	<b>9</b>
<b>4.5.3 Service and Warranty Policy</b>	<b>9</b>
<b>4.5.4 Distribution</b>	<b>10</b>
<b>5.0 FINANCIAL PLAN</b>	<b>11</b>
<b>5.1 Start-up Cost</b>	<b>11</b>
<b>5.2 Working Capital (4 months)</b>	<b>11</b>
<b>5.3 Cost of Prototype</b>	<b>12</b>
<b>6.0 MANAGEMENT TEAM</b>	<b>13</b>
<b>6.1 Team Member</b>	<b>13</b>
<b>6.2 Other Required Expertise</b>	<b>14</b>
<b>7.0 PROJECT MILESTONE</b>	<b>15</b>
<b>7.1 Project Design Planning Flow Chart</b>	<b>15</b>
<b>8.0 Conclusion</b>	<b>17</b>

## **1.0 EXECUTIVE SUMMARY**

“Make toilet great again” is our company motto that brings the idea of this project. Through observation, our company can conclude that toilet hygiene and tidiness is always taken for granted by several people. Towards the year 2020, our company take the initiative to bring technology into toilet. Our company is honoured to be the first ever company come out with the idea of Smart Water Hose. This product can promote a healthier and more hygienic toilet.

### **1.1 Product Concept**

Smart Water Hose is an integration of water tap and water hose. It is design to make toilet more tidy and hygienic. This Smart Water Hose features a self-retractable hose and automatic turn off water tap. To use the water hose, the user just have pull the hose and the water will flow out automatically. After using the water hose, the user can just let go the hose and it will retract to its original state and turn water off automatically.

### **1.2 Target Market**

We are looking forward to achieve one Smart Water Hose for every toilet in Malaysia.

### **1.3 Competitive Advantages**

Our product is one of a kind in the world. There is no similar product in the market at the moment. From the point of competitive, our company believe that Smart Water Hose can compete with conversional water tap in the market. The nearest competitor might be the sensor water tap but sensor water tap does not have hose.

## 2.0 PRODUCT DESCRIPTION

### 2.1 Product Details

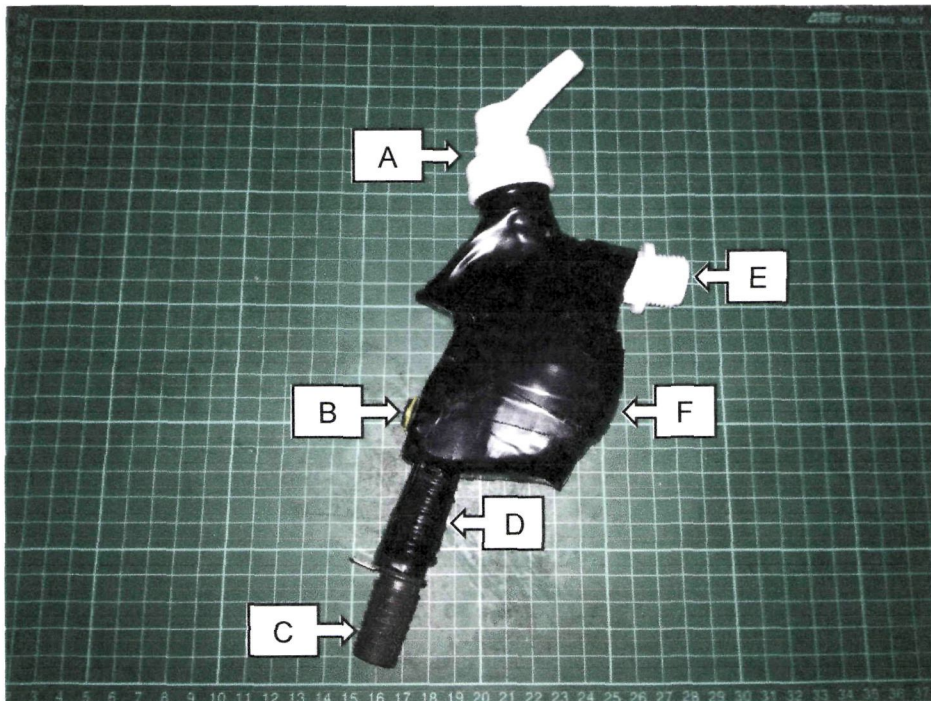


Figure 1 : Smart Water Hose

#### Legend :

Label	Component
A	Main Water Tap
B	Water On/Off Control Valve
C	Hose Nozzle
D	Retractable Hose Reel
E	Connector
F	Casing

### **2.1.1 Main Water Tap (A)**

Main Water Tap is the main switch to control water flow. Once the Main Water Tap is turn off, no water will flow. The Main Water Tap need to be turn on in order to use the Smart Water Hose. This Main Water Tap switch is create to enable any maintenance of the Smart Water Hose components to be perform without wasting the water.

Specification

Material : Copper

### **2.1.2 Water On/Off Control Valve (B)**

Water On/Off Control Valve is a mechanism to control the flow of the water. The valve will open once the hose is pull out and close when the hose retract to its original state.

Specification

Material : Nitrile Rubber

### **2.1.3 Hose Nozzle (C)**

Hose Nozzle is a place where the user hold the hose to pull. They circular design is produced by laser cut to improve grip for the user to hold the hose.

Specification

Material : Nitrile Rubber

### **2.1.4 Retractable Hose Reel (D)**

Retractable Hose Reel is the major component in the Smart Water Hose. Its material and design provide the hose the ability to self-retractable and no need power supply to operate. This hose mechanism is similar to the mechanism of self-retractable measuring tape.

Specification

Material : Nitrile Rubber