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BLUEPRINT

SMART INTELLIGENCE BACKPACK (SiB)

EE 2428 C

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CHAPTER 1

1.0 Product Description

1.1 Introduction

Backpacks are definitely a must have for people with active lifestyles from students to executive to adventure seekers. A reliable backpack will surely keep their activities running without any problems. Backpack is use for travel, camping and is carried daily for various reason. People can choose another an intelligent yet reliable and organized storage to carry their devices and other daily needs.

Thus, the team is developing SiB (Smart Intelligence Backpack), a backpack that is suitable for students and people who are always with their electronic devices.

1.2 Purpose of development

The purpose of the product development is to develop a backpack users;

- i. Charge electronic device.
- ii. Comes with security features.
- iii. Offer buoyancy in water.

1.3 Product Concept

- For hikers to charge its cellular battery during camping.
- For students to have a charged battery packs in the backpack.

1.4 Application

A Smart Intelligence Backpack or SiB is made up from PVC Fabric that is stylish and durable which is equipped with the latest technological parts. It has been designed with thin solar cells film and batteries to convert the sun energy to electrical energy and store it in the batteries. The capacity of this bag is 30 litre and the dimensions are 21.8 inch for height, 10.1 width, and 10.1inch depth.

1.5 Unique features

SiB provided the users with a several unique features. The unique features are:

- 1) Solar Charger and Battery Packs – Smart Intelligence Backpack captures more light at the solar panel. With two pieces of Mon crystalline solar cells, it can