

## **The Portable Housing**

### **Inspiration**

This design is inspired by Traditional architecture in villages across the Southeast of Asia known as peoples Architecture. Simple light structures made from local materials. My design is intended to be familiar, approachable and easy for the locals to understand during emergencies. It is simple hence flexible to their needs and circumstances, were the Panels can be used over and over in different ways just like the Toy Lego.

### **Brief description**

#### **Portable Bamboo Panels**

1m x 1m square panels made from Bambusa Stenostachya are designed to be assembled and disassembled, to form various emergency shelters according to need. The cross and the smaller square in the centre are designed to add sustainability whilst keeping the panels light in weight for easier transportation. These panels can be assembled to individual needs and climatic situation. They can serve as external walls, partition walls, doors and windows and shelter roofs

I have considered two options for weather and waterproofing of the panels which are as following:-

#### **OPTION A**

The Elephant (Harabla) leaves grow vastly under humid conditions in the Tropics, were they leaves can grow up to 3' long and 3' wide.

The leaves are known for their waterproof qualities, as they where traditionally used as Umbrellas to protect from rain and intense sun exposure.

Benefits of using the leaf:

- ✓ ecological
- ✓ widely available
- ✓ Cost efficient
- ✓ Can be found locally under extreme emergencies

#### **OPTION B**

Reflective insulation is commonly used in roofs and ceilings in the tropics of Southeast Asia.

Benefits of using this material are

- ✓ Reduces heat up to 40%
- ✓ Blends in with the surrounding environment as it reflects.
- ✓ Can be pre-manufactured and brought on site ready to assemble.
- ✓ Cost affective and widely available

### **Overall qualities of the portable Housing**

- ✓ Portable
- ✓ Light in weight
- ✓ Quick and simple to assemble.
- ✓ Cost effective and easy to dismantle and reassemble on alternative sites.
- ✓ Flexible in design
- ✓ Unlike traditional shelters it appears familiar and “Unalien” to locals.

### **Conclusion**

I have designed a Portable Shelter familiar to locals hence easy to comprehend and by keeping it simple the possibilities of its reuse remain endless with their imagination.....

**Sara Bahmanyar 47 A Archel Road, West Kensington, London, W14 9QJ United Kingdom**

[saraloe@yahoo.com](mailto:saraloe@yahoo.com)

**00447906279152**