

Design of a Portable Disaster Relief Survival Kit for India



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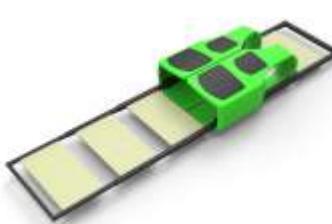
Abstract:

“Even with all our technology and the inventions that make modern life so much easier than it once was, it takes just one big natural disaster to wipe all that away and remind us that, here on Earth, we're still at the mercy of nature”.

Disasters could happen anywhere anytime irrespective of any person. They are simply defined to be accidents, and accidents are unexpected incidents. To provide assistance to people caught up in any disaster is an important job and for providing this there should be some equipment meant for disaster relief. Nowadays these items are carried around in bags or boxes. These products are called as Survival kits. Effort has been taken to identify the effects of disasters and the processes applicable to rescue people from the same. A survival kit is a set of basic tools & supplies which are prepared well in advance in case of emergency situations. In addition to basic products such as bandages, medical tweezers, antibiotics and first aid boxes all the survival kits are included with different items as per the area of use.

Various methods have been adapted to reach the final results and these are entirely based on the requirements found out. Research methods such as Literature review, Market study, Product study, Ethnography study has accompanied the process of reaching the final conclusions. Present models of survival kit available in market and their features were studied for evolving a new product which matches with Indian standards. Ethnography study was conducted to find out the people who would come to direct usage of these products and their requirements on such a kit.

From the inputs found out through these research methods, final concept has been generated. A design which satisfies all the possible basic requirements for saving a person's life affected by disasters especially Earthquake. A disaster relief survival kit in roll up form was selected as the final concept as it satisfied all the necessities found out like, functionality, ergonomics, low cost, size and weight. Functional prototype was developed and feedback was taken at final stages of the project.



Concepts generated

Final concept



Functional prototype of portable disaster relief survival kit