

Design of an Eco-Friendly Water Purifier-cum-Food Storage Device



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Keywords: Water Purifier, Food Storage, Clay Modeling, Food Preservation, Filters

Abstract:

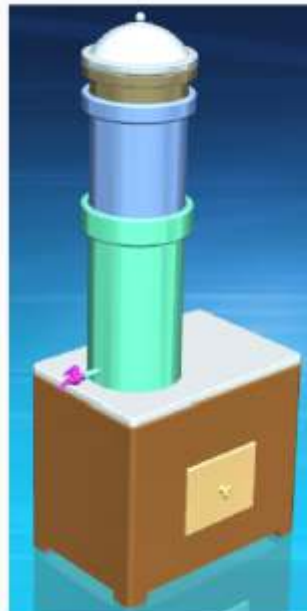
The scope of the project was to design an eco-friendly water purifier cum food storage device. It involves processing of purifying water in 7 different stages. Once the water gets purified the filtered water will be store in reserver. Clay was the material used to build this product, because of the very low porosity of the material water get cooled. By taking advantage of this property it is also used to store food for longer time.

In this project research has been conducted, traveling to different village in Bangalore (KAR), Kodampakam (TN), Wayanad (KL) and having direct interaction with people with questionnaires was the method adapted for data collection. A detailed survey and observation made during the visit to understand the lifestyle and the expectation. Data collection was followed by different design process like quality deployment function, monophological analysis, product design specification etc. were implemented during generation of concept design.

The final concept was selected through weight ranking methods, validation was carried out and feedback was collected from user. The responses given by the user and validation certificate for water purifier cum food storage device were positive.



Final rendered concept of water purifier-cum-food storage device



1:1 mock-up model



Prototype