

Design and Development of a Range of Garbage Storage Kits for Homes



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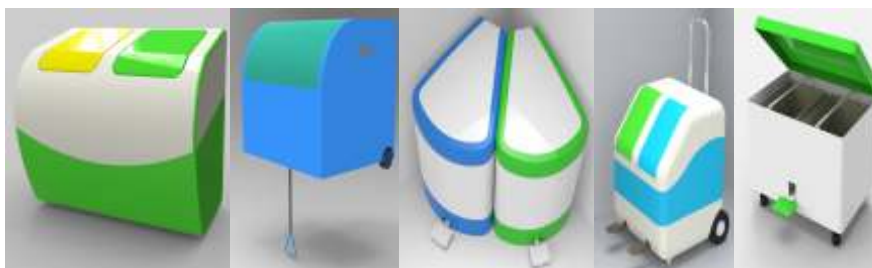
Abstract:

Household waste is one of the most difficult sources of solid waste to manage because of its diverse range of composite materials. Unattended waste lying around attracts flies, rats, and other creatures that in turn spread disease. Normally it is the wet waste that decomposes and releases a bad odor. Safe disposal of household waste is an important aspect of home hygiene. This project is an attempt to bring a solution for these problems by ensuring a better hygiene for homes by understanding the existing issues in the garbage storage kits.

Design process started with a primary research and an identified need of users. Need for a product that serves a better hygiene, functionality and aesthetics. Data collection was carried out by adopting design methodologies such as literature review, product study, market study and product environment study. Ergonomic study was conducted for deciding product parameters and overall dimensions. QFD and PDS were generated based upon data analysis. Concepts were generated with respect to the derived PDS and shortlisted by participatory method. Various issues and needs identified through data collection have been addressed in developed concepts. Final concept was selected by weighted ranking method.

"Habitos" has been proposed name for the product and caption for the product is "Make it a habit of use". The logo represents the trash can, inside which is the first letter 'H' of the product name, and the combination of white and green colour which gives the feeling of hygiene.

A 1:1 working model had been made to validate the final concept and feedback was collected from users. Major users were satisfied with the product features like hygiene, functionality, aesthetics, usability and ergonomics. The overall user response on the final concept was positive and satisfying.



Various concepts of garbage storage kit



Working model



Range of garbage storage kits for homes