Design of a Range of Sports Kits for Cricketers

P. Praveesh

praveesh2007@gmail.com
Ph. No: 0 96201 99379

Student's Name	**P. Praveesh**	**PD (PT-2011)**
Academic Supervisor(s)	H. S. Lohith and Chiranjith Barui	
Industrial Supervisor(s)		

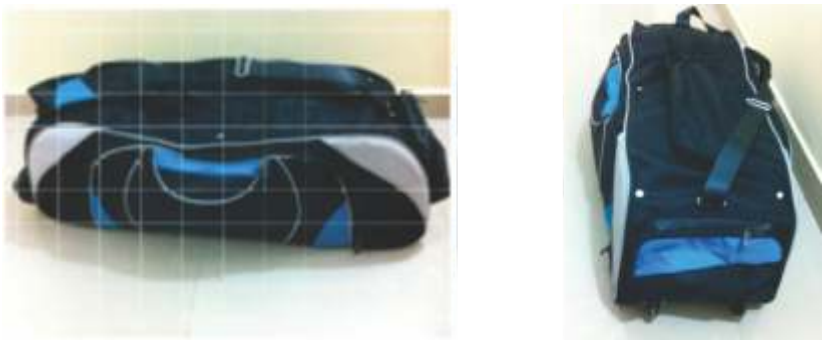
Keywords: Cricket Kit, Trolley Bag

Abstract:

Cricket is one of the most sought after sport among the Indian youngsters who are ambitious about pursuing a sports career. When they start playing competitive cricket they start realizing importance of cricket kit. Cricket kit bags available in the present market have different problems associated with it. When they start travelling together to different places for matches and camps their kits are often placed together in a heap making it difficult for each of them to recognize their individual bags. This project is an attempt to arrive at a solution to this problem and to address other unmet needs identified through design research. The project is aimed at players of first class level in India who may require extensive travel for their matches.

As a part of design research a comprehensive literature review, questionnaire survey, user study and ethnographic research were conducted to outline the basic product features of Cricket kit bag for cricketers. Product features of cricket kits in the current market were studied through product study. Market research was also conducted to identify different key players in the market and their range of products. Based on the needs identified Quality Function Deployment (QFD) chart was prepared to convert customer voice to technical specification. These technical specifications were prioritized based on importance ratings. Finally a Product Design Specification (PDS) was arrived at as an initial input to concept design.

Based on the PDS three concepts were generated. CAD model of all the concepts were developed using CATIA V5 R19 software, SOLIDWORKS 2011 and were rendered using Photoshop and Key shot. A final concept was selected from the three concepts by weighted ranking method. Final concept was detailed for making the prototype. The size and shape of the bag was designed so as to increase the space utilization and comfort of the user. It is also designed with bag recognition feature which is very helpful for players while they travel in groups. Ergonomic validation was carried out with a 1:1 prototype. The Prototype received a very positive user feedback.



Final prototype