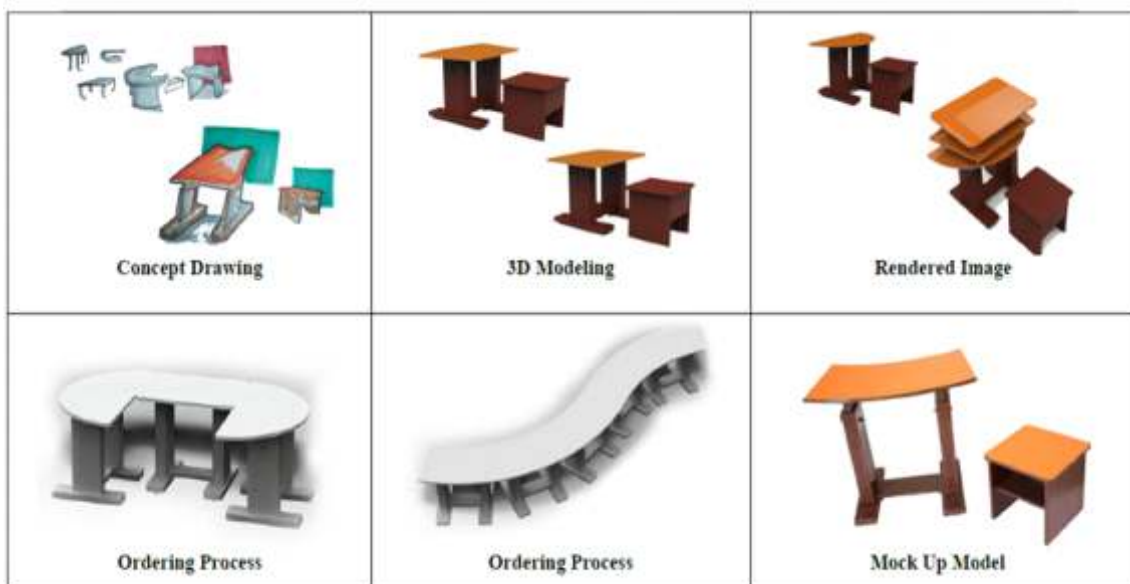


<b>GP1018</b>	<b>Design of a Seating System for Rural Schools using Eco-Friendly Material</b>		
<b>Group</b>	<b>1. K. Parasuraman</b>	<b>5. M. Sreenivasa</b>	
	<b>2. L. Ponsiva Sankar</b>	<b>6. S. Nidheesh</b>	
	<b>3. M. Muthukarthic</b>		
	<b>4. K. Nikesh</b>		
<b>Department</b>	Product Design (FT-2012)		
<b>Mentor(s)</b>	C. Gopinath and B. Rajathesh Nath		

Learning takes place within a web of social relationships as teachers and pupils interact both formally and informally. Schools are institutional spaces for communities of learners, including both students and teachers. Play and scuffle with one's friends on the school grounds, free time to sit on the benches and chat with one's friends during breaks, gathering together for morning assembly and other festive and significant occasions in the school, studies carried out in the classroom, anxious turning of pages before a class test, and teachers to places outside the school all these are activities bringing the community together, giving it the character of a learning community. How can the space of the class room be encouraged as a context where children feel safe, happy and wanted, and which teachers find meaningful and professionally satisfying?

The physical and psychological dimensions of the environment are important and are interrelated. In this chapter we examine these environments to understand how they significantly influence children's learning. For reaching this solution lot of data collection was done through literature survey and ethnography study. Data analysis was done through QFD and PDS and later concept generation was taken place through brain storming. Few concepts were shortlisted and study model was done to understand the product properly. Among that one concept was selected and trial mock-up model was done. After correcting the usability issues a working prototype was manufactured.

Selected concept of the Seating arrangements was made in 3D modeling with required facilities. Ergonomic study was done to know about how students and teachers are comfort and interaction between them. The working prototype was made in which most of the parts used were readily available in market easily. This reduces the manufacturing cost and increase the ease of serviceability. Government can undertake this concept and provide a good education to the students and happiness to the teachers to monitor all students in one time. It is called "Do it yourself design".



**Design process for seating system for rural schools**