Design of Goods Delivery Vehicle for Supermarket

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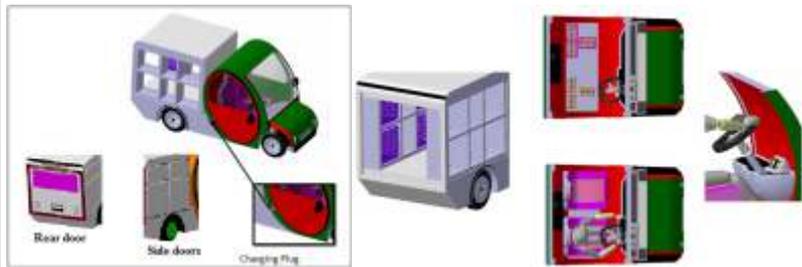
Abstract:

In India delivery vehicles in the city area are not convenient for narrow roads and at crowded roads. Big goods carrying vehicles create more air pollution and sound pollution. Now a day, there is a more competitiveness in business, particularly goods transportation and goods delivery at the door step to survive their business. So many offers are given to the customers; out of that door delivery is one option to attract the customer. On other side business men also get some benefit from the little margin from the profit so there is a need of good efficient goods vehicles with the entire feature.

All the studies described as using some sort of procedure, a systematic literature review was conducted on the existing mini goods vehicle. Based on the customer survey Gemba study was carried out to understand the requirement of battery operated mini goods vehicle. Quality Function Deployment (QFD) matrix and product design specifications have been developed and design specifications were listed at. Based on the design specification set of concept sketches was generated. Out of few concepts one concept was finalized based on the weighted ranking method. Geometric model of final concept was created and appropriate features to be incorporated in the goods vehicle were listed out. A physical mock-up model for final concept has been developed.

Good cabin interior was facilitated with different features to deliver the goods in good condition and easy delivery. Since it is a battery operated vehicle it is having a good economy of fuel, no air pollution as well as sound pollution and it can be used in narrow roads because of its compact size.

Final concept of goods vehicle

Exterior and interior concept of goods vehicle

Rendering of final concept

Mockup model of final concept