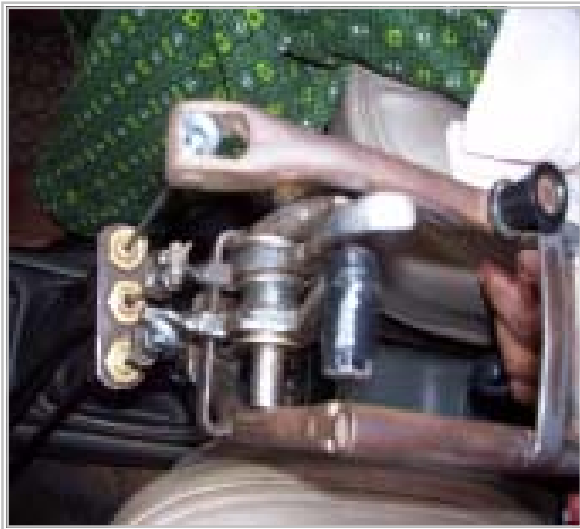


Grassroots Technological Innovations for National awards

Innovation Ref No: 41KL07A0736

1	Category	Automobile
2	Name of the innovator	Biju Varghese, Purayadathil House Venkurinji, Mukoothuthara, Pin- 686510 - Kerala.
3	Title of the innovation	Car for handicapped
4	Keywords	Hand operated car, handicapped car
5	Background of the Innovator	SSLC, ITI-Electrical Trade. Age: 34 yrs
	Summary	Innovator has developed a system in car for handicapped persons for driving (Accelerator and applying break, etc by hands. All the functions are operated using hands. Man and woman both can use it easily. Entire system could be replaced and changed into normal conditions Cost: Rs 4000-5000



Features of the Entry:

1	Novelty of the innovation, feature or subsystem	Can be operated by Handicapped as well as normal person.
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2	<p>Comparison to current conventional alternative by</p> <p>a) Functioning</p> <p>b) Cost</p> <p>c) Removal of drudgery</p>	<p>Hand operated. Entire system can be replaced for normal person also.</p> <p>Rs 4000-5000.</p> <p>Physically challenged can also now become self sufficient and enjoy driving</p>
3	<p>a) Demerits and Limitations</p> <p>b) Areas needing further work:</p>	<p>Standard parts for retrofitting are not available. Needs to customize for each user.</p> <p>The components used in retrofitting are currently custom-made. This needs Standardization.</p> <p>Clearance for retrofitting from the original manufacture</p> <p>Approval from ARAI for its roadworthiness etc.</p>
4	<p>Commercialization</p> <p>How many has been made/sold/used locally?</p> <p>b) What is the diffusion potential?</p>	<p>Not sold to anybody</p> <p>Good</p>
5	<p>Current and future application areas (multiplicity of utility)</p>	<p>All the existing vehicle have scope for such system</p>
6	<p>Social /environmental impact</p>	<p>High social impact. Used for handicapped person.</p>
7	<p>Significance to women, handicapped and other marginalized sections</p>	<p>Used for handicapped person</p>
8	<p>IPR considerations</p>	<p>As per prior art search such system are available with one or other differences.</p>