

Grassroots Technological Innovation for National Awards

Innovation Ref No.: 41UP41A0331

Innovator Profile

A	Name	Sh. B.K. Dwarka Prasad Chaurasia
B	Postal address	Jaiswal Colony, Bhaissaiya Tola PO: Ganesh Ganj, Mirzapur (UP) – 231 001 05442 – 220055(R), 266255(PP), 268674(PP)
C	Profession	Running a <i>pan</i> (betel-nut) corner
D	Educational Status	Primary (up to 4 th) Standard
E	Sex and Age	Male, 74 years
F	Biography/Background	Earlier he was a bicycle mechanic. At present Mr. Chaurasia is running a <i>pan</i> corner.

Title: Water Walking Shoe

Summary: The water walking shoes developed by Mr. Chaurasia consist of two floats made of thermo coal sheet bonded to raxine sheet and further the whole unit attached to metal strips. One needs hand held oars for balancing while walking in water. The water walking/skimming shoes costs around Rs. 2500/-



Innovation Detail

1	Category	General Utility/Household device
2	Detailed description	<p>Mr. Chaurasia has developed shoes that can be used to surf on water. Thermo coal sheet used for the purpose is 39 inch long, 15 inch wide, 12 inch thick and trapezoidal in shape. The whole packet is bonded in a raxine sheet with the help of metal strips. Straps with a back-foot support are mounted on the top surface for wearing the device like a shoe. Supporting sticks (oars) are developed with thermo coal bundled at the bottom. One has to use oars to move forward (cut the water) and to maintain balance.</p> <p>Mr. Chaurasia is successfully using the water walking shoes since last several years during the rainy season and flood.</p>
3	Keywords	Water skater, water walking shoe, water boat

Evaluation of Entry

1	Novelty of the innovation, feature or subsystem	It is low cost alternative of the available water skating shoes/boats.
2	<p>Comparison with currently available conventional alternatives by:</p> <p>a) Functioning</p> <p>b) Cost</p> <p>c) Elimination / minimization of</p>	<p>Most of the available alternatives work on the principle of propulsion. The proposed innovation works on the principal of buoyancy.</p> <p>The shoes developed by Mr. Chaurasiya costs around Rs. 2500/- as against Rs. 5000/- or more of the alternatives available abroad.</p> <p>A solution for common man who gets affected during flood.</p>

	drudgery	
3	<p>Encouragement needed:</p> <p>a) Current limitations/demerits</p> <p>b) Areas requiring further development work</p>	<p>If the user loses balance suddenly; it becomes very difficult to regain the original position.</p>
4	<p>Commercialization</p> <p>a) Status of commercialization (Manufactured / sold / used locally)</p> <p>b) Potential for diffusion</p>	<p>Not yet commercialized.</p> <p>It is not a mass-marketed consumer good but has potential to be sold in places where people have specific needs of an economical water surfing device. Such markets are available in small pockets distributed throughout our country. We may find a nice market in flood prone zones. It can be used in amusement parks for playing games like water polo.</p>
5	<p>Current and future application areas (multiplicity of utilities)</p>	<ul style="list-style-type: none"> • In Amusement park/ Children park as an entertainment feature. • In rural areas where small rivers and ponds are obstruction for traveling. • Playing games like water football and water polo
6	<p>Social/environmental impact</p>	<p>It can be used during national disaster viz. floods.</p>
7	<p>Significance to women, handicapped and other marginalized sections</p>	<p>Common people can use it.</p>
8	<p>IPR consideration</p>	
9	<p>Detail of Scout</p>	<p>Direct entry to NIF</p>