

Cost effective FUREBOAT to safeguard life and valuable during floods and boat capsizes

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1. Introduction to the Product

Recently our country faced heavy rainfalls in many locations and many households got affected due to flood. At present, during flood situations, the boats are being used to safeguard life and valuable. However, these boats need to be brought to the flood hit area from adjacent fishing harbour or boat house. Hence, in the present invention, a cost-effective multipurpose device Fureboat (furniture cum emergency boat) has been invented and developed to safeguard life and valuable during flood.

2. Product description:

The multipurpose furniture is made of steel frame to provide both strength and rigidity covered with polymer matrix with glass fibre/natural fibre composites and shown in Fig. During flood, the furniture is flipped and can be used as a boat as shown in figure to safeguard lives and valuables. A pair of oars are fixed at the bottom of the furniture and readily used for rowing during flood time. Further, the furniture can also be used to lift people for medical emergency during natural calamities such as landslides. Furthermore, the furniture can also be used as a solar still to harvest drinking water. These types of furniture can be used in offices, industry and public places during normal days. The fireboats can be used as a furniture in boats and ships to use as a rescue boat in case of emergency.



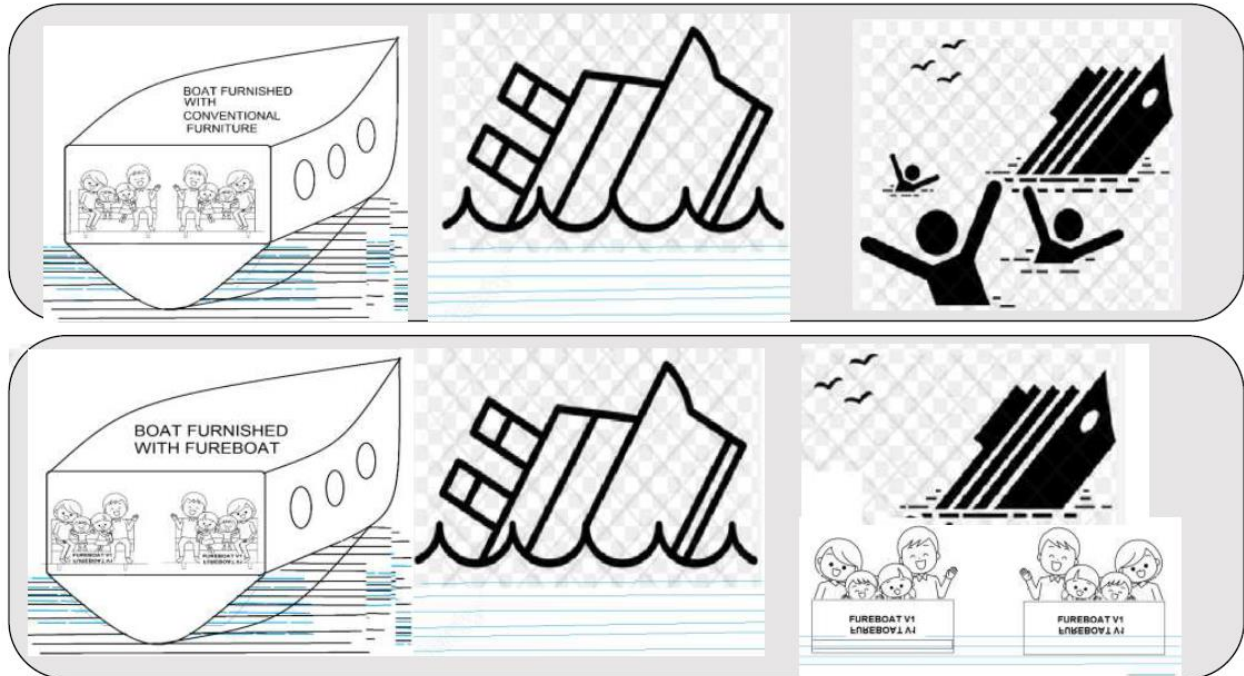
Figure - Honourable Minister of Education and Minister of Skill Development, Govt of India, Shri Dharmendra Pradhan, inspecting Fireboat during Inventure 2024 on 19th January 2024 at IIT Hyderabad





Figure - Honourable Union Minister of State for Education Dr. Subhas Sarkar inspecting Fureboat (Furniture cum boat) in furniture mode during his NIT Trichy visit on 31st October 2022

Boat furnished with normal Furnitures



Boat with furnished with Fureboats

The product demonstration is shown in following video links:

https://youtu.be/_nOcTSxtmKI <https://youtu.be/suwRPsX1hcU>

<https://www.youtube.com/watch?v=suwRPsX1hcU>

<https://youtu.be/ahZqac1Uq3o>

https://youtu.be/kLIqIwiJidE?si=FXmaAguFenHz_iA2

Patent on Fureboat:

1. Title: Multipurpose Furniture” Inventor Name: **S. Muthukumar**, Patent Application No. 202141017538.
2. Title: Multipurpose Rescue device” Inventor Name: **S. Muthukumar**, Patent Application No. 202241068142.
3. Title: A convertible Rescue device” Inventor Name: **S. Muthukumar**, Patent Application No. 202241065743.

Newspaper publication on Fureboat:

1. ANI News the print:
<https://theprint.in/india/nit-trichy-professor-invents-multipurpose-rescue-boat-called-fureboat/1198936/> on February 01, 2024.
2. The Hindu :
<https://www.pressreader.com/india/the-hindu-tiruchirapalli-9WWf/20231223/281616720176344> on December 23, 2023.
3. The Hindu :
<https://www.thehindu.com/news/cities/Tiruchirapalli/nit-t-academics-four-fureboats-head-out-to-help-the-flood-hit-in-thoothukudi/article67665981.ece> on December 22, 2023.
4. The Times of India:
<https://timesofindia.indiatimes.com/city/trichy/trichy-national-institute-of-technology-professor-invents-cost-effective-rescue-boat/articleshow/95289098.cms> on November 4, 2022.
5. The Hindu :
<https://www.thehindu.com/news/cities/Tiruchirapalli/nit-ts-fureboat-earns-kudos-from-minister-of-state-for-education/article66078494.ece> on October 21, 2022.
6. Malayala Manorama :
<https://www.manoramaonline.com/district-news/ernakulam/2023/11/29/ernakulam-fortkochi-coastal-police-will-buy-drones.html> November 29, 2023

News published about Fureboat:

1. Published on Puthiyathalaimurai news:https://youtu.be/_nOcTSxtmKI on November 3, 2022.
2. Published on Dinamalar news:<https://youtu.be/suwRPsX1hcU>

invents-cost-effective-rescue-boat/tamilnadu20221105185923788788462 on November 6,2022

3. Published on Kanak news: https://www.youtube.com/watch?v=_ceJx8brFdo on November 5, 2022.
4. Published on T News Telugu: <https://youtu.be/ahZqac1Uq3o> on November 6,2022