

# **Department of Zoology, Maa Manikeshwari University Innovates Wireless Medical Device for Liver Cancer Detection**



The novelty of the present invention lies in the unique shape, configuration, and aesthetic features of the "Wireless Device for Detection of Liver Cancer." This design has been duly approved and registered under the Designs Act, 2000, and Designs Rules, 2001, by the Office of the Controller General of Patents, Designs, and Trade Marks (CGPDTM), Government of India, under the Ministry of Commerce and Industry, with registration number 473394-001 issued on December 18, 2025. The registered proprietors and designers are Dr. Subrat Kumar Panigrahi (Assistant Professor and Head), Ms. Swagatika Mishra (Ph. D Scholar), and Mr. Rakesh Kumar Acharya (Scholar), all affiliated with Maa Manikeshwari University, Bhawanipatna, Kalahandi District, Odisha, India.

## Device Description

The Wireless Device for Detection of Liver Cancer is an advanced diagnostic system for early, non-invasive identification of liver abnormalities linked to cancer. It integrates wireless sensing, signal processing, and data transmission for real-time monitoring and analysis, aiming to enhance accuracy, minimize invasive procedures, and enable timely interventions.

## Future Impact

This innovation promises to benefit numerous liver cancer patients in the future. The registration bolsters Maa Manikeshwari University's profile in medical device innovation and cancer diagnostics.