BioSpectrum
the business of Bi
24 years of leveraging the business of Bio
www.biospectrumindia.co

Govt supports indigenous AI-powered blood testing device for primary healthcare

18 August 2025 | News

Company holds a patent for â??A transmittance-based system/kit for point-of-care quantificationâ?•



The Technology Development Board (TDB), Department of Science and Technology, Government of India, has signed an agreement with Primary Healthtech, New Delhi, for the project titled “IoT-enabled Point-of-care Blood Testing Device for

Affordable and Accessible Healthcare powered by AI/ML algorithms.”

The company's collaborative R&D, initially supported by BIRAC, led to the creation of the Mobilab device—a portable, battery-operated clinical chemistry analyzer, IoT-enabled and powered by artificial inteligence/ machine learning (AI/ML) algorithms, capable of testing over 25 parameters related to kidney, liver, heart, vitamins, and cancer.

The company holds a patent for “A transmittance-based system/kit for point-of-care quantification” transferred from IIT Guwahati and has filed over six additional patent applications related to integrated mixers, assay development, centrifuges, and proprietary optical systems. The device has already undergone trials on 10,000 patients and recently received a CDSCO manufacturing license.

The project will focus on enhancing the current prototype (M1) to perform five tests simultaneously, reducing patient waiting time, and setting up commercial-scale manufacturing. This next-generation Mobilab will include tests such as Hemoglobin, Creatinine, Bilirubin, Cholesterol, Triglycerides, Uric Acid, Glucose, and GGT, among others.