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Primary Healthtech develops portable device for diagnosis of chronic NCDs

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Mobilab is a multi-parameter, pocket-sized Point-of-Care-Testing device that is envisioned to test 25 parameters



Indian Institute of Technology Guwahati (IIT-G) alumni-led startup Primary Healthtech has developed an indigenous point-of-care-testing (POCT) device, Mobilab, that is expected to test 25 parameters in blood for early diagnosis of chronic non-communicable diseases (NCDs) related to kidney, liver, heart, and pancreas malfunctions.

Primary Healthtech is incubated at the Research Park and the Centre for Nanotechnology in IIT Guwahati campus, with extensive R&D, translational, and regulatory support from SWASTHA Centre for Excellence of MeitY, ICMR-DHR Centre of Excellence and BIRAC-DBT.

The device is operated through an IoT-enabled Android app and can perform about 150 tests with a single charge of the battery, which enables a digitally connected ecosystem for its use even for the remotest locations of the nation and serves the last-mile population.

At this stage, there are 11 parameters that have been validated in NABL accredited and government labs. Central Drugs Standard Control Organisation (CDSCO) has licensed the manufacturing of Mobilab which includes: Heart Profile (Cholesterol, LDL, HDL and Triglycerides); Liver Profile (Total Bilirubin, Albumin and Total Protein); Kidney Profile (Creatinine, Glucose and Uric Acid); Hematology (Haemoglobin); and Diabetes (Glucose).

The device generates real-time data in 10 minutes, followed by a digital report, along with an electronic health record of the patient which can be easily shared with the doctors.

Mobilab is validated at various levels in hospitals such as Guwahati Medical College & Hospital – GMCH, Guwahati Neurological Research Centre - GNRC, Nemcare, Army Hospital, AIIMS New Delhi, and has been deployed in various parts of Assam, Maharashtra, Uttar Pradesh, Madhya Pradesh, Gujrat, Delhi, and Arunachal Pradesh.