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Govt supports Prante Solutions for commercialisation of renal diagnostics platform Proflow-U

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Project envisages setting up a manufacturing and commercialisation facility in Odisha



The Technology Development Board (TDB) of the Department of Science and Technology, Government of India, along with Odisha-based startup Prante Solutions, has launched a new kidney care diagnostic product- ProFlow-U for Point-of-Care Kidney Health Assessment. An agreement for financial assistance for the project has been signed with TDB. The project aims to provide early detection and monitoring of kidney disease and pregnancy-related complications at the primary healthcare

level.

Prante Solutions has developed ProFlow-U, an innovative, patented, indigenous point-of-care diagnostic platform that includes the following specifications:

• Urine Albumin Measurement Kit – This is a nano-sensor based in vitro diagnostic medical device, developed based on three approved Indian patents and one PCT application. This kit provides a wide range of detection (20–1200 mg/L) with ambient temperature stability.

• Urine creatinine measurement kits – in vitro diagnostic devices with a room constant temperature with a wide range of detection (150–4000 mg/l).

• Portable Urine Analyzer – Indigenously developed, patented analyzer with absorption and fluorescence technology. This lightweight, rechargeable device is Bluetooth and Internet of Things enabled, and integrates with the ProFlow-U mobile application that includes Artificial Intelligence/Machine Learning features and calibration-free functionality.

The project envisages setting up a manufacturing and commercialisation facility in Odisha to scale up the production of Proflow-U and make it accessible in primary health centres, diagnostic networks, and antenatal care systems. The product has been rigorously validated based on high-level diagnostic methods and has been tested with laboratory-level accuracy as well as point-of-care tests (diagnostic tests such as diabetes or pregnancy tests performed immediately at the patient or at home). Unlike traditional laboratory tests, it gives quick results without sending out the sample, making it possible to make quick treatment decisions) designed to combine simple operational efficiency.