

Upsoil Technologies Pvt. Ltd.

Founder: A. Soumya Rao

Focus Area: Precision Agriculture including applications of Sensors, WSN, ICT, AI, IoT & Drones

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Foundation Year: 2019

Location: Odisha



PROBLEM STATEMENT

Limited access to soil health diagnostics, on-farm soil testing and personalized fertilizer recommendations at the grassroots level inhibits farmers' ability to optimize yields. The absence of farm insights on nutrient dosage hinders efficient agricultural practices, exacerbating productivity challenges in the agricultural sector.

SOLUTION OFFERED

Our product “Soilscope” is a point-of-use device for quick quantitative estimation of nutrients present in the soil. Soilscope is low cost, portable and affordable product for farmers which will give on-site results. It also provides fertilizer recommendations and crop which are suitable for that soil type.

PRODUCT USP

- Accurately measures, analyse and suggest corrective steps to improve soil health & productivity
- Measures N, P, K, Ca, S, Mg, pH, Moisture content, humidity, temperature and EC
- Test is very affordable at a cost of only Rs. 100 per test.

SOCIAL, ECONOMIC AND ENVIRONMENTAL IMPACT

Socially, it empowers farmers with access to crucial soil health information, fostering informed decision-making and improving agricultural practices. Economically, it enhances productivity and efficiency by providing cost-effective, personalized fertilizer recommendations, ultimately boosting yields and farmers' incomes. Environmentally, it promotes sustainable farming practices by optimizing nutrient usage, reducing fertilizer waste, and mitigating environmental degradation associated with excessive fertilizer application.



* as provided by the startup [Data Year 2023-2024]