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DEPARTMENT OF
SCIENCE & TECHNOLOGY
सत्यमेव जयते

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TECHNOLOGY
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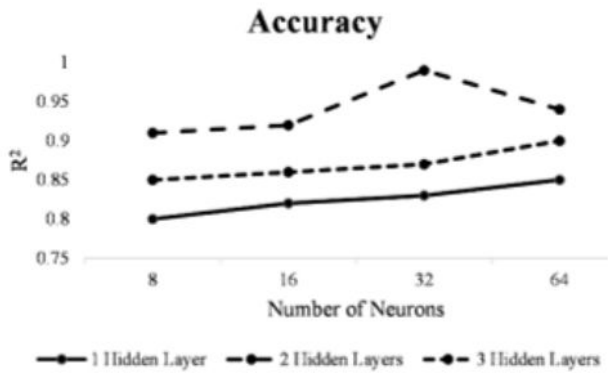
PENDING

(IN202111017453) A portable real-time colorimetric detection device and method of using the same



NEED

Contaminated water leads to 3.4M deaths annually, with 80% of waterborne diseases occurring in developing countries. What if water quality could be checked instantly, anywhere, without sending samples to labs?

MARKET ANALYSIS

The global water quality monitoring market is projected to grow at 8.3% CAGR, reaching $6.7B by 2033. India's rural areas and industrial zones present significant demand due to water contamination issues. (Sources: MarketsandMarkets, Grand View Research)

TECHNOLOGY OVERVIEW

This device offers a portable, real-time solution for water quality detection. It uses electrodes to measure parameters like pH and conductivity, and a minicomputer predicts additional water quality values, providing immediate, on-site results.

Target Industries

, Environmental monitoring service providers, agricultural water management solutions, public health agencies and NGOs working on water sanitation, technology platform integrators for IoT applications in water quality monitoring.

TECHNOLOGY KEY FEATURES

Portable, real-time water quality detection. Uses AI to predict unmeasured parameters. Features wireless connectivity for remote monitoring. Applicable for public health, agriculture, and water management sectors.

AT A GLANCE

- SDG 6 (Clean Water and Sanitation), SDG 9 (Industry, Innovation and Infrastructure), SDG 12 (Responsible Consumption and Production)

Read more here

Technology is available for licensing/ co-development.

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