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DEPARTMENT OF
SCIENCE & TECHNOLOGY
सत्यमेव जयते

BITS Pilani
TECHNOLOGY
ENABLING
CENTRE
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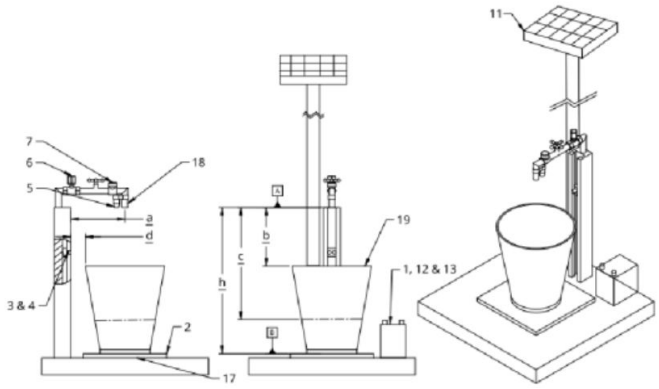
PENDING

(IN202011056176) Autonomous water supply management system



NEED

Water scarcity and wastage are growing concerns globally. Inefficient water management systems, especially in domestic setups, lead to significant water loss. A solution that enables real-time monitoring and control could reduce wastage and improve resource conservation.

MARKET ANALYSIS

The global water management market is projected to grow at a CAGR of 6.5% from 2023 to 2033, driven by increasing demand for efficient water management systems and sustainability initiatives. (Source: MarketsandMarkets, 2023)

TECHNOLOGY OVERVIEW

This autonomous water supply management system monitors water usage through weight sensors and ultrasonic sensors, and controls water flow using a solenoid valve. The system is powered by solar energy and can be retrofitted to existing installations.

Target Industries

1) Water management systems for residential and commercial sectors. 2) Solar energy companies integrating clean energy with water conservation. 3) Water utilities focusing on sustainable and efficient water distribution systems.

TECHNOLOGY KEY FEATURES

1) Solar-powered, energy-efficient system. 2) Retrofittable for existing water setups. 3) Real-time water usage monitoring and control. 4) Includes sensors for weight, flow rate, and ultrasonic water levels.

AT A GLANCE

- SDG 6 (Clean Water and Sanitation), SDG 7 (Affordable and Clean Energy), SDG 12 (Responsible Consumption and Production)

Read more here

Technology is available for licensing/ co-development.

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