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(57) Abstract :
The invention discloses an IoT-enabled platform for smart rural water supply monitoring comprising water level, flow, and pressure sensors (101), IoT gateways (102), cloud analytics engine (103), mobile dashboard (104), and water quality monitoring unit (105). The system enables real-time supervision, predictive maintenance, contamination detection, and remote control of pumps (108) and valves (107). It reduces wastage, improves safety, and ensures reliable water availability. The modular design, renewable energy support, and scalable architecture make the invention ideal for cost-effective rural deployment.

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