Team id: PNT2022TMID35688

Title: Real time river water

qualityMonitoring using

IOT

Date:19-11-2022

Configure and control using Mobile app:

This Project elates to a system for
measuring water quality using a smartphone,
and more particularly to a system for
measuring water quality using a smartphone,
in which, to solve problems of hand-
operated and manual water quality
measurement methods and in order to
increase reliability and accuracy, a water
quality meter and a smartphone, enables the
water quality to be measured in real time and
water quality data to be stored and
transferred to the outside, so that reliability

and accuracy of the measured water quality data may be improved.

(a)

Signal Conditioning/Readout

Microcontroller Unit

SMART WATER METER (SWM-1.0)

Water Quality Sensors

Smart Water Meter (SWM-1.0)

Classical Bluetooth Module

Rechargeable Battery

(b)

Water Quality Sensors (pH, TDS, Temperature)

Smart Water Meter (Signal conditioning & readout, Microcontroller unit, Bluetooth unit)

Smartphone based App interface (Data acquisition, storage, calibration, transfer to cloud)