PROJECT DEVELOPMENT DELIVERY OF SPRINT-2

DATE	7 November 2022
TEAM ID	PNT2022TMID31597
PROJECT NAME	Real time river water quality monitoring and control system

Proposed system :

The main aim is to develop a system for continuous monitoring of river water quality at remote places using wireless sensor networks with low power consumption, low- cost and high detection accuracy. pH, conductivity, turbidity level, etc. are the limits that are analyzed to improve the water quality.

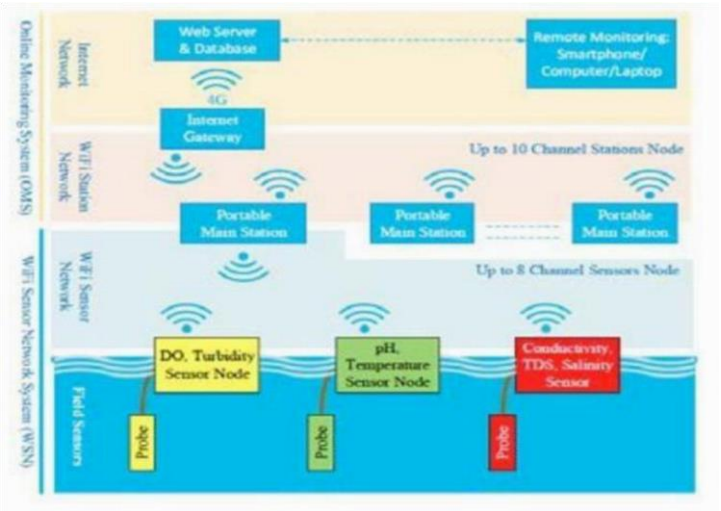
Following are the aims of idea implementation

(a) To measure water parameters such as pH, dissolved oxygen, turbidity, conductivity, etc. using available sensors at a remote place.

(b) To assemble data from various sensor nodes and sendit to the base station by the wireless channel.

(c) To simulate and evaluate quality parameters for quality control.

(d) To send SMS to an authorized person routinely when water quality detected does not match the preset standards, so that, necessary actions can be taken


Online Monitoring System (OMS)
Wi-Fi Sensor Network System (WSN)
Internet Network
Wi-Fi Station Network
Wi-Fi Sensor Network
Field Sensors
Web Server & Database
Remote Monitoring: Smartphone/ Computer/Laptop
4G
Internet Gateway
Up to 10 Channel Stations Node
Portable Main Station
Portable Main Station
Portable Main Station
Up to 8 Channel Sensors Node
DO, Turbidity Sensor Node
pH, Temperature Sensor Node
Conductivity, TDS, Salinity Sensor
Probe
Probe
Probe