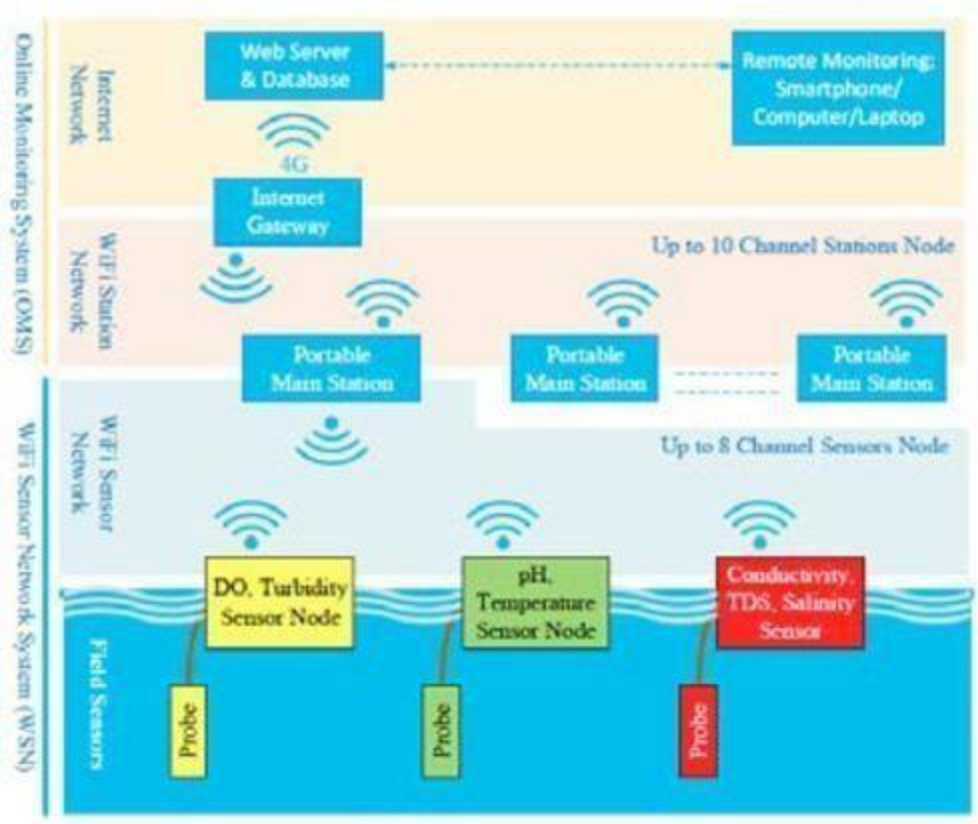
PROJECTDEVELOPMENTDELIVERYOFSPRINT-2

Date	18 November2022
Team ID	PNT2022TMID11765
ProjectName	Project–Real-TimeRiverWaterQualityMonitoringand ControlSystem

Proposedsystem:

The main aim is to develop a system for continuous monitoring ofriverwaterqualityatremoteplacesusingwirelesssensornetworkswith low power consumption, low- cost and high detection accuracy.pH, conductivity, turbidity level, etc. are the limits that are analyzed toimprove the water quality. Following are the aims of ideaimplementation (a) To measure water parameters such as pH, dissolvedoxygen, turbidity, conductivity, etc. using available sensors at a remoteplace.(b)Toassembledatafromvarioussensornodesandsendittoth ebase station by the wireless channel. (c) To simulate and evaluatequality parameters for quality control. (d) To send SMS to an authorizedperson routinely when water quality detected does not match thepresetstandards, sothat, necessaryactionscanbetaken.


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