PROJECT DESIGN PHASE 1

Solution Architecture

Date	1 October 2022
Team ID	PNT2022TMID4862
Project Name	REAL TIME WATER QUALITY MONTORING AND CONTROL SYSTEM
Maximum Marks	4 marks

SOLUTION ARCHITECTURE DIAGRAM:

Aim is to develop a system for continuous monitoring of river water quality at remote places using wireless sensor networks with lost cost and detection accuracy.

1. To measure the parameters such as pH, dissolved oxygen, turbidity and conductivity using *pH, turbidity and temperature sensor* at river.

2. To assemble data from various sensor nodes and send it to base station by the wireless channel.

3. To simulate and evaluate quality parameters for quality control.

4. To send SMS to an authorised person routinely when water quality detected does not match the preset standards.

5. The data aggregator server can retrieve the analysis result and transfer the result to the app running on laptops, hones etc., in cloud.