

# **REAL TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM USING IoT**

**Submitted by**

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**BACHELOR OF ENGINEERING IN  
ELECTRONICS AND  
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PROJECT DESIGN PHASE 1

Solution Architecture

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Team ID	PNT2022TMID23523
Project Name	Real time river water quality monitoring and control system usingIOT
Maximum Marks	2 Marks

SOLUTION ARCHITECTURE DIAGRAM:

AIM :

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.
- 3. To simulate and evaluate quality parameters for quality control.
- 4. To send SMS to an authorized 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.

