# PROJECT OBJECTIVE

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| **Date** | 18 November 2022 |
| **Team ID** | PNT2022TMID10102 |
| **Project Name** | Project – Real-Time River Water Quality Monitoring and Control System |

Current water quality monitoring system is a manual system with a monotonous process and is very time-consuming.

This paper proposes a sensor-based water quality monitoring system.

The main components of Wireless Sensor Network (WSN) include a microcontroller for processing the system, communication system for inter and intra node communication and several sensors.

Real-time data access can be done by using remote monitoring and Internet of Things (IoT) technology.

The major goal is to create a system that uses wireless sensor networks to continuously monitor river water quality at remote locations with low

power consumption, low cost and high detection accuracy.

pH, conductivity, turbidity level and other parameters are measured in order to enhance water quality.

The remote sensing technology is the cornerstone of IoT-based water quality monitoring.

This implements the approach by using the pH sensor, turbidity sensor to obtain analog readings for water contaminates.

In addition, for the specific application, we can add extra sensor elements