

**Ideation Phase**  
**Define the Problem Statements**

Team ID	PNT2022TMID25446
Project Name	Real-Time River Water Quality Monitoring and Control System

**PROBLEM STATEMENT**

The pure drinking water management is the biggest task in the current situation because of pollution environment.

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

Existing water treatment system cannot detect the dissolved contaminants such as chemical and other venomous solutions.

Chlorinating is usually used to protect micro organism. However, drinking too much chlorinated water leads to several diseases.

There is no single instrument that can detect all the possible parameters such as pH, temperature and conductivity.

The main reason for this happening is the unawareness among public and administration and the lack of quality management.

Design a quality monitoring system leads to help the public to know the current quality of the water and this is 24/7 process.

The initialization cost is high and need a proper maintenance over a long period of time and more useful to human resources.

It is eco friendly product with more benefits hence the future depend on this unmanned water quality monitoring system.