

Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID27339
Project Name	Project – Real time River water quality monitoring and control system
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	It is difficult to measure the water quality parameters manually for testing the quality of water
2.	Idea / Solution description	This project proposes a sensor-based water quality monitoring system. Using the pH sensor , Turbidity sensor ,temperature sensor and dissolved oxygen sensor the pH , turbidity , temperature and dissolved oxygen of the water can be measured. If the acquired value is above threshold value automated warning SMS alert will be sent to the specified account.
3.	Novelty / Uniqueness	The uniqueness of our proposed project is , the quality of water is obtained with high frequency , high mobility and low powered.
4.	Social Impact / Customer Satisfaction	Using this project the quality of water can be measured easily so that necessary actions can be taken to avoid or reduce the water pollution .
5.	Business Model (Revenue Model)	This project reduces the man power and time need to measure water quality parameters . All the water quality parameters will be displayed by this model so that necessary actions can be taken to improve the quality of water.
6.	Scalability of the Solution	The main advantage of this project is its scalability. It is very compact in size such that it can be taken anywhere easily to measure the water quality .