

**Project Design Phase-I**  
**Proposed Solution Template**

Date	19 September 2022
Team ID	PNT2022TMID48179
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)	Water is a finite resource that is necessary for agriculture, industry and the survival of all living things on the planet, including humans. Many people are unaware of the need of drinking adequate amounts of water on a daily basis. Many unregulated methods waste more water. Poor water allocation, inefficient consumption, lack of competent and integrated water management are all factors that contribute to this problem. Therefore, efficient use and water monitoring are potential constraint for home or office water management system.
2.	Idea / Solution description	The solution to this problem is, to monitor the river water quality for the need of safe drinking water.
3.	Novelty / Uniqueness	The uniqueness is to obtain the water monitoring system with high frequency, high mobility, and low powered. Therefore, our proposed system will immensely help Bangladeshi populations to become conscious against contaminated water as well as to stop polluting the water.
4.	Social Impact / Customer Satisfaction	Using this application, we can track the contents in river water to make sure that the water is in safe limit for utilizing for general purpose on living things.
5.	Business Model (Revenue Model)	Current water quality monitoring system is a manual system with a monotonous process and is very time-consuming. The system consists of

		several sensors which is used to measure physical and chemical parameters of the water.
6.	Scalability of the Solution	This system proposes a sensor based water quality monitoring system, consists of several factors which is used to measure physical and chemical factors of the water.