

Project design phase – I
Proposed solution Template

Date	09-11-2022
Team ID	PNT2022TMID03218
Project Name	Project – IOT-Based Real-time River Water Quality Monitoring and Control System
Maximum mark	

Proposed Solution Template:

The project team shall fill in the following information in the proposed solution template.

S.No	Parameter	Description
1	Problem Statement (Problem to be solved)	IoT Based on Real-Time River Water Quality Monitoring and Control System
2	Idea / Solution description	<ol style="list-style-type: none">1. To monitor the water quality using various sensors viz temperature, turbidity, pH.2. Data stored in the IBM cloud for further analysis.3. Alert is made via web/mobile app in case of any hazardous levels.
3	Novelty / Uniqueness	The analysis is done to indicate if the river quality is moving in a good/ bad way and showing the possible species(plants and animals) that could get affected.

4	Social Impact / Customer Satisfaction	Many factors like pollution from dying industries, and run-off from agricultural lands can alter the chemistry of the water, and consuming it could be dangerous or even lethal.
5	Business Model (Revenue Model)	The product developed could help the community that depends on that specific water body. This prevents health issues that could happen in case of ingestion.
6	Scalability of the Solution	Construction and maintenance are relatively simple. A good setup with a decent internet connection is essential. Hence the setup should be in a place where there's internet available.