

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

Date	17 October2022
Team ID	PNT2022TMID07790
Project Name	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)	<ul style="list-style-type: none"><li>Water gets polluted due to industrial waste, medical waste, fertilizers or farm wastes. So water cannot be used for domestic purposes.</li></ul>
2.	Idea / Solution description	<ul style="list-style-type: none"><li>To measure various chemical and physical properties of water like pH, temperature and particle density of water using sensors.</li><li>Dispose the industrial waste, toxic chemicals and medical waste properly.</li></ul>
3.	Novelty / Uniqueness	<ul style="list-style-type: none"><li>If the acquired value is above the threshold value automated warning SMS will be sent to the agent.</li><li>The uniqueness of our proposed paper is to obtain the water monitoring system with high frequency, high mobility and low powered</li></ul>
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"><li>Living organism such as aquatics, human beings, animals suffer due to polluted water so this can be avoided.</li><li>Water borne diseases such as Typhoid, Cholera, Polio etc.. can be prevented and avoided.</li></ul>
5.	Business Model (Revenue Model)	<ul style="list-style-type: none"><li>Water quality monitoring system by aeron systems for industrial water treatment plant, river bodies, aqua forming ,digital loggers.</li></ul>
6.	Scalability of the Solution	<ul style="list-style-type: none"><li>Water quality data with a high spatial and temporal resolution for thousands of lakes at a time.</li><li>It supports the evaluation of environmental problems and potential health risks through the analysis of changes in water quality and the detection of harmful algal blooms.</li></ul>