

Project Design Phase-I
Proposed Solution

Date	24 September 2022
Team ID	PNT2022TMID30880
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">Water gets polluted due to industrial waste, medical waste, fertilizers or farm wastes. So water cannot be used for domestic purposes.
2.	Idea / Solution description	<ul style="list-style-type: none">To measure various chemical and physical properties of water like pH, temperature and particle density of water using sensors.Dispose the industrial waste, toxic chemicals and medical waste properly.
3.	Novelty / Uniqueness	<ul style="list-style-type: none">If the acquired value is above the threshold value automated warning SMS will be sent to the agent.The uniqueness of our proposed paper is to obtain the water monitoring system with high frequency, high mobility and low powered
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none">Living organism such as aquatics, human beings, animals suffer due to polluted water so this can be avoided.Water borne diseases such as Typhoid, Cholera, Polio etc.. can be prevented and avoided.
5.	Business Model (Revenue Model)	<ul style="list-style-type: none">Water quality monitoring system by aeron systems for industrial water treatment plant, river bodies, aqua forming ,digital loggers.
6.	Scalability of the Solution	<ul style="list-style-type: none">Water quality data with a high spatial and temporal resolution for thousands of lakes at a time.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.