

Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID52890
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)	Our aim is to monitor the Quality of River water
2.	Idea / Solution description	Take necessary steps to prevent the agents which degrade the quality by continuously monitoring the quality and composition of water
3.	Novelty / Uniqueness	<ul style="list-style-type: none">• The very idea of real time river monitoring and not purification of contaminated water is the unique aspect.• As prevention is better than cure the proposed model will monitor any deviations from accepted levels of pollutants and see that it doesn't cross a threshold.
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none">• It benefits people (us) and raises the sanitary conditions and standard of living• Marine life benefits as monitoring river water ensures a clean and toxin free environment for marine beings• Aids in social biodiversity and thereby food chain
5.	Business Model (Revenue Model)	<ul style="list-style-type: none">• Overall financial revenue of the nation would be made in check. Around 5.55 billion dollars is used by people to buy bottled purified water.• Around 67,221 crores is used for drinking water and sanitation department in the budget plan of India. This finance could be drastically reduced with the implementation of a real time river water monitoring and control system.

6.	Scalability of the Solution	<ul style="list-style-type: none">• The proposed solution could be employed in desired location thereby facilitating the people living on that region.• The deployed model could be scaled to an extent to implement creative ideas
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