

Project Design Phase-I
Proposed Solution Template

Date	24 September 2022
Team ID	SheUnited
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)	How might we detect and monitor the quality of river water since river water pollution is a global environmental threat? (How might we save the river water??)
2.	Idea / Solution description	Developing an IOT based water quality monitoring system using Arduino and sensors which will check if the pollutants present in the river water are under the threshold value or not and displays whether the water is suitable for consumption.
3.	Novelty / Uniqueness	*Wireless sensor networks (WSN) is used in the proposed system *Big data analytics is used
4.	Social Impact / Customer Satisfaction	Monitoring water quality is an important part of helping us determine whether or not we are making progress in cleaning up our waterways. It reveals the health and composition of streams, rivers, and lakes at a snapshot in time, as well as over weeks, months, and years
5.	Business Model (Revenue Model)	*This proposed system can be implemented as an Government funded project to ensure the sanity of rivers across our nation. *Industrial effluents after waste water treatment can be monitored by the proposed system before letting it into the river
6.	Scalability of the Solution	The scalability of the solution can be improved by making it a low power system solution