

Project Design Phase-I
Proposed Solution Template

Date	27 October 2022
Team ID	PNT2022TMID33916
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)	Real Time River water quality monitoring and controlling using IOT.
2.	Idea / Solution description	Monitoring water parameters such as pH, TDS, Salinity and hardness using Arduino and sensors.
3.	Novelty / Uniqueness	<ul style="list-style-type: none"> Data samples are collected and accurate parameter values are obtained. Individual notification will be sent to people and to the authorities.
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"> Pollution in water can be identified. Eutrophication can be controlled. Parameters such as chemical, radiological and biological can be checked to increase the impact on health and vegetation.
5.	Business Model (Revenue Model)	<ul style="list-style-type: none"> Cost effective model which people can afford. Application is flexible to users.
6.	Scalability of the Solution	In this model, data can be collected and sampled using IOT and cloud services, can be viewed from any location at any time. Water quality can be measured even in remote areas without laboratory equipments.