

## Ideation Phase

### Define the Problem Statements

Date	19 September 2022
Team ID	PNT2022TMID46761
Project Name	Real-Time River Water Quality Monitoring and Control System
Maximum Marks	2 Marks

#### Customer Problem Statement Template:

Agriculture is the backbone of Delta region in Tamil nadu. 80% of cultivation depends on Cauvery river water. The river water is carried through the agricultural fields via canals. And the river water is the main source of drinking water supply for the localities. But it was polluted by fertilizers, pesticides, chemicals and also by some biological activities. It directly affects people's health and aquarium lifestyle. So, the quality of water needs to be monitor, that is ulmost important to use it for various purposes.

It is mandatory to monitor pH level and temperature of the river water. If the quality of the water is not good it will be announced to localities not to use the water.

Problem Stateme nt (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS -1	Farmer	Cultivate paddy, sugercane, maize	Not able to harvest good quality of crops	Inadequate Supply of good quality of water	Unable to produce profit and it also affect cattles
PS -2	General public	Use good quality of water for various purpose	It is not good to drink and use	High usage of pesticides, and sewage mixes with river water	Unhealthy and struggles for daily usage of water