

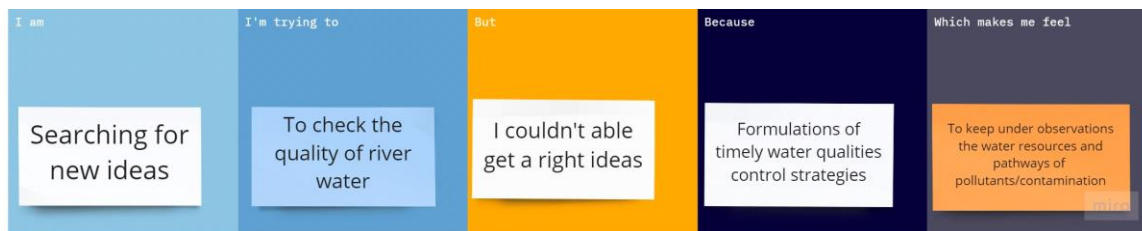
**MAHENDRA INSTITUTE OF
TECHNOLOGY(AUTONOMOUS)**

Ideation Phase Define the Problem Statements

Date	19 September 2022
Team ID	PNT2022TMID17260
Project Name	Project – IoT based Real time river water quality Monitoring and Control System
Maximum Marks	2 Marks

Customer Problem Statement:

The contamination of water has become a common problem globally. The conventional methods of monitoring involves manual collecting water sample from different locations and tested in the laboratory using the rigorous skills. Such approaches are time consuming and are no longer to be considered to be efficient. Moreover, the current methodologies include analyzing various kinds of physical and chemical parameters. The old methods of quality detection and communication is time consuming, low precision and costly . Therefore, there is a need for continuous monitoring of water quality system in real time. By focusing on the above issues, low cost monitoring system to monitor water in real time using IoT is proposed. In this system quality parameters are measured using different sensors such as pH, turbidity, temperature and communicating data onto a platform microcontroller system and GPRS are used.



Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	Searching for new ideas	To check the quality of river water	I couldn't able get a right ideas	Formulations of timely water qualities control strategies	To keep under observations the water resources and pathways of pollutants / contamination
PS-2	Searching for new ideas	Find new technology on trends	I couldn't able to read the content effectively	Difficult to design monitoring technologies	Difficult to monitor and check the quality more than one water resources

Reference: <https://miro.com/templates/customer-problem-statement/>