**Project title** – Real time river water quality monitoring and control system

**Project phase** – Problem solution fit

**Team ID** -PNT2022TMID48692

1.Customer segment:

It can be applied in remote rivers,lakes,coastal areas and other water bodies to prevent water pollution and measuring the quality.

2.Jobs to be done:

It send alert via sms and analysis can be done through data.

3. Trigger:

Budget, network connection

4.Emotions before/ after:

Customer have to do it because of prevention of water pollution and quality analysis.

5.Available solutions:

The conventional methods of testing water quality is to gather samples of water manually and sent to the lab to test and analyse.

6.Customer constraints:

The concentration of dissolved oxygen, bacteria levels, the amount of salt or the amount of material suspended in the water.

7.Behaviour:

It helps us determine whether or not we are making progress in cleaning up our waterways.

8.Channel of behaviour:

It determined ph, turbidity, conductivity and temperature.

9.Problem root cause:

High cost for small sensors. Microcontroller has the task of signal digitalizing, data transmission, network management.

10.Your Solution:

The collected data is analysed and the pollution of water can be investigated by a stringent mechanism.