## Project Design Phase-I Problem Solution Fit

Date	19 September 2022
Team ID	PNT2022TMID38737
Project Name	Efficient Water Quality Analysis and Prediction Using Machine Learning
Maximum Marks	2 Marks

## **1.CUSTOMER SEGMENTS 6.CUSTOMER CONSTRAINS 5.AVAILABLE SOLUTIONS** Have information on the water's There are various categories of Customers can use a web colour, odour, pH level, and other customer of high-quality water application to analyse the water characteristics to evaluate if it is in the public, private, and quality by simply providing a safe to drink or not. government sectors. few water characteristic data, but they do need some fundamental prerequisites, **PROS** such as a network connection, a Solution within a second system or a mobile. **CONS** Accuracy is not 100 % **7.BEHAVIOUR** 2.JOBS TO BE DONE/PROBLEM 9.PROBLEM ROOT CAUSE Gather the historical information All living things are harmed by Customers must have up-toabout the quality of the improper maintenance date information about the rainwater and surface water water based on its many features water's status in order for and qualities in the chemical and from rivers that are combined machine learning models to physical compositions of nature. with industrial waste and accurately anticipate whether certain other human-generated the water is excellent or contaminants. harmful. Basic knowledge of water characteristics and web usage for the easy way to solution. 3.TRIGGERS **10.YOUR SOLUTION 8.CHANNELS OF BEHAVIOUR** General information about the Simply entering the current ONLINE water data to the web app water by using sensors and give which gives the analysis of those values to the application Customer can use the web app water prediction. will give all the details of water by simply entering the current quality. URL of the website. Using past historical data of water to predict and analyse **4.EMOTIONS:BEFORE/AFTER** the water in current scenarios. Without prior knowledge of water quality and drinking it leads to be causing various

diseases and loss of life.