Project Design Phase-I
Proposed Solution

Date	15 October 2022
Team ID	PNT2022TMID29641
Project Name	EFFICIENT WATER QUALITY ANALYSIS AND PREDICTION USING MACHINE LEARNING
Maximum Marks	2 Marks

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Water is polluted by several ways. Due to rapidly growing urbanization, the pure and safe drinking water supply is a big challenge in urban areas. In India still most of the people use simple water purifier or filter, that is may not be purified. Contaminants in water can cause a health issues for human.
2.	Idea / Solution description	It is difficult to check the quality of water practically at every time. To make it easy, we can use automatic real time monitoring system to analyse and monitor the quality of water. By using Water Quality Index (WQI), we can analyse and predict the water is safe to drink or not. We can measure the water quality parameters such as pH, turbidity, etc.
3.	Novelty / Uniqueness	The uniqueness of this method, when the water is unsafe to drink, it alerts or send messages to the user or customer.

4.	Social Impact / Customer Satisfaction	In this method, Customer can immediately identify abrupt changes in the monitored water quality parameters, and there is a possible to minimize the eradicate risks and dangers.
5.	Business Model (Revenue Model)	This method is a cost efficient approach for fast and accurate measurement of water quality. To analyse the water quality time consuming is less.
6.	Scalability of the Solution	In this method, monitoring process is easy. Customer or user can easily check the quality of water.