Project Design Phase-I
Proposed Solution

Date	24 September 2022
Team ID	PNT2022TMID10152
Project Name	Efficient of water quality analysis and prediction using machine learning.
Maximum Marks	2 Marks

Proposed Solution :

S. No	Parameter	Description
1.	Problem Statement (Problem to be solved)	Water is considered as a vital resource that affects various aspects of human health and lives. The quality of water is a major concern for people living in urban areas and the water is also most likely to become contaminated due to various factors including human, industrial and commercial activities as well as natural processes. In addition to that, poor sanitation infrastructure and lack of awareness also contributes immensely to drinking water contamination.
2.	Idea / Solution description	It is not possible to check the quality of water manually every time. So an automatic real-time monitoring system is implemented based on machine learning technique to forecast the quality of water and to predict the health of water according to its quality parameter level.
3.	Novelty / Uniqueness	• User Friendly • Determining the reuse and recycle of water • Detecting Quality parametric values.
4.	Social Impact / Customer Satisfaction	Customer satisfaction is an important factor to consider in total quality management. In order to achieve this goal, it is important that this project is

		used by all groups of people in both rural and urban areas.
5.	Business Model (Revenue Model)	First the application is processed with real time data. Later it comes into the picture where everyone can see the networking, conducting various activity and testing to them.
6.	Scalability of the Solution	Helps in getting all required aspects regarding quality of water.