Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID15632
Project Name	Efficient Water Quality Analysis and Prediction using Machine Learning project
Maximum Marks	2 Marks

Proposed Solution Template:

The project team shall fill in the following information in the proposed solution template.

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. The quality of water serves as a powerful environmental determinant and a foundation for the prevention and control of waterborne diseases. However, predicting the urban water quality is a challenging task since the water quality varies in urban spaces non-linearly and depends on multiple factors, such as meteorology, water usage patterns, and land uses, so this project aims at building a Machine Learning (ML) model to Predict Water Quality by considering all water quality standard indicators.
2.	Idea / Solution description	The solution is derived from the data sets by comparing the accuracy rate with the previous data set and the current data set.
3.	Novelty / Uniqueness	This can be used to determine whether the water is used for Drinking or Not and used to find the quality of water.
4.	Social Impact / Customer Satisfaction	Analysing the quality of water helps people to be in good health and healthy water is provided.
5.	Business Model (Revenue Model)	First, the application is tested by a few people. Later on, it comes into the picture that everyone can see by networking. By conducting various activities regarding the importance of quality of water
6.	Scalability of the Solution	Helps in getting all required aspects of water.