Project Design Phase-I
Proposed Solution Template

Date	24 September 2022
Team ID	PNT2022TMID15657 Efficient Water Quality Analysis and Prediction using Machine Learning
Project Name	Efficient Water Quality Analysis and Prediction using Machine Learning
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in 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 previous data set and the current data set.
3.	Novelty / Uniqueness	➢ Can be determined whether the water can be recycled or reused. ➢ User Friendly
4.	Social Impact / Customer Satisfaction	➢ Beneficial for people health. ➢ By analysing the quality of water, good and healthy water is provided.
5.	Business Model (Revenue Model)	➢ First the application is tested with few people. ➢ Later on it comes into the picture where 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.