Project Design Phase-1

Proposed Solution Template

Date	24 September 2022
Team ID	PNT2022TMID49672
Project Name	EFFICIENT WATER QUALITY ANALYSIS AND PREDICTION USING MACHINE LEARNING.
Maximum Marks	2 Marks

Proposed Solution Template:

S.NO	PARAMETER	DESCRIPTION
1.	Problem Statement	➢ Safe and readily available water is important for public health, whether it is used for drinking, domestic use, food production or recreational purposes. Better water supplies and sanitation, as well as better management of water resources, can contribute greatly to poverty reduction and economic growth. It is known that contaminated water and inadequate sanitation facilitate the transmission of diseases such as cholera, diarrhoea, dysentery, hepatitis A, typhoid, and polio. Those without access to clean water and sanitation face preventable health risks.
2.	Idea	➢ Conserving and Recovering Energy. ➢ Conserving and Recovering Nutrients ➢ Improving and Greening of the Water Infrastructure. ➢ Conserving and Eventually Reusing Water. ➢ Reducing Water Impacts from Energy Production. ➢ Improving Performance of Small Systems. ➢ Improving Access to Safe Drinking Water and Sanitation. ➢ Improving Water Quality of our Oceans,Estuaries,and Watersheds. ➢ Improving Resiliency of Water Infrastructure to the Impacts of Climate Change. ➢ Reducing Costs and Improving Techniques for Water Monitoring.

3.	Novelty	➢ The paper focuses on water distribution using water flow sensor and water control value will help in even distribution of water and provide adequate amount of water.
4.	Customer Satisfaction	➢ Accessibility. ➢ Empathy. ➢ Language. ➢ Response Time. ➢ Convenience. ➢ Choices. ➢ Simplicity. ➢ Quality.
5.	Business Model	➢ Monitoring and Control system.
6.	Scalability of Solution	➢ Monitoring process in easy