**Project Design Phase-I Proposed Solution**

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| Date | 04 October 2022 |
| Team ID | PNT2022TMID50914 |
| Project Name | Efficient Water Quality Analysis and Prediction Using Machine Learning |
| Maximum Marks | 2 Marks |

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| 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.  People need to analyse the quality of water before using it for various purpose. |
| 2. | Idea / Solution description | This project aims at building a machine learning model to predict a water quality by considering all water quality standard indicators. |
| 3. | Novelty / Uniqueness | The proposed system is intended to determine portability. It is of two phases namely training and testing. Working on past historical data. |
| 4. | Social Impact / Customer Satisfaction | The quality of water services as a powerful environmental determinant and a foundation for the prevention and control of water borne diseases. |
| 5. | Business Model (Revenue Model) | This model should be licensed by the machine learning as well as data analytics and make more impression among the people. |
| 6. | Scalability of the Solution | A system that scales well will be able to maintain or increase its level of performance even as it is tested by larger than its operational demands. |