**Project Design Phase-I**

**Proposed Solution Template**

|  |  |
| --- | --- |
| Date | 06 May 2023 |
| Team ID | PBL-NT-GP--7639-1681100587 |
| Project Name | Project – Smart Water Billing System |
| Maximum Marks | 2 Marks |

**Proposed Solution Template:**

Project team shall fill the following information in proposed solution template.

|  |  |  |
| --- | --- | --- |
| **S.No.** | **Parameter** | **Description** |
|  | Problem Statement (Problem to be solved) | To provide a smart and easy to access water billing system and meet the user’s water requirements accordingly. |
|  | Idea / Solution description | To enable RFID based smart cards, which allows tankers to be filled easily and a water usage tracking and payment application for the users which allows trouble-free billing system. |
|  | Novelty / Uniqueness | The proposed system has a RFID based billing system which makes use of IOT and an analytics system which provides historical usage data to provide customized recommendations to users on how they can save water and reduce their bill. |
|  | Social Impact / Customer Satisfaction | A transparent system with timely notifications, accurate billing and an easy-to-use interface would satisfy the customer and all their needs. |
|  | Business Model (Revenue Model) | The primary revenue stream for the smart water billing system would come from charging users for their water usage. The system could also generate revenue by offering value-added services, such as personalized water-saving recommendations, for an additional fee. |
|  | Scalability of the Solution | The infrastructure such as the RFID scanners and cloud databases and computing algorithms are highly scalable. The customer base can be expanded depending on the number of filling stations and tankers. |