**Project Design Phase-I**

**Proposed Solution Template**

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| Date | 29 September 2022 |
| Team ID | PNT2022TMID16911 |
| Project Name | **Industry-Specific Intelligent Fire Management** |
| Maximum Marks | 2 Marks |

**Proposed Solution Template:**

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

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| **S.No.** | **Parameter** | **Description** |
| 1. | Problem Statement (Problem to be solved) | Most victims of fire succumb to the smoke and toxic gases and not to burns. Fire produces poisonous gases that can spread rapidly and far from the fire itself to claim victims who are asleep and not even aware of the fire. Even if residents awaken, the effects of exposure to these gases can cloud their thinking and slow their reactions so that they cannot make their escape. This is why it is so crucial for you and your family to have sufficient warning so that you can all escape before your ability to think and move is impaired. In addition, more than half of fatal fires in homes occur when people are asleep |
| 2. | Idea / Solution description | The primary purpose of fire alarm system is to provide an early warning of fire so that people can be evacuated & immediate action can be taken to stop or eliminate of the fire effect as soon as possible. Alarm can be triggered by using detectors or by manual call point (Remotely). To alert/evacuate the occupants siren are used. With the Intelligent Building of the rapid development of technology applications, commercial fire alarm market demand growth, the key is to use the bus system intelligent distributed computer system fire alarm system, although installation in the system much easier than in the past , but still cannot meet the modern needs, the installation costs of equipment costs about 33% ~ 70. The suggested technique in Fire alarm system used the addressable detectors units besides using the wireless connection between the detector in zones as a slave units and the main control unit as the master unit. The system shall include a control panel, alarm initiating devices, notification appliances, and the accessory equipment necessary for a complete functioning fire alarm system. In the wireless fire alarm, individual units are powered by primary & secondary batteries for the communication |
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| 3. | Novelty / Uniqueness | The novelty of the work is that **system is increased reliability and the ability to place alarms and bells exactly where needed. However, the reason most people have them is that they wanted a burglar alarm system and the cost of adding fire alarm features to a residential burglary system is relatively small.** |
| 4. | Social Impact / Customer Satisfaction | With this motivation, an industry-specific intelligent fire management reduces time, costs and the complications involved using different companies for various systems & applications and ensures that when required individual systems integrate seamlessly with each other. |
| 5. | Business Model (Revenue Model) | He advancements of IoT make it possible to be used in organizations for automating and monitoring business processes |
| 6. | Scalability of the Solution | Also, the advent of smart cities will soon make. Wi-Fi stations ubiquitous and publicly available, further. |