

Project Design Phase-I Proposed Solution Template

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| Date | 17 October 2022 |
| Team ID | PNT2022TMID38202 |
| Project Name | Gas Leakage Monitoring and Alerting System |
| Maximum Marks | 2 Marks |

Proposed Solution:

| S. No. | Parameter | Description |
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| 1. | Problem Statement (Problem to be solved) | Gas leakage prompts different mishaps coming about into both monetary misfortune as well as human wounds. In human's everyday existence, the environment gives the main effect on their medical problems. The risk of firing, explosion, suffocation all depend on their actual properties such combustibility, harmfulness and so on. The number of deaths because of the blast of gas cylinders has been expanding as of late. The justification behind such explosions is because sub-standard cylinders, old valves, worn out regulators and absence of mindfulness utilizing gas cylinders add to the dangers. |
| 2. | Idea / Solution description | Workers who are engaged with a busy industry work with gas either harmful or harmless needs a way to monitor their gas pipelines continuously and detect early if there is any leakage of gas in their surroundings so that they can work efficiently on major crises rather than worrying about monitoring or leakage of gas, this will indeed reduce the manpower of that industry and create a peaceful environment. |
| 3. | Novelty / Uniqueness | Even though there are many existing solutions for this problem they failed to satisfy the needs of customer. Some of the solutions are only detecting some gases where some others failed to alert the main department and other solutions are with some delays. |

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| 4. | Social Impact / Customer Satisfaction | Our solution will be very helpful for the workers and the society which is associated or located nearby the industries. Our solution will prevent great disasters like Bhopal Gas Tragedy so that so many lives can be saved. Through this project the workers mental pressure will be reduced so that they can concentrate on other works or by relaxing them. It is cost efficient and easy for installation. |
| 5. | Business Model (Revenue Model) | The main target of our solution is Industries so we have planned to visit industries and explain them about the benefits of our products. So that they can aware of the importance of this solution and use it properly for their safest organization. |
| 6. | Scalability of the Solution | Our solution can be integrated for further future use because the solution we have provided will be lay on the basic or initial stage of any upgraded version. It will give the accurate values. |