

Project Design Phase-I
Proposed Solution Template

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| Date | 09 NOVEMBER 2022 |
| Team ID | PNT2022TMID52392 |
| Project Name | Gas Leakage Monitoring and Alerting System For Industries Using iot |
| Maximum Marks | 2 Marks |

Proposed Solution Template:

| S.No. | Parameter | Description |
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| 1. | Problem Statement (Problem to be solved) | Gas leakage leads to various accidents resulting into both financial loss as well as human injuries. In human's daily life, environment gives the most significant impact to their health issues. |
| 2. | Idea / Solution description | <ol style="list-style-type: none"> 1.safely detecting any malfunction of a pressurized gas system in order to prevent accumulation of combustible gases so that damage or explosion due to such an accumulation of gases is prevented. 2.gas detection and monitoring system which is economical to manufacture and which may be readily installed in conventional trailers ,boats or the like which are normally dependent upon a stored supply of pressurized gas . |
| 3. | Novelty / Uniqueness | <ol style="list-style-type: none"> 1. It is fully automatic. 2. Compact and faster. 3.Hardware specifically build for that application 4.Three-level program memory lock. |
| 4. | Social Impact / Customer Satisfaction | <ol style="list-style-type: none"> 1. Long run maintenance cost is less. 2. Sensor has excellent sensitivity combined with a quick fast response time 3. It is possible to get instantaneous results. |
| 5. | Business Model (Revenue Model) | <ol style="list-style-type: none"> 1.High quality instruments that can locate those costly leaks by simply aiming it at them. 2.Included tubular extension and parabola make it possible to probe these difficult locations from a distance to locate the leak. |
| 6. | Scalability of the Solution | <ol style="list-style-type: none"> 1.The consumers have to upgrade their safety standards, act in accordance with statutory requirements Necessity for detection. 2.The consumers have to upgrade their safety standards, act in accordance with statutory requirements on Environmental commitments and most importantly the Basic function being prevented by accidents and protect life and property from disasters. |