**Project Design Phase-I**

**Proposed Solution**

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| Date | 20 October 2022 |
| Team ID | PNT2022TMID43363 |
| Project Name | Hazardous Area Monitoring for Industrial Plant Powered by IoT |
| Maximum Marks | 2 Marks |

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| **S.No.** | **Parameter** | **Description** |
|  | Problem Statement (Problem to be solved) | * Hazardous Area Monitoring for Industrial Plant Powered by IoT |
|  | Idea / Solution description | * Using sensors to read the required parameters such as temperature, humidity that can be monitored * If the sensor readings exceed safety threshold, alert message is sent to users SMS using services. * These sensor values are stored in cloud and can be viewed from the mobile device. |
|  | Novelty / Uniqueness | * If a parameter is violated, the system sends an immediate notification to a set of preset list of users on their smartphones, and continues logging and monitoring data for further analysis to suggest improvements in the safety regulations of the industry. * The sensors used in this model can be modified with industry requirements whenever the need arises. |
|  | Social Impact / Customer Satisfaction | * The system requires just minimum components to run and runs with minimal space and resource requirements. * It is configured in a such a way that it recovers and reconnects itself after a crash and can resume working immediately * Notification parameters and user access control can be adjusted to suit your requirements. * Cost effective model |
|  | Business Model (Revenue Model) | * Device has the day-to-day applications where it is used in domestic to industrial and this yields more attraction among the industry people. * Device can be obtained by paying for the IBM clou/Watson subscription. * It can be yearly or monthly. |
|  | Scalability of the Solution | * The project scope can be expanded such that emissions, radiations and weather condition can also be monitored. |