Project Design Phase-I
Proposed Solution

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

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	➢ Hazardous Area Monitoring for Industrial Plant Powered by IoT
2.	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.
3.	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.
4.	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
5.	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.
6.	Scalability of the Solution	➢ The project scope can be expanded such that emissions, radiations and weather condition can also be monitored.