Project Design Phase-I
Proposed Solution Template

Date	10 October 2022
Team ID	PNT2022TMID18102
Project Name	Hazardous Area Monitoring for Industrial Plant Powered by IOT
Maximum Marks	2 Marks

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement	In industries, majorly present dangerous factors are temperature and harmful gases. Sometimes those factors may create huge explosions and cause much health hazards to the workers those who worked in the industries. Thus, the workers must be evacuated from the place immediately.
2.	Idea / Solution description	In hazardous parts of the industries, we continuously monitor the temperature and gases through the sensors and the collected data are sent to the cloud. If the collected temperature value is greater than the fixed threshold level it will send the alert message to the user.
3.	Novelty / Uniqueness	Harmful gases are monitored and in case a worker gets caught in a room/place, decision and alert messages are sent to the admin and necessary actions be taken.
4.	Social Impact / Customer Satisfaction	Due to high temperature in industries It may create heat stroke, Organ damage and loss of consciousness. Some time high temperature may create explosion in the factories. Monitoring temperature reduces those problems and avoids the explosions.
5.	Business Model (Revenue Model)	It can be used by any industries for monitoring hazardous areas because it is affordable and makes accurate decision.
6.	Scalability of the Solution	This model is suitable for large industries in which there may be many hazardous areas. It is used for many users and in this model we can add and reduce the user count as needed. The alert message is sent to both user and admin.