

Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID01159
Project Name	Hazardous area monitoring for industrial plant powered by IOT
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Hazardous Area Monitoring for Industrial Plant powered by IoT
2.	Idea / Solution description	<ul style="list-style-type: none">✓ By combining intrinsically safe hardware and customized software solutions, maintenance operations can be initiated before installations are completely damaged, costs are saved, and security is greatly improved.✓ Augmented reality is entering the industry: It enables all existing data of a plant or machine to be displayed on the mobile device in real time.✓ Data capturing used for automatic identification and tracking of items.✓ It's all about eliminating and avoiding risks! Ensuring Mobile Worker's safety must always remain the highest priority. At all places where flammable substances are produced, processed, transported or stored, safety is mandatory - especially in all sectors with hazardous areas: chemical industry, petrochemical industry, oil and natural gas and mining.✓ Organizations can benefit from an increase in efficiency as well as in productivity, by using asset management software solutions, automated tracking methods, and asset tags.
3.	Novelty / Uniqueness	In hazardous area, it is mandatory to have prior notification. Hence we implement the prewarning system and integrate various technologies such as multi sensor data fusion,

		communication science, safety managementscience.
4.	Social Impact / Customer Satisfaction	Dangerous toxic and flammable gases suchas Hydrogen Sulfide gas, Carbon Monoxide gas, Ammonia gas, Methane gas causes great impact to human lives and properties. Customer satisfaction is the measurement that determines how well a company's products meet customer expectations.so itsimportant for the industry and development of organization.
5.	Business Model (Revenue Model)	It is plan for generating revenue. In industry , manufacturing and monitoring gives conceptual structure and supporting viability of the business.
6.	Scalability of the Solution	It measures the risk faced by the industry and the employees. It increase and decrease the system's performance and processing demands.