Project Design Phase-I

Proposed Solution Template

Date:	19 September 2022
Team ID	PNT2022TMID52758
Project Name	Project – Industry Specific Intelligent Fire Management Studies
Maximum Marks	2 Marks

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Suggest an innovative approach for effective fire management in industries to prevent fire accidents and take appropriate measures to avoid any catastrophe.
2.	Idea / Solution description	To employ gas, flame and temperature sensors and detect any changes in the environment. Based on the readings from sensors appropriate actions are taken according to prevailing scenario.
3.	Novelty / Uniqueness	and if any gases are present the exhaust fans are powered ON. If any flame is detected the sprinklers will be switched on automatically. Emergency alerts are notified to the authorities and Fire station via FAST2SMS
4.	Social Impact / Customer Satisfaction	Reduces fire accidents and ensures occupational safety of factory workers and prevents environmental degradation.
5.	Business Model (Revenue Model)	The proposed model is designed for thermal industries and industries associated with flammable substances. It can also be used in small scale industries as the project is cost effective.
6.	Scalability of the Solution	The model is scalable with respect to its potential of incorporating modification in its design.