

Project Design Phase-I
Proposed Solution Template

Date	30 September 2022
Team ID	PNT2022TMID11019
Project Name	Project - Industry Specific Intelligent Fire Management System
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)	To enhance the industry's safety management system. enhancing the safety management system to prevent industrial fire occurrences.
2.	Idea / Solution description	Combining an Arduino Uno board with a fire detection and fire extinguisher system, to establish IOT-based fire safety management in the industrial sector. Additionally, a GPS tracking system is used with some sensors (such as a humidity, flame, and smoke sensor).
3.	Novelty / Uniqueness	An integrated system that monitors temperature, gas levels, and fires and autonomously deploys fire extinguishers with accurate position data and call and SMS notifications for responses.
4.	Social Impact / Customer Satisfaction	Early prevention reduces the cost of industrial fire accidents. Locations close by for greater accuracy and dependability. Integration design for compatibility
5.	Business Model (Revenue Model)	Many sectors can use this product. Given the numerous sectors that are currently involved in saving people and machinery from fire accidents, this might be seen as a useful and productive item.
6.	Scalability of the Solution	It is attempting to implement this method because we need to provide an Arduino-modified device that receives signals from sensors. Simple to maintain and operate. Low maintenance time was necessary. Cost represents a fair value.