

Project Design Phase-I Proposed Solution Template

Date	17 October 2022
Team ID	PNT2022TMID12350
Project Name	Industry Specific Intelligent Fire Management System
Maximum Marks	2 Marks

Proposed Solution:

S. No	Parameter	Description
1.	Problem Statement (Problem to be solved)	To enhance the industry's safety management system. Improving the safety management system to prevent industrial fire accidents.
2.	Idea / Solution description	Implementing IOT-based fire safety management in industry with an Arduino Uno board equipped with a fire detection and fire extinguisher system. To track the spread of the fire, sensors like flame/temperature sensors will be integrated in a number of places. Additionally incorporating a GPS tracking system with some sensors to track the exact location of fire.
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	<ul style="list-style-type: none">• Compatibility design integrated system.• High fire detection security and low human danger
5.	Business Model (Revenue Model)	Many sectors can use this product. As a considerable deal of modern industry activity involves saving people and machinery from fire accidents, this can be seen as a useful and productive item.
6.	Scalability of the Solution	<ul style="list-style-type: none">• With the right information, this project can be used more effectively.• Simple operation and upkeep.• Minimal time needed for maintenance• Cost represents a fair value.