

**Project Design Phase-I**  
**Proposed Solution Template**

Date	16 October 2022
Team ID	PNT2022TMID14349
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 improve the safety of the industries by using fire management and alarming system to reduce the loss of lives and properties .
2	Idea / Solution description	To implement the fire safety management in industry based on IOT using Arduino uno board as microcontroller with fire detection and alarming system. Here we are also using some sensors, such as Flame sensor, smoke sensor, gas sensor with GSM for notification system. And also Water sprinkler system used to shut down the fire immediately.
3	Novelty / Uniqueness	An integrated system of temperature monitoring, gas monitoring, alarming system, fire detection with automatic water sprinkler to shut down the fire and also GSM for sending message or notify the authority about the cause.
4	Social Impact / Customer Satisfaction	This system prevents the accident priorly before getting worse. Reduces the risk of lives and properties.
5	Business Model (Revenue Model)	This system can be implemented in any environment for the detection of fire and alerting people and reduce the loss. The most accurate predictions are made by using this system in safety management system.
6	Scalability of the Solution	This system is compact in size. It is easy to maintain as it requires very less time for maintenance. Cost of the system is reasonable.