

Project Design Phase-I
Proposed Solution Template

Date	4 OCTOBER 2022
Team ID	PNT2022TMID22485
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)	Utilizing a gas, flame, and temperature sensor, the smart fire management system assists in detecting environmental changes and manages the aftermath of any workspace breakdown.
2.	Idea / Solution description	1) The exhaust fans are activated if the temperature readings exceed the threshold. 2) Sprinklers will be activated in the event of a flame detection. 3) An alarm will be activated to notify employees. 4) In the event that the flame cannot be contained, a message will be sent to the fire station along with the location.
3.	Novelty / Uniqueness	Application of liquid nitrogen. Instantaneous vaporization of liquid nitrogen results in a cooling effect and oxygen deprivation at the site -.After applying liquid nitrogen, water sprinklers can effectively extinguish even the most intense fire.
4.	Social Impact / Customer Satisfaction	1) Harmful gases can be purified and released into the atmosphere 2) The impact's cause can be determined by analyzing sensor data to prevent future accidents
5.	Business Model (Revenue Model)	1) This is used to figure out how likely it is for a fire to start and spread across a landscape. 2) With this result, we can learn more about how changes in one aspect of management can affect other aspects.

6.	Scalability of the Solution	1) This can be used in any kind of industry. 2) Restaurants that use a lot of gas and fire can implement this design.
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