

Project Design Phase-I Proposed Solution Template

Date	01 October 2022
Team ID	PNT2022TMID10968
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)	The Primary purpose of fire alarm system is to provide an early warning of fire so that people can be notified and take immediate action to avoid the effects of fire.
2.	Idea / Solution description	<ul style="list-style-type: none"> The smart fire management system includes a Gas sensor, Flame sensor and temperature sensors to detect any changes in the environment. Based on the temperature readings 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.
3.	Novelty / Uniqueness	<ul style="list-style-type: none"> Iot based Sprinkler On Iot based Notifications Iot based Exhaust Fan On Temperature Sensor Flame sensor RFID tags Gas Sensor Surveillance Camera Buzzer for Alarm Cloud DB to store Data <p>By using these things we can prevent the employees from fire accidents and also we can avoid machinery damages.</p>
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"> Danger to machine and human can be saved. Life of employees can be prevented

		<p>from accidents.</p> <ul style="list-style-type: none"> • In large Scale Industries, it is very efficient. • To avoid the fire accidents that happen in the industries. • Protection of Employees and Machineries from fire accidents.
5.	Business Model (Revenue Model)	The financial benefit by using this model we can achieve in short span of time.
6.	Scalability of the Solution	The solution is scalable and it will provide by using various sensors like Temperature, Gas and Flame Sensor and also by using Python Program, Buzzer and Sprinkler.