PROJECT DESIGN PHASE-I PROPOSED

SOLUTION TEMPLATE

Date	8 th Oct 2022		
Team ID	PNT2022TMID04047		
Project Name	Gas Leakage Monitoring and Alerting System		
Maximum Mark	2 marks		

Proposed Solution Template:-

S.NO	PARAMETER	DESCRIPTION
1.	Problem Statement	The leakage of gases only can
	(Problem to be solved)	be detected by human nearby
		and if there are no human
		nearby, it cannot be detected.
		But sometimes it cannot be
		detected by human that has a
		low sense of smell. Thus, this
		system will help to detect the
		presence of gas leakage.
2.	Idea/Solution Description	IOT and Arduino based
		leakage detection system
		senses the gas with the help
		of an gas sensor. Data sensed
		by these sensors is sent to
		the IOT. The IOT module
		then sends the data over to a
		website. The buzzer is turned
		ON once the gas leakage is
		detected. At this time, LCD
		Display shows a message as
		"Leakage detected".

3.	Novelty of the project	Although, there are many solutions for this problem but they have some disadvantages. Some of the solutions only detects some particular gases and some others only detect those gases and alert small distance only. This can be rectified by alerting large area and detect more gases. The fire and
		rescue services department can be notified by sending the alert message to them.
4.	Social Impact	The system provides constant monitoring and detection of gas leakage along with storage of data in database for predictions and analysis. The IOT components used helps in making the system much more cost effective. Our solution will prevent great losses like Bhopal Gas Tragedy.
5.	BusinessModel(Revenue Model)	The main objective of our project is to save lives. So we can establish this project as a product and visit the industries and make them aware of this project.
6.	Scalability of the solution	We can use our project as a basic model and we can develop our project in a large scale and establish some new ideas in the future. We can upgrade our project with some more features in the future.