

Project Design Phase-I Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID27405
Project Name	Project - Gas Leakage Monitoring and Alerting System
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
•	Problem Statement (Problem to be solved)	Gas leakage can cause fire that will lead to serious injury or death and it also can destroy human properties. In order to minimize or eliminate the hazard of gas leakage there is a need for a system to detect and alert.
•	Idea / Solution description	This proposed system provides a way to detect leaks using a gas sensor MQ6 the detection system, Arduino, ESP8266 and alert system.
•	Novelty / Uniqueness	The algorithm of the sensor used to detect will be more efficient and methods to alert the owner if there is a gas leakage
•	Social Impact / Customer Satisfaction	The customer would be really satisfied with the performance of the detection by the system and the alert system used in the system
•	Business Model (Revenue Model)	Many industries and homes that are prone to gas leakage will definitely buy this system
•	Scalability of the Solution	The MQ-6 LPG sensor detects the concentration of gas in the range of 300 ppm to 1000 ppm is suitable for leak detection. The sensor can operate at temperatures from -10 to 50°C and consumes less than 150mA at 5V.