

Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID37136
Project Name	Project – Gas Leakage Monitoring And Alerting System
Maximum Marks	2 Marks

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	To alert on LPG leakage and preventing any unwanted incident ,LPG detector MQ6 is associated .the intensity of the LPG leakage is classed into 3 types LOW, MEDIUM,HIGH.
2.	Idea / Solution description	MQ6 gas sensor has observe the gas concentration in any place from 10000mmp.Interfacing with sensing element module is finished 4-pin board compatible slp header and needs one i/o pin from the host microcontroller.
3.	Novelty / Uniqueness	We have adapted new technology IOT (internet of things) to get notification of gas leakage. We shall use a stepper motor to OFF the knob of cylinder regulator to avoid accidental cases due to gas leakage.
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"> • Prevent fire hazards and explosions • Supervise gas concentration levels • Real-time updates about leakage • Get immediate gas leak alerts
5.	Business Model (Revenue Model)	Robots-based gas leakage detector GSM- based gas leakage detector IOT-based gas leakage detector
6.	Scalability of the Solution	The leakage detection system at a low concentration is described. the advantages of the simple gas leak detector is its simplicity and its ability to warn about the leakage of LPG gas.