

**Project Design Phase-I**  
**Proposed Solution**

Date	20 October 2022
Team ID	PNT2022TMID43184
Project Name	Gas Leakage Monitoring and Alerting System
Maximum Marks	2 Marks

**Proposed Solution :**

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Gas Leakage Monitoring and Alerting System for safety purpose. The Gas Leakage monitoring has a big role in industries and also at many factories where Gas manufacture is happening. This monitoring will help many Gas Leakage related accidents.
2.	Idea / Solution description	The idea is the Gas Leakage detection with a Wifi connected so that the alert system will be at a quicker way through IoT. The sensor also should be in the latest upgraded version of MQ 135 sensor .The sensor is designed in such a way that it can have a huge radius of detecting the gas leakage. The board Arduino or ESP866Mod which has an inbuild Wifi.so that the alert system works quick enough to alert the admin.
3.	Novelty / Uniqueness	The Uniqueness of this project is that it has a better accuracy than the previous version alerting systems which are available in the market. By using IoT the range of the alert system will be increased and also it is cost efficient if we built a main Hub for a large scale industries to monitoring.
4.	Social Impact / Customer Satisfaction	It will have a great impact in society because gas leakage may lead to many problems to the people and will be affected by many diseases and also costs lives.
5.	Business Model (Revenue Model)	The Targeted customers are Factory owners and also Gas related industries and factories.

6.	Scalability of the Solution	This is highly scalable since the number of accidents by Gas Leakage is reduced and also through IoT the monitoring also can be held.
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