

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

Date	06 May 2023
Team ID	NM2023TMID14262
Project Name	Gas Pipeline Monitoring System for Hospitals

**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)	It is essential to maintain proper levels of gas, as it is used in operating theatres in order to improve patient's condition. Oxygen is the most common and important gas that has to be checked at regular intervals for availability. Leakage of these gases can pose a severe threat to the safety of lives in hospitals. Through this smart system, staff will now be able to check the level of gas present for use and will be able to take safety measures when alerted during a gas leak. Sensors are used to record the levels of gases, which are stored in the cloud. These values can also be displayed on a mobile application for the users.
2.	Idea / Solution description	<ul style="list-style-type: none"><li>• When the gas leakage is detected it will alert the user</li><li>• It can send the notification to the user</li><li>• Detection of the gas leakage is important and halting leakage is important equally.</li></ul>
3.	Novelty / Uniqueness	<ul style="list-style-type: none"><li>• Instant detection of gas leakage</li><li>• Send notification to the concerned user</li><li>• Easy to access and operate</li></ul>
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"><li>• Cost efficient</li><li>• Easy to access and operate</li><li>• Easy installation and detect the gas leakage faster</li><li>• Prevent fires and explosions</li></ul>
5.	Business Model (Revenue Model)	<ul style="list-style-type: none"><li>• The product is advertised all over the platforms. Since it is economical, even helps small scale industries from disasters.</li><li>• As the product usage can be understood by everyone, it is easy for them to use it properly for their safest organization</li></ul>
6.	Scalability of the Solution	<ul style="list-style-type: none"><li>• Since the product is cost efficient, it can be placed in many places in the hospitals.</li><li>• Even when the gas leakage is more, the product sense the accurate values and alerts the workers effectively</li></ul>