

Project Design Phase-I

Proposed Solution

Date	16 September2022
Team ID	PNT2022TMID20972
Project Name	Gas Leakage Monitoring and Alerting System
Maximum Mark	2 marks

Proposed Solution:-

S No	Parameter	Description
1.	Problem Statement (Problem to be solved)	Workers who work in busy industries, compact with harmful or harmless gases, it is required to continuously check the pipelines and detect leakages if any. So that the workers focus on major problems rather than worrying about monitoring or leakage of gas, this will indeed reduce the manpower of that industry and creates efficient workspace.

2.	Idea / Solution description	Our solution notifies the workers and different service departments, based on the severity of the leakage of gases through emergency call directed by our app and alerts the people at work even if there is a small leakage.
3.	Novelty / Uniqueness	<p>The existing solutions addressing this problem, provides solutions but lacks in many aspects such as detecting only few gases, delayed response and alerts only the main departments.</p> <p>But in our project, when the leakage of gas is identified, through our app an automated emergency call is made to local service department to rectify the problem. On the other hand, if the leakage crosses the prescribed threshold value of the gases and if the stipulated time to resolve the problem is over, the call is directed to the fire service department.</p>
4.	Social Impact	Our proposed idea is of greater help for the industry, the workers and also for the people who reside nearby. It will save many people from dangerous situations and prevents accidents like Bhopal Gas Tragedy. This project also helps to reduce the worker's mental pressure and enabling them to concentrate on other works.
5.	Business Model (Revenue Model)	The main target of our project is Industries so we have planned to visit industries and explain them about the advantages of our project and create awareness on this problem and the importance of this solution.
6.	Scalability of the Solution	This solution can be integrated in near future for further use because it is the basic or initial stage of any upgraded version.