

Project Design Phase-I
Proposed Solution

Date	19 September 2022
Project Name	Project – Gas Leakage Monitoring and Alerting System
Maximum Marks	2 Marks

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	<ul style="list-style-type: none"> ➤ It helps for monitoring the emission of harmful gases. ➤ If in any area gas leakage is detected the admins will be notified along with the Location and sent alert message to all workers. ➤ Admins can view the sensor Parameters.
2.	Idea / Solution description	<ul style="list-style-type: none"> ➤ Smart bands are used to alert workers of gas leaks in factories. ➤ Gsm technique is used to send alert messages to the respective persons and workers , if there is no response it sends the message to fire department. ➤ Using offline messaging alert facility alerting people without internet in range of upto 100 meters.
3.	Novelty / Uniqueness	<ul style="list-style-type: none"> ➤ Visual and Audible alarms are triggered. ➤ It is power consumption and it is effective.
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"> ➤ Get real-time alerts about the gaseous presence in the atmosphere ➤ Prevent fire hazards and explosions ➤ Supervise gas concentration levels ➤ Ensure worker's health using alert fitband. ➤ Cost-effective

		➤ Get immediate gas leak alerts
5.	Business Model (Revenue Model)	➤ It is satisfy to the industries and the industries employees.
6.	Scalability of the Solution	➤ We can customize the particular usage of the system we developed. ➤ Not only triggering alarm it also can perform reactive operations like spreading a particular for making the leaked gas inactive.