

PNT2022TMID04007P**Project Design Phase-I****Proposed Solution**

Project ID	PNT2022TMID04007
Project Name	Project – Gas Leakage Monitoring and Alerting System for Industries
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 then mins 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 up to 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 fit band. ➤ Cost-effective
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		<ul style="list-style-type: none"> ➤ Get immediate gas leak alerts
5.	Business Model (Revenue Model)	<ul style="list-style-type: none"> ➤ We can introduce product-based approach to earn a good revenue. The greater number of features attract the end users to use our application.
6.	Scalability of the Solution	<ul style="list-style-type: none"> ➤ Our application can be used by the company which located in under the gas leakage area. We use IBM Watson cloud server to collect the live data the current data. we will ensure the safety of the workers. ➤ Not only triggering alarm it also can perform reactive operations like spreading a particular for making the leaked gas inactive.