Project Design Phase-I
Proposed Solution

Project ID	PNT2022TMID14913
Project Name	Project – Gas Leakage Monitoring and Alerting System for Industries
Maximum Marks	2 Marks

S.No.	Parameter	Description
1.	Problem Statement (Problem to besolved)	➢ It helps for monitoring the emission ofharmful gases. ➢ If in any area gas leakage is detected theadmins will be notified along with the Location and sent alert message to all workers. ➢ Admins can view the sensorParameters.
2.	Idea / Solution description	➢ Smart bands are used to alert workers ofgas leaks in factories. ➢ GSM technique is used to send alert messages to the respective persons and workers, if there is no response itsends the message to fire department. ➢ Using offline messaging alert facility alerting people without internet in rangeof upto 100 meters.
3.	Novelty / Uniqueness	➢ Visual and Audible alarms aretriggered. ➢ It is power consumption and it iseffective.
4.	Social Impact / Customer Satisfaction	➢ 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)	➢ 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	➢ 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.