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)	This project helps the industries in monitoring the emission of harmful gases.
		In several areas, the gas sensors will be integrated to Monitor the gas leakage.
		If in any area gas leakage is detected the admins will be notified along with the Location.
		In the web application, admins can view the sensor Parameters.
2. Idea / Solution description	Idea / Solution description	Using a moving insect robot to detect gas leaks in a pipeline joint.
		Using a FLIR Gas Detection Cameras to Visualize CO2 Gas.
		Calculate the amount of gas used.
		Smart bands are used to alert workers of gas leaks in factories.
		Using 360 degree rotating The Long Wave Gas Detection Thermal cameras detect gas leaks by visualizing them.
		Thermochromic inks or dyes can be used in industrial applications using tubes that change their colour with temperature changes.
		Using offline messaging alert facility alerting people without internet in range of upto 100 meters.
3.	Novelty / Uniqueness	Using a moving insect robot to detect gas leaks in a pipeline joint.
		Using 360 degree rotating The Long Wave Gas Detection Thermal cameras detect gas leaks by visualizing them.
4. Soci	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
		Real-time updates about leakages
		Cost-effective installation
		Data analytics for improved decisions

		Measure oxygen level accuracy
		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	It can automatically detect, alarm and control gas leakage using an exhaust fan to suck the gas away