PROJECT DESIGN PHASE-I - SOLUTION

Project Title: Gas Leakage monitoring & Alerting system for Industries

Team Members: VASUDEVAN K B, YOKESH KUMAR B, VAISHNAVI S, SUBHIKSHA S.

CC ΔS 1. CUSTOMER SEGMENT CS 3. AVAILABLE SOLUTIONS 2. CUSTOMER CONSTRAINTS PROS: Monitors the gas level in the The customers for our project is present atmosphere. Detect and ventilate the leaked gas. people Such industries include Turn off gas valve automatically. Alert us , when any gas leakage. agriculture, manufacturing, Low power consumption. construction, transportation, and communication, among others. **CONS:** The challenge of operating electrical equipment as exhaust fan. Needs an UPS for uninterrupted functioning J&P RC BE 5. PROBLEM ROOT CAUSE 6. BEHAVIOUR 4. JOBS-TO-BE-DONE / PROBLEMS The danger happens when gas Choosing the right sensor Detection of gas leak, leaks out. It is dangerous because Reliable components gas is flammable, which means that if Alert surrounding through ALARM, there's a flame or even a spark in the Calculating the usage area of a leak, it could cause a fire or Send SMS through GSM module. explosion. A gas leak can happen if a gas pipe is damaged or a fitting is loose. There is a possibility of avoiding such dangerous problems, by ventilating the leaked gas out of the area, and by alerting the people. Goal of our Project, "Provide the safe and best product using Internet of Things, to people which detects the gas leakage and alert them, and ensure their Safety".

7. EMOTIONS: BEFORE / AFTER	8. PROPOSED SOLUTION	
Prevents gas leakAvoid fire accidentsSafe environment	Gas detectionAlert alarmAlert sms	