Project Design Phase – I

Problem Solution Fit

Date	30 September 2022
Team ID	PNT2022TMID47989
Project Name	Gas leakage monitoring and alerting system.

1. CUSTOMER SEGMENT(S) 6. CUSTOMER LIMIATIONS This law, LD346, now requires "at least In the automotive industries like oil one approved fuel gas detector in every room and gas, hotels, and places where flammable containing an appliance fueled by propane, natural gases are used in abundance, a gas detection gas or any liquified petroleum gas" in commercial system is a basic requirement for safety. businesses, hotels, non-profit organizations, shelters, and rental properties 2. JOBS-TO-BE-DONE / PROBLEMS 9. PROBLEM ROOT CAUSE Most of GAS explosions are caused by undetected gas leakage in the pre-detection condition. So that, Gas Leakage Monitoring and Alerting detection system is needed. The purpose of this system is to detect gas leakage, neutralize it, and photovoltaic. prevent the explosion. TR 3. TRIGGERS TO ACT 10. YOUR SOLUTION Most of Gas explosions are caused by undetected gas leakage in the pre-detection condition. So that, Gas

leakage monitoring and alerting system is needed.

Before: The heavy losses due to the leakages made them

feel of guilt due to reduced reputation of their products. **After:** Increased the level of confidence and feel

4. EMOTIONS BEFORE/AFTER

7. BEHAVIOUR Gas detectors can be used to detect Using manpower as the source of combustible, flammable and toxic monitoring the leakage causes high hazards. If the gases, and oxygen depletion. This gas leaked is heavily toxic, there is a chance of causing hereditary health issues too. type of device is used widely in industry and can be found in locations, such as on oil rigs, to monitor manufacturing processes and emerging technologies such as $\overline{\mathbf{CH}}$ SL 7. CHANNELS of BEHAVIOUR In several areas, the gas sensors ONLINE will be integrated to monitor the gas leakage. Promoting through social media. With the If any area gas leakage is detected the admins help of social media entrepreneurs/influencer. will be notified along with the location. In the web application, admins can view the sensor parameters. OFFLINE Newspaper advertisements.

5. AVAILABLE SOLUTIONS

fire breakouts.

The sensor-enabled

prevent the high risk of gas explosions and

affecting any casualties within and outside the

premises. The gas sensors help detect the

concentration of the gases present in the

atmosphere to avoid hazardous consequences like

solution helps