Explore AS, differentia

Project Design Phase-I

Problem Solution fit

Date	05 NOVEMBER 2022
Team ID	PNT2022TMID54064
Project Name	Gas Leakage Monitoring and Alerting System

1. CUSTOMER SEGMENT(S)

CS

6. CUSTOMER CONSTRAINTS

CC

5. AVAILABLE SOLUTIONS

AS

The industries using harmful gases for the manufacturing products and Household, who uses gas for cooking.

Cost of installing the products make them to move far from recent technology, Ability to detect the wide range of gases, Network connectivity, Environment factors etc. The sensor should sense the leakage of gas and alert the concerned authorities about the leakage and useful in real time.

2. JOBS-TO-BE-DONE / PROBLEMS

J&F

- Gas leakage leads to huge loss.
- Alerting the customer with SMS, Alarm system.
- Maintenance or monitoring of the system.
- Detect the gas leakage and identifying leaked gas.

9. PROBLEM ROOT CAUSE

- Improperly installed tube fittings /poor tubing selection.
- Lack of awareness in handling.
- Improper use of gas furnace, stove, or appliance, including leaking due to gas lines being hooked upincorrectly.
- Use of defective equipment.

7. BEHAVIOUR

BE

- OI
- To create awareness among workers.
- Monitoring the system regularly.
- To determine the gas leakage area and alerts throughby warning message or alerting sound.
- Approach the people and create awareness by advertising the problems.

CS, fit into CC

3. TRIGGERS TO ACT

M

Identify strong TR &



Considering the safety measures for workers and future impacts of that work, smart technology.

4.EMOTIONS: BEFORE / AFTER



Before: The leakage of gases causes heavy losses and made them feel depressed & guilt and also lose the recognition of their products

After: Creating awareness and safety precautions to the workers to work without any fear.

10. YOUR SOLUTION

sendina SMS.

detecting system which can be easily accessed by

workers. If there is gas leak then it will alert the workers by



Develop a cost efficient IoT based gas leakage

Promoting through social media, With the help of social media influencer. Users can also easy to monitor the live the reports.

8. CHANNELS OF BEHAVIOUR

OFFLINE:

ONLINE:

Identifying the leakage area and take precautionary actions manually. It makes call to user. Frequently check theleakage of gas

СН