

## **1. Customer segments**

Industries are the end customers because the Gas Leakage monitoring and Alerting systems are used to detect the leakage of gas in industries and to prevent the industrial disaster.

## **2. Triggers**

The gas detector can send the message to the admin along with the location where the leak is occurring. This system is very important because it gives a chance to save lives and properties.

## **3. Emotions Before/After**

**Before:** When they face a problem, they feel insecure, Discomfort, confused and lose their confident. They don't know what to do next and how to overcome this problem.

**After:** Afterwards they address the problem to the government and get the product for their problem from the government. This end product will regain their confidence, gives comfort, happiness and feels gratitude towards it.

## **4. Available solutions**

The available solution for Gas Leakage Monitoring system is giving an alert with a buzzer and sensor to the surrounding about the gas leakage. Gas leakage occurs where there is a fault in the machinery, to avoid this before the process is carried out through the machines, a high pressure should be passed to the machines.

## **5. Customer**

In order to monitor and indicate the gas leakage to avoid the disaster like health issue for human beings by breathing toxic gas and also to avoid air pollution.

## **6. Problem root cause**

Gas leakage can cause accidents resulting in both human injuries and property loss. The Risk of explosion, firing, suffocation are based on their physical properties such toxicity, flammability. . The reason of such Explosion is due to substandard cylinders, old valves, worn out regulators and lack of awareness in handling.

## **7. Solution statement**

This system will be able to detect the gas leakage and the send the alert to the admin. Presence of gas leakage can be notified to the user.