Project Design Phase-I

Problem Solution Fit

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Team ID	PNT2022TMID05241
Project Name	Gas Leakage Monitoring and Alerting System for Industries

1. CUSTOMER SEGMENT(S) 6. CUSTOMER LIMITATIONS EG. BUDGET, DEVICES 5. AVAILABLE SOLUTIONS PLUSES & MINUSES Buzzer to indicate the leakage.GSM The industrialists who use gases for High budget in installing other products their manufacturing. The detection of module helps us to get notification when make them to move far from modern leakage prevents the loss of lives. there is a gas leakage. Usage of sensors technologies. to sense gas Leakage. 2. PROBLEMS / PAINS + ITS FREQUENCY 9. PROBLEM ROOT / CAUSE 7. BEHAVIOR + ITS INTENSITY Sometimes sensor doesn't work If the gas leaked is heavily toxic, Suffering from many losses due to there is a chance of causing properly which can cause the gas leakage. major problem. hereditary health issues too. Having no proper system for Man power could reduce determine the controlling or monitoring electricity cost and monitor characteristics and solve the issue, leakage. properly, it may cause high risk they will locate the leak and Facing heavy budget problems in for their life. There is also a cause identify the warning. buying and installing a system for of some errors due to monitoring and controlling. manpower. SL СН TR 3. TRIGGERS TO ACT 10. YOUR SOLUTION 8. CHANNELS of BEHAVIOR ONLINE

Develop an efficient system & an

can be easily accessed and fixed by

people. Network strength must be

on the environment.

boosted in the device. Device can be

application that can monitor and alert the

manufactured in multiple standards based

workers. Low cost IOT based device that

Extract online & offline CH of BE

Promoting through social media.. Monitor

advertisements and complaint letters.

of any gas leakage.

Prevent physical damage to

sensor. Through newspaper

the status of the sensors . Notification incase

The heavy damages or higher health issues

a solution as soon as they could possible.

Before: The heavy losses due to the leakages made

them feel of guilt due to reduced reputation of their

After: Increased the level of confidence and feel secured

4. EMOTIONS BEFORE / AFTER

products.

dentify strong TR & EM

due to the toxic gases urges them to find out

ЕМ