ProjectDesignPhase-I

ProblemSolutionFit

Date	15OCTOBER2022
TeamID	PNT2022TMID26613
ProjectName	GasLeakageMonitoringandAlertingSystemfor Industries

The industrialists who use gases fortheir manufacturing. The detection of leakage prevents the loss of lives.

- Suffering from many losses due togasleakage.
 - Havingnopropersystemforcontrollin gormonitoringtheleakage.
- Facingheavybudgetproblemsinbuyi ng and installing a system formonitoringandcontrolling.

The heavy damages or higher health issuesduetothetoxicgasesurgesthemtofindou tasolutionas soonastheycouldpossible.

Before: The heavy losses due to the leakages madethemfeelofguiltduetoreducedreputationofthei rproducts.

After:Increased the level of confidence and feel secured



High budget in installing other productsmake them to move far from moderntechnologies.

riskfortheirlife.Thereisalsoacaus e ofsomeerrorsduetomanpower.

- Sometimessensordoesn'tworkp roperly which can cause themajorproblem.
- Man power could reduceelectricity cost and monitorproperly, it may cause

Develop an efficient system & anapplication that can monitor and alert theworkers. Low cost IOT based device thatcan be easily accessed and fixed bypeople.Network strength must beboosted in the device. Device can bemanufacturedinmultiplestandardsbas

e dontheenvironment.

Buzzer to indicate the leakage.GSMmodulehelpsustogetnotifi c ationwhenthere isagasleakage.Usageofsensorstosenseg a sLeakage.

- Ifthegasleakedisheavilytoxic,therei sachanceofcausinghereditaryhealt hissuestoo.
- Todeterminethegascharacteristics and solve the issue,theywilllocatetheleakandiden tifythewarning.

Promoting through social media..Monitorthe status of the sensors .Notification incaseofanygasleakage.

Prevent physical damage tosensor. Through newspaperad vertisements and complaint letters.