**Priyadarshini College of Engineering,**

**Nagpur**

**Department of Computer Technology**

**Session 2019-20**

**Project Group**

**20**

**Number**

**Project Title**

**Sensing Harmful**

**Gases in**

**Industries**

**using IOT & WSN**

**Progress period**

**6 months**

**Report**

**15/**

**02/**

**Submission Date**

**20**

**Section 1:**

**Summary:**

• Industrial gases are emitted due to manufacturing of various items and materials that are used in a wide applications Industrial gases are very harmful and have severe impact on anyone or anything exposed to it.

• Significant improvements to safety, efficiency, and profitability etc had been marked for Industries that had IIoT implemented and it is expected that this trend will continue as IIoT technologies are more widely adopted.

**Section 2: Activities and progress:**

• We search some research papers from IEEE and from this we get an idea for sensing harmful gases in industries using IOT & WSN.

• We have installed the software microsoft visual studio and collected the hardware components **.**

• We have fixed the hardware components .

• We started making software for our project.

**Section 3: Outputs :**

• The software has been installed and we have tested more 2 of the gas sensors ie MQ3 & MQ6 and got its value.

• The software is running and giving the value of MQ135 and DHT sensors .

• In screen we can see the value of air quality , humidity and Temperature .

• In output screen we designed the format of value .

• There is a voice coming to tell the the value of our result.

**Section 4: Evaluation:**

• The existing gas sensor is capable of sensing the data the graphical representation and logging will be carried out simultaneously.

• On Output screen a highest value is pre-defined if the sensed data exceed this limit then manual buttons for ON/OFF is provided on screen .

**Section 5: Risks, Issues and challenges:**

• In this project we don’t have major challenges but some minor challenges like how many detectors we need and where we will place them & which sensor will be best for the project.

**Name of Members :**

**Signature of Expert and Guide Rishikesh Kumar Samiksha Yerpude**

**Mrs. Snehal** **Golait Mam - Dr. A V. Dehankar Mam -**

**Komal Pandey.**

**Mr. Pankaj Hatwar sir -**

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