PHASE -1 :

1.UNDERSTANDING OF PROBLEM STATEMENT:

To create a iot project which moniters the air quality problem or issue that needs to be addressed. This could include high levels of pollutants such as particulate matter (PM), nitrogen dioxide (NO2), sulfur dioxide (SO2), ozone (O3), and volatile organic compounds (VOCs), which can have detrimental effects on public health and the environment,these air pollutants can be monitered using a mobile app or website and shown to public for awareness.

2.SOLUTION FOR THE PROBLEM STATEMENT

1. **Enhanced Monitoring Network**:
2. **Data Analysis and Reporting**:
3. **Public Awareness and Education**:
4. **Regulatory Measures**:
5. **Green Transportation Initiatives**:

3.DESIGN THINKING

* The air pollutants like sulphur dioxide,carbon monoxide,nitrogen dioxide are found using sensors and the data is sent to the micro-controller
* The micro-controller analyse the data and sent it to the mobile app or website
* The air quality can be also displayed in using oled screens in traffic signals

Components required:

* MQ-135 SENSOR
* MQ-2 SENSOR
* MQ-5 SENSOR
* MICRO-CONTROLLER
* LCD DISPLAY
* ESP32 WIFI MODULE