NOISE POLLUTION MONITORING

DEFINITION:

- Noise or sound level monitoring or measurement is a process to measure the magnitude of Noise in industries and residential area. Data collected from Noise level monitoring & Testing helps us to understand trends and action can be taken to reduce noise pollution.

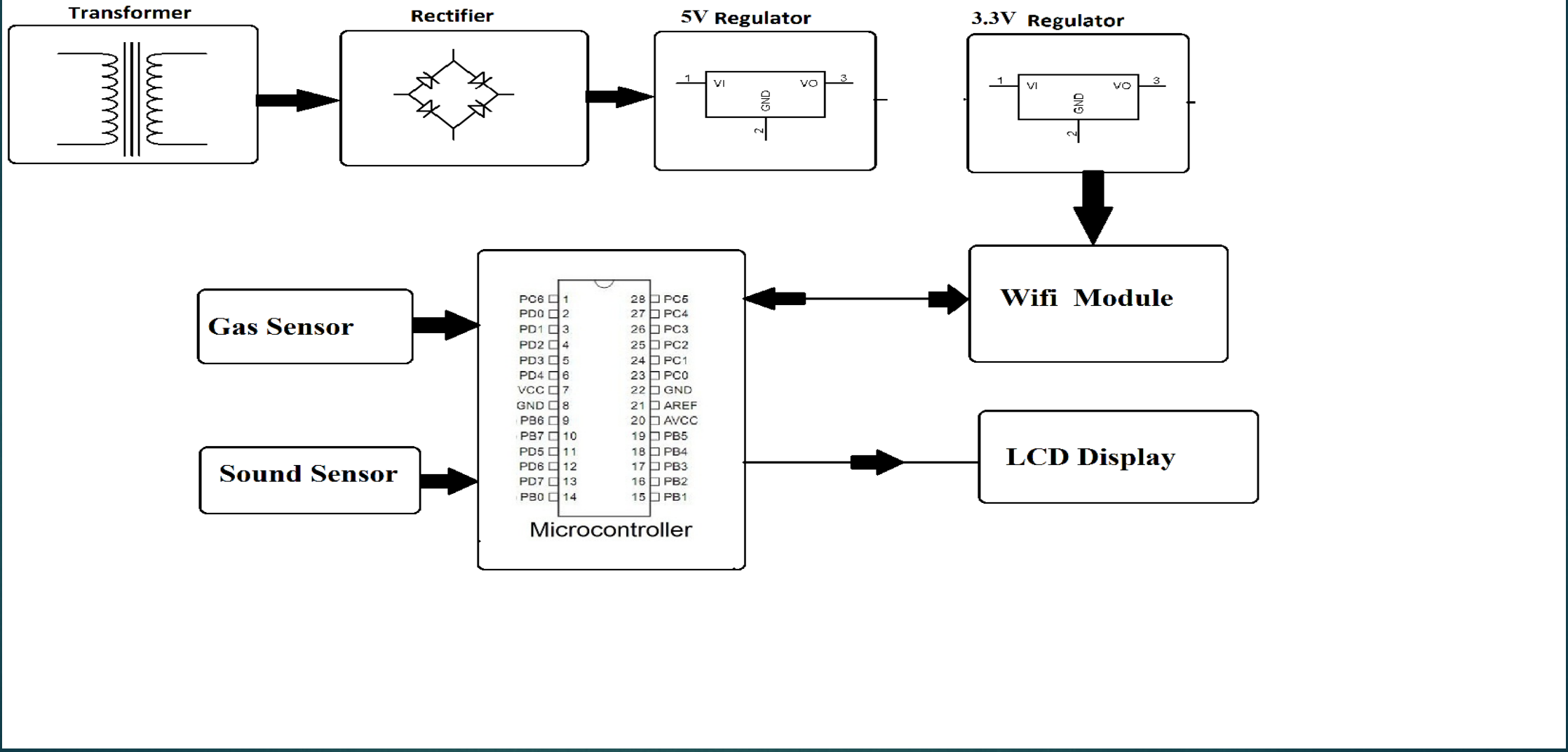
OBJECTIVES:

- To monitor and check the sound quality and keep it under control for a better future and healthy living for all.
- The System Proposed also monitors sound pollution in particular areas so that authorities can act against it.

COMPONENTS:

- Arduino UNO
- LM393 (Noisesensor)
- Wifi Module
- Transformer
- Rectifier
- 5V Regulator
- 3V Regulator
- LCD Display

DESIGN :


Transformer
Rectifier
5V Regulator
3.3V Regulator
VI
VO
GND
Gas Sensor
Sound Sensor
Wifi Module
LCD Display
Microcontroller
PC6 1
PD0 2
PD1 3
PD2 4
PD3 5
PD4 6
VCC 7
GND 8
PB6 9
PB7 10
PD5 11
PD6 12
PD7 13
PB0 14
28 PC5
27 PC4
26 PC3
25 PC2
24 PC1
23 PC0
22 GND
21 AREF
20 AVCC
19 PB5
18 PB4
17 PB3
16 PB2
15 PB1

OUTCOME:

- PUBLIC AWARENESS:

An effective natural observing framework is essential to screen and estimate the conditions in the event of surpassing endorsed level of parameter (for example, commotion, COand radiation levels). At the point whenthe items like condition furnished with sensor gadgets, smaller scale controller and different programming application turn into a self-securing and self-observing condition.

IMPROVED QUALITY OF LIFE:

- In future we modify the system to notify a user about the air quality and noise level it reaches beyond permissible level through sms or app.
- We can monitor air and sound pollution level at any place of the world.