

There was project contest hosted by L.J Group of Institution as *L.J Innovation Village 2020*. At their college campus in Ahmadabad, Gujarat. It was a two day event held on 07/02/2020 and 08/02/2020. As many as 250+ innovative project ideas were present across the 11 state. It was huge gathering many renowned personalities were present. The exhibition was inaugurated by the chairman of All India Council for Technical Education (AICTE), **Mr. ANIL SAHASRABUDHE**. New Delhi.



Our Project was based on Social Idea it was on the *Air Pollution Monitoring and Control*. It was presented by me **AFROZE KHAN** and my friend **MOHAMED FAHADUDDIN** under the guidance of **AEJAZ AHMED K.R** Asst professor, Dept. of EEE, *Ghousia College of Enigneering*, Ramanagara.



We presented our project keeping this Social cause which is at high risk level nowadays. As technology in improving number of factories has been increased by this the rate of pollution in the environment has also increased. So keeping this cause in front we have developed a model to monitor the air as well as a tower to reduced the pollutants in the air and to give out a purified air that is less harmful to human as well the nature.

Our project include two set of working one is air monitoring circuit and other one is Air pollution controlling tower.

Air monitoring circuits includes Servo motors, AIR GAS SENSORS (MQ-2 AND MQ-135) they are long range sensors used to sense the quality of air . Then it comes microcontroller part we have used here ARDUINO UNO BOARD for the data collection which is used o display the quality and quantity of the pollutants present in the air such as Smoke, Carbon monoxide, Methane etc,. Then we have used and IOT application module EPS001 which is Wi-Fi module which is used to save the collected data in cloud which helps us to operate easily at any given instant of time.

The second part of our project is controlling tower which is made-up of Aluminum steel. Height of about 10metres. In this the pollutant air has to go through many filtration processes. It works purely from solar energy no external power supply is needed to run this tower.

Many of the industrialist present at the event applause for our idea. They were satisfied with our project and stated that our project should be converted in the product as we know that we facing air pollution problem in several cities of our country. Even the students and other people who attended this exhibition were excited seeing our model and idea behind this project.

We were honored with the certificate for presenting this idea.