Effective Monitoring of Vehicular Pollution

Dr. Richa Mehrotra

Amity School of Applied Sciences, Amity University, Lucknow Campus.

Email: rmehrotra@lko.amity.edu

Abstract

Pollution is a continuously growing problem of today's world. The major contributor of air pollution is pollutants emitted from various vehicles. The rapidly growing number of vehicles is a matter of concern for developing countries as monitoring of pollution level emitted from these vehicles is a constant challenge. Developed countries have established various systems for monitoring and controlling of vehicular pollution but due to technological and economical differences of developed and developing countries, these projects cannot be implemented in developing countries. In India, it is mandatory to get pollution under control (PUC) certificate to run a vehicle on road but its constant monitoring is a challenge. This paper discusses the various pollutants emitted by these vehicles (using different fuels), and proposes an online system for monitoring the already existing PUC requisite for vehicles on road for a strong hold on controlling of vehicular pollution.

Keywords: Pollution, pollutants, monitoring system.

References

1. Vong C., (2014); Application of RFID Technology and the Maximum Spanning Tree Algorithm for Solving Vehicle Emissions in Cities on Internet of Things in IEEE World Forum on Internet of Things.

2. Kulkarni A. & Ravi Teja T., (2014); Automated system for Air pollution Detection and Control in Vehicles in IJAREEIE, vol. 3, pp. 12196-12200.

3. Rajalakshmi A., Karthick S. & Valarmathy S., (2015); Vehicular Pollution and Status Monitoring using RFID in IJARSET, vol. 2, pp. 580-586.

4. Mohite J.N., Barote S.S., (2015); Low Cost Vehicle Pollution Monitoring System in IJIRCCE, vol. 3, pp. 6521-6525.

5. Mohite J.N., Barote S.S., (2015); Vehicle Pollution Control And Traffic Management, vol. 4, pp. 588-592.

6. Kumar D.P., Vijay Lakshmi M., (2015); Solving Vehicle Emissions in Cities Based on RFID Technology and Internet of Things in International Journal of Research, vol. 5.