**A**

**PROJECT REPORT**

**ON**

**“IoT BASED VEHICLE EMISSION MONITORING SYSTEM”**

**SUBMITTED TO**

**SHIVAJIUNIVERSITY, KOLHAPUR**

**IN THE PARTIAL FULFILLMENT OF REQUIREMENT FOR THE AWARD OF DEGREE BACHELOR OF ENGINEERING IN COMPUTER SCIENCE AND ENGINEERING**

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**(AN AUTONOMOUS INSTITUTE)**

**(A+ Grade Accreditation by NAAC)**

**(ISO 9001:2015 CERTIFIED)**

**2018-2019**

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**CERTIFICATE**

**THIS IS TO CERTIFY THAT, PROJECT WORK ENTITLED**

**“IoT BASED VEHICLE EMISSION MONITORING SYSTEM”**

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**DECLARATION**

We hereby declare that, the project work report entitled “**IoT BASED VEHICLE EMISSION MONITORING SYSTEM**” which is being submitted to D.K.T.E. Society’s Textile and Engineering Institute, Ichalkaranji, affiliated to Shivaji University, Kolhapur is in partial fulfilment of degree B.E.(CSE). It is a bonafide report of the work carried out by us. The material contained in this report has not been submitted to any university or institution for the award of any degree. Further, we declare that we have not violated any of the provisions under Copyright and Piracy / Cyber / IPR Act amended from time to time.

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**ABSTRACT**

Now a days one of the greatest problems that the world is facing today is pollution. The main reason of pollution is the emission of vehicle and most of peoples has a private vehicle and these leads to increase the pollution in atmosphere, and this increasing every year and causing grave and also irreparable damage to the Earth. In order to minimize these issues it is highly required to develop an automated smart vehicle emission monitoring system that would help to detect and monitor the pollution.

We propose an automatic and real-time system for vehicle emission. This system would be implemented by the use of internet of things (IOTs). IOT refers as any physical thing that is connected to internet or exchanging information or data between internet and physical device. Arduino UNO is a microcontroller used in IOT. It is used for building digital devices and interactive objects that can sense and control physical devices. Our smart vehicle emission monitoring system will be implementing using Arduino UNO board for vehicle emission monitor and ESP8266 Wi-Fi module to connect with internet. By using our IOT based vehicle emission monitoring system, a user can control the pollution lead by their private vehicles

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