

A

Project Report

On

IOT BASED WIRELESS VEHICLE EMISSION MONITORING SYSTEM

Submitted to

Department of

ELECTRONICS & COMMUNICATION ENGINEERING

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(Approved by AICTE, New Delhi, Affiliated to JNTUH, Accredited by NBA)

Ananthasagar (Vill), Hasanparthy (M), Warangal.

2022-23



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the project entitled “IOT BASED WIRELESS VEHICLE EMISSION MONITORING SYSTEM” carried out by the following students of III Year B.Tech in Electronics and Communication Engineering during the academic year 2022-23.

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ABSTRACT

An increase in automobile vehicle leads to an increase in air pollution since automobiles are the main source of environmental pollution. The smoke emitted from the vehicle consists of gases like nitrogen oxides (NO_x), carbon dioxide (CO_2), and hydrocarbon (HC). Approximately one-half of the nitrogen oxide gases, carbon monoxide and one-fourth of hydrocarbon gases in our environment are emitted from automobile vehicles, which leads to global warming. Due to poor vehicle maintenance. The gases emitted from the exhaust may increase. In order to reduce environmental pollution and to increase vehicles life, we can use this system. When the rate of gases emitted from the vehicle exceeds the threshold limit set by the government, our proposed system will alert to the user through LCD. Using IoT, the emission level is also displayed and stored in the database of a vehicle owner. When the vehicle owner ignores it, the report will send to the transport office with entire details. The entire system is controlled by ATMEGA328 microcontroller.



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