VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama" Belagavi – 590 018

PROJECT REPORT ON

"ANTI-POACHING ALARM FOR VALUABLE TREES"

Submitted in partial fulfillment of the requirements for the award of degree

BACHELOR OF ENGINEERING
IN
ELECTRONICS & COMMUNICATION ENGINEERING

Submitted By

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CERTIFICATE

Certified that the project work entitled "**ANTI-POACHING ALARM FOR VALUABLE TREES**" *is a bona fide work carried out by*

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in partial fulfillment for the award of **BACHELOR OF ENGINEERING** in **ELECTRONICS & COMMUNICATION ENGINEERING** of the **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI** during the year 2023–2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.

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ABSTRACT

Theft of illegal trees, especially valuable species like teak and sandalwood, is a serious threat to the world's forests. This research presents a novel framework for forest preservation and anti-poaching that makes use of wireless sensor networks (WSNs) and the Internet of Things (IoT). The system uses tilt, vibration, and flame sensors, among other sensors, to identify forest fires and illicit logging in real time. The information gathered is sent to the forest authorities so that possible threats can be addressed quickly. This all-encompassing strategy tackles the urgent need for tactics to stop illegal activity endangering the sustainability of the global ecological system and natural resources. The potential of technology to protect priceless trees and avert ecological disasters is highlighted by its integration with environmental protection. The suggested approach emphasizes the significance of taking proactive steps in maintaining our forests and their priceless resources by providing a comprehensive response to stop the smuggling of trees, save biodiversity, and lessen the effects of climate change.