VISVESVARAYA TECHNOLOGICAL UNIVERSITY,

BELAGAVI

A PROJECT REPORT ON

"SUPPLY CHAIN MANAGEMENT FOR AGRICULTURE PRODUCTS USING BLOCKCHAIN"

Submitted in partial fulfillment for the award of Degree of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE & ENGINEERING

By

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CERTIFICATE

This is to certify that the project entitled "SUPPLY CHAIN MANAGEMENT FOR AGRICULTURE PRODUCTS USING BLOCKCHAIN" has been successfully completed by

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The bonafide students of **DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING, ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY** of the **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI** during the year 2023–24. 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

Supply chain management plays a pivotal role in the success of modern businesses, facilitating the flow of goods and services from production to consumption. However, traditional supply chain systems encounter numerous hurdles concerning the integrity of data, transparency of operations, and security of transactions. These challenges often lead to inefficiencies, delays, and increased risks of fraud within the supply chain ecosystem. The emergence of Blockchain technology presents a promising solution to these longstanding issues. By leveraging its decentralized, immutable, and transparent ledger, Blockchain offers a robust framework for enhancing the efficiency and security of supply chain management processes. Unlike centralized databases, where data can be vulnerable to manipulation or unauthorized access, Blockchain ensures the integrity and transparency of transactions through its distributed network and cryptographic protocols. One of the key advantages of Blockchain in supply chain management is its ability to securely record transactions and track products throughout their lifecycle. Through tamper-proof digital records stored on the Blockchain, stakeholders can gain real-time visibility into the movement and provenance of goods, promoting greater transparency and trust among participants. The increase in transparency not only reduces the incidence of fraud but also enables more accurate inventory management and streamlined contract execution.