Organic Food Supply Chain Traceability Using Block Chain

*A project report submitted to the Faculty of Engineering of JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA*

*In Partial fulfilment of the requirement for the award of degree of*

# BACHELOR OF TECHNOLOGY

In

# COMPUTER SCIENCE AND ENGINEERING

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# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING V.K.R, V.N.B & A.G.K COLLEGE OF ENGINEERING

(An ISO 9001:2015 certified institution, accredited by NAAC with ‘A’ grade) (Sponsored by General & Technical Education Society, Gudivada)

**(Approved by AICTE-New Delhi, Recognized by Govt. of A.P & Affiliated to JNTU – KAKINADA,)**

GUDIVADA-521301, Krishna District, Andhra Pradesh.

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**CERTIFICATE**

This is to certify that **M.D.N.V. Bhavani Manikanta (20NH1A0559), J. Komali (20NH1A0531), K. Sravya (20NH1A0544), Ch. Purna Kishore (20NH1A0513)** of final year computer science and Engineering has submitted MAJOR PROJECT report entitled **“Organic Food Supply Chain Traceability Using Block Chain”** in partial fulfilment for the award of Bachelor of Technology Degree of JNTUK Kakinada in session 2022-23. It has been found to be satisfactory and here by approved for submission.

**Mr. G. VENKATA RATNAM, M.Tech,(Ph.D.) Mr. V. SUDHAKAR, M.Tech**

(HOD of CSE Dept) (Project Guide)

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**ABSTRACT**

Blockchain technology is prized for its capacity to record and disperse exchanges in a permanent, scrambled ledger. In a conventional supply chain, there is no method by which consumers can be assured about the reliability of the products because there is no means to investigate the hygienist and authenticity. This project aims to develop a decentralized, Blockchain-based system for verifying both the quality and the source of a product. To verify the authenticity of the products, we will create a certified organic food supply chain. In this work, we are going to discuss how to use blockchain technology to improve the data security of supply chain participants. We will reduce the risk of data tampering and fraudulent data allocation by utilizing the 'Smart contract' application of blockchain technology, and by providing a quality assurance certificate, customers will be able to be confident in the product's quality. This work assists individuals from a variety osf industries in understanding the benefits of the blockchain-based system and implementing it to improve the overall system's efficacy.

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