

**SECURE PAYMENT SYSTEM IN SUPPLYCHAIN  
MANAGEMENT USING BLOCKCHAIN  
TECHNOLOGIES**

*A project report submitted in partial fulfillment of the requirements for the  
award of the Degree of*

**BACHELOR OF TECHNOLOGY**

In

**COMPUTER SCIENCE AND ENGINEERING**

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**AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY**

(Approved by AICTE, New Delhi & Permanently affiliated to JNTU Kakinada)

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MAKAVARAPALEM, NARSIPATNAM,

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(2017-2021)

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## CERTIFICATE

This is to certify that the project entitled "SECURE PAYMENT SYSTEM IN SUPPLYCHAIN MANAGEMENT USING BLOCKCHAIN TECHNOLOGIES" in partial fulfillment for the of degree of Bachelor of Technology in COMPUTER SCIENCE AND ENGINEERING, at AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY,MAKAVARAPALEM,VISAKHAPATNAM is an bonafied work carried out by Peetha Jayanthi(18815A0503),Bogapurapu Tanuja(17811A0512),Ruttala Pavani(17811A0541). Kollu Venkata Manikumar(17811A0526) under the guidance and supervision during 2020-2021.

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## ABSTRACT

In enterprise resource planning a smart contract transaction system has become key area for secure operations in supply chain management a block chain transactions for different parties with specific condition is the main object which needed to be taken into consideration so we need to create an integrated system which can handle the secure transaction between the supplier and retailer. In this paper we have built a prototype to implement a secure payment transaction using block chain transactions which works as open ledger and perform the analysis of block chain importance to evaluate the secure payment system here we use the sha256 to generate the hash truncations to create a relations between supply chain parties so that a trust can be built between the parties using smart contract system.

Supply chain management is a process of flow of goods and services from the point of origin to point of consumption. However conventional supply chain management is facing the issues of security and lack of trust between the users like distributor and retailer. To avoid these issues we include blockchain in supply chain management to enhance more security and trustworthy business between the users. Block chain enables to trade between two parties without the involvement third party as mediator. It also store and verify the data which is provided by the participants in the network.