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A Review of a Transport Inventory System in association with Tender Web Application

Chhabi Lal[1], Vivek Singh Rathore[2]

M.Tech Student, Department of Computer Science & Engineering, Chouksey Engineering College, Bilaspur, Chhattisgarh, India[1]

Assistant Professor, Department of Computer Science & Engineering, Chouksey Engineering College, Bilaspur, Chhattisgarh, India[2]

Abstract: Transport Inventory System (TIS) is a digital solution that facilitates the management of all transportation activities from beginning to end for any organization. This system will help automate the transport operation and allow managing all the various tasks and activity. This Transport Inventory based system provides web application stores all the vehicle and job-related information in a dynamic format, making it easy for users to access data with just a single click. One of the core features of this application is the Tender system, which enables transporters to view open tenders and quote for them. The system also provides details of approved tenders, including tender amount, dispatch date, and payment dates for future reference. The Transport Inventory System (TIS) helps streamline transportation activities, eliminating the need for maintaining registers and enabling quick access to indent reports. This system comprises four main components, including indenter, transporter, super admin, and admin, with specific responsibilities related to managing transportation activities. The Transport Inventory System (TIS) simplifies the transportation process and increases productivity, making it an essential tool for managing transportation activities in any organization. This Transport Inventory System (TIS) will help the users in improving their planning and scheduling of transportation. In addition indent feeling and reducing their time and energy, and making their working process more efficient.

Keywords: Transport Inventory System, transportation activities, web application, tender system, productivity, transparency.

I. INTRODUCTION

A Transport Inventory System (TIS) is design to process of maintaining all the transport activities for a particular job for any organization. This System effectively manages the transportation in organization, information delivery to specific system on easy way, smoothly interact to each to other and working is fine the in this system with the help of software. Reduce complexity of old working system such as manual registering of information, for billing and payment of offline working system can be replaced by online system. In an open management of this type of system management of an organization interacts with the environment by way of inputs, through ports and output. Different sets of distinct parts interact with each other in different processes to form a system. In Transportation System contains all the details of vehicle & job in a digital format so that it's a dynamic way to collect all the data a one single point of view in a single click. In this, a Tender system included for all the transporters, in which the user (Transport) can easily view their desired job and select and quote for any open tender for any location A Transport Inventory System (TIS) is field of Supply Chain Management (SCM) where used to manage the all transport work, user can select the vehicle for delivery of goods. Transport management System Company keep records of every trip that has been taken by any transport vehicle, transport agency also records expenses incurred for a journey on a day. By automates this process by calculating the total amount of a transport vehicle and also keeps records of dues on the user.

II. MOTIVATION

In the present era, digital systems have significantly alleviated human effort, streamlining work processes through extensive technological integration. The complete digitization of activities in accordance with business requirements ensures efficient system operations and facilitates seamless communication among various stakeholders. Our application plays a crucial role in enabling online workflow for all tasks, allowing for real-time tracking of daily activities and comprehensive information management at every stage.

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The aim of the proposed research work is design a comprehensive Transport Inventory System (TIS) that will help organizations improve their efficiency and manage their growth. This system will help them meet their business needs and improve their performance.

III. PROBLEM STATEMENT

In the past, when we relied on manual registers to manage our workflow, there were several issues that arose. As, every time we need to place an order, we had to make multiple phone calls to ensure that all the necessary details were recorded. This resulted in missed calls and undelivered orders, which made it difficult to keep track of who was responsible for that task. So its generate issues for the indenter, dispatch team, and super admin, as it was challenging to obtain accurate details and information about the status of orders and delivery. Additionally, it was difficult to estimate cost for transportation.

As per the research work, we got many challenges that need to solve. There are some major challenges are listed that are faced by the currently available.

- Manual and time-consuming coordination.
- Lack of centralized information.
- Inaccurate and incomplete data.
- Inefficient cost estimation.

Given these challenges, there is a pressing need to simplifies and streamlines the transportation management process.

IV. PROPOSED WORK

In the Proposed work design a system that provide a solution would reduce repetitive work, provide real-time visibility of transport status, vehicle information, delivery and dispatch status. To improve communication and coordination, and enable accurate cost estimation. By addressing these problems, the application would enhance productivity and efficiency in the transportation industry.
Have some specific objective of the system

- Reduction of Manual and time-consuming coordination to each other.
- Centralized a system that provides digital a platform can track accurate information about indent, deliveries, and transportation status.
- A digital directory better way to secure and save all the data in a digital format. This provides more secure data privacy and paperless work environment in the industry.
- Ease the management - Management ease is important for smoothing the work flow and maintenance a larger task in easier way with the help of digital solution.
- Save time a digital platform is a better way for less consumption of time. Our application saves time with better secure data structure by hand work.

V. CONCLUSION

This research aims to design a comprehensive Transport Inventory System (TIS) that enables organizations in the transportation industry to enhance efficiency, manage growth, and meet their business needs effectively. The proposed TIS will streamline inventory management processes, provide real-time visibility, and enable data-driven decision-making, contributing to improved performance and overall organizational success.

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