

# Transport management system: Review of management system and supply chain management system

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**Abstract** - Transport Management System developed to automate transport operation like booking order delivery report, generating transactions receipt and accounts statements etc. With help of this system user can computerized transport office work like billing, summarized payment, creating report etc. The main aim of job of the transporter is to provide transport service to consigner and consignee. A transport trip details are maintained in the module. Transport agency can generate bill using the system and check if any amount is remaining of any customer user can also generate a report to calculate the total expenditure on vehicle on any transport trip.

**Key Words:** Consignee1, Consigner2, PO Order3, LR Bill4 GST5

## 1. INTRODUCTION

Transport Management System is a software application to maintain day to day transaction in transport office using this system user can manage transport work. He can select vehicle to transport the goods. Customer can also go good transport order online

Our transport management system also allow user to keep records of their customer used. 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. Our transport management system automates this process by calculating the total amount of a transport vehicle and also keeps records of dues on the customer.

### 1.1. Existing System

Transport Management System (TMS) has design to manage the booking and maintenance of growing transport. Problem occurs when transports have mechanical problems are rented, vehicles that have been double booked and there have been cases when the wrong vehicle has been rented when it has been returned and not serviced. The current system has redundancy, where data cause by the manual system which uses paper to fill the information. Data is also not being kept in the secure location

## 2. SYSTEM OVERVIEW

Our new system makes transport maintenance easy and requires less man power and less time for maintaining the

records of the transportation firm. In our new system, everything is computerized and transport management is totally transparent. As everything is automated in new system now user need minimal Clerical work involved to manage transport work. New transport management system is required less man power since all the paper work is automated in new system. new transport management system is user friendly with good look and feel and accurate.

There are main 3 modules in the system

1. Admin module
2. Master module.
3. Transaction module.

### 2.1 Admin module

In first module that is Admin Module, that provides all the different levels of access of the system and also generate new firms. We will be giving different levels of access to different users for viewing information, online ordering, Providing payment information, vehicle information, state information, product information.

### 2.2 Master Module

In second module which is master module gives the transportation information. Master module provides all the transport information of the transport system such system provide city information that can be used by users. Some area is restricted from servicing the services. Consignee master provides customer details and similarly congener master provide supply details. Product master provide detailed information about product which is going to supply to customer. Tax master used in billing purpose new GST taxation. Vehicle master provides types of vehicle and all safety information.

### 2.3 Transaction Module

In third module, transaction of our web application, the module defines transaction process. The transaction module conform one agreement between supplier and our transport system. These defines the trip is one way trip or two way trip. If there is two way trip then only supplier can services the goods to the customer and also customer provide goods to supplier. Transaction module implements multiple

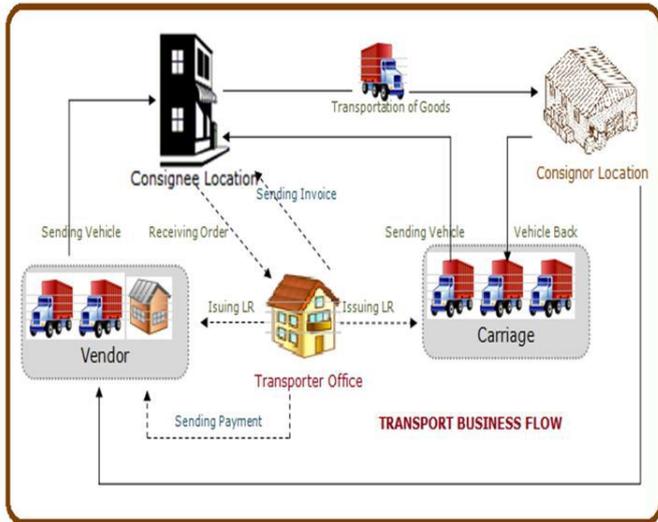
Transaction, such as daily lorry receipt, voucher, LR bills, memos and orders. Daily lorry receipt contains record of work carried out of the daily trips. These are maintained by lorry receipt. Voucher contains all the record of advanced payment maintained in record. LR bill defines short summary of daily LR bills. Which has to be given to the supplier?

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**Fig -1:** System Process

**4. Objectives of System Architecture**

1. For companies that ship with third party carriers, there are Transport Management System that optimize freight spend by evaluating available shipping options between the source and destination shipment points.

2. For companies that ship with a private or dedicated fleet of trucks, there are Transport Management System applications that optimize fleet routing and route/stop assignments to each shipment. As well, there are applications to manage the dispatch of outbound trucks as they are on the road with driver standards and load status monitoring.

**5. CONCLUSIONS**

Transport Management System is web based application Which Provides efficient way to transport manager for? Handling logistic Process. Transportation system is Important to urban and social Development. The roles of urban transport explained above are Important to Affect the demand and supply of urban land market.

Transportation system influence virtually every aspect Of Communities, the region, and increasingly, to Destinations around the word. In this highly developing era, Where directly or indirectly, everything is dependent on Computation and web Technology, Transport Management System will prove to be Smart, economic and efficient Platform for transportation.