

Project transportation software

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1. INTRODUCTION

The main concern of big enterprises are to manage the daily entry and exit of vehicles in the site premises as well as to maintain records of drivers, routine vehicles inspections, issue/renewal/expiry of gate passes, daily material in/out records etc.

Project Transportation System is planned to realize all such functions performed practically on site, so that successful execution can be done on implementation. The system shall not only maintain records but also automate the process of transportation of all vehicles working on site by reducing loads of paperwork and computing & generating required reports within minutes.

2. Objective

- Vehicles and drivers login/logout
- One trip/regular vehicle gate pass printing
- Vehicle inspection
- Material entry

3. AREA OF APPLICATION

- Project sites
- Manufacturing units
- Warehouses

4. FEATURES & Advantages

1. Maintain records of On-site Transportation of regular site vehicles of all Companies and Sub-Contractors.
2. Types of vehicles:
 - LMV (Cars – Jeeps).
 - HMV – Passenger Carriers (Buses – Mini Buses – Tempos).
 - HMV – Goods Carriers.
 - Mobile Equipments (Cranes – Hydras – Excavators – Lifting Equipments etc.).
3. Maintain Records of Inspection of all vehicles – Regular Site automobiles & One-trip vehicles.
4. Issuing and renewal of vehicle Gate passes.
5. Inspection of Vehicles and Mobile equipments.
6. Record keeping of all Material Entry & Exit from the gate.
7. Maintain Database of all Drivers.
8. Keep Issue records of one-trip gate passes to vehicles and their drivers.
9. System alarming & Reminders for re – inspection dates and more than 24-hour presence of vehicles on-site with one trip gate passes.
10. Due to Daily reminders Legal requirements such as Registration, Road Tax, Road Permit, Pollution Control Certificate etc. can be done on time.
11. Heavy motor vehicle drivers are given training to drive heavy vehicles and light motor vehicle drivers are given training to drive light vehicles. Due to project transportation system regular check is maintained so that the drivers are not switched off and thus accidents are avoided.
12. Only authorized company drivers are allowed to drive company regular vehicles.
13. Total exact vehicle working hours calculation for rented vehicles for commercial terms. Thus miscalculation is prevented.
14. Re-inspection of vehicles facility prevents accidents.
15. Prevention of material thefts.
16. Accurate material recordkeeping.

5. MODULES

Vehicle Registration

All the Vehicles & Drivers that work for the site shall be registered with a unique number in this module. The registration process shall be necessary for all the vehicles & drivers. The form signed by the concerned authority with basic details mentioned below shall be required for a valid registration:

- Company
- Name of Contractor
- Make & Type
- RTO Registration No.
- Driver's Name
- License No.
- License Validity
- Legal requirements such as Registration, Road Tax, Road Permit, Pollution Control Certificate etc.
- Insurance Papers such as Vehicle Insurance, Passenger Insurance etc.
- Vehicle Fitness
- Inspection Officer
- Safety Officer
- Area In-Charge

For Mobile Equipments relevant certificates shall have to be provided:

- Special Inspection Certificate – Third Party.
- Operator eligibility Certificate.

Vehicle Inspection System

Records of Inspection of every vehicle working on the site are maintained in this module. There shall be three types of inspection,

1. New Vehicle Inspection
2. Re – Inspection of Old vehicles
3. Inspection of one trip vehicles

The New vehicle Inspection shall only be possible if the vehicle is already registered in the system. The basic data necessary for inspection of the vehicle shall be available to this module from the registration module.

Various Inspection Forms can be designed including:

- Safety Inspection – Motor Vehicles
- Maintenance Inspection Report – Motor Vehicles
- Servicing & Repair Record – Powered Vehicles & Trailers
- 28 Days / 4 Weeks – Safety Inspection Report

Reports

- Regular vehicle inspection report
- One trip vehicle inspection report
- Re-inspection report

Vehicle ID Gate pass generation system

This module shall Print and manage Bar coded badges & related data with the following features:

- New ID Badges Generation
- One Trip Badges Printing
- Masters facility for one time entry of frequently used data.
- Permanent & Temporary Card generation.
- Reprint Expired gate passes.
- Scheduler
- Change Driver facility with change photograph
- Change type (Temporary / Permanent)
- Change Company (e.g. De-hired by PLL & again hired by Patron)
- Search vehicle.
- Delete vehicle from active database.

Reports

- Vehicle gate pass issued Report
- Vehicle gate pass expiry Report
- Contractor wise total number of gate pass issue Report

Vehicle and Driver Login/Logout Record

This module will run on site gate terminal for scanning gate pass of vehicle and driver for Login/Logout.

1. Using scanning of vehicle pass, we can get exact login/logout time of vehicle on site. So if company hiring any HVM or Mobile Equipments (like Cranes, Hydras, Excavators, Lifting Equipments) on timely basis then company can get exact login/logout time from system. According to this calculation commercial department can make exact idea of total no hours for payment.
2. We can have exact information of no of vehicles are working on site.
3. While scanning of driver badge, proper driver of the vehicle can be identified from ID Badging database. (As per our understanding Drivers have to registered in ID Badging software to drive long term vehicle. long term vehicle only will be driven by those drivers who are having permanent site Access Badge.)

so, while scanning software will check driver details like his badge id, validity date, license expiry date, and no offense if he did on site previously. According to these checks system will show you indication.

Report

- Driver login/logout report
- Driver login more than 12 hours report
- Regular vehicle entry/exit report
- One trip vehicle entry/exit report

System for One trip Vehicles

- The System shall also work for one-trip vehicles.
- Inspection of one trip vehicles
- RTO documents check
- Drivers License
- Location of departure – Origin
- Recording data of permission for material carried on Entry & Exit.
- Reminder – if stay on site is more than 24 hrs.

Report

- One trip vehicle entry/exit report

Reminder & Scheduling System

- This is a tool used for being reminded for particular tasks were scheduled to be done on specific dates.
- This module is applicable in Project Transport Management System in many ways:
- Reminder for expiry of vehicle gate passes
- Reminder for Timely Inspection of all vehicles
- Reminder of expiry dates of R.T.O. documents and License, Insurance etc.
- Reminder for one trip vehicles in 24 hours

Offences

Offences and Yellow card pointing system

This module of the system shall maintain records of violations; offences registered using driver Id or any particular vehicle ID, registration no. etc.

Vehicle Offence Record

Vehicle Reg no, Offence date, Offence type, Location, Description, Reported by, Reported to, Action By, Action Details, Action Date

Driver Offence Record

Vehicle Reg No., Badge ID, Date, Location, Offence Type, Reported by, Reported to, Action By, Action Details, Action Date

Offences reports can be generated as per all this record.

Like, offence date wise, driver id wise, vehicle reg. no wise, Company wise, offense type wise, action by wise.

Report

- Offences filter report
- Driver offences report
- Vehicle offences report
- Offences investigation filter report
- Offences action taken filter report
- Transporter offence report

Material Management

This module of the system shall maintain records of material entry and exit from site. It keeps records of material type, carrying vehicle, Driver, Carrying person, Authorized person and etc.

Report

- Material detail report
- Material entry/exit report
- Material filter report
- Material in/out chart

6. REPORTS

Filter & Search reports

Company	Brand - Make	Unique ID/Gate pass number	Reg./Issue Date
Registration No.	Sub - Contractor	Work Package	Validity date
Gate Pass Type	Gate pass Status	Driver ID	Driver Name

To get the most precise information and accurate reports we have designed filter & Search Module. Whenever required, the user can use any number of combinations from the above on the basis of the amount of data for respective parameters he already has to get accurate and complete report from the database of the system.

The user can also, using filter & search module, search through the whole database for a particular entry of record or instance.