

FLEET MANAGEMENT SYSTEM FOR LIQUID CARGO CARRIERS

Scope

1. The software tracks the loading and unloading operations of Liquid cargo carriers such as Trucks, Bullets, Tankers and Containers. It covers both “owned” and “hired” vehicles. “Bulk” cargo is transported from refineries to bottling plants and “Packed” cargo is transported to distributors. Tariff chart exists for between distribution points for different cargo types, each sub-divided by the region covered (as different tax structures are applicable for inter-state transportation). Different rate structures also exist for loading and unloading. Hired vehicles have independent commission rates. Shortage rates of various cargo types for different conditions are also applicable
2. All the rates are subject to retrospective changes and require supplementary invoices to be generated
3. The vehicle maintenance is also part of the software. Consumption on various accounts such as tyre, engine repair, sundry repairs, lubricants, etc. are also accounted. Renewals of tax, insurance, pollution certificate, explosive certificate, etc. are tracked
4. Driver roster and advances paid/adjusted are also tracked
5. Daily status of vehicle – loading, unloading, breakdown, on-the-way, etc.

BASE MODULES

- ◆ Vehicle details
- ◆ Owned / Hired Vehicles
- ◆ Billing
- ◆ Vehicle Tracking
- ◆ Loading/Unloading
- ◆ Vehicle Repair Log
- ◆ Company Accounts
- ◆ Plant Accounts
- ◆ Vehicle Profitability
- ◆ Query & Reports

COVERAGE

Vehicle Details

Details such as vehicle No, Engine No, Chassis No, Registration date, CF validity, Explosive validity, Permit details, Insurance, Financier details, whether hired or owned, etc.

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Loading Points

Name and locations of Refineries

Bottling Plants

Name and locations of plants

Distributors

There are multiple distributors for each bottling plant. Rates for transporting from the B/P to each for different cargo types are maintained for different vehicle types (belonging to same state, other states, etc.)

Rates Per Km

Tariff chart for transporting bulk from one refinery to different bottling plants is maintained. For Packed items, rates are in cylinders and for bulk rates are in MetricTons. These rates are different for different regions and for different category of items (both bulk and packed)

Shortage Rate

For each plant, there are different rates for each cylinder type. Shortage rates are for different shortage types (such as Cap, filled cylinder, empty cylinder, etc.)

Bulk / Packed Loading/unloading

Loading and unloading details are maintained through this interface. Also includes advances paid to drivers. Documents such as challans, gate pass, etc. are generated. At the unloading point shortages (type and quantity) are also logged

Other interfaces

- ◆ Details of Hired vehicles
- ◆ Driver roster
- ◆ Tyre purchase
- ◆ Tyre replacements
- ◆ Vehicle repairs
- ◆ Accounts Vouchers – Receipt, Payment, JV, Contra, etc.

Query/Reports

- ◆ Challans, Bills, Supplementary Bills
- ◆ Vehicle Ledger – both hired and owned
- ◆ Ledger & Trial of both owned & hired vehicles
- ◆ Bottling Plant wise Income/Expenditure accounts
- ◆ Refinery wise Income/Expenditure accounts
- ◆ Own Income/Expenditure accounts

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- ◆ Daily vehicle status
- ◆ Monthly & Annual RateKm report for each plant and vehicle
- ◆ Alerts on pending tax, insurance, renewals, permits, etc.
- ◆ Repairs & average Consumption expenditure on each vehicle
- ◆ TDS statement, Outstandings Statement, etc.

SNAPSHOTS OF #FMS FOR LIQUID CARGO CARRIER

The screenshot shows the 'Vehicle Master' window with the following fields:

- Vehicle No. (text box)
- Registration Date (date field)
- Owner Change Date (date field)
- CF Valid Date (date field)
- Special Tax upto (date field)
- Explosive Licence upto (date field)
- U/S - 18 upto (date field)
- U/S - 19 upto (date field)
- U/S - 44 upto (date field)
- F. Form upto (date field)
- Chassis No. (text box)
- Tax Period: From (date), To (date), Amount (text box)
- Insurance Period: From (date), To (date), Amount (text box)
- Vehicle Type (dropdown)
- Permit (dropdown)
- Cylinder Capacity (text box)
- Vehicle Status (dropdown)
- Permit upto (date field)
- Financer (text box)
- Buttons: New, Save, Delete, Print, Exit

Interface for Vehicle Master

The screenshot shows the 'RTKM of LoadingPoint (for Bulk)' window with the following fields:

- Source Code (dropdown)
- Destination Code (dropdown)
- Date (date field)
- RTKM (text box)
- Region:
 - Within State
 - Other State
 - FDZ -1(0-300)
 - FDZ-2(0-300) HLD,KLY
 - FDZ-3 (301-450)
- Buttons: New, Save, Delete, Print, Exit

Distance Chart

The screenshot shows the 'Packed Loading/Unloading' window with the following fields:

- Vehicle No. (dropdown)
- Commission (%) (text box)
- Loading:
 - Document No. (text box)
 - Loading Date (date field)
 - Plant (dropdown)
 - Distributor (dropdown)
 - RTKM (text box)
 - Advance Amount (text box)
 - Extra Adv. (text box)
 - Authorised
 - Diversion Case
- Unloading:
 - ERV No. (text box)
 - ERV Date (date field)
 - Unloading Date (date field)
 - Plant (dropdown)
 - Distributor (dropdown)
 - RTKM (text box)
- Shortage:
 - Cap (text box)
 - Empty Cyls. (text box)
 - Filed Cyls. (text box)
 - Under Weight Cyls. (text box)
 - OMC (text box)
 - Spurious Cyls. (text box)
 - Defective Cyls. (text box)
 - Shortage Amount (text box)
- Cylinder:
 - 14.2 Kg: Actual Cyls. (text box), Billing Cyls. (text box)
 - 19 Kg: Actual Cyls. (text box), Billing Cyls. (text box)
- Buttons: New, Save & Pay, Print, Delete, Exit

Interface for Loading / Unloading of Packed Cargo

The screenshot shows the 'Vehicle Repairing' window with the following fields:

- Repair Bill No. (text box)
- Repairing Date (date field)
- Vehicle No. (dropdown)
- Repairing Type (dropdown)
- Engine No. (text box)
- Garage Name (text box)
- Repairing Cost (text box)
- Place (text box)
- A/c. Head (dropdown)
- Sub A/c. Head (dropdown) (Garage Name)
- Remarks (text box)
- Buttons: New, Save, Delete, Print, Exit

Vehicle Repair

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Fuel Bill

Vehicle movement tracker

Interface for Fortnightly bill preparation

Invoice generation for Hired vehicles

Income-Expenditure Status [Vehicle-wise] (Summary)

Plant : IBP , BALASORE

Period : From 01/04/2002 To 30/04/2002

| Vehicle No. | Total RTKM | Income | Advance | Repair | Tyre Expense | Expenditure | Profit / Loss |
|----------------|------------|------------------|------------------|-------------|--------------|------------------|-----------------|
| WB25-4025 | 386 | 4,662.80 | 11,870.00 | 0.00 | 0.00 | 11,870.00 | -7,207.20 |
| AS01J-2983 | 508 | 5,984.14 | 11,956.00 | 0.00 | 0.00 | 11,956.00 | -5,971.86 |
| AS01J-3658 | 193 | 2,797.68 | 4,750.00 | 0.00 | 0.00 | 4,750.00 | -1,952.32 |
| WB25-4028 | 346 | 4,179.61 | 5,980.00 | 0.00 | 0.00 | 5,980.00 | -1,800.39 |
| AS01J-2987 | 0 | 1,418.88 | 3,180.00 | 0.00 | 0.00 | 3,180.00 | -1,761.12 |
| AS01J-2995 | 0 | 1,418.88 | 2,430.00 | 0.00 | 0.00 | 2,430.00 | -1,011.12 |
| AS01J-3651 | 0 | 1,773.60 | 2,360.00 | 0.00 | 0.00 | 2,360.00 | -586.40 |
| WB25-2936 | 346 | 4,179.61 | 4,607.00 | 0.00 | 0.00 | 4,607.00 | -427.39 |
| AS01J-3659 | 728 | 8,794.09 | 6,050.00 | 0.00 | 0.00 | 6,050.00 | 2,744.09 |
| AS01J-2976 | 1,297 | 15,278.40 | 9,955.00 | 0.00 | 0.00 | 9,955.00 | 5,323.40 |
| AS01J-3660 | 1,809 | 21,309.66 | 5,460.00 | 0.00 | 0.00 | 5,460.00 | 15,849.66 |
| TOTAL : | | 71,797.36 | 68,598.00 | 0.00 | 0.00 | 68,598.00 | 3,199.36 |

Vehicle-wise Income Expenditure Statement