

Transport Monitoring Management System

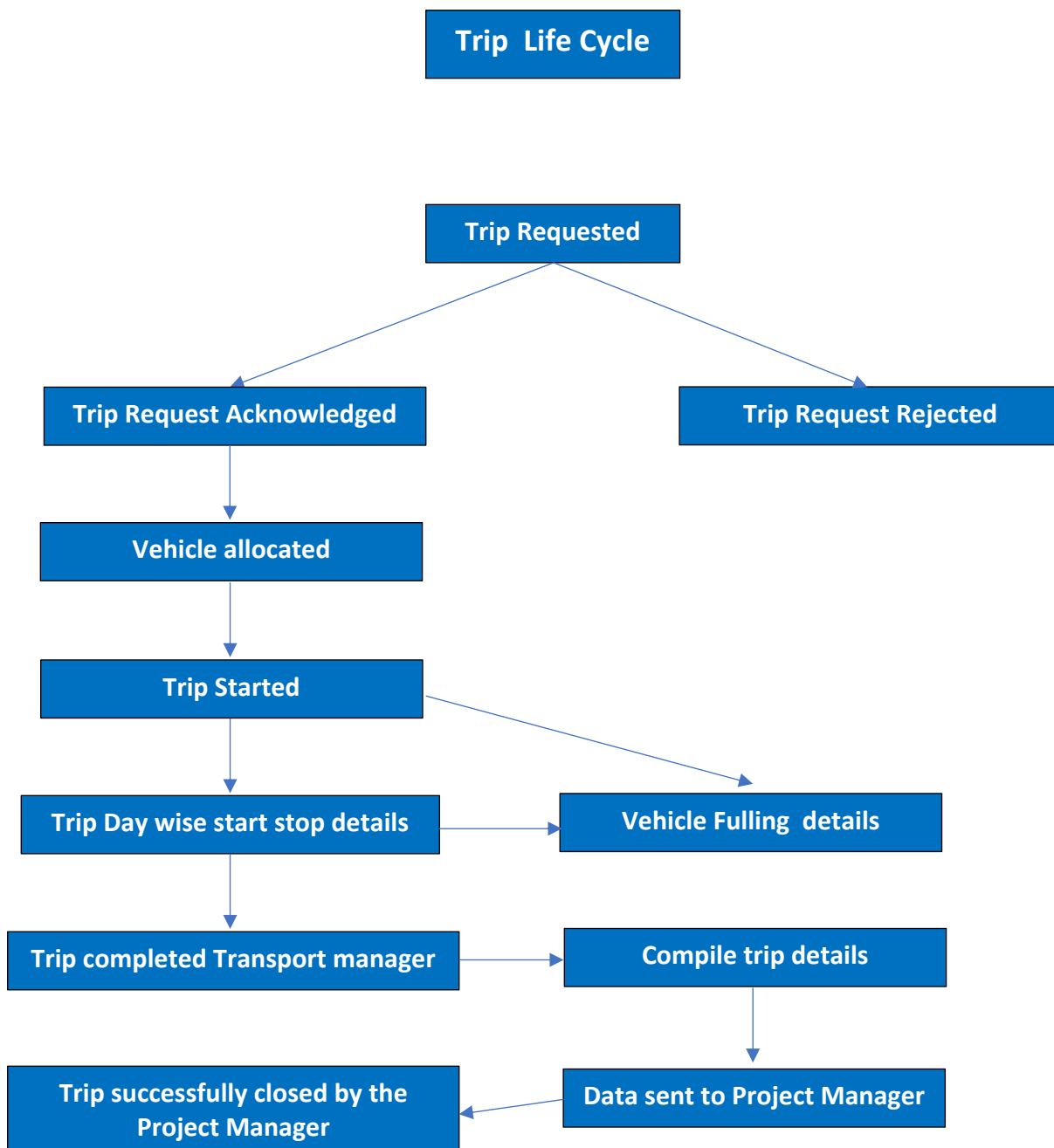
In the current operation of the transportation process there are the many challenges has been identified. At present entire processes are based on manual record keeping & data feeding in the excel format . we have identified the following process in the present transport management system which can be automate by the process rich mobile operational software with centralized web panel & cloud based data storage.

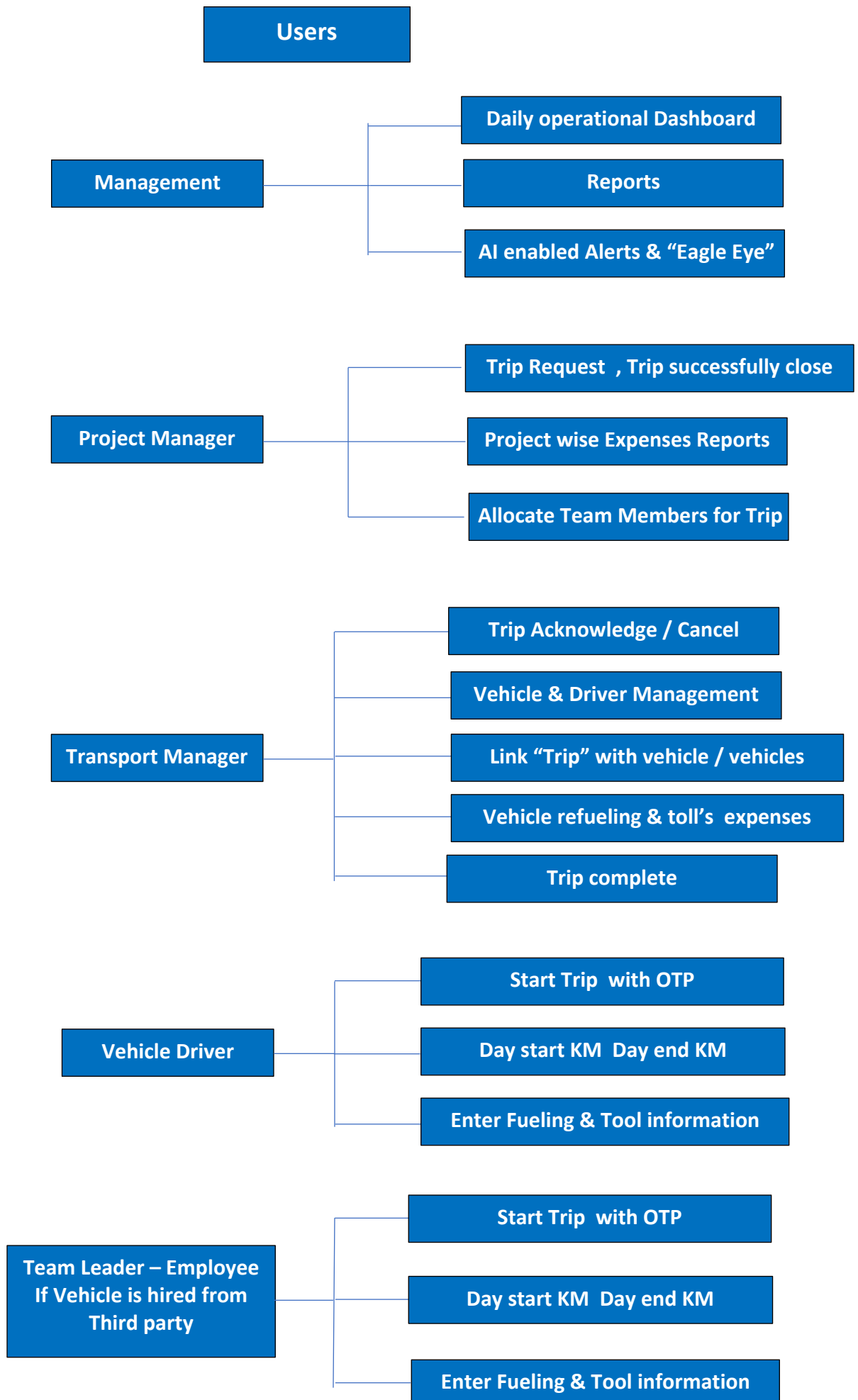
1. Verbal Request for the vehicle allotment by the project manager.
2. Transport manager will allocate the vehicle & maintain the fuel consummation record in the hard copy in his own handwriting .
3. Concern vehicle driver will get the allotment information from transport manager & maintain the daily KM Log book & fuel consummation.
4. Log book data filled by the vehicle driver will be manually entered in the excel sheet by the transport manager / authorized person.
5. In Monthly review meeting of transportation expenses cross check 's these entries & raise the concerns.

The proposed software system

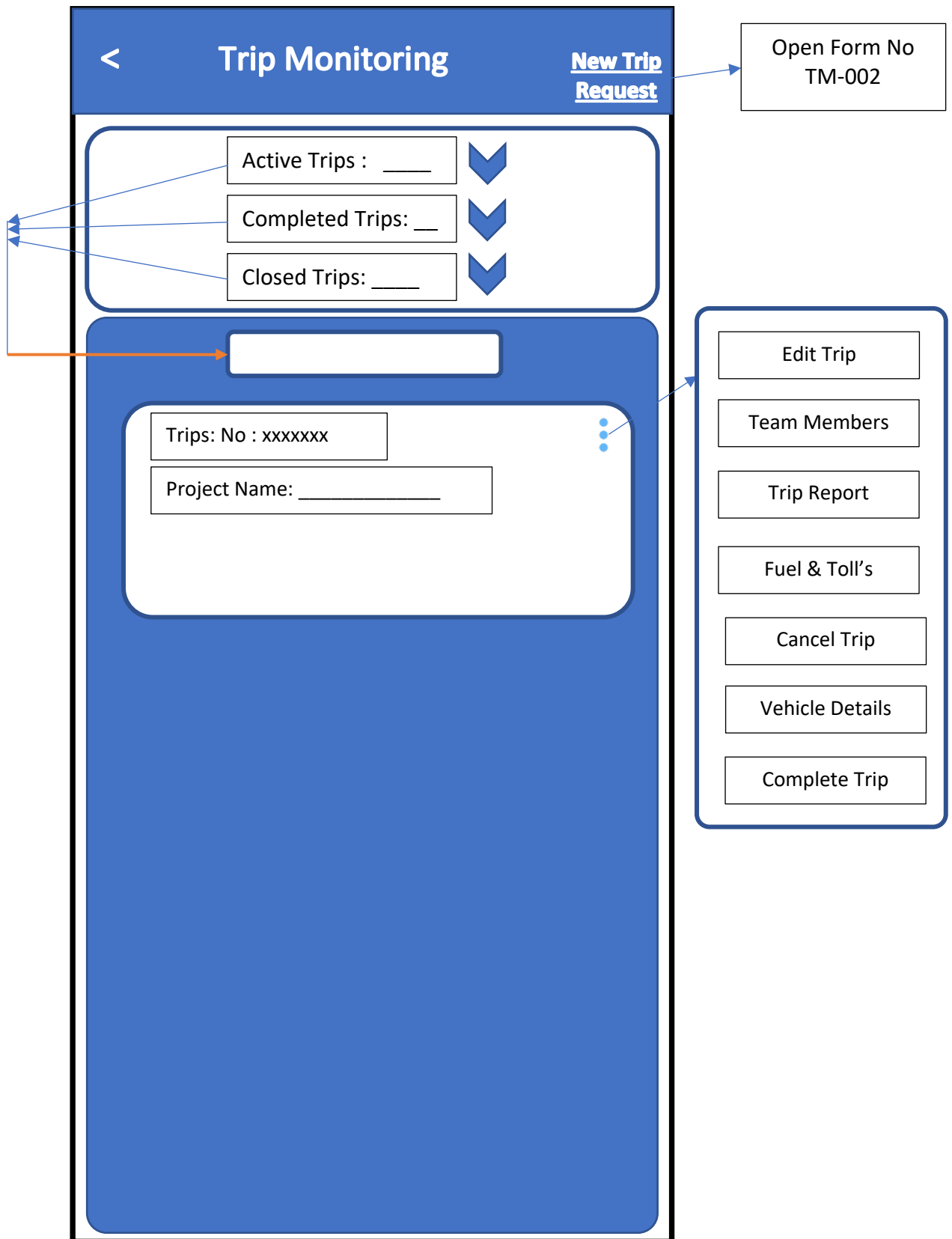
1. Web panel dashboard for the management to monitor daily activities & AI enable data monitoring system.
2. Android mobile app for the stockholders
 - A. MANAGEMENT
 - B. PROJECT MANAGER
 - C. TRANSPORT MANAGER
 - D. TEAM EMPLOYEES
 - E. VEHICLE DRIVER
3. Project manager will generate "Trip Request" against the project for the Transport Manager.
4. Trip may be for some hours / single day / with from & to dates.
5. Transport Manager will acknowledge the Trip Request & allocate the vehicle for this trip request.
6. Vehicle allotment notification will be given to the Project manager & SMS to the Team of employees who are going to use that vehicle with the trip OTP .
7. Multiple vehicles can be allocated in one trip in one day so same trip OTP will be used for all the linked vehicles.
8. System is capable to manage the rented vehicles & company owned vehicles.
9. System will be designed in three area's
 - A. Configuration
 - B. Operations
 - C. Monitoring & reports
10. Trip start , Day start KM Day End KM will be done by the vehicle driver / any one team of employee's (specially leader defined by Project Manager) after the trip OTP verification. If the vehicle is rented one then team leader will do the trip start & enter the Day start KM , Day End KM .

11. Trip Terminate , Trip End process will be done by the Project manager or Transport manager.
12. Mobile app system will monitor the trip start point & day start & day end points.
13. Vehicle driver / member of the employee team will enter the fuel refilling details with the pic of the slip issued by the petrol pump / CNG pump.
14. At the backhand we can design the Machine language (ML) model for the smart monitoring with the help of the data captured under the above defined processes.
15. Project manager will know the amount of fuel expenses done under one project assignment.
16. We have planned the Report section & Smart predictive analysis tool for the management with monthly review report & if needed then in future we will introduce & design the “Eagle Eye” Concept in the system for better transparency.





Form TM-001
"Project Manager Trip Management"



The screenshot shows the 'Trip Monitoring' app interface. At the top, there is a blue header bar with a back arrow, the title 'Trip Monitoring', and a link 'New Trip Request'. Below the header, there is a white box containing three trip status filters: 'Active Trips : ____', 'Completed Trips: __', and 'Closed Trips: ____', each with a blue downward arrow. To the right of the app, a callout box points to the 'New Trip Request' link with the text 'Open Form No TM-002'. Below the filters, there is a white box with a search bar and two input fields: 'Trips: No : xxxxxxx' and 'Project Name: ____'. To the right of the app, a vertical menu contains buttons for 'Edit Trip', 'Team Members', 'Trip Report', 'Fuel & Toll's', 'Cancel Trip', 'Vehicle Details', and 'Complete Trip'. An orange arrow points from the search bar to the left, and a blue arrow points from the menu to the app.

Trip Monitoring [New Trip Request](#)

Active Trips : ____

Completed Trips: __

Closed Trips: ____

Trips: No : xxxxxxx

Project Name: ____

Edit Trip

Team Members

Trip Report

Fuel & Toll's

Cancel Trip

Vehicle Details

Complete Trip

Open Form No TM-002


Form TM-002
"Project Manager initiate new Trip"

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Initiate New Trip

Enter Project Name: _____

No of Team Members:




Team Members

1.	_____	<input type="checkbox"/> Leader
2.	_____	<input type="checkbox"/> Leader
3.	_____	<input type="checkbox"/> Leader

Trip Details

For the Period of:



[For multiple days](#)

Please select 01
option

For Hour's
For Multiple days

For one day

Select trip Date :-12/07/2024

Select Start Time:-09:30 AM

Select End Time:-09:30 AM

No of Vehicle Required:-

↓

Enter the Location :-

For multiple days

Select trip start Date

12/07/2024

Select trip start Date

13/07/2024

1st Date :-

12/07/2024

No of Vehicle Required:-

↓

Select Start Time:-

09:30 AM

Enter start city

Enter start location:

2nd Date :-

13/07/2024

No of Vehicle Required:-

↓

Select Start Time:-

09:30 AM

Enter start city

Enter start location:

Confidential

Form TM-003
"confirm"

<

Confirm The Trip

Generate the Trip Request

Form TM-003 "Transport Manager"

<

Transport Trips

Pending Trip Request: 05
▼

Active Trips Request: 34
▼

Closed Travel Trip: 139
▼

Trips: No : xxxxxxxx
⋮

Project Name: Satara Highway

Project Manager: Mr. Ramakant

Team Members

Start the Day

Start the Day

Allocate Vehicle

Revoke Vehicle

Trip Status

Trip Detail Report

Cancel Trip

Close the trip

Team Member's

Name	Mobile No	X
Name	Mobile No	X
Name	Mobile No	X
Name	Mobile No	X

Trip Status

Requested	●	01/07/24. 10:30 AM
Approved	●	01/07/24 03:30 PM
Vehicle allocated	●	05/07/24 10:40 AM
Trip Started	●	10/07/24 11:00 AM
Trip Closed	●	12/07/24 05:30 PM
Trip completed	●	14/07/24 04:36 PM

Form TM-004 “Vehicle & Driver Management ”

<
Vehicle & Driver Management

Add Company Vehicle
Add Hired Vehicle

Company Vehicles:
96
▼

Third party hired Vehicles:
23
▼

Removed Vehicles:
15
▼

Company Vehicles

Search by Vehicle No :
last 04 digit

Vehicle No :
Mh-12-LH-XXXX
⋮

Driver. Name :
Rajesh Jhadav

Total KM traveled :
43432

Total Fuel Paid :
Rs.48321.00 /-

Total Trip's :
23

Re Fueling

Open the Form of
The Third-party
vehicles.

Open the Form of
the New company
vehicle registration

Vehicle Details

Trip's Report's

complaints

Remove Vehicle

Change Driver

Fuel Details

Old Driver Details

Open Fuel filling
Form

Change Driver

Current Driver

Mr. Ram Sharan

New Driver

Enter Name

Select

New Driver Mobile

Enter Mobile no

Save

Old Driver Details

TM-005
Refuelling

< **Add Refueling Details**

Vehicle No: MH12- LH-XXXX

Select Date: _____

Select Tme: _____ PM

Enter Liters filled: _____

Enter Amount Paid : Rs. _____/-

Paid By



Paid via



Upload Paid Slip

Show upload file name

[Change](#)

Enter Filling Pump Address


HP Pump Swargate Near

Confirm this Refueling

Register New Vehicle

TM-006

A. Company owned Vehicle

 **Register Company Vehicle**

Enter Vehicle No : _____-_____-_____

Registered on Name : _____

Make & model: _____

Passenger Capacity:

-

6

+

City of Registration: _____

Insurance valid till: _____

Vehicle Driver: _____

Vehicle exclusively usage for:

Vehicle Category

Add New Category

☐ I am Confirming this vehicle is readily available for the trip booking's

Register this Vehicle

TM-007

B. Third Party Hired Vehicle

< Register Hired Vehicle

Enter Vehicle No : ____ - ____ - ____

Agency Name : _____

Make & model: _____

Passenger Capacity:

Vehicle Driver: _____

Provided for City : _____

☐

Register This vehicle for Future Operations

Register this Vehicle

TM-008
Re Fulling Detail

< **Previous Fuel Details**

Total No of Refilling's : 34

Total Amount : Rs. XXXXX.XX/-

Search:

Enter The keywords



Select Date & Time: DD/MM/YY HH:MM PM

Liters filled: xxx.xx

Paid Amount: Rs. xxx.xx

Paid By : Transport Manager

Via: UPI


Payment slip : dfwfsff.JPG

[View](#)

Filling Pump
Address

TM-009


Previous trip details

 **Previous Trip Details**

Total No of Trips : 34

Search:

Enter The keywords



Trips: No : xxxxxxx

Request Date: 10/06/24

Project Name: Satara Highway

Project Manager: Mr. Ramakant

From Date : 12/06/24

To Date : 12/06/24

Total KM : 213.6

Avg No of Vehicles: 02

Team Members

Fuel & Toll's

Trip Dates

Trip Report

TM-010

Allocate Vehicle / vehicles for the trip

<
Assign Vehicle For Trip

Trips: No : xxxxxxxx
Request Date: 10/06/24

Project Manager: Mr. Ramakant

From Date : 12/06/24 Time :

To Date : 12/06/24. Time:

From Date: 12/06/24 Time:

☐ 1st Vehicle
xxxx-xxxx
Select Vehicle

☐ 2nd Vehicle
xxxx-xxxx
Select Vehicle

Confirm & Save the Allotment

If it's multiple days Trip then on click of this same vehicle will be allocated in the remaining dates as a first vehicle

Open the POP UP to select the vehicle

Select Vehicle

☒ Own Vehicle
☐ Hired Vehicle

Select the vehicle

Allocate Vehicle

Select Vehicle

☐ Own Vehicle
☒ Hired Vehicle

Select the vehicle
Add New

Driver Name

Driver Mobile no

Allocate Vehicle

TM-011**Revoke Vehicle / vehicles from the trip****< Revoke Vehicle in the Trip**

Trips: No : xxxxxxxx

Request Date: 10/06/24

Project Manager: Mr. Ramakant

From Date : 12/06/24 Time :

To Date : 12/06/24. Time:

From Date: 12/06/24 Time:

1st Vehicle

xxxx-xxxx

[Revoke](#)2nd Vehicle

xxxx-xxxx

[Revoke](#)**Confirm & Save the Allotment**

TM-012
Monthly calendar for Vehicle Availability
For Transport Manager

< Vehicle Availability Calendar

Select the vehicle

APRIL 2024						
SUN	MON	TUE	WED	THU	FRI	SAT
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22 <small>Pesach: Begins at Sunset Earth Day</small>	23	24	25	26	27
28	29	30				

MAY 2024						
SUN	MON	TUE	WED	THU	FRI	SAT
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19 <small>Mother's Day</small>	20	21	22	23	24	25
26	27 <small>Memorial Day</small>	28	29	30	31	

JUNE 2024						
SUN	MON	TUE	WED	THU	FRI	SAT
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23 <small>Father's Day</small>	24	25	26 <small>Juneteenth</small>	27 <small>First Day of Summer</small>	28	29
30						

Kindly show
current month

Kindly start from
today's date & in
future dates

Process to Start the Trip till the end the trip

TM-013

For the Company Vehicle Drivers / Team leader in case of the hired vehicle

<
Trip start / Trip End

Selected Trip No : _____
Req. Date: 10/06/24

Project Manager: Mr. Ramakant

From Date: 12/08/24
To Date: 14/08/24

Allocated Vehicle: MH-12 -JR- 3474

Driver Name : _____
Mob: _____

REQ
APR
VA
TS
TC
Trip Completed

Date : _____

Start Time	XX:XX AM	KM Reading	XXXXXX
Stop Time	XX:XX AM	KM Reading	XXXXXX

Start

Stop

Date : _____

Start Time	XX:XX AM	KM Reading	XXXXXX
Stop Time	XX:XX AM	KM Reading	XXXXXX

Start

Stop

Close This Trip

Open the POP Up to take the Stop Details

1. Stop time. (by default clock time if today's date match with date.
2. KM
3. Trip end location (GPS location like VOCOX) user can change as required

Close the Trip it's clickable for Transport Manager"

Same form can be opened by the Project manager, Tram Member, Driver with restrictions. If Trip status is "Closed". Then label will be Complete This Trip

TM-014