

Japan International Cooperation Agency (JICA)
Kingdom of Cambodia

**THE PROJECT FOR IMPROVEMENT
OF PUBLIC BUS OPERATION
IN PHNOM PENH**

TECHNICAL PRODUCT 1

**MANUAL ON
BUS OPERATION AND MANAGEMENT SYSTEM**

SEPTEMBER 2022



City bus authority

Kingdom of Cambodia

Nation Religion King

Bus Operation Management System User's manual

Project for Improvement of Public Bus Operation in Phnom Penh (PiBO)

Revision History

Date	Version	Description	Editor
Jul 28, 2022	1.0	First Version	PiBO Team

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I. Overview

- This user manual is a document for operating the Bus Operation Management System (BOMS).

1. Purpose of this document

This manual describes the roles and operations of the Bus Operation Management system (BOMS) as an operation manager/operator in charge of the bus management.

2. Pre-Conditions and system requirement

- To perform the operations described in this document, it is required to have system access permissions.
- To access BOMS: <http://ppcitybus.com/login>, an Internet connection is required.
- This manual was created in Google Chrome environment.

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II. Login to the System

■ An individual's username and password are required to login to the system.

The screenshot shows a web browser at the URL <http://ppcitybus.com/login>. The page title is "Bus Operation Management System". The login form includes fields for "Email or Username" and "Password", a language dropdown menu currently set to "English", a "Remember me?" checkbox, and a "Log In" button. A "Welcome back! Please login to your account." message is displayed above the form.

1. After opening a web browser, enter the BOMS URL to display the login screen.
2. Enter your username and password on the login screen.
3. Click the "Log In" button.

Additional callouts include:

- ✓ Language can choose to the other language
- Click on Remember me ? is mean that password and username will be saved

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III. Dashboard

■ The dashboard screen provides visual results of each route operation up to the previous day.

The dashboard displays various metrics for a specific date (07/19/2022) and line (LA). Key sections include:

- Fleet Efficiency:** 82% (Total bus fleet: 12, Total in operation buses: 117, Total operation buses: 143).
- First Bus and Last Bus:**
 - Direction 1: 08:31 AM (Departure interval: 10 min)
 - Direction 2: 09:34 AM (Departure interval: 10 min)
- Max./Min./Average Travel time:**
 - 109 min (Max. travel time)
 - 56 min (Min. travel time)
 - 80 min (Avg. travel time)
- Waiting Time/Direction 1 & 2:** Two line graphs showing waiting times over time. Direction 1 has intervals of 29 min, 1 min, and 16 min. Direction 2 has intervals of 44 min, 4 min, and 17 min.
- Summary Statistics:**
 - Total Riders: 419
 - Total Vehicle: 235
 - Bus Number: 39, Stop: 362, RTV's Date: 3, Precedent Start: 10, 1
 - Op. Operation: 178, Meter Operation: 57

1. Select the date and line, then click the "Load" button.

Additional callouts include:

- ✓ The following information is available
 - ✓ Fleet Efficiency
 - ✓ Departure time of the first bus and arrival time of the last bus
 - ✓ Travel time per trip (Max/Min/average)
 - ✓ Bus departure interval time

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IV. Operation – Basic (Open)

- The Operation-Basic screen confirms registration, confirmation, and editing of the daily bus operation schedule.

1. Move the mouse cursor over Operation from the menu above and click on the "Basic" button.

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IV. Operation – Basic (Search Operation Schedule)

- The Operation-Basic screen confirms registration, confirmation, and editing of the daily bus operation schedule.

1. It is displayed by clicking on either "Operation Today" or "All Operation".

2. Select the date, route, and shift for which to display the operation schedule.

3. Click the "Load" button to display the operation schedule.

✓ The searched operation schedule is displayed.

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IV. Operation – Basic (Display, modify, delete)

- The bus schedule displays, edits, and deletes of operation information.

✓ Click on the **Driver ID** to view driver information.

✓ Click on **shift number**. Individual of driver schedule information will be indicated.

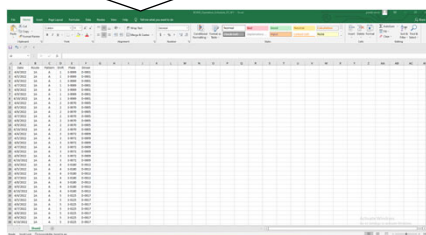
✓ Click the "Edit" button to change the route, Shift, Driver ID, Pattern, Plate Number for an individual schedule.

Date	Route	Pattern	Shift	Plate Number	Driver ID	Action
2022-09-27	4A	B	5	3-0085	D-0104	View Edit
2022-09-27	4A	B	29	3-0085	D-0104	View Edit
2022-09-27	4A	B	38	3-0205	D-0103	View Edit
2022-09-27	4A	B	8	3-0205	D-0104	View Edit
2022-09-27	4A	A	22	3-0229	D-0108	View Edit
2022-09-27	4A	A	2	3-0229	D-0104	View Edit
2022-09-27	4A	A	21	3-0226	D-0104	View Edit
2022-09-27	4A	A	25	3-0230	D-0100	View Edit
2022-09-27	4A	A	5	3-0230	D-0108	View Edit

IV. Operation – Basic (Registration of operation schedule)

- The operation schedule is registered by creating registration data in Excel and using the import function.

CBA technical staff need to create the import file every month so as to import to the system.



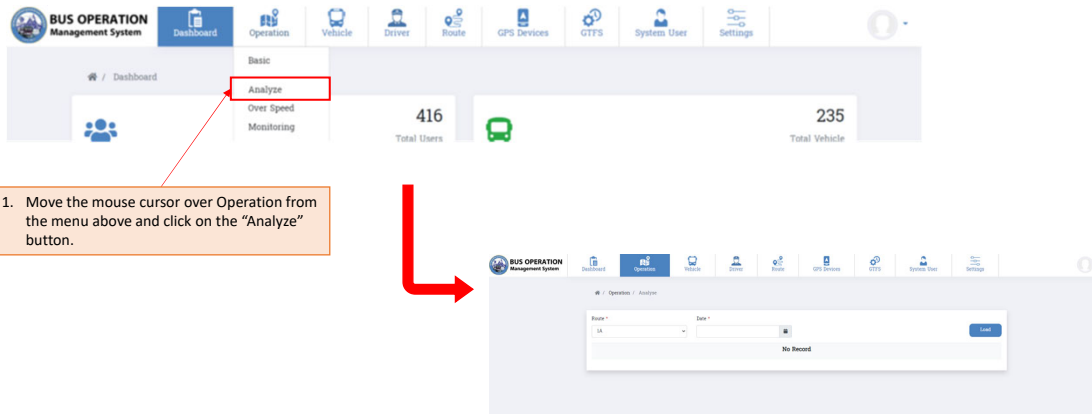
1. Click the "Import" button.

2. Select the file to be imported.



IV. Operation – Analyze (Open)

- The Analyze screen displays the planned and actual operational schedules.



1. Move the mouse cursor over Operation from the menu above and click on the "Analyze" button.

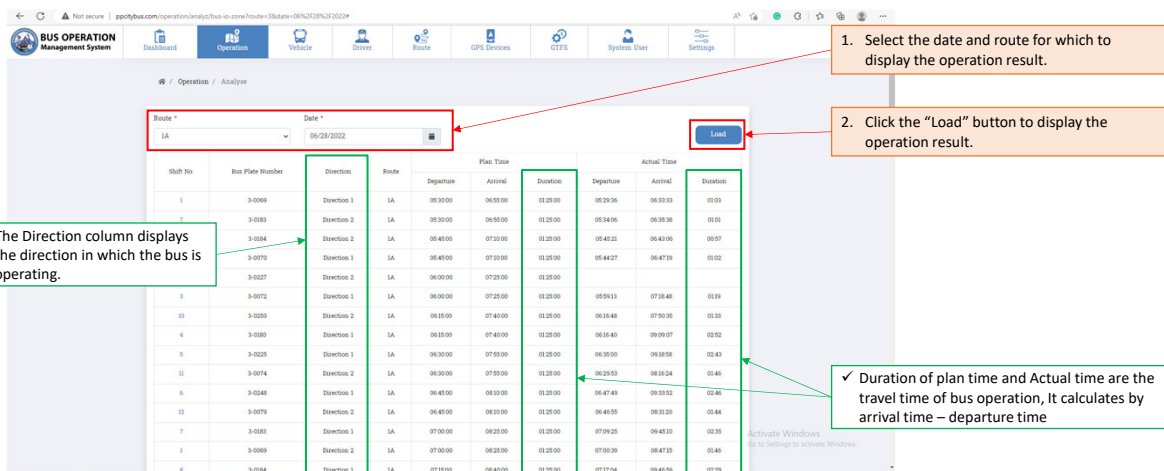
10

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IV. Operation – Analyze (Search)

- The operation results and summaries are displayed by date and route.

Comment
Replace the image when
the export button is added.



✓ The Direction column displays the direction in which the bus is operating.

1. Select the date and route for which to display the operation result.

2. Click the "Load" button to display the operation result.

✓ Duration of plan time and Actual time are the travel time of bus operation, It calculates by arrival time - departure time

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IV. Operation – Analyze (Search)

- Summarized information for the selected route and day is displayed at the bottom of the Analyze screen.

Summary of Bus Operations:

Total Bus	12	
Actual Total Bus	12	
Actual Average Time	01:31	
Total Trip	96	
Actual Total Trip	74	
Operation Ratio	79%	
Waiting Time	Direction 1	Direction 2
Max	01:50	02:00
Min	00:01	00:05
Avg	00:32	00:26

Table of Trips:

N	Plate Number	Plan Trip	Actual Trip	Max Travel Time	Min Travel Time	Avg Travel Time
1	3-0069	8	8	01:46	01:03	01:25
2	3-0183	8	8	02:35	01:01	01:27
3	3-0184	8	4	02:29	00:07	01:37
4	3-0070	8	8	01:38	01:02	01:20
5	3-0227	8				
6	3-0072	8	6	01:59	01:16	01:36
7	3-0200	8	6	02:25	02:08	01:39
8	3-0180	8	6	02:02	01:13	01:50
9	3-0225	8	6	02:43	01:09	01:36
10	3-0014	8	4	01:07	01:14	01:37

Callout 1: Summarized information for the entire route is displayed.

Callout 2: The number of trips and operating time totaled for each bus is displayed.

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IV. Operation – Overspeed (Open)

- The overspeed screen displays bus information when the speed limit of 60 km/h is violated during operation.

Navigation Step:

- Move the mouse cursor over Operation from the menu above and click on the "Over Speed" button.

Over Speed Yesterday Summary:

#	Plate Number	Over Speed	Average Speed	Number Of Points	Over Speed Duration	Date & Time	Action
1	ij 37-3-0122	95 KM/H	79.33 KM/H	9 Points	00:00:44	2022-07-07 10:40:45	Map Views History
2	ij 37-3-0105	63 KM/H	63.8 KM/H	5 Points	00:00:20	2022-07-07 07:39:52	Map Views History
3	ij 37-3-0121	66 KM/H	62.8 KM/H	5 Points	00:00:20	2022-07-07 09:49:35	Map Views History

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IV. Operation – Overs speed (Open)

- Confirmation of locations where the speed limit of 60 km/h has been violated and the history of such violations.

1. It is displayed by clicking on either "Yesterday" or "All".

2. Older information can be displayed by selecting the relevant date.

3. Click on the "Map Views" button to see the location of the overspeed.

#	Plate Number	Over Speed	Average Speed	Number Of Points	Over Speed Duration	Date & Time	Action
1	IG 37-3-0222	95 KM/H	79.33 KM/H	9 Points	00:00:44	2022-07-07 10:40:45	Map Views History
2	IG 37-3-0356	63 KM/H	63.8 KM/H	5 Points	00:00:29	2022-07-07 07:33:52	Map Views History
3	IG 37-3-0321	66 KM/H	62.8 KM/H	5 Points	00:00:29	2022-07-07 09:49:35	Map Views History

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IV. Operation – Monitoring (Open)

- The monitoring screen displays real-time bus operation status.

1. Move the mouse cursor over Operation from the menu above and click on the "Monitoring" button.

416 Total Users

235 Total Vehicle

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IV. Operation – Monitoring (Open)

- The overspeed screen displays bus information when the speed limit of 60 km/h is violated during operation.

The screenshot shows the BUS OPERATION Management System interface. The main area displays a map with various bus routes. A sidebar menu on the right contains the following options:

- Search Bus by Plate Number
- Options
- Alert
- Group:
 - China (98)
 - Japan (8)
- Display Bus By Route: All
- Display Bus Stop: Nothing selected
- Display Route: 1A, 1B, 2, 3, 4A, 4B, 4C, 5A, 6, 7, 8, 9, 11
- Display Traffic Jam: Enable Traffic
- GPS Disconnect: Display GPS Disconnect Only (27)

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V. Vehicle – Basic (Open)

- The Vehicle screen displays information on all buses owned by CBA.

The screenshot shows the BUS OPERATION Management System interface. The navigation menu is visible, with the 'Vehicle' button highlighted. A red arrow points from the 'Basic' button in the menu to the 'Vehicle Basic' screen. A text box contains the instruction: "1. Move the mouse cursor over Vehicle from the menu above and click on the 'Basic' button." The 'Vehicle Basic' screen displays a table with the following columns:

No.	Plate Number	Current Status	Route	Inspection Status	Maintenance Status	Operational Status	Total Mileage	Last PT Mileage	Next PT Mileage	Difference	Action
1	lg 27-3-0223	Decommission	Blank	Blank	Blank	Active	99,987	99,295	128,295	29,588	...
2	lg 27-3-0228	Decommission	Blank	Blank	Blank	Active	76,498	76,220	86,220	9,722	...
3	lg 27-3-0232	Decommission	Blank	Blank	Blank	Active	82,555	82,284	92,284	9,729	...
4	lg 27-3-0238	Decommission	Blank	Blank	Blank	Active	76,783	76,220	86,220	9,447	...
5	lg 27-3-0262	No Gas Device	Blank	Blank	Blank	Active	0	0	7,000	-7,000	...
6	lg 27-3-0262	No Gas Device	Blank	Blank	Blank	Inactive	0	0	7,000	-7,000	...
7	lg 27-3-0266	No Gas Device	Blank	Blank	Blank	Active	0	0	7,000	-7,000	...
8	lg 27-3-0269	No Gas Device	Blank	Blank	Blank	Inactive	0	0	7,000	-7,000	...
9	lg 27-3-0241	No Gas Device	Blank	Blank	Blank	Inactive	0	0	7,000	-7,000	...
10	lg 27-3-0254	No Gas Device	Blank	Blank	Blank	Inactive	0	0	7,000	-7,000	...

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V. Vehicle – Basic (periodic Inspection Input)

- Update information on each vehicle from this screen.

No.	Plate Number	Comm. Status	Route	Inspection Status	Malfunction Status	Status	Total Mileage	Last PI Mileage	Next PI Mileage	Difference	Action
1	ig 37-3-0227	Disconnect	Blank	None	None	Active	82,700	93,020	100,020	17,320	...
2	ig 37-3-0223	Disconnect	Blank	None	None	Active	99,687	119,295	126,295		...
3	ig 37-3-0228	Connect	Blank	None	None	Active	76,506	79,230	86,230		...
4	ig 37-3-0232	Disconnect	Blank	None	None	Active	55,555	65,284	72,284	-16,729	...
5	ig 37-3-0238	Disconnect	Blank	None	None	Active	76,783	78,230	85,230	-8,447	...
6	ig 37-3-0032	No Gps Device	Blank	None	None	Active	0	0	7,000	-7,000	...
7	ig 37-3-0032	No Gps Device	Blank	None	None	Inactive	0	795,978	797,978	-797,978	...

1. Click the "..." button in the "Action" column of each vehicle information.

2. Click the "Periodic Inspection" button from the pop-up menu.

V. Vehicle – Basic (periodic Inspection Input)

- The periodic screen provides entry and confirmation of periodic inspection information for each bus.

Date	Entry Time	Mileage	Mechanic Team	Date	Exit Time	Calculated Working Time	Actual Working Time	Action
2021-11-29	02:00	93020	AC team 1 (Mr. Naem)	2021-11-29	02:00	1h 0min	1h 00min	...
2021-01-04	14:00	91999	Mechanic team 1 (Mr. Trel)	2021-01-04	16:00	2h 0min	0h 20min	...
2020-09-08	15:00	91723	Mechanic team 2 (Mr. Hein)	2020-09-08	15:30	0h 30min	0h 30min	...

✓ Basic information about the selected bus is displayed.

1. Clicking on the "Check-In" button displays a screen for entering periodic inspection information.

✓ The periodic inspection history of the selected bus is displayed.

V. Vehicle – Basic (periodic Inspection Input)

Check In

2. Enter the date, time, vehicle mileage, and team of mechanics who will check in.

3. Click the "In" button.

4. Checked-in status (under inspection) is displayed.

Plate Number : iij 37-3-0227 Model : bus-model
 Introduction Date : 2019-04-12 Fuel Type : Diesel
 Total Mileage : 82700 Route :

Periodic Inspection				Periodic Items				
IN				OUT				
Date	Entry Time	Mileage	Mechanic Team	Date	Exit Time	Calculated Working Time	Actual Working Time	Action
2022-08-05	10:02	82700	Mechanic team 1 (Mr. Trel)	Check Out				...
2021-11-29	02:00	93020	AC team 1 (Mr. Naem)	2021-11-29	03:00	1h 0min	1h 00min	...

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V. Vehicle – Basic (periodic Inspection Input)

5. Click the "Check Out" button when the periodic inspection is complete.

6. Enter the date, time, and duration of work for which the periodic inspection was completed.

7. Click the "Out" button.

Plate Number : iij 37-3-0227 Model : bus-model
 Introduction Date : 2019-04-12 Fuel Type : Diesel
 Total Mileage : 82700 Route :

Periodic Inspection				Periodic Items				
IN				OUT				
Date	Entry Time	Mileage	Mechanic Team	Date	Exit Time	Calculated Working Time	Actual Working Time	Action
2022-08-05	10:02	82700	Mechanic team 1 (Mr. Trel)	Check Out				...
2021-11-29	02:00	93020	AC team 1 (Mr. Naem)	2021-11-29	03:00	1h 0min	1h 00min	...

Check Out

6. Enter the date, time, and duration of work for which the periodic inspection was completed.

7. Click the "Out" button.

Date * 08/05/2022 Exit Time * 10:14 Actual Working Time * 00:00

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V. Vehicle – Basic (periodic Inspection Edit)

Periodic Inspection

Periodic Items

Check In

IN				OUT				
Date	Entry Time	Mileage	Mechanic Team	Date	Exit Time	Calculated Working Time	Actual Working Time	Action
2022-08-05	10:02	82700	Mechanic team 1 (Mr. Trel)	2022-08-05	10:14	0h 12min	1h 00min	...
2021-11-29	02:00	93020	AC team 1 (Mr. Naem)	2021-11-29	03:00	1h 0min	1h 00r	<input checked="" type="checkbox"/> Edit <input type="checkbox"/> Delete

8. Click the "Edit" button to modify the information already entered.

Check In

Date * 08/05/2022

Entry Time * 10:02

Mileage * 82700

Mechanic Team * Mechanic team 1 (Mr. Trel)

Check Out

Date * 08/05/2022

Exit Time * 10:14

Actual Working Time * 1.00

9. Modify the information on the item.

10. Click the "Update" button to reflect the modifications.

Update

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IV. Vehicle- Maintenance Report (Report Type)

There are 4 report types in Maintenance report

- Periodic Inspection
- Repaired
- Mechanic
- Under Repair

Click on **report type** to select on type of report, and then click on **Load**

Each type of report can export to excel file.

Report Type *

Vehicle Type

End Date *

2022-07-31

Load

Export

Route	Model	Reg No.	Date	Mileage	
1A	Isar-model	sg 373-0234	2022-04-06 15:15	2022-04-06 15:15	68,822

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IV. Vehicle- Vehicle Group

Click on **Vehicle group option** to look for the sort of bus and number of bus also.

If CBA has other fund support to enter other bus from other organization. Therefore, Click on **Add New option** and choose the appropriate color and fill the description as other bus.

No.	Name	Color	Description	Action
1	Japan	Yellow	Fund of Japan	View Edit Delete
2	China	Green	Fund of China	View Edit Delete

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V. Driver- Basic

Click on **Driver option** → **Basic**. There are many information concern with driver information such as Driver Name, Driver ID, Phone number, and so on. If you want to export driver information click on **Export option**. It will provide the excel file.

If you want to delete on which driver, Click on **Delete Option**

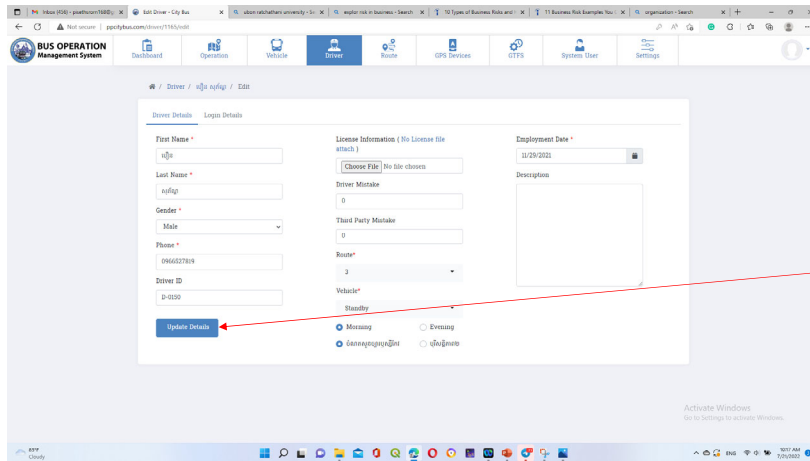
If you want to view driver information, Click on **View Option**

No.	Driver Name	Driver ID	Driver Phone	Driver Username	License Information	Driver Minus	Third Party Minus	Employment Date	Action
1	លីន អ៊ុយស៊ី	D-0150	0966527819	D-0150	No License file attach	0	0	29/11/2021	View Edit Delete
2	អ៊ុយ ធី	D6-438	012502894	D093	No License file attach	0	0	29/11/2021	View Edit Delete
3	លីន អ៊ុយស៊ី	D6-436	012	D091	No License file attach	0	0	29/11/2021	View Edit Delete
4	លីន អ៊ុយស៊ី	D-0162	099996613	D-0162	No License file attach	0	0	28/12/2020	View Edit Delete
5	លីន អ៊ុយស៊ី	DT5-978	000	Sikhsin	No License file attach	0	0	28/12/2020	View Edit Delete
6	លីន អ៊ុយស៊ី	DT5-088	000	Busheng	No License file attach	0	0	28/12/2020	View Edit Delete
7	លីន អ៊ុយស៊ី	DT5-087	000	Sikhsin	No License file attach	0	0	28/12/2020	View Edit Delete
8	លីន អ៊ុយស៊ី	DT5-090	000	Kimleang	No License file attach	0	0	28/12/2020	View Edit Delete
9	លីន អ៊ុយស៊ី	DT5-089	010497870	Imkong	No License file attach	0	0	15/02/2020	View Edit Delete

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V. Driver- Basic (Edit)

If CBA need to update driver information click on **View** **Edit** **Delete** It will be indicated as below.



Click on **Update Detail** option when all information of driver already updated.

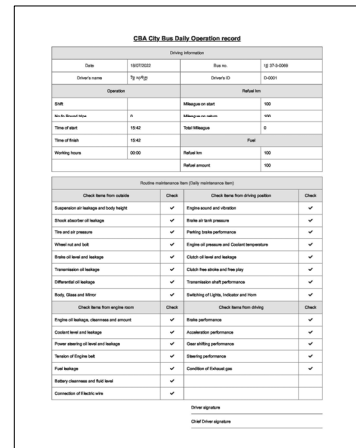
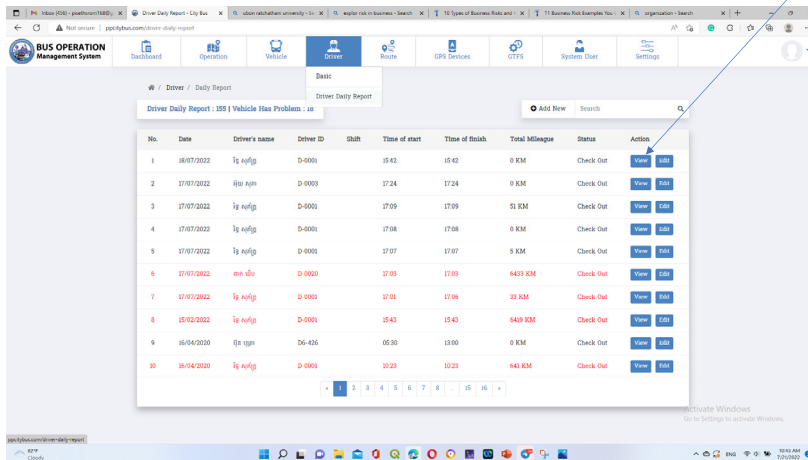
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a. Driver- Driver Daily Report

Click on **Driver Daily Report Option** to look for information of driver who check out the bus at bus garages at CBA. And Click on **Add New option** if there are other bus need to check out.

Click on **View Option** to check report of bus check out as below.



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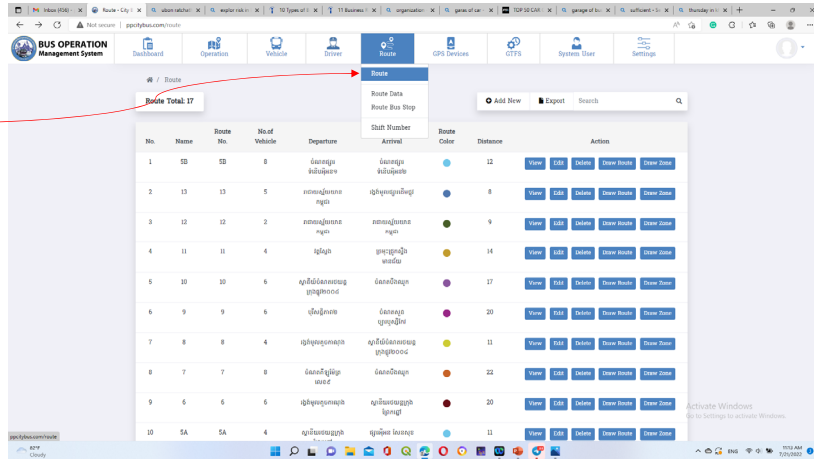
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VII. Route

Route option is indicated concerning with bus route information. There are 4 options in Route such as:

- Route
- Route data
- Route bus stop
- Shift number

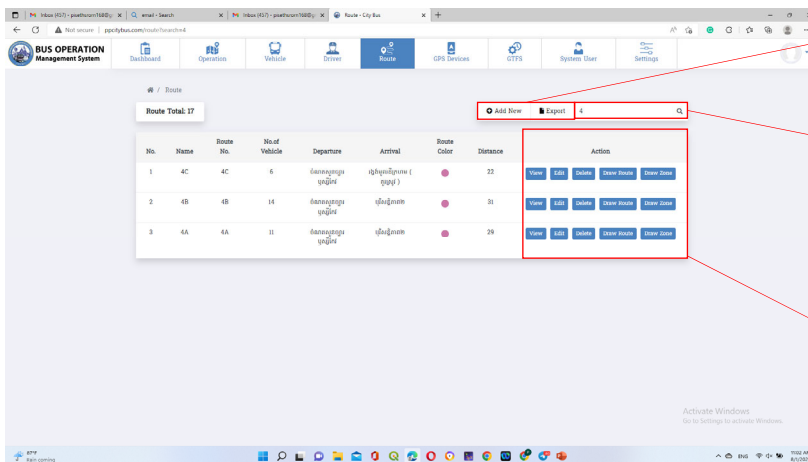
Click on **Route option**, so it will show information of bus route such name, route number, number of vehicle, Departure from terminal and arrival at terminal, route color, distance, and action. Let detail **Action option**



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VII. Route- Search



Click on “**Add New Option**” to add further information of bus operation, and Click on **Export Option** to export data to CSV file.

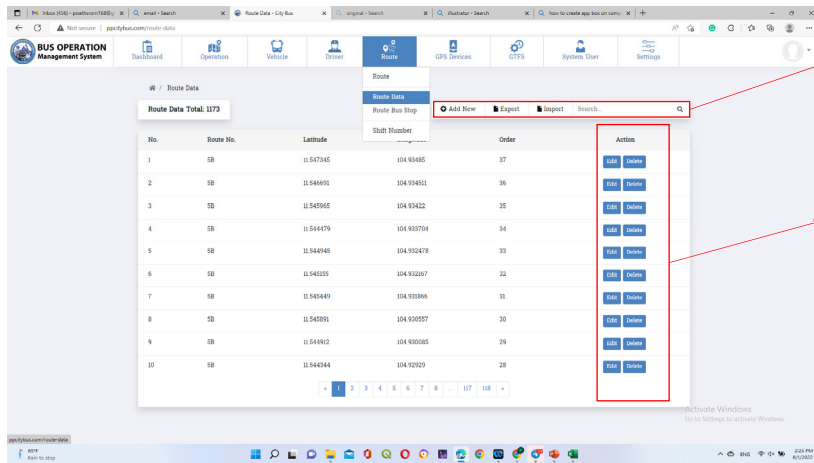
If you want to select on which routes. Enter number of route and click on **search button**.

Click on “**View Button**” to check the detail information of bus route.
 Click on “**Edit Button**” to Edit the information of bus route.
 Click on “**Delete Button**” Which route need to delete.
 Click on “**Draw Route Button**” to change direction of route or draw other route.
 Click on “**Draw Zone Button**” to change location of geofence or location of bus stop.

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VII. Route- Route Data



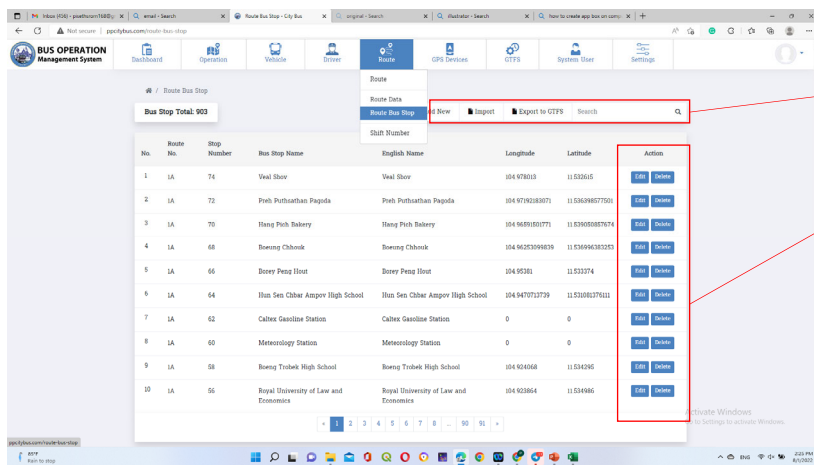
Click on "**Edit Option**" to edit information.
Click on "**Delete option**" to delete information.

Click on "**Add New Option**" to Coordinate of bus route, respectively.
Click on "**Import Option**" to import the new data of bus route.
Click on "**Export Option**" to export data from system as well as choose of which route and click on search.

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VII. Route- Route Bus Stop



Click on "**Add New Option**" to add more information about bus location, bus stop name, coordination.

Click on "**Edit or Delete option**" to edit and delete information.

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VII. Route- Shift Number

Click on "**View Trips Option**" to indicate the individual schedule of each driver by shift number.

No.	Shift Number	Route	Action
1	101	1B	View Trips Edit Delete
2	1	4A	View Trips Edit Delete
3	2	4A	View Trips Edit Delete
4	3	4A	View Trips Edit Delete
5	4	4A	View Trips Edit Delete
6		3	View Trips Edit Delete
7		2	View Trips Edit Delete
8		2	View Trips Edit Delete
9		2	View Trips Edit Delete
10		2	View Trips Edit Delete

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VIII. GPS Devices

- The GPS screen is indicated both GPS connection allude to black color and GPS disconnection allude to red color.

Click on "**Add New Option**" to add new GPS device.
Click on "**Export All Option**". All GPS data will receive an excel file "Gps.xlsx"

Click on "**View Option**" to check the GPS information.
Click on "**Edit Option**" to Edit GPS information.
Click on "**delete Option**" to delete GPS information.

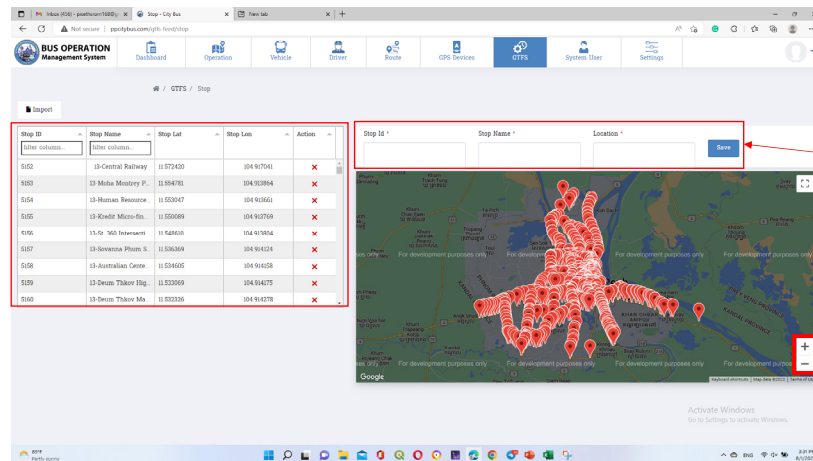
Click on "**Export Only Disconnect option**". All GPS data will indicate disconnect data in excel file only.

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IX. GTFs-Stop

- The GTFs Screen plays in importance role to display all bus stop location and bus stop information such as Bus Stop ID , Bus Stop Name, Coordinate of bus stop.



Set and Enter “ **Bus Stop ID, Stop name, and Location**”, and then, Click on “**Save Button**” to save location of bus stop.

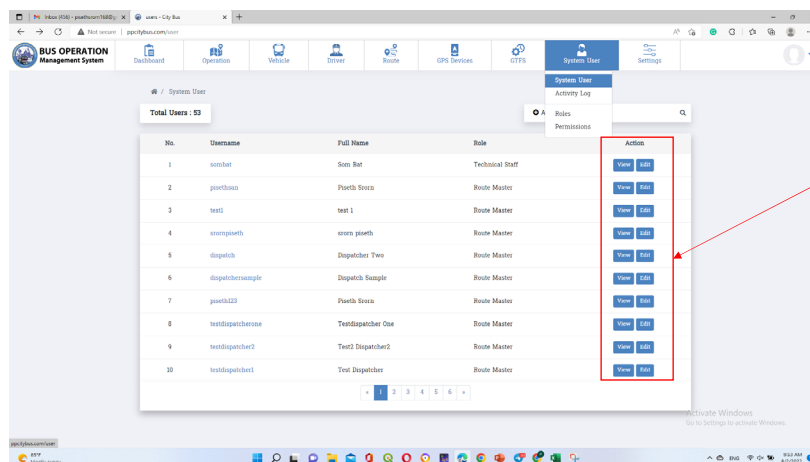
Zoom in and Zoom out in the google as the figure to check bus stop location.

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X. System user

- The system user display user name, Full name, and Role information after some one is created new user in the system.



Click on “ **View Button** ” to view user information.
Click on “ **Edit Button** ” to edit user information

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X. System user- Add New User

- The system user display user name in the first screen after adding new user.

Enter "First name"

Enter "Last name"

Click on "First name" to choose Male or Female

Enter "Phone number"

Enter "Driver ID"

Enter "Email"

Enter "User name"

Click on "Save Bottom" to save user information

Click on "Role" to choose role of user such as Admin, Route Master or Technical.

Enter "New Password"

Enter "Confirm Password"

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X. System user- Activity Log

- The Activity Log shows all activity of user such User name, user log time, message log in and log out and IP address

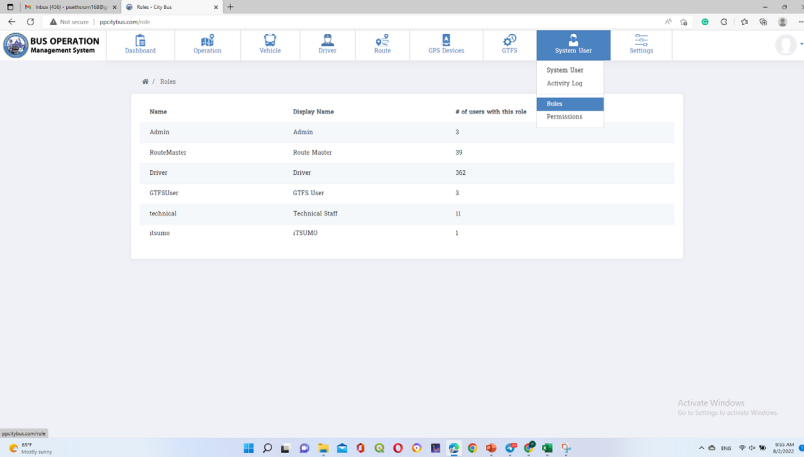
User	IP Address	Message	Log Time	More Info
City Bus Authority	10.0.1.21	Logged in.	2022-08-02 at 09:31 AM	●
City Bus Authority	10.0.1.21	Logged in.	2022-08-02 at 09:26 AM	●
City Bus Authority	10.0.1.21	Logged out.	2022-08-02 at 09:26 AM	●
City Bus Authority	10.0.1.21	Logged in.	2022-08-02 at 09:03 AM	●
City Bus Authority	10.0.1.21	Logged in.	2022-08-02 at 09:02 AM	●
City Bus Authority	10.0.1.21	Logged in.	2022-08-02 at 08:58 AM	●
City Bus Authority	10.0.1.21	Logged in.	2022-08-02 at 08:48 AM	●
City Bus Authority	10.0.1.21	Logged in.	2022-08-02 at 08:41 AM	●
Mt. Ito	10.0.1.21	Logged in.	2022-08-01 at 09:46 PM	●
City Bus Authority	10.0.1.21	Logged in.	2022-08-01 at 02:16 PM	●
City Bus Authority	10.0.1.21	Logged in.	2022-08-01 at 01:58 PM	●
Mt. Ito	10.0.1.21	Logged in.	2022-08-01 at 01:05 PM	●
City Bus Authority	10.0.1.21	Logged in.	2022-08-01 at 12:39 PM	●

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X. System user- Role

- The role screen display number of user, and name of user such as Admin, Route master, Driver, GTFs User, Technical and so on.



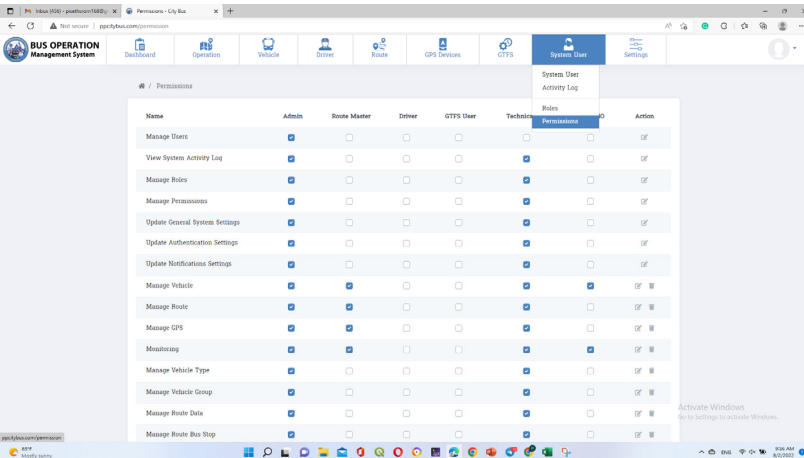
Name	Display Name	# of users with this role
Admin	Admin	3
RouteMaster	Route Master	99
Driver	Driver	362
GTFUser	GTFs User	3
technical	Technical Staff	11
itshouse	ITSHOUBD	1

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X. System User- Permission

- The permissions screen display of what all role should permit to appear in the system



Name	Admin	Route Master	Driver	GTFs User	Technical	Action
Manage Users	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	GF
View System Activity Log	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	GF
Manage Roles	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	GF
Manage Permissions	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	GF
Update General System Settings	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GF
Update Authentication Settings	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GF
Update Notifications Settings	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GF
Message Vehicle	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GF W
Message Route	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GF W
Message GPS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GF W
Monitoring	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GF W
Manage Vehicle Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GF W
Message Vehicle Group	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GF W
Message Route Data	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GF W
Message Route Bus Stop	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GF W

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