
FRS DEVICE INSTALLATION AND CONFIGURATION

PROCEDURE

Vendor Name:	Godrej and Boyce Mfg. Co. Ltd.	Document No	IOWMS/SOP/1
Contract No:	GEM/2023/B/4123905	Revision No	0
Contract Date:	7th June 2024	DPate	

IOWMS

PROCEDURE: FRS Device Configuration and Installation



Contents

1. Document Purpose.....	3
2. Installation Procedure:.....	3
2.1 FRS Integration with Turnstile/Barrier:	3
2.2 FRS Mounting	4
3. FRS Configuration:	4
3.1 Setting Up of FRS Device	4
3.2 Configuration Settings	4
3.3 MAC ID Binding:.....	14

Vendor Name:	Godrej and Boyce Mfg. Co. Ltd.	Document No	IOWMS/SOP/1
Contract No:	GEM/2023/B/4123905	Revision No	0
Contract Date:	7th June 2024	DPate	

1. Document Purpose

This document outlines the detailed procedure for FRS device configuration, its installation and integration with Turnstile/Barrier system.

2. Installation Procedure:

2.1 FRS Integration with Turnstile/Barrier:

Kindly make the jumper settings as shown in the following figure, i.e., SW1700 in Power On position. Connect the 7-pin connector and 5-pin connector to J1901 and J1902 respectively on the mainboard. Once above jumper settings and connector connections are proper, then proceed to the actual wiring connections for Turnstile Actuation and Feedback looping

a. Turnstile Actuation:

Connect NO and COM of Lock1 from the 7-pin connector to the Turnstile Entry Actuation Circuit. This connection will operate the turnstile on successful authentication of an associate.

b. Feedback Looping:

Similarly, for monitoring the feedback from turnstile on successful authentication, kindly connect the two wires from turnstile relay output to DM0 and GND of the 5-pin connector.

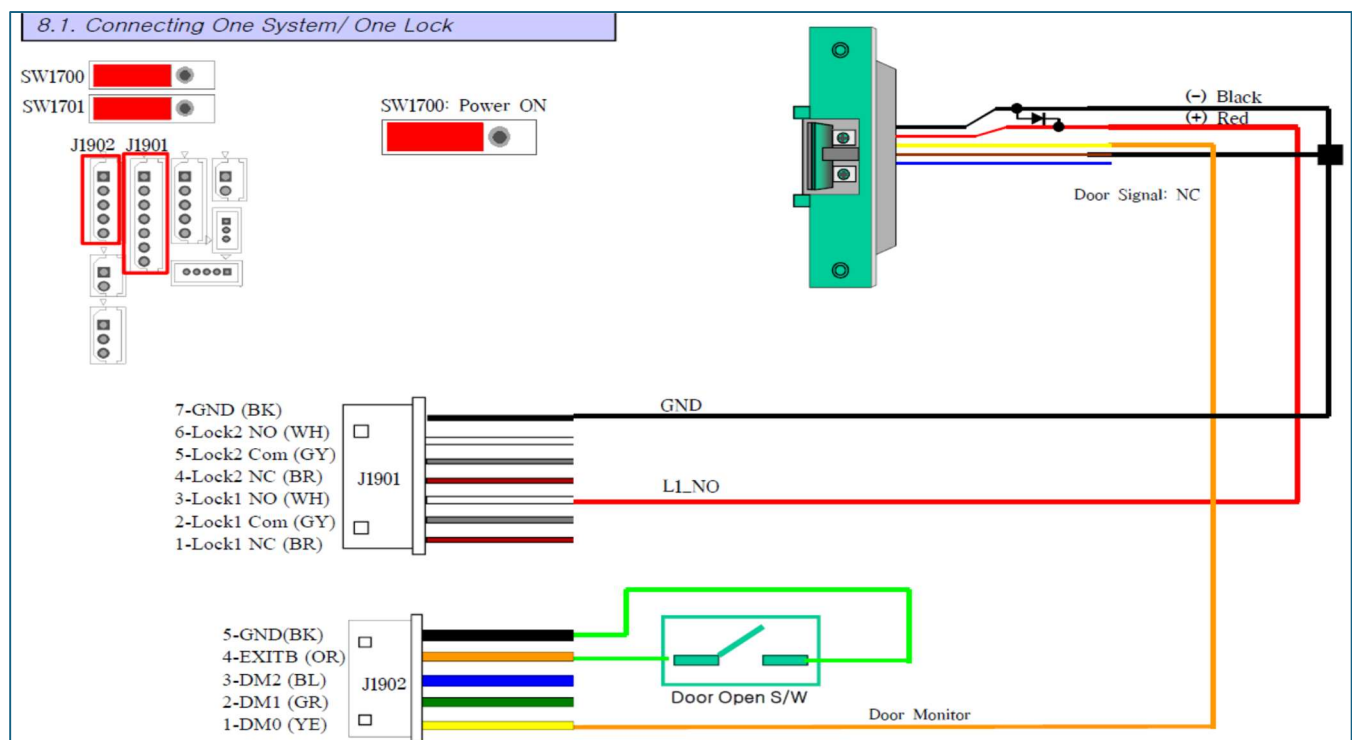


Figure 1

Vendor Name:	Godrej and Boyce Mfg. Co. Ltd.	Document No	IOWMS/SOP/1
Contract No:	GEM/2023/B/4123905	Revision No	0
Contract Date:	7th June 2024	DPate	

2.2 FRS Mounting

- Mount the FRS device on a mounting plate which is attached to a mounting pole, as shown in the Figure 2.
- The mounting pole is mounted on top of the Tripod Turnstile to get suitable height.
- The height of the mounting pole can be adjusted from 1155mm to 1300mm from top of the turnstile.
- The mounting angle of the FRS reader can be adjusted from -45° to $+45^{\circ}$ from the central axis suitable with site conditions.
- Once all the above mounting arrangements are done, then FRS reader is fixed to the mounting plate and the cables are left inside the mounting pole, for making connection with the Tripod Turnstile.
- All FRS units on any Turnstile must be maintained at same height throughout the site at all gates.

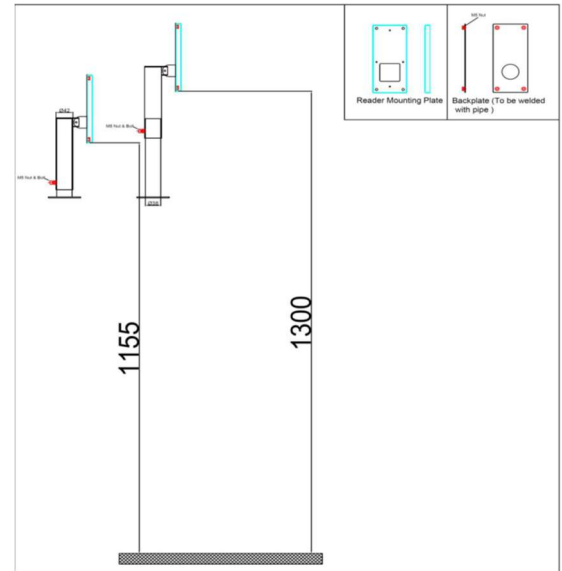



Figure 2

3. FRS Configuration:

3.1 Setting Up of FRS Device

- On receiving new device, Godrej Service Engineer will power on the device and configure the new device with assigned Terminal ID by Godrej HO for that location without putting it on the network. For this go to menu and then tap network. 
- Godrej Service Engineer will connect the device with Mobile Hotspot before installing it on Turnstile and ensure that device is handshaking with ALPETA Server.
- Godrej team will assign the Access Group and terminal ID from backend basis the respective installation site.
- Godrej Team will assign Admin Id and Password for will be assigned from backend to unauthorized access to Settings menu.

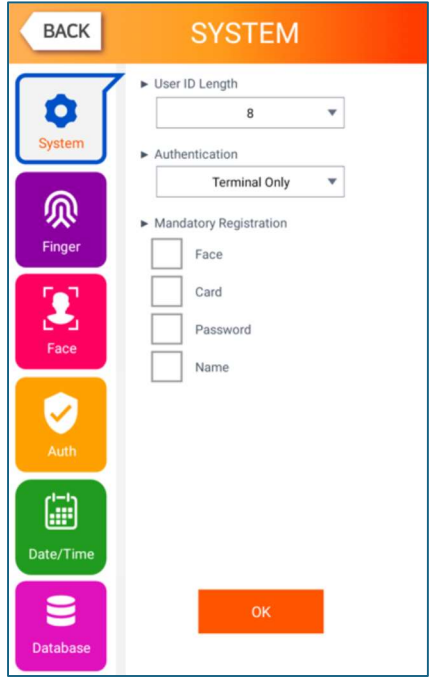
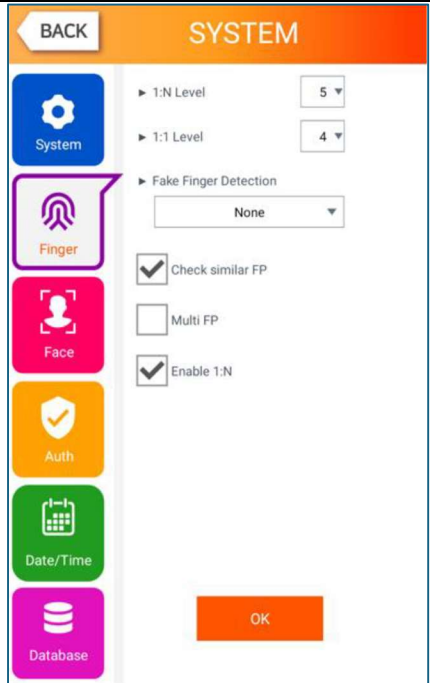
3.2 Configuration Settings

Under Setting menu of FRS device following setting to be maintained under different sub menu

- System Settings
- Display Settings
- Terminal Settings
- Network Settings

Vendor Name:	Godrej and Boyce Mfg. Co. Ltd.	Document No	IOWMS/SOP/1
Contract No:	GEM/2023/B/4123905	Revision No	0
Contract Date:	7th June 2024	DPate	

a. System Settings

Settings	Screen
1. System a. User ID Length: 8 b. Authentication: Terminal only c. Mandatory Registration: To be left unchecked	
2. Finger Sensitivity Levels a. 1:N Level - 5 b. 1:1 Level - 4 Other Finger Settings c. Fake Finger Detection: None d. FP Template Format: Union e. Check Similar FP: Checked f. Multi FP: Unchecked g. Enable 1:N: Checked	

Vendor Name:	Godrej and Boyce Mfg. Co. Ltd.	Document No	IOWMS/SOP/1
Contract No:	GEM/2023/B/4123905	Revision No	0
Contract Date:	7th June 2024	DPate	

3. Face

- a. Verified Distance: ~0.9meter
- b. Mask Detection: None
- c. AE Flicker Frequency: 60
- d. AE Mode: Full
- e. Anti Spoofing: Checked
- f. Enable LED Lighting: Checked
- g. Multi Face Detection: Unchecked

**4. Auth:**

- a. Auth Type: None
- b. Forced Function Key: Unchecked



Vendor Name:	Godrej and Boyce Mfg. Co. Ltd.	Document No	IOWMS/SOP/1
Contract No:	GEM/2023/B/4123905	Revision No	0
Contract Date:	7th June 2024	DPate	

IOWMS

PROCEDURE: FRS Device Configuration and Installation



5. UBio Core: No changes required



6. **Date Time:**

- Time Synchronization: Auto
- Nothing else to be changed.

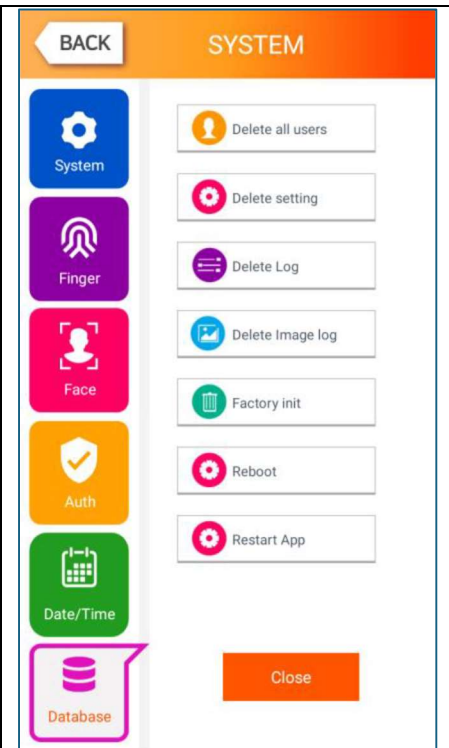


Vendor Name:	Godrej and Boyce Mfg. Co. Ltd.	Document No	IOWMS/SOP/1
Contract No:	GEM/2023/B/4123905	Revision No	0
Contract Date:	7th June 2024	DPate	

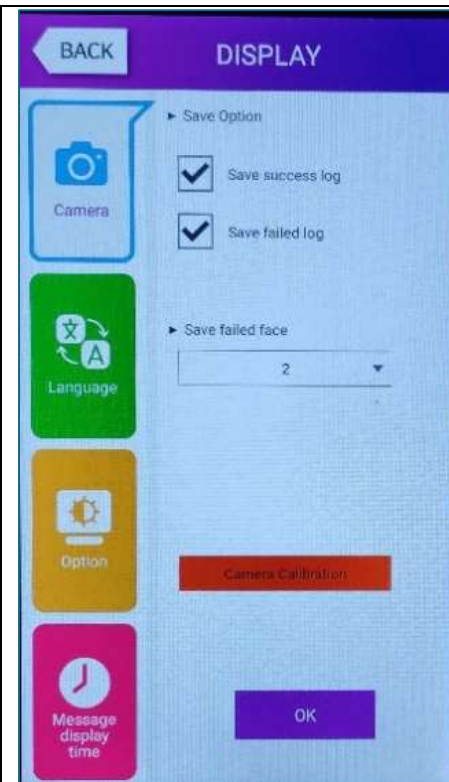
7. Database

(None of the following setting is to be changed)

- a. Delete All Users
- b. Delete Setting
- c. Delete Log
- d. Delete Image Log
- e. Factory Init
- f. Reboot
- g. Restart App

**b. Display Settings:****1. Camera**

- a. Save Success Log: Checked
- b. Save Failed Log: Checked
- c. Save Failed Face: 3



Vendor Name:	Godrej and Boyce Mfg. Co. Ltd.	Document No	IOWMS/SOP/1
Contract No:	GEM/2023/B/4123905	Revision No	0
Contract Date:	7th June 2024	DPate	

IOWMS

PROCEDURE: FRS Device Configuration and Installation



2. Language: English

The screenshot shows the 'DISPLAY' menu with a purple header. On the left is a vertical sidebar with icons for Camera, Language (highlighted with a green box), Option, and Message display time. The main area shows the 'LANGUAGE' dropdown menu set to 'English'. An 'OK' button is at the bottom right.

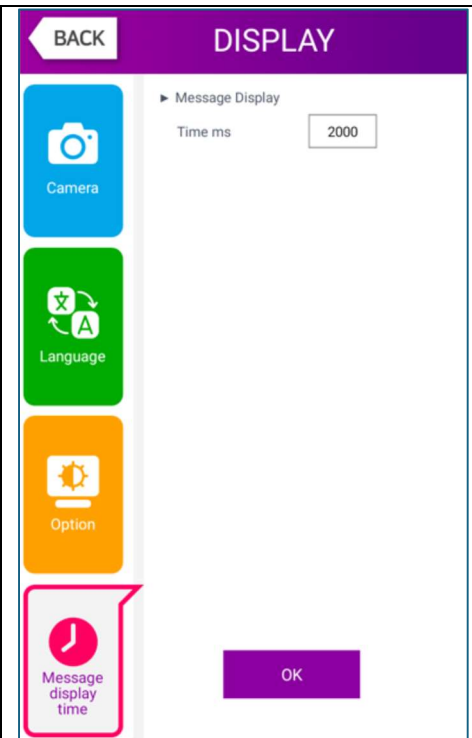
3. Option

- a. Power Saving Mode: 5min
- b. Display Option: Username

The screenshot shows the 'DISPLAY' menu with a purple header. On the left is a vertical sidebar with icons for Camera, Language, Option (highlighted with an orange box), and Message display time. The main area shows two dropdown menus: 'Power saving mode' set to '5min' and 'Display Option' set to 'User Name'. There is also a 'Touch Calibration' button. An 'OK' button is at the bottom right.

Vendor Name:	Godrej and Boyce Mfg. Co. Ltd.	Document No	IOWMS/SOP/1
Contract No:	GEM/2023/B/4123905	Revision No	0
Contract Date:	7th June 2024	DPate	

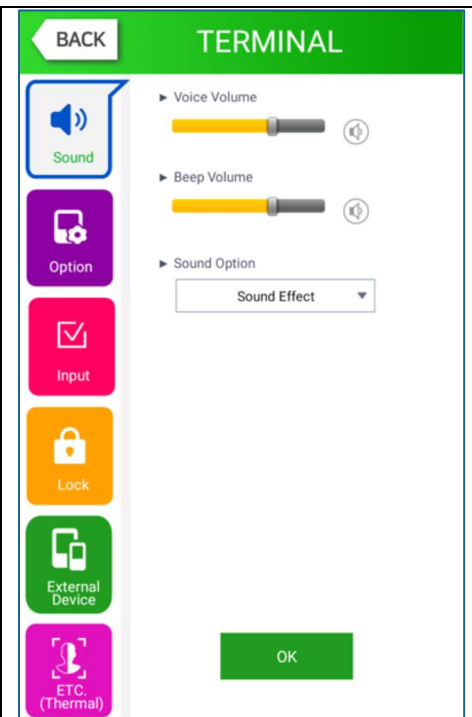
4. Message Display Time: 3000ms



c. Terminal Settings

1. Sound

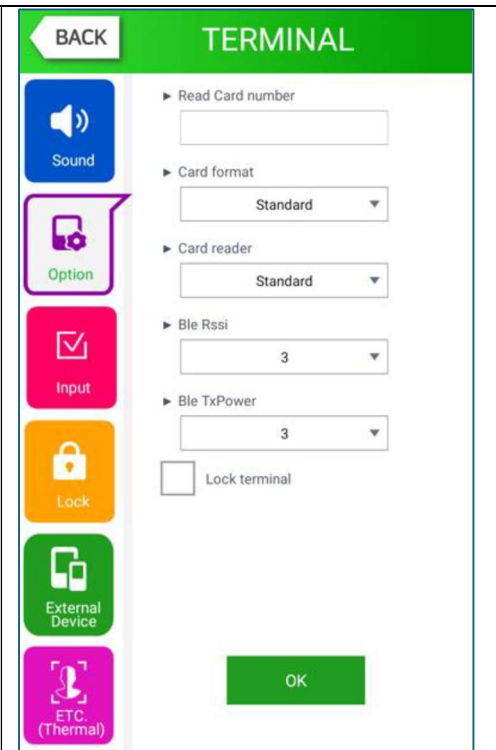
- a. Sound Volume: Maximum
- b. Beep Volume: Maximum
- c. Sound Option: User Voice



Vendor Name:	Godrej and Boyce Mfg. Co. Ltd.	Document No	IOWMS/SOP/1
Contract No:	GEM/2023/B/4123905	Revision No	0
Contract Date:	7th June 2024	DPate	

2. Option

- a. Read Card Number: To be kept Blank
- b. Card Format: Standard
- c. Ble Rssi: 3
- d. Ble TxPower: 2
- e. Lock Terminal: Checked



The screenshot shows the 'TERMINAL' configuration screen with a green header and a 'BACK' button. On the left is a vertical menu with icons for Sound, Option (highlighted), Input, Lock, External Device, and ETC. (Thermal). The main area contains the following settings:

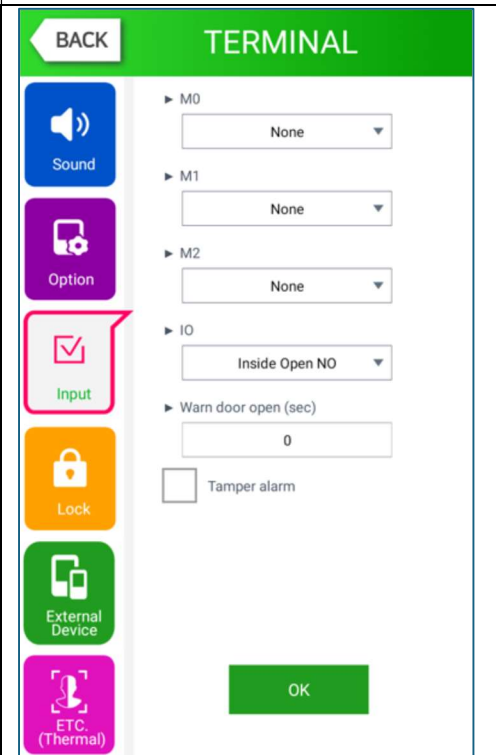
- Read Card number:
- Card format:
- Card reader:
- Ble Rssi:
- Ble TxPower:
- Lock terminal: ☒

An 'OK' button is at the bottom right.

3. Input

Since only one input is used to get the feedback from the turnstile, it needs to be configured, once the connection with turnstile relay output.

- a. M0: Turnstile Monitor NO
- b. M1: None
- c. M2: None
- d. IO: Inside Open NO
- e. Tamper alarm: Unchecked



The screenshot shows the 'TERMINAL' configuration screen with a green header and a 'BACK' button. On the left is a vertical menu with icons for Sound, Option, Input (highlighted), Lock, External Device, and ETC. (Thermal). The main area contains the following settings:

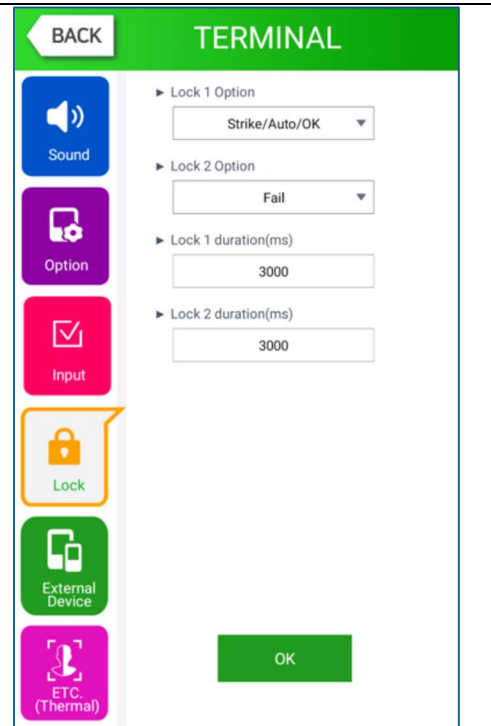
- M0:
- M1:
- M2:
- IO:
- Warn door open (sec):
- Tamper alarm: ☐

An 'OK' button is at the bottom right.

Vendor Name:	Godrej and Boyce Mfg. Co. Ltd.	Document No	IOWMS/SOP/1
Contract No:	GEM/2023/B/4123905	Revision No	0
Contract Date:	7th June 2024	DPate	

4. Lock:

- a. Lock 1 Option: Strike/Auto/OK
- b. Lock 2 Option: Fail
- c. Lock 1 Duration(ms): 300
- d. Lock 2 Duration(ms): 300



The screenshot shows the 'TERMINAL' configuration screen with a green header. On the left is a vertical sidebar with icons for Sound, Option, Input, Lock (highlighted in orange), External Device, and ETC. (Thermal). The main area contains the following settings:

- Lock 1 Option:** Strike/Auto/OK (dropdown menu)
- Lock 2 Option:** Fail (dropdown menu)
- Lock 1 duration(ms):** 3000 (text input)
- Lock 2 duration(ms):** 3000 (text input)

An 'OK' button is located at the bottom right of the main area.

5. External Device:

RS232: None

RS485: None

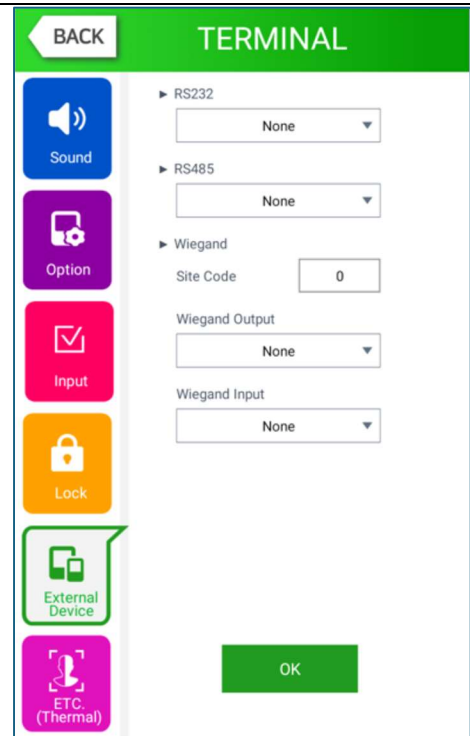
Wiegand:

Site Code: 0

Wiegand Output: None

Wiegand Input: None

None of the options in this device are to be changed.



The screenshot shows the 'TERMINAL' configuration screen with a green header. On the left is a vertical sidebar with icons for Sound, Option, Input, Lock, External Device (highlighted in green), and ETC. (Thermal). The main area contains the following settings:

- RS232:** None (dropdown menu)
- RS485:** None (dropdown menu)
- Wiegand:**
 - Site Code:** 0 (text input)
 - Wiegand Output:** None (dropdown menu)
 - Wiegand Input:** None (dropdown menu)

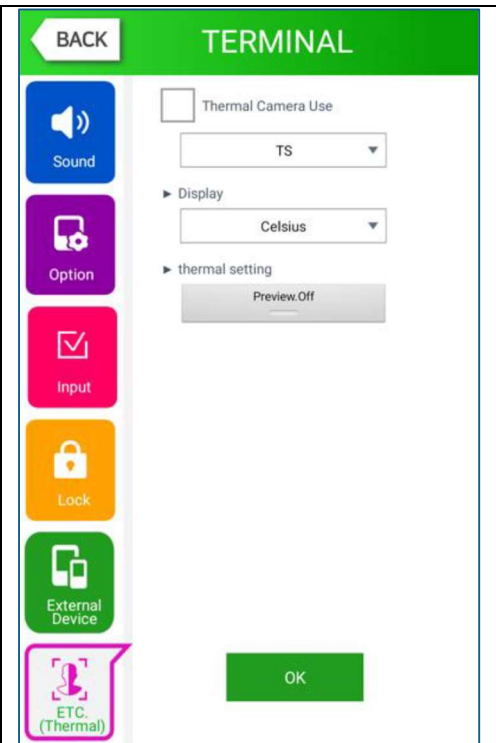
An 'OK' button is located at the bottom right of the main area.


Vendor Name:	Godrej and Boyce Mfg. Co. Ltd.	Document No	IOWMS/SOP/1
Contract No:	GEM/2023/B/4123905	Revision No	0
Contract Date:	7th June 2024	DPate	

6. ETC(Thermal)

This setting is used if a Thermal Camera is attached to the device.


Currently any of the configuration in this setting is not to be touched since Thermal Camera is not being used.


d. Network Settings

Parameters	Screenshot
<ol style="list-style-type: none"> 1. Kindly select the DHCP setting, presuming device is connected to internet BPCL SD-WAN network. The IP address will be automatically assigned to the device. 2. Set the Server IP address to 65.2.49.63 3. Port No. 9003 4. Terminal ID: As per the allocation of ID based on Locations 	

Vendor Name:	Godrej and Boyce Mfg. Co. Ltd.	Document No	IOWMS/SOP/1
Contract No:	GEM/2023/B/4123905	Revision No	0
Contract Date:	7th June 2024	DPate	

3.3 MAC ID Binding:

- For binding the MAC ID of the newly installed device in L2 switches, kindly enter into device Settings using admin ID and password.
- Once correct credentials are provided, Settings page will open.
- In Settings,  kindly go to **Info**.
- In Terminal Info, kindly go to Network Settings.
- Here you will find the Device MAC ID which needs to be entered in the L2 Switch settings, for binding the device with a particular port in the switch, for network security.

BACK
ADMIN ID

INPUT ADMIN ID

1	2	3
4	5	6
7	8	9
←	0	OK

BACK
SETTINGS

User

Network

Application

System

Terminal

Display

Info

USB

BACK
TERMINAL INFO

System

Terminal

Network

User

Log

About

Network Info

MAC:5E:CA:7A:2D:05:47

<Ethernet>

IP:0.0.0.0

Close

Vendor Name:	Godrej and Boyce Mfg. Co. Ltd.	Document No	IOWMS/SOP/1
Contract No:	GEM/2023/B/4123905	Revision No	0
Contract Date:	7th June 2024	DPate	