



SIPOAL - B

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1. System Overview

SIPOAL-B is an IoT based Electro-mechanical type Single Point Automatic Lubricators

SIPOAL-B consists of self-powered electromechatrical drive unit to drive the lubricant cartridges which delivers the precise volume of lubricant to the lubrication point of machinery automatically at frequent intervals of time programmed by the user.

SIPOAL-B is designed to dispense correct volume of grease at short intervals of time automatically while the machine is in operation. This leads to longest bearing service life. Thus, machine reliability can be enhanced substantially with proper lubrication.

SIPOAL-B can be remotely monitored and controlled to ensure that the correct volume of lubricant at the right time is delivered to the lubrication point during its operation. This provides a more accurate amount of lubricant supplied properly when compared to traditional manual lubrication techniques.

This regime of grease delivery by SIPOAL-B maintains a steady-state of lubrication protection where excess lubrication or lubricant starvation does not occur, prevention of contaminants entry and eliminates all the problems integrated with manual lubrication process.



SIPOAL - Parts

DRIVE UNIT

to pump the lubricant in grease Cartridge

EMPTY GREASE CARTIDGE

Where grease can be filled / re-filled

FLANGE

To connect system and lube point and to support the system

COUPLER

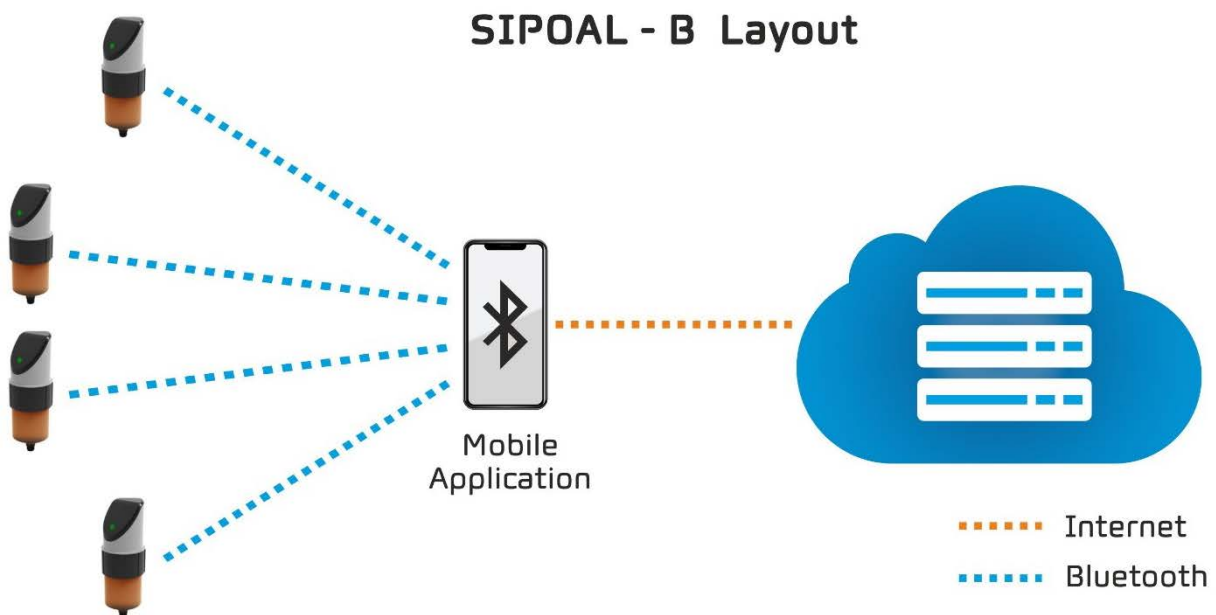
To connect and hold the grease cartridge with drive unit

2. Working

SIPOAL – B are enabled with Bluetooth technology which connects the user thru Smartphone to program, monitor, control and manage the data of installed SIPOALs remotely.

Whenever required, user can connect the SIPOAL – B by using Bluetooth connectivity thru Smartphone to trigger initial time setting program or receive current feedbacks or to reset the program.

Whenever SIPOAL – B is connected with Smartphone, it will send the performance data of its functionality, lubricant level, battery level and respond to reset its program or pause / resume according to the updates received from the user, if any.



3. Specifications

Type	: Electromechatrical Single Point Lubricator
Description	: IoT based Fully Automatic Lubricator enabled with Bluetooth technology (wireless network range: 5 – 20 m depends on installation environment)
Activation	: Power Button and Remote – Thru Smartphone on the spot
Monitoring	: Remote – Thru Smartphone from anywhere within the Bluetooth range
Control	: Remote – Thru Smartphone from anywhere within the Bluetooth range
Database Management	: Thru exclusive Mobile Application
Drive	: DC Motor
Power Supply	: Inbuilt 2600 mAh Lithium Battery (Rechargeable Type)
Recharge Pin	: Type C
Permissible Lubricants	: Greases upto NLGI 2 Grade
Dispensing Period	: 1 Day to 12 Months
Pressure Generation	: 5 Bar
Operating Temperature	: -10 °C to +60 °C
Housing	: Plastic
Cartridge Type	: Reusable
Type of Refilling	: Manually by cartridge refilling kit
Cartridge Volume	: 120 ml / 240 ml
Approx. Weight	: 510 Grams (120 ml) / 590 Grams (240 ml)
Multipoint Lubrication	: Supply of Lubricant to 2 points (max). Applicable only for NLGI-0.
Remote Installation	: Single Point - Upto 5 meters (16 ft) with Ø6 tube Dual Point - Upto 2 meters (6 ft) per point with Ø6 tube (Up to 4 lube points)
Protection Class	: IP 65

4. Applications

Key Industrial Machine Elements

Roller & Sliding Bearings

Linear / Sliding Guides

Threaded Spindles

Open Gears & Chains

Key Industrial Machines

Electric motors

Pumps

Conveyors

Drives

Robots

Cranes / Lifting systems

Cam & Followers

Blowers & Fans

Applicable Industries

Automotive

Textile

Steel

Food and Beverage

Pulp & Paper

Cement

Construction

Mining & Quarrying

Sewage Treatment Plants

Recycling Plants

Printing

Metal Fabrication

Pharmaceutical

Petrochemical

Wind Turbines

Refineries

And suitable for any type of Industries wherever friction management is requirement

5. Product Characteristics

Cloud Based Data processing -

Data of each SIPOAL-B installed in an industry like time settings, cartridge size, lubricant level, refilling time, battery level, etc. can be sent to cloud thru Bluetooth technology and Mobile App and it can be retrieved at any time thru Mobile phone / Computer from cloud by internet. Hence, no need to maintain the data manually in a register or computer and to check the data frequently so as to find out the refilling date & battering recharging of each SIPOAL-B installed in an industry.

Wireless Control Options -

Each SIPOAL-B can be connected with Smartphone thru Bluetooth and programmed, initiated, hold or kept on pause state during the plant shut off time or holidays thru wireless technology and internet.

Performance feedbacks and Notifications thru Smartphone -

Each SIPOAL-B installed in an industry can be connected thru Smartphone by Bluetooth technology and Performance data can be retrieved and stored on cloud. Mobile App can trigger Alert notifications on cartridge refill and battery low level of each SIPOAL-B.

Rechargeable type Drive Unit -

Rechargeable type lithium battery has been provided that can be recharged thru TYPE-C charger which eliminate change of batteries like in other conventional LUBRICATORS.

Refillable type Cartridge -

Lubricant Cartridges has been designed to perform refilling the lubricant which eliminates the replacement of cartridges once the lubricant is exhausted.

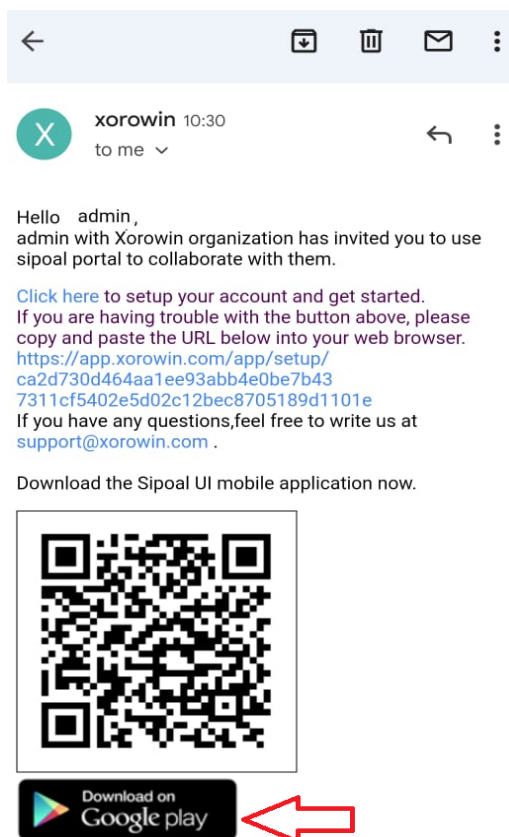
6. Charging

Before operating the system, charge it through the charging port. **Green Led** will glow while the device is in charging and **Red Led** will glow when the charge is full.

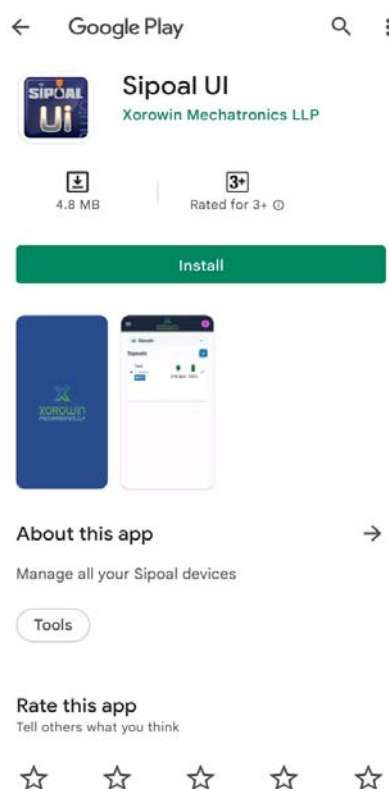


7. App Installation

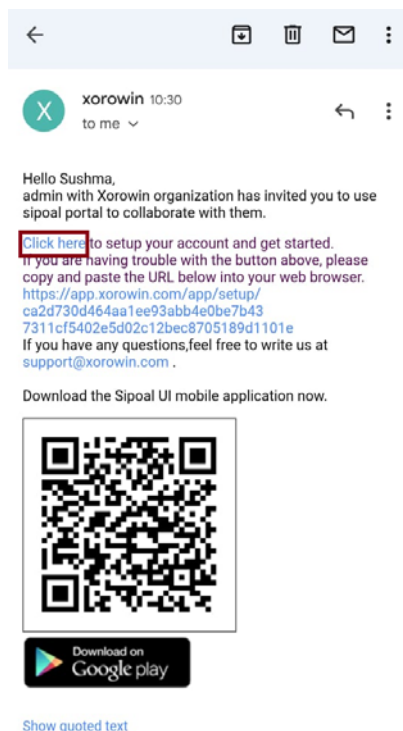
You will receive a **mail** like this:



Click the **download on Google play** button to install the App:

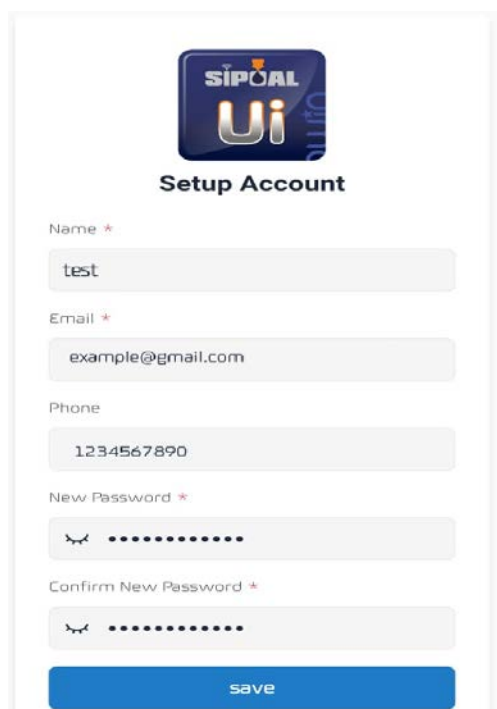


After installing the App, again go to the mail and click on **click here** to go to the account setup page:



a. Account Setup

You can set up your account here:



SIPOAL UI

Setup Account

Name *

test

Email *

example@gmail.com

Phone

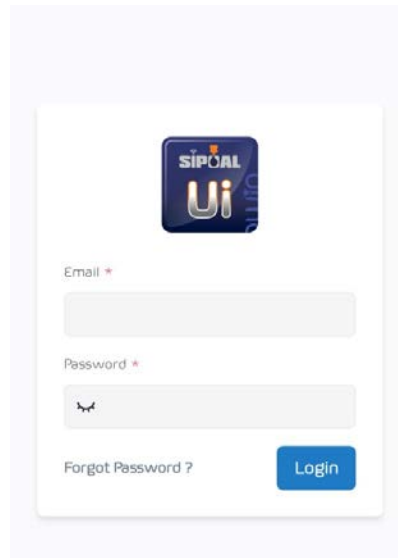
1234567890

New Password *

Confirm New Password *

save

After setting up your account, you will be redirected to the login page:



Note:

Roles available:

1. SIPOAL Admin
2. SIPOAL User

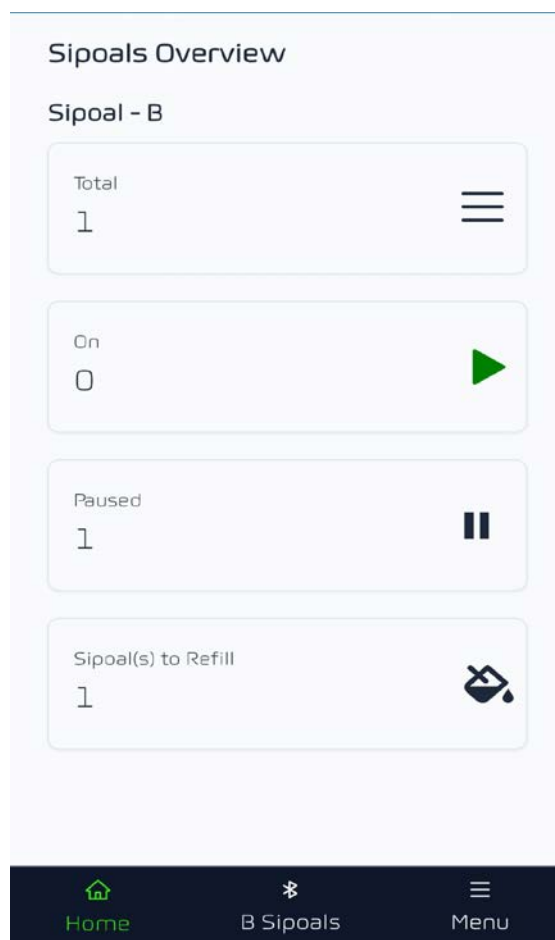
Rights for SIPOAL Admin:

- Can view& edit & control all the SIPOAL devices in their organization.
- Can receive notifications.
- Can create new departments and assign SIPOAL devices and users to those departments.
- Can create new users and manage them.
- Can manage their organization profile.
- Can edit user profile.

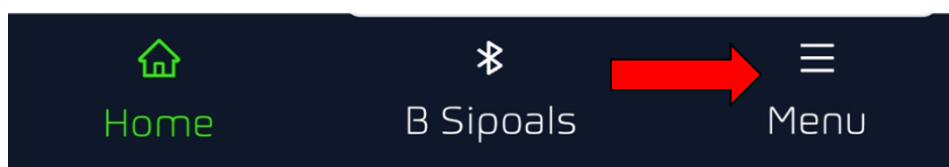
Rights for SIPOAL User:

- Can view & control the SIPOAL devices which are assigned to their departments or SIPOAL devices which are not assigned to any department. Users cannot edit the details of the SIPOAL devices.
- User can edit user profile.

After logging, by default you will be redirected to Homepage

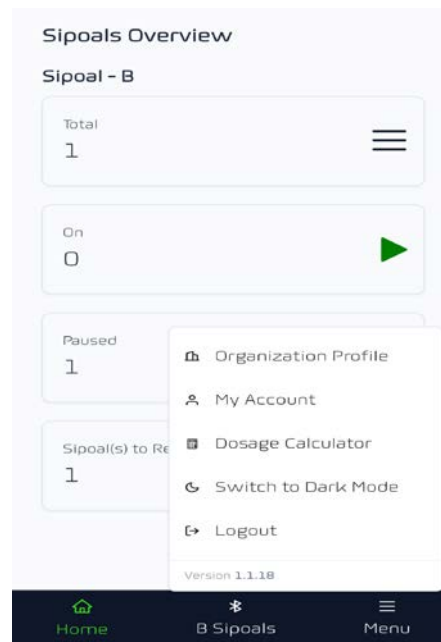


First Click on the Menu bar to update your organization details:

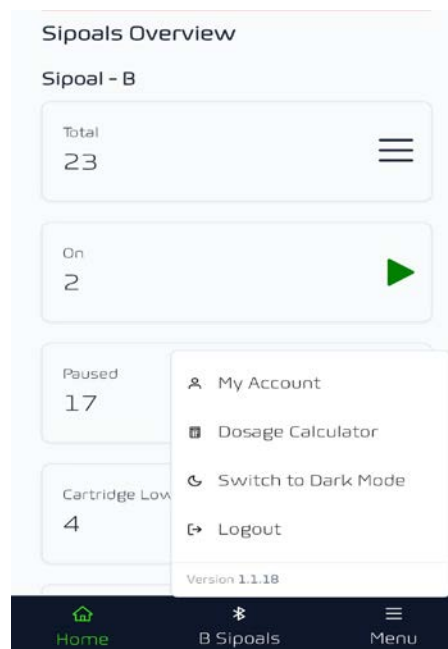


8. Menu Bar

Available options in menu bar for **SIPOAL admin** role:



Available options in menu bar for **SIPOAL User** role:



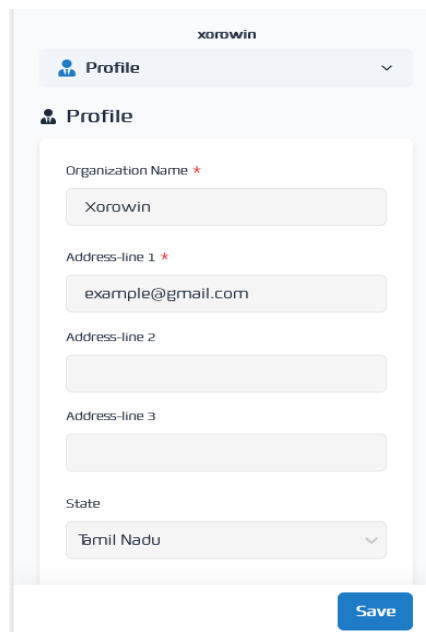
a. Organization Profile (only for SIPOAL Admin Role):

In this section, three options are available.

- i. Profile
- ii. Departments
- iii. Users

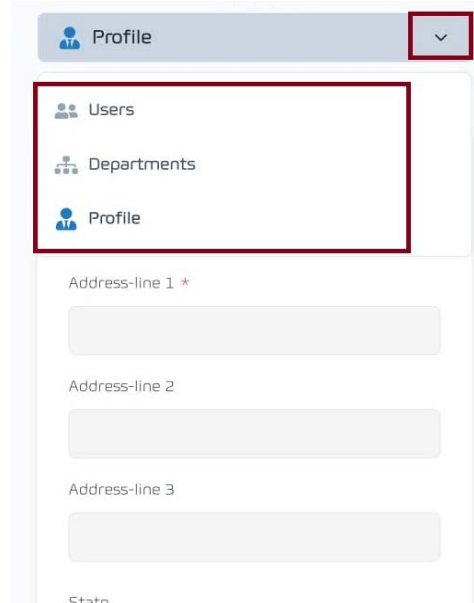
i. Profile:

In this section, details of the organization can be filled.



The screenshot shows the 'Profile' form in the Xorowin system. At the top, there is a header 'xorowin' and a dropdown menu labeled 'Profile'. Below this, the 'Profile' section is active, showing fields for 'Organization Name' (filled with 'Xorowin'), 'Address-line 1' (filled with 'example@gmail.com'), 'Address-line 2' (empty), 'Address-line 3' (empty), and 'State' (filled with 'Tamil Nadu'). A 'Save' button is located at the bottom right of the form.

Click on the drop-down to view other available options in the organization profile:



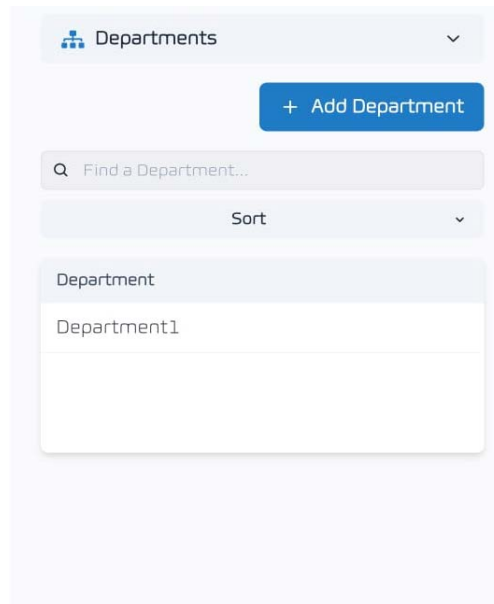
This screenshot shows the same 'Profile' form, but with the dropdown menu open. The dropdown menu is highlighted with a red box and contains three options: 'Users', 'Departments', and 'Profile'. The 'Profile' option is currently selected. Below the dropdown, the form fields for 'Address-line 1', 'Address-line 2', 'Address-line 3', and 'State' are visible, though they are currently empty.

ii. Departments:

Departments can be used to group SIPOAL devices and users. Departments can be assigned to SIPOAL users, which restrict them from viewing SIPOAL devices of other departments. It can be used to filter SIPOAL devices on the SIPOAL list page.

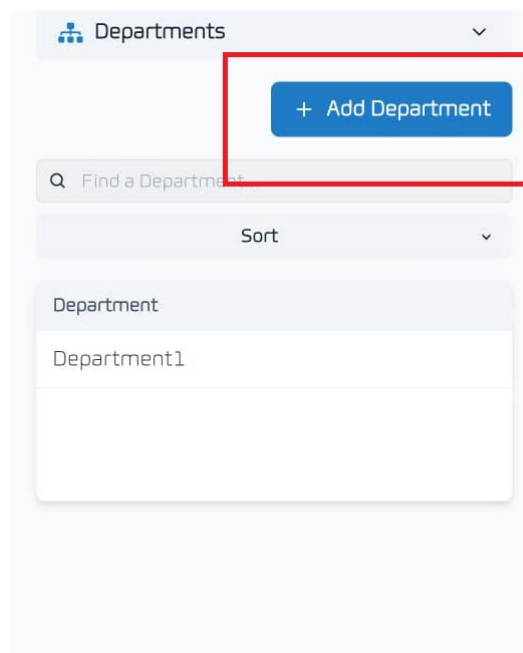
1. Department List:

Here you can see the list of available departments.

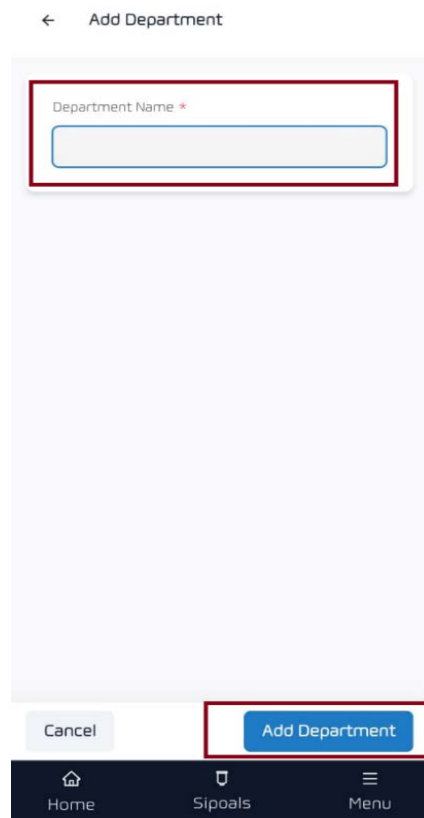


2. Adding a new Department:

Click on add department to add a new department.

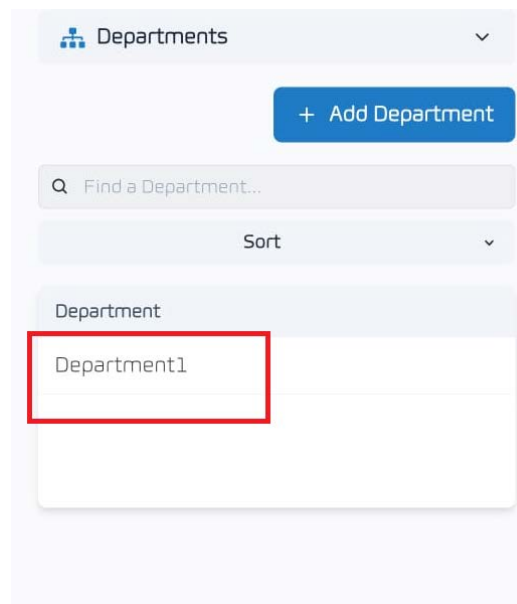


Enter the department name and click on add department button to add the department.

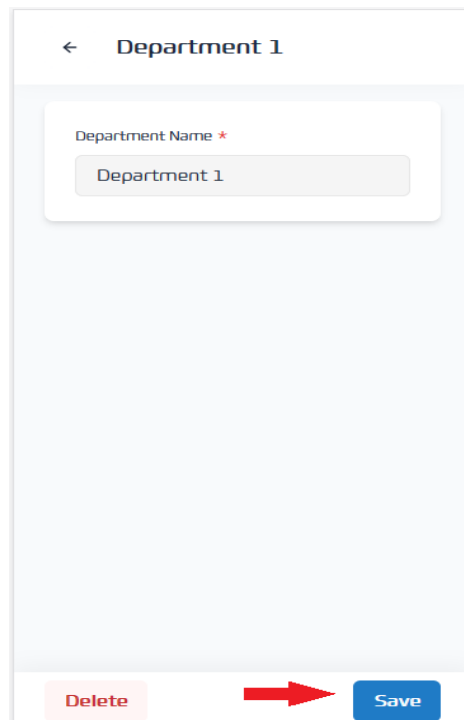


3. Editing/Deleting an existing department

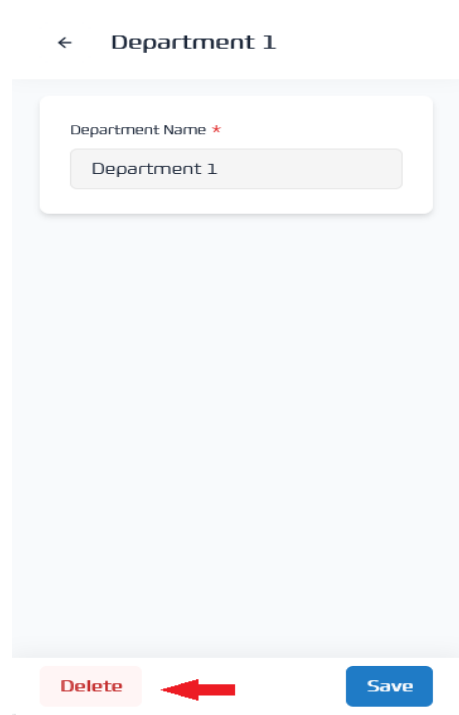
Click on the department which you want to edit/delete.



Here you can edit the department name and click on save to save the changes or you can delete the department using delete button.

To edit

A mobile app interface for editing a department. At the top, there is a back arrow and the text "Department 1". Below this is a form with a label "Department Name *" and a text input field containing "Department 1". At the bottom of the screen, there are two buttons: a red "Delete" button on the left and a blue "Save" button on the right. A red arrow points from the "Delete" button to the "Save" button.

To delete

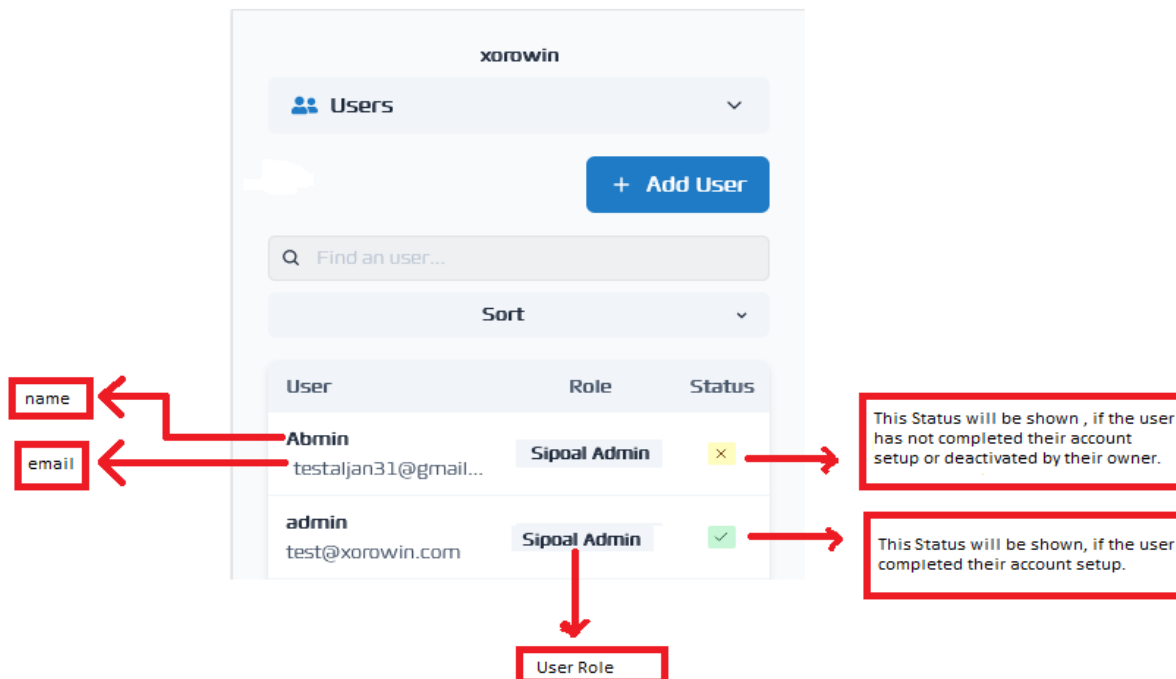
A mobile app interface for deleting a department. At the top, there is a back arrow and the text "Department 1". Below this is a form with a label "Department Name *" and a text input field containing "Department 1". At the bottom of the screen, there are two buttons: a red "Delete" button on the left and a blue "Save" button on the right. A red arrow points from the "Save" button to the "Delete" button.

iii. Users

In this section, you can manage all your users.

1. User list

Here you can see list of available users.



The screenshot shows the 'Users' management page in the Xorowin system. It includes a search bar, a sort dropdown, and a table of users. Red boxes and arrows highlight specific elements: 'name' and 'email' in the User column, 'User Role' in the Role column, and the Status column with explanatory text for each status icon.

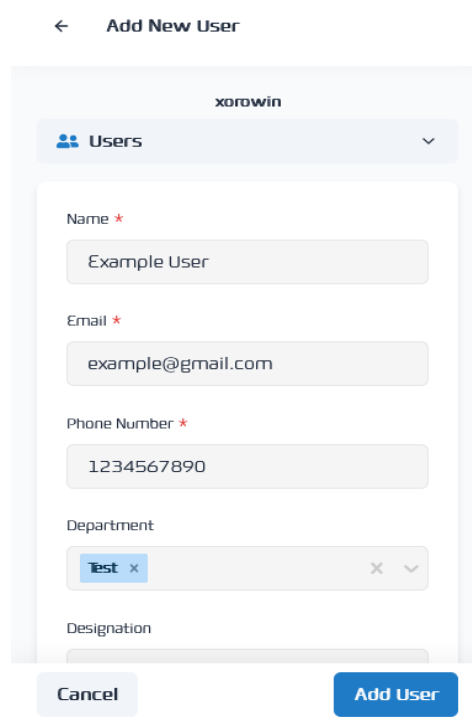
User	Role	Status
Abmin testaljan31@gmail...	Sipoal Admin	✗
admin test@xorowin.com	Sipoal Admin	✓

Annotations:

- name**: Points to the 'User' column header.
- email**: Points to the 'User' column header.
- User Role**: Points to the 'Role' column header.
- Status ✗**: This Status will be shown, if the user has not completed their account setup or deactivated by their owner.
- Status ✓**: This Status will be shown, if the user completed their account setup.

2. Add User

Here you should fill the user details like name, email, phone number, and assign a role (SIPOAL admin/ SIPOAL user) to add a user.



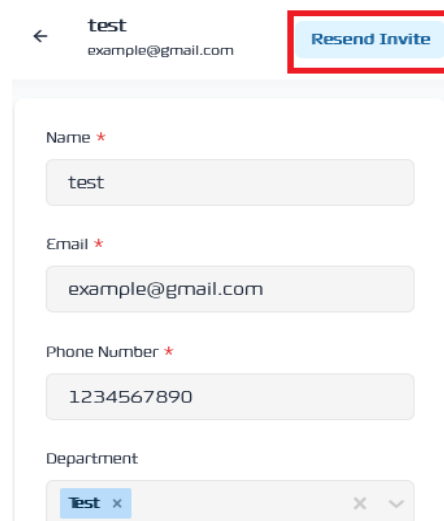
The screenshot shows the 'Add New User' interface. At the top, there is a back arrow and the title 'Add New User'. Below this is a header bar with the 'xorowin' logo and a dropdown menu currently set to 'Users'. The form contains several input fields: 'Name' with the value 'Example User', 'Email' with 'example@gmail.com', 'Phone Number' with '1234567890', 'Department' with a dropdown menu showing 'Test', and 'Designation' which is empty. At the bottom of the form are two buttons: 'Cancel' and 'Add User'.

Note:

- If SIPOAL admin user role is given, then that user can see all the SIPOAL devices regardless of the department that user assigned to.
- If SIPOAL user role is given, then that user can only see the SIPOAL devices which are not assigned to any department or SIPOAL devices which are assigned to their department (departments can be assigned using department field).

3. Resending user Invitation

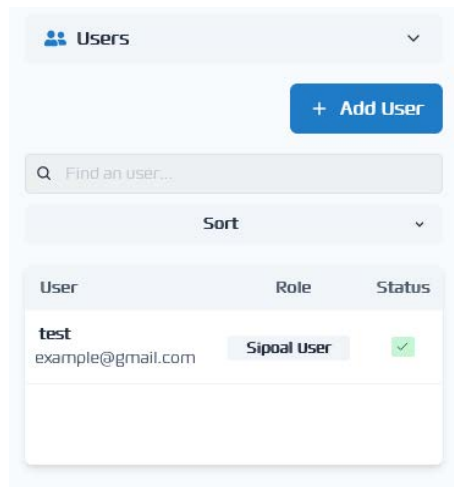
A newly created user has to complete their account setup before 48 hours. If it is not done, a new invitation email has to be sent using resend invite button available on the top right corner of the user edit page.



The screenshot shows the user edit page for a user named 'test' with email 'example@gmail.com'. At the top right, there is a blue button labeled 'Resend Invite' which is highlighted with a red rectangle. Below this is the same user form as seen in the previous screenshot, with fields for Name, Email, Phone Number, Department, and Designation.

4. Editing an existing user

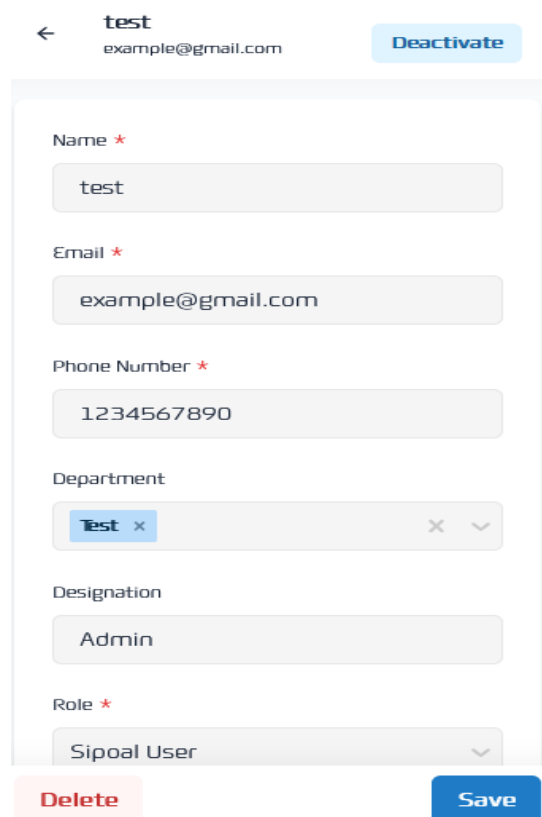
Click on the user which you want to edit



The screenshot shows a 'Users' management interface. At the top, there is a 'Users' header with a dropdown arrow and a '+ Add User' button. Below this is a search bar labeled 'Find an user...' and a 'Sort' dropdown. A table lists users with columns 'User', 'Role', and 'Status'. One user is listed: 'test' with email 'example@gmail.com', role 'Sipoal User', and a green checkmark status.

User	Role	Status
test example@gmail.com	Sipoal User	✓

Here you can edit the details of the user and click save to save the changes.



The screenshot shows the 'test' user edit form. At the top, there is a back arrow, the user name 'test', email 'example@gmail.com', and a 'Deactivate' button. The form fields are: Name (test), Email (example@gmail.com), Phone Number (1234567890), Department (Test), Designation (Admin), and Role (Sipoal User). At the bottom, there are 'Delete' and 'Save' buttons.

Name *
test

Email *
example@gmail.com

Phone Number *
1234567890

Department
Test x

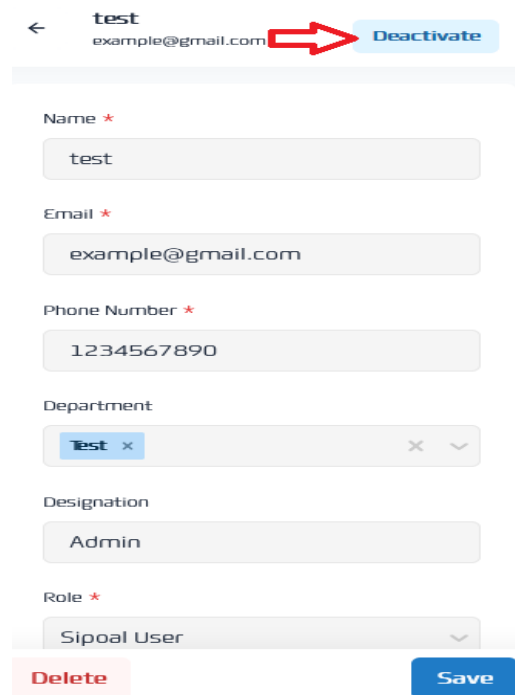
Designation
Admin

Role *
Sipoal User

Delete Save

5. Activate/Deactivate an existing user

The deactivate option can be used to restrict users from logging in.



test
example@gmail.com

Deactivate

Name *

test

Email *

example@gmail.com

Phone Number *

1234567890

Department

Test x

Designation

Admin

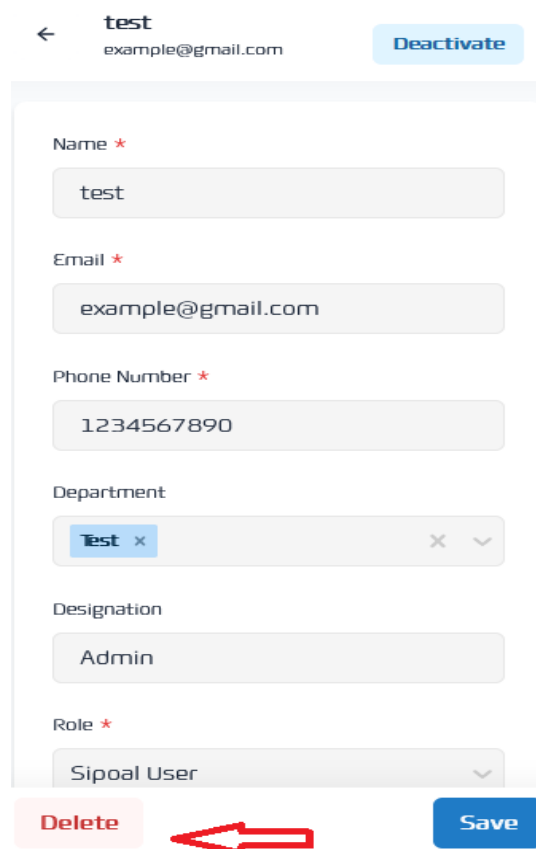
Role *

Sipoal User

Delete Save

6. Deleting an existing user

Click the delete button to delete the user.



test
example@gmail.com

Deactivate

Name *

test

Email *

example@gmail.com

Phone Number *

1234567890

Department

Test x

Designation

Admin

Role *

Sipoal User

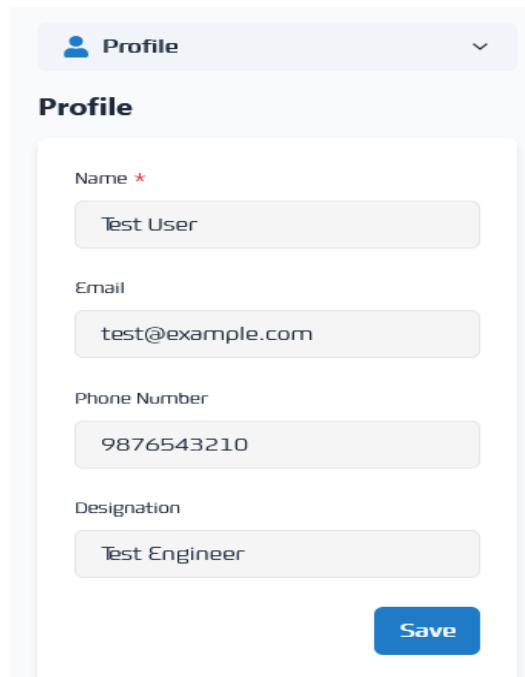
Delete Save

Note:

If the user deleted, then you have to contact XOROWIN MECHATRONICS LLP to enable that user again or that e-mail id again.

b. My Account

In this section, you can edit your name.



Profile

Profile

Name *

Test User

Email

test@example.com

Phone Number

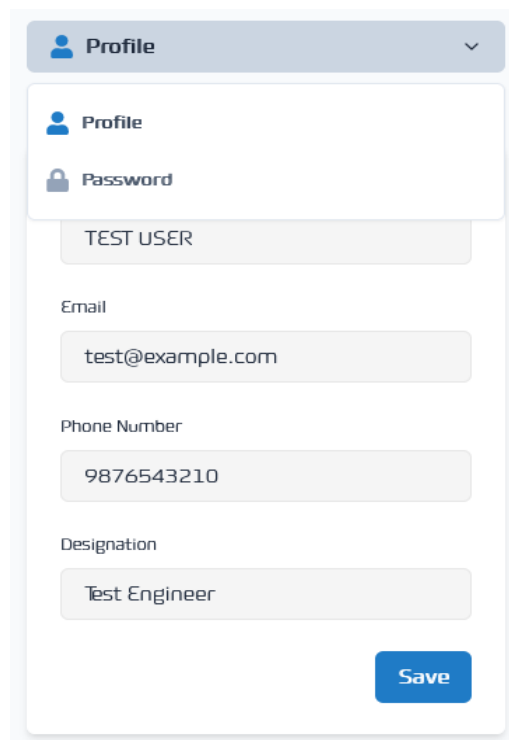
9876543210

Designation

Test Engineer

Save

Click on the profile drop-down to see other options:



Profile

Profile

Password

TEST USER

Email

test@example.com

Phone Number

9876543210

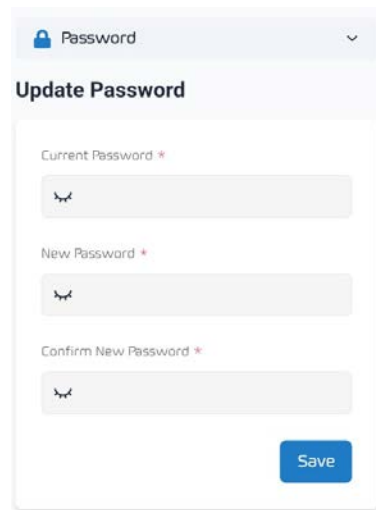
Designation

Test Engineer

Save

i. Update Password

In this section, you can update your account's password.

A screenshot of a web form titled 'Update Password'. At the top, there is a tab labeled 'Password' with a dropdown arrow. Below the title, there are three input fields: 'Current Password *', 'New Password *', and 'Confirm New Password *'. Each field has a password icon (two eyes) on the left. A blue 'Save' button is located at the bottom right of the form.

Password

Update Password

Current Password *

New Password *

Confirm New Password *

Save

c. Switch to the dark mode

If user clicks the Switch to dark mode option, it will switch the app to dark mode.


d. Logout

It will log out your account and redirect you to the login page



9. SIPOALS – List Page


Click on the Sipoals icon to go to SIPOAL list page:




























 B Sipoals

Find a sipoal...

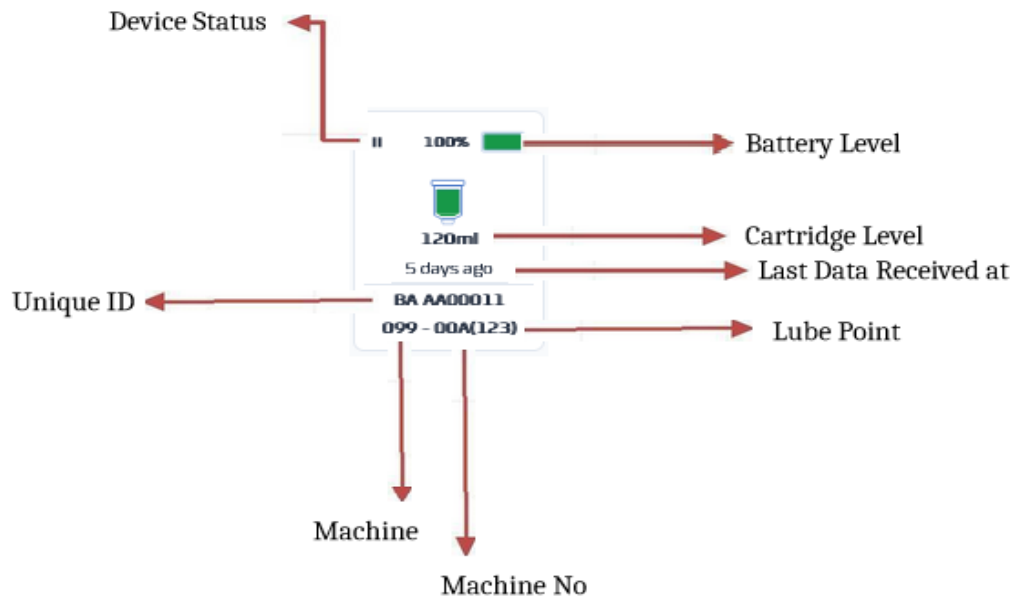
Department  Status 

Sort 



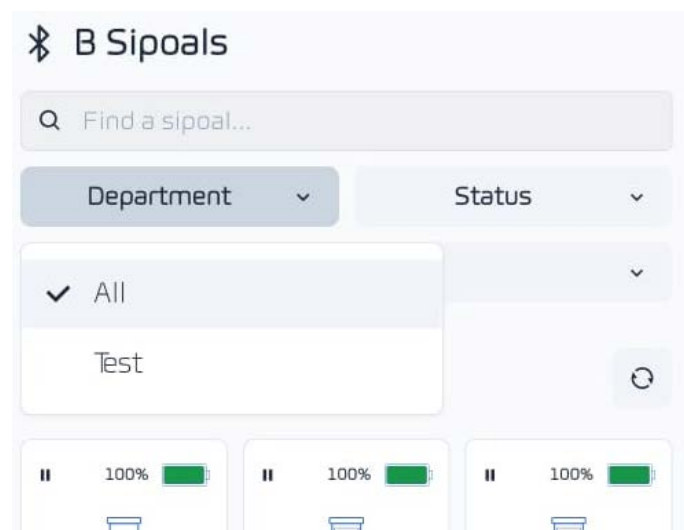
  120ml 2 months ago App-team02 Sumith... - 001(002)	  120ml 2 months ago BA AA00001 App te... - 022(Middle)	  0ml No Data BA AA00003 111 - B-03(111)
  0ml No Data BA AA00004 B-04 - B-04(111)	  0.5ml 2 months ago BA AA00005 123 - 123(123)	  8.3ml 2 months ago BA AA00006
  0.5ml 2 months ago BA AA00008	  0.5ml 2 months ago BA AA00009	  120ml 2 months ago BA AA00012
 	 	 

a. Available Details



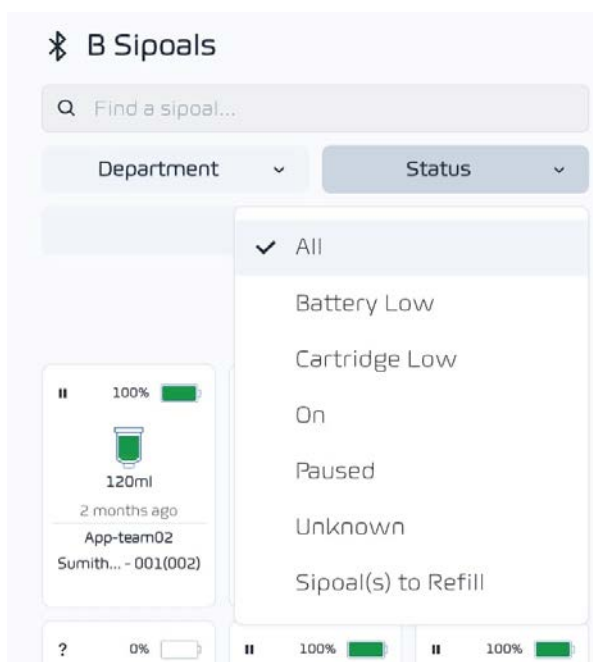
b. Department filter

Individual departments can be selected to view the respective devices that are assigned to the department. If All Option is selected, all SIPOAL devices will be displayed.



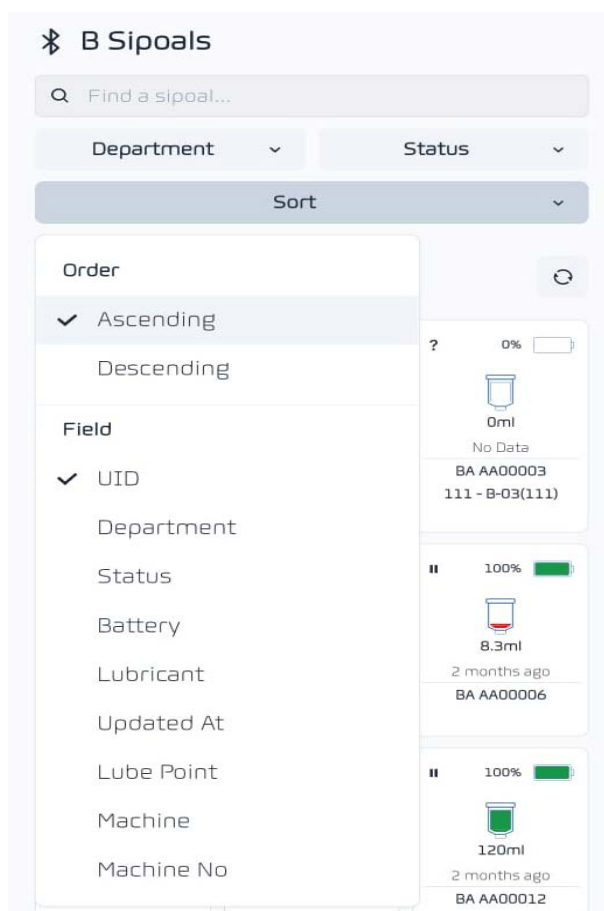
c. Status Filter

By using this filter, we can filter the devices by their status. If all option is selected, all devices will be listed or you can select a specific status to see the devices with that particular status.



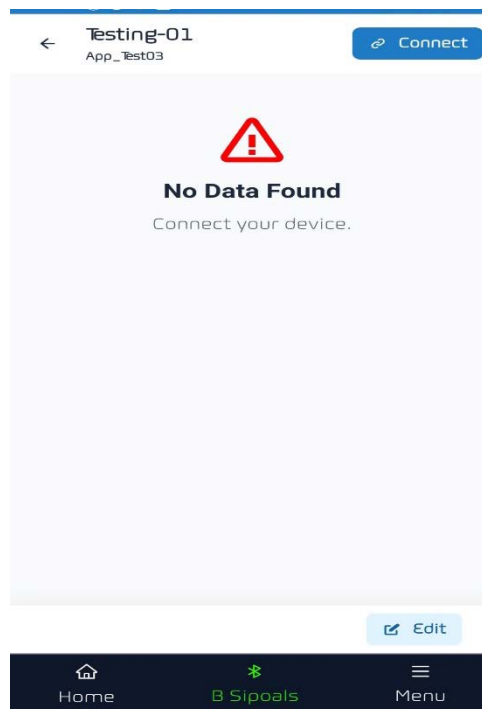
d. Sort

We can arrange the devices in specific order with these fields.



e. Device Details

If you click on a sipoal device to connect / view the details, the below details will be shown. Initially there will be no data for that sipoal device as shown below.



i. Turning ON the Device

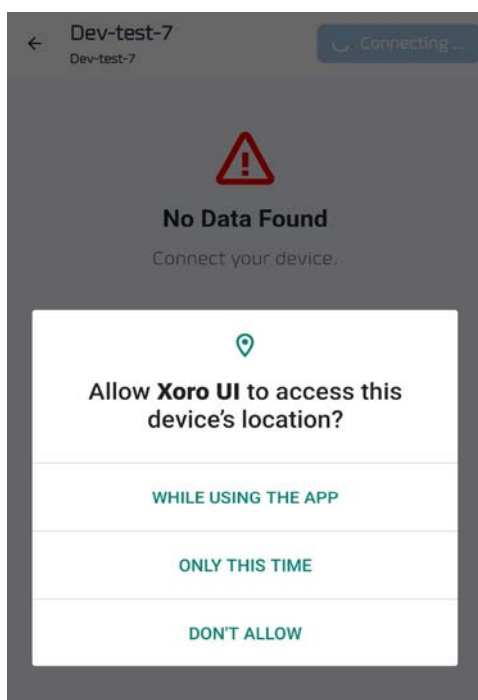
If the device is in off mode, you have to press the button one time and click the connect button on sipoal UI within one minute.



Note:

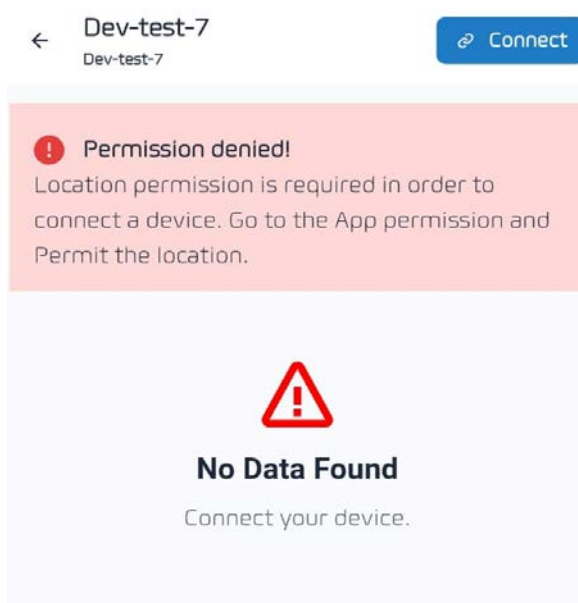
If the user did not connect the device within one minute, then the button to be pressed once again on device to connect with smartphone. If user did not press the button on device, the app will show the dialog box – data not found.

When you are trying to connect the device for the first time in app, it will ask for location permission to connect the device.

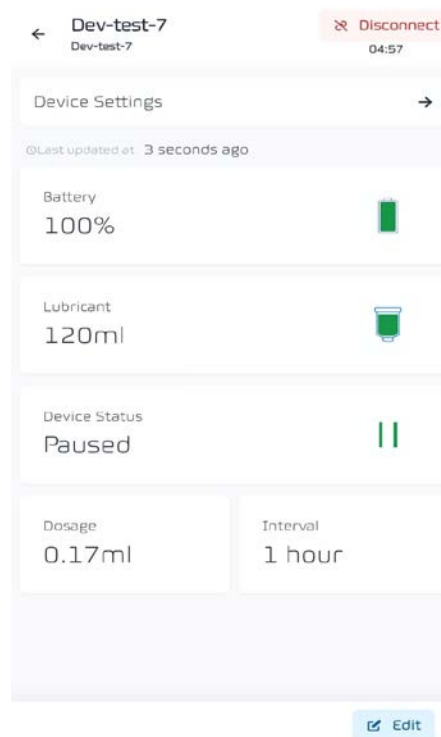


Allow the location permission to connect the device.

If you deny the location permission, you cannot connect to the device. The below prompt will be shown

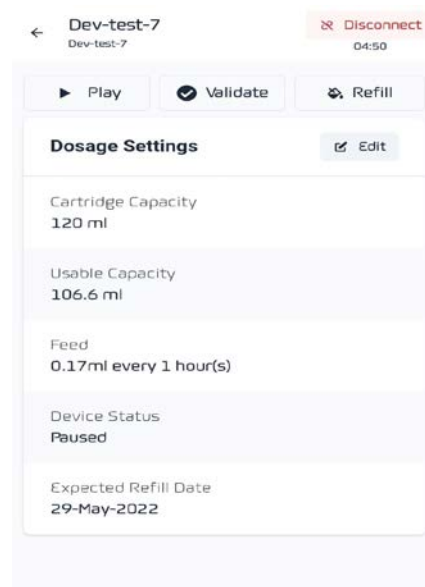


After successfully connecting the app, the data will be updated as shown below



Click the device settings to configure your device.

Available configurations



ii. SIPOAL Commands

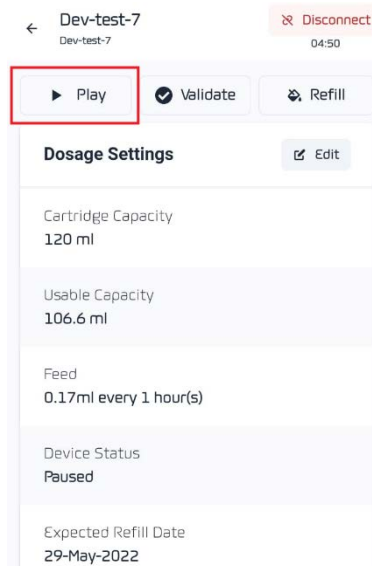
You can perform operations like play, pause, validate on your SIPOAL device and you can update the SIPOAL device as refilled.

Note:

These commands can be performed only when the device is connected to the app.

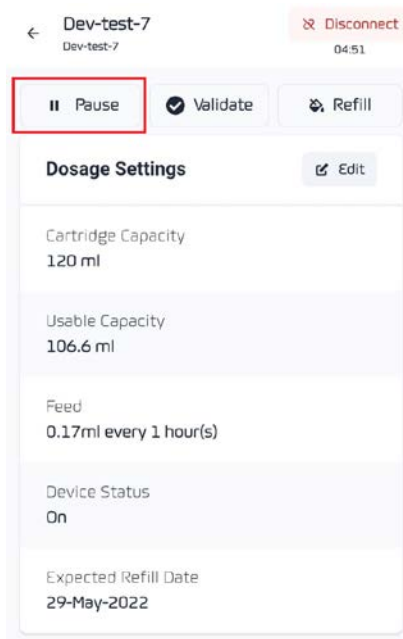
1. Play (Start the lubrication process)

You can able to start the lubrication process by clicking the **start** tab as shown below. The lubrication process will start when the device processes the command and will start to apply lubricant as per the given dosage settings. Whenever the lubrication process happens, the LED will glow simultaneously.



2. Pause (Stop the lubrication process)

You can able to stop the lubrication process by clicking the **pause** tab as shown below.



Note:

The play button will be available the devices which are in pause mode and pause button will be available for the devices which are in paly mode

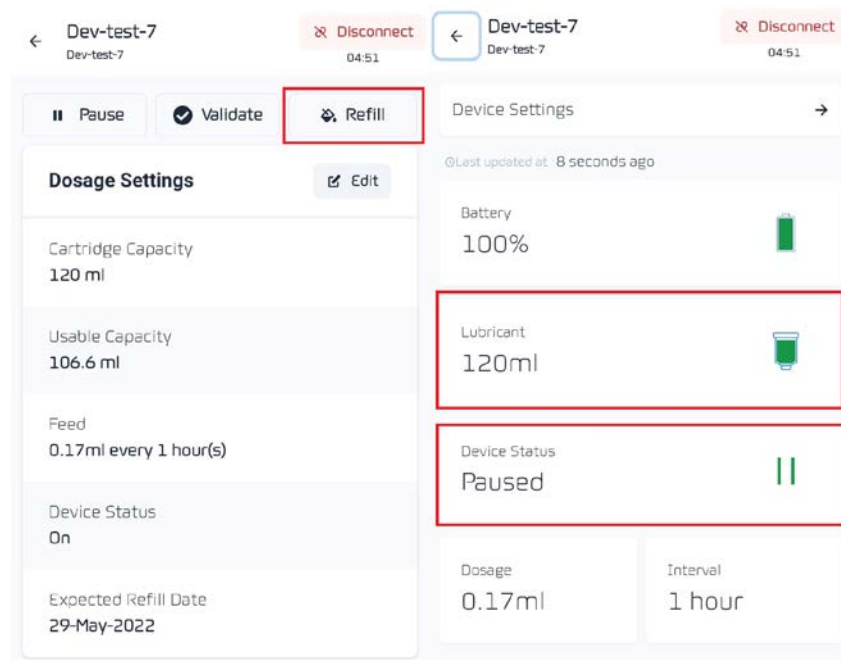
3. Refill (Cartridge)

Cartridges Filling:

Cartridges can be filled and reused. Available sizes - 120 ml.

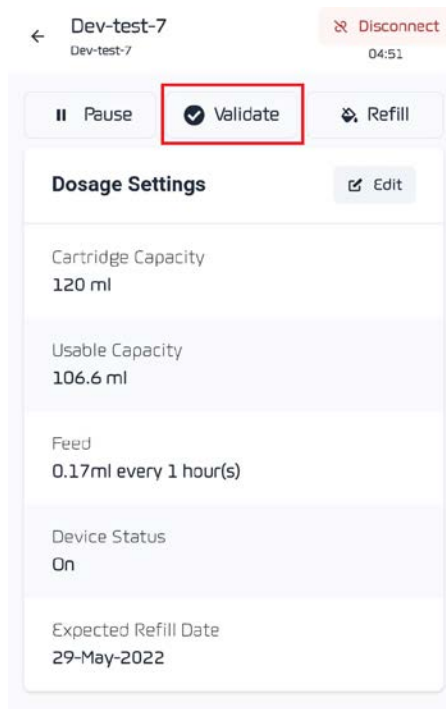


To Reset the Dosage value, the you have to click the **refill** tab as shown below. After resetting the lubricant level, SIPOAL device will go to PAUSE mode and the lubricant level will be updated as 120 ml.



4. System Validation

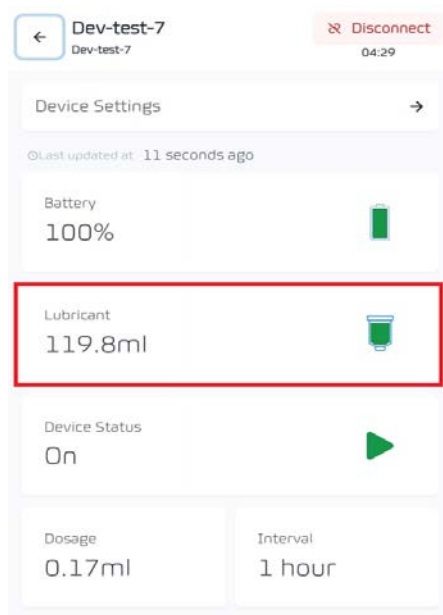
Users can able to validate the device by clicking the **Validation** tab as shown below. you can validate the below points,



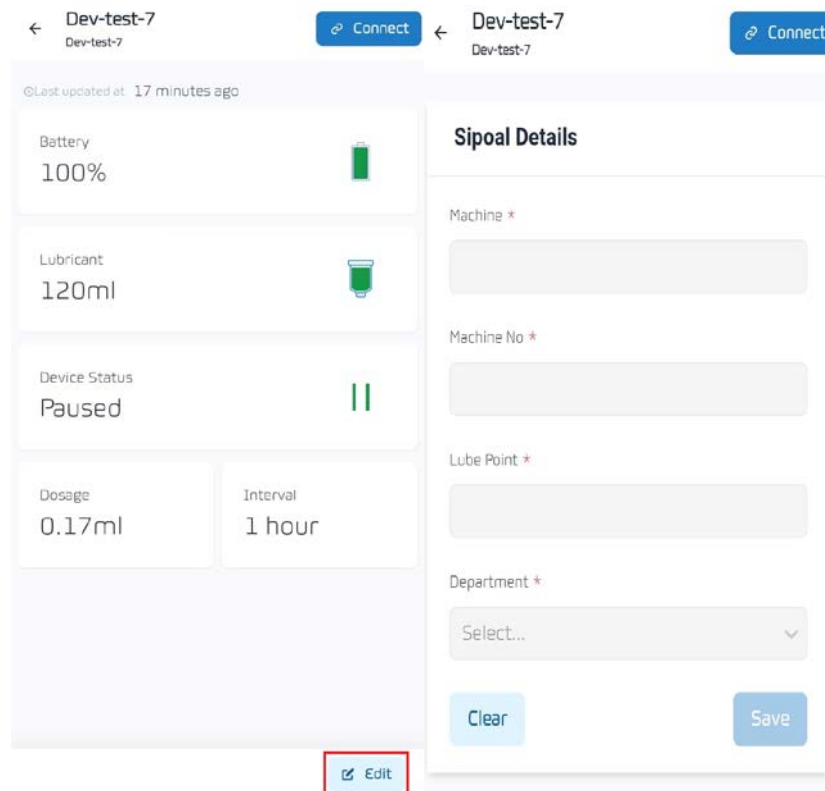
Configuration buttons in the app will be disabled during the validation process and it will be enabled after the validation process.

During the validation,

- Lubrication process will happen as per the given dosage settings and the LED will glow simultaneously.
- After the Lubrication process, the Lubricant value will be updated.



5. SIPOAL Details

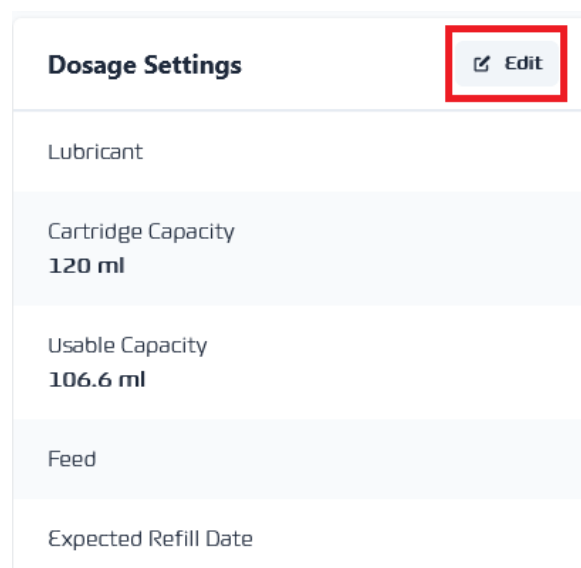


The screenshot displays the 'SIPOAL Details' interface for a device named 'Dev-test-7'. At the top, there are two 'Connect' buttons. Below them, a status bar indicates 'Last updated at 17 minutes ago'. The left panel shows device status: Battery at 100%, Lubricant at 120ml, Device Status as 'Paused', Dosage at 0.17ml, and Interval at 1 hour. The right panel contains configuration fields: Machine (text input), Machine No (text input), Lube Point (text input), and Department (dropdown menu). At the bottom of the right panel are 'Clear' and 'Save' buttons. An 'Edit' button with a pencil icon is located at the bottom center of the interface, highlighted with a red box.

These details can be used for your reference. The details will be shown on the SIPOAL list page, it will help you to identify your SIPOAL devices easily.

6. Dosage Settings

To calculate dosage, select **Edit** tab in Dosage settings as shown below.



The screenshot shows the 'Dosage Settings' interface. At the top right, there is an 'Edit' button with a pencil icon, highlighted with a red box. Below this, the settings are listed: Lubricant, Cartridge Capacity (120 ml), Usable Capacity (106.6 ml), Feed, and Expected Refill Date.

You have to fill the below fields to change/set the dosage settings in the SIPOAL device.

Lubricant *

Grease

Cartridge Capacity

Usable Capacity

120 ml

106.6 ml

Lubrication Settings ?

☒ Manual
☐ Calculator

Lubricant Volume *

106.6

ml

Lubrication Interval *

30

Day(s)

Sipoal Settings :

Point Type :

☒ Single Point
☐ Dual Point

Feed 0.17 ml every

1

Hour(s)

Lubrication Period ?

Total Dosages

27 Days

627

Click the **clear** button to clear the default configuration.

Dev-test-7
04:22
Disconnect

Lubrication Settings ?

☒ Manual
☐ Calculator

Lubricant Volume *

106.6

ml

Lubrication Interval *

30

Day(s)

Sipoal Settings :

Point Type :

☒ Single Point
☐ Dual Point

Feed 0.17 ml every

1

Hour(s)

Lubrication Period ?

Total Dosages

27 Days

627

Clear

Save

Dosage Settings
Close

Lubricant *

Cartridge Capacity

Usable Capacity

120 ml

106.6 ml

Lubrication Settings ?

☒ Manual
☐ Calculator

Lubricant Volume *

ml

Lubrication Interval *

Day(s)

Clear

Save

1. Lubricant is the type of the lubricant which will be used.
2. Cartridge capacity is the capacity of the cartridge.
3. Usable Capacity is the capacity which can be used for the lubrication process.
4. Lubrication Settings:

Types of lubrication settings:

- ☒ Manual
- ☐ Calculator

Manual:

This calculation may be used when your machine manufacturer recommends you to use a specific amount of grease for a certain period or when you have your own calculated values. For example, if you want to use 30 ml for 10 days. You have to fill the form like shown below.

Lubrication Settings ?

☒ Manual ☐ Calculator

Lubricant Volume *

ml

Lubrication Interval *

Day(s) ▼

Calculator:

The calculator can be used to calculate the lubricant volume per day by entering the lubrication point details

Dosage Calculator ✕

Bearing Type *

Select...
▼

Width * Outer Diameter *

mm

mm

Shaft Diameter * Shaft RPM *

mm

Operating Temperature *

Select...
▼

Particle Contamination *

Select...
▼

Moisture *

Select...
▼

Vibrations *

Select...
▼

Position *

Select...
▼

Calculate

Fill the parameters to calculate Dosage in ml

1. Bearing Type – Select one of the following type
2. Width in mm
3. Outer Diameter in mm

4. Shaft Diameter in mm
5. Shaft RPM
6. Operating Temperature
7. Particle Contamination
8. Moisture
9. Vibrations
10. Position

When you enter appropriate values, the result will show like below

Result

Lubricant Volume Per Day
0.62

Close

Apply

Click on apply to use this value.

The dosage form after applying the value will be like below. You can edit feed intervals according to your requirement.

Cartridge Capacity 120 ml	Usable Capacity 106.6 ml
------------------------------	-----------------------------

Lubrication Settings ?

☐ Manual ☒ Calculator

Lubricant Volume Per Day
0.62 ml

Sipoal Settings :

Point Type :
☒ Single Point ☐ Dual Point

Feed

0.06 ml

 every

2

 Hour(s)

Lubrication Period ?	Total Dosages
149 Days	1777

Clear

Save

When you enter inappropriate values, the result will be like this

Result

Lubricant Volume

2.328

Lubrication Interval

43 years

Apply 2.328 ml of lubricant every 43 years.

!

Something Wrong. Invalid Values.
Recommended to use manual calculation

Close

Apply

So, you have to use manual calculation and enter the volume of lubricant and lubrication interval recommended by machine manufacturer and then you can edit the feed interval as show below

Sipoal Settings :

Point Type :

☒ Single Point
 ☐ Dual Point

Feed

0.06 ml

every

2

Hour(s)

Feed Volume

Feed Interval

Lubrication Period (?)	Total Dosages
149 Days	1777

Point Type:

Point type is used to mention the number of lube points the Sipoal device has to apply the lubricant.

Available point type options:

- ☒ Single Point
- ☐ Dual Point

Feed Volume:

Feed Volume is the amount of lubricant will be applied.

Feed Interval:

Feed Interval is the interval between each lubrication process.

Lubrication Period:

Lubrication period indicates the days that usable capacity (ml) will be used. After that, the cartridge has to be refilled.

Total Dosages:

Total Dosages indicate the count of the lubrication process.

Fill all the above fields and click save to set these settings to your SIPOAL device.

iii. Disconnecting the Device

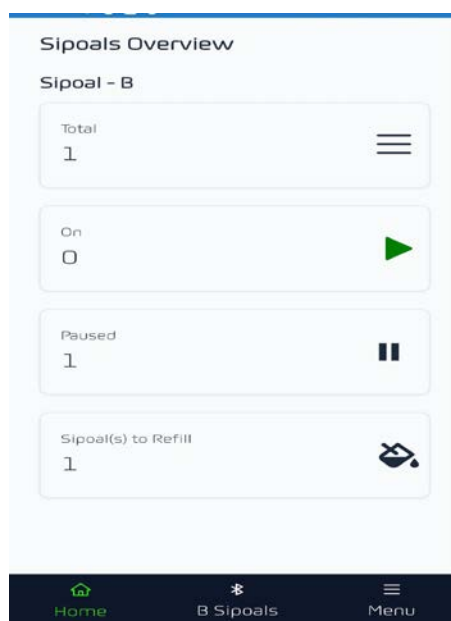
Users can disconnect the device manually by clicking **disconnect** on top right corner of the app or the device will automatically disconnect after 5 minutes of connectivity. Once the device disconnects, the settings or status changes will be updated on the device and the device will starts to function as per the updated changes.

10. HOME Page

Click on the **Home** icon to go to home page:

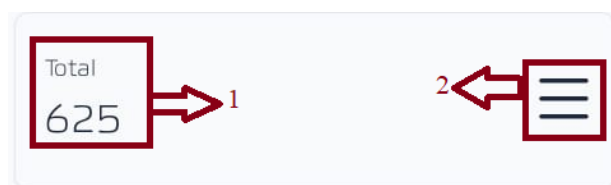


You will be in the home page.



a. SIPOALS Overview

i. Total Count

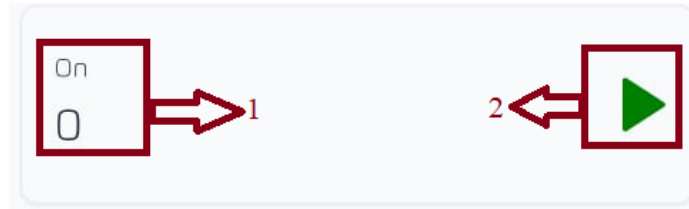


1. Total number of SIPOAL devices will be displayed here.

2. Click this to view all the SIPOAL devices.

ii. ON Devices

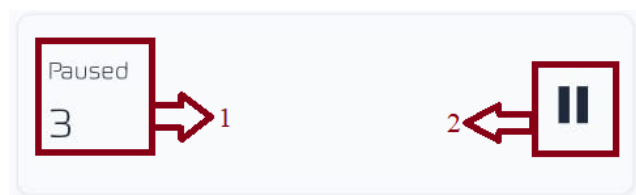
When the device is ON, the lubrication process is happening.



1. Total number of ON SIPOAL devices will be displayed here.
2. Click this to view all the ON SIPOAL devices.

iii. Paused Devices

When the device is paused, the lubrication process is paused.



1. Total number of paused SIPOAL devices will be displayed here.
2. Click this to view all the paused SIPOAL devices.

iv. Battery Low Devices

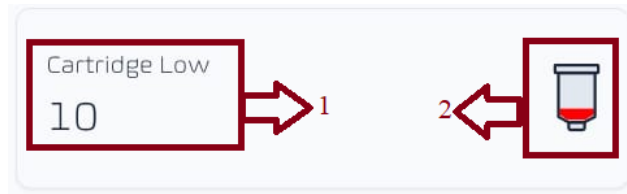
It indicates the devices which have battery less than 20 percentage.



1. Total number of Battery Low devices will be displayed here.
2. Click this to view all the Battery Low devices.

v. Cartridge Low Devices

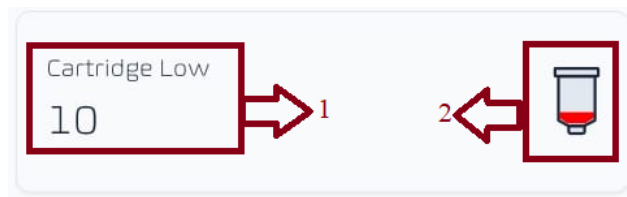
It indicates the devices which have Cartridge level less than 20 ml.



1. Total number of Cartridge Low devices will be displayed here.
2. Click this to view all the Cartridge Low devices.

vi. Sipoal(s) to refill

It indicates the devices which requires Cartridge refills.



1. Total number of SIPOALS to refill will be displayed here.
2. Click this to view all the SIPOALS which requires refill.

vii. Unknown Devices

The devices are considered as Unknown, when no data received from the device yet.

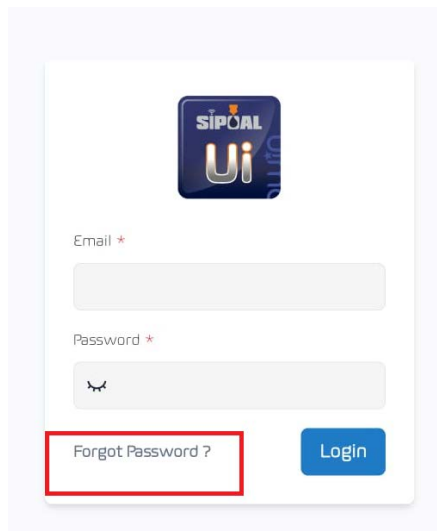


1. Total number of unknown devices will be displayed here.
2. Click this to view all the unknown devices

11. Forgot Password

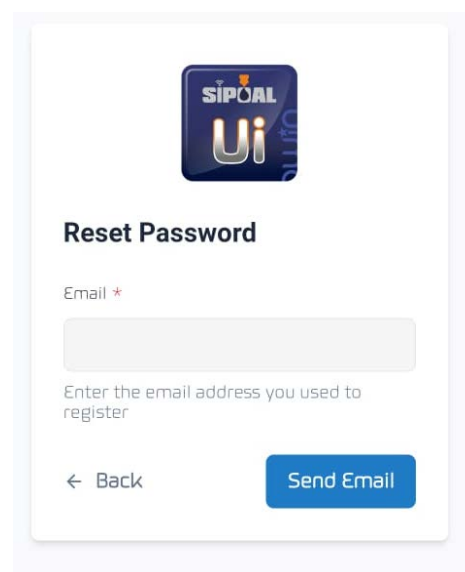
User can request to reset their password when they forgot their password.

If you click on forgot password, it will take you to reset password page.




11.a Reset Password

Enter your email ID which linked with this account and click on send email to receive reset password email.



Enter your email ID which linked with this account and click on send email to receive reset password email.



Reset Password

Email *

Enter the email address you used to register

[← Back](#) [Send Email](#)

Note:

You have to reset the password within 48 hours from receiving the email. If not, you have to request again for resetting the password.



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