

User Manual

New OCEMS Portal

(Online Continuous Emission/Effluent
Monitoring System)

Version 1.1

Date: 19.12.2025

Central Pollution Control Board
Delhi

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Summary of Steps for Registration and Data Transmission

To successfully register as an industry on the portal, the user must complete **all four mandatory steps**. Each step ensures that the industry's information, operational setup, and technical integration are properly captured and validated.

Step 1: Adding Industry Details

- The user begins by entering the core industry information such as name, address, type of industry, and compliance identifiers, on the portal (<https://cems.cpcb.gov.in>)
- This step establishes the industry's profile in the system and serves as the foundation for all subsequent activities.

Step 2: Adding Stations

- Once the registration is processed by CPCB team, user will receive login credentials over email. Using these credentials, user can login to portal (<https://cems.cpcb.gov.in>) and add station details. The details to add station are provided in **Section D** of this document.
- The user must define and add operational stations (station type, station name and date of installation etc.
- Each station entry should include location details and functional attributes to ensure accurate tracking of activities.
- After submission of station details, the request will be processed by CPCB. Once the request is processed, users will receive email containing API configuration details.

Step 3: Device Registration

- Once the station details are submitted by the user, they have to register the IoT/Datalogger by downloading the executable file from the portal and running on their data-logger. The detailed steps are in Section **D.4** of this document.

Step 4: IoT/Data-logger Configuration

The final step involves configuring IoT devices to integrate with the portal.

- Users can refer to API document provided at the homepage of the portal for data-fields and configuration process. The fields for API configuration will be sent to registered email address of the user, once the station is submitted and verified (please refer to Step No. 2 above).

A. Introduction

A.1 Purpose of this Manual

This user manual provides comprehensive guidance on how to use ODAMS effectively. It covers all major features, functions, and procedures to help users navigate and utilize the portal efficiently.

A.2 Portal Overview

ODAMS is a web-based platform designed for the industry users to register and view the data pushed by industry users to CPCB central server. The portal provides the following features

- Register Industry
- Calibration details
- Live Data and historical data
- Remote Inspection

A.3 Target Audience

This manual is intended for:

- Industry users
- New user onboarding

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B. Getting Started

B.1 First-Time Access

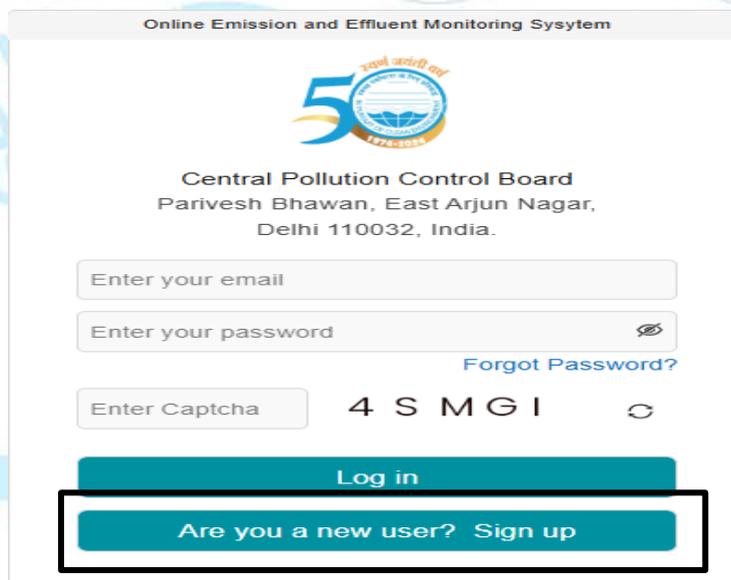
Portal URL

Access the portal at: <https://cems.cpcb.gov.in/#/p/login>

Important: Bookmark this URL for easy future access.

B.2 New Industry Registration

- For new industry registration, the user first opens the provided link. <https://cems.cpcb.gov.in/#/p/login>
- After opening the link, a new page will appear. The user needs to click on the "New User Sign Up" option as shown below.



Online Emission and Effluent Monitoring System

 50
1974-2024

Central Pollution Control Board
Parivesh Bhawan, East Arjun Nagar,
Delhi 110032, India.

Enter your email

Enter your password 

[Forgot Password?](#)

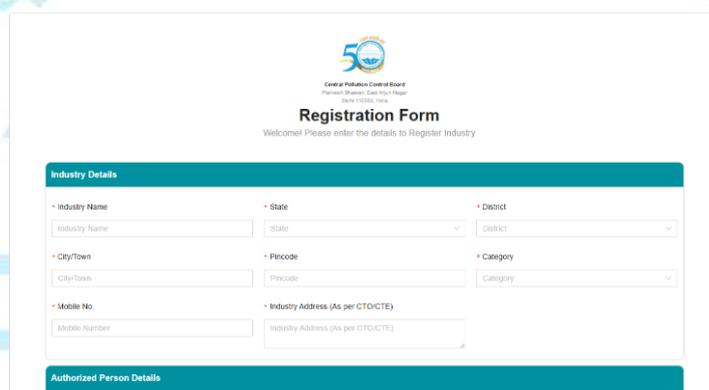
Enter Captcha 4 S M G I 

Log in

Are you a new user? Sign up

- The Registration Form will be open. The user must enter all required details including Industry Information, Authorized Person details, and other necessary information.

Note: The same Authorized Person's email ID and mobile number cannot be used for more than one industry registration.



Central Pollution Control Board
Prakash Bhawan, East Vinay Nagar
New Delhi 110028, India

Registration Form

Welcome! Please enter the details to Register Industry

Industry Details		
• Industry Name	• State	• District
Industry Name	State	District
• City/Town	• Pincode	• Category
City/Town	Pincode	Category
• Mobile No.	• Industry Address (As per CTO/CTE)	
Mobile Number	Industry Address (As per CTO/CTE)	

Authorized Person Details

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- In the Authorized Person Details section, the user must first validate the email by clicking the Validate button provided below.
- If the user's email is already registered, the system will not allow registration again. An error popup will appear on the screen as shown.
- Once the email validation is completed, the user can proceed to enter the remaining required details.

The screenshot displays a web form titled "Authorized Person Details". It contains three input fields: "Authorized Person Name", "Authorized Person Mobile No.", and "Authorized Person Email Id". The email field contains "abc@gmail.com" and a "Validate" button is highlighted with a black border. Below the form, a red error message box is shown with a white 'X' icon and the text "Error Email already exists". The background features a large, faint watermark that reads "OF CLEAN ENVIRONMENT" and "CPCB".

- While entering other details, for setting Latitude and Longitude, click the Map symbol. A map will open where the user can navigate and set the industry location.
- After setting the location, click Set Location. The Longitude and Latitude details will automatically appear.

Other Details

* Industry Classification: Large

* Industry Type: Orange

* Industry is ZLD?: Yes No

* Industry is GPI?: Yes No

* Industry in 17 Category: Yes No

* Industry in Delhi-NCR: Yes No

* Industry is Delhi-NCR Red Category: Yes No

* Valid CTO: Yes No

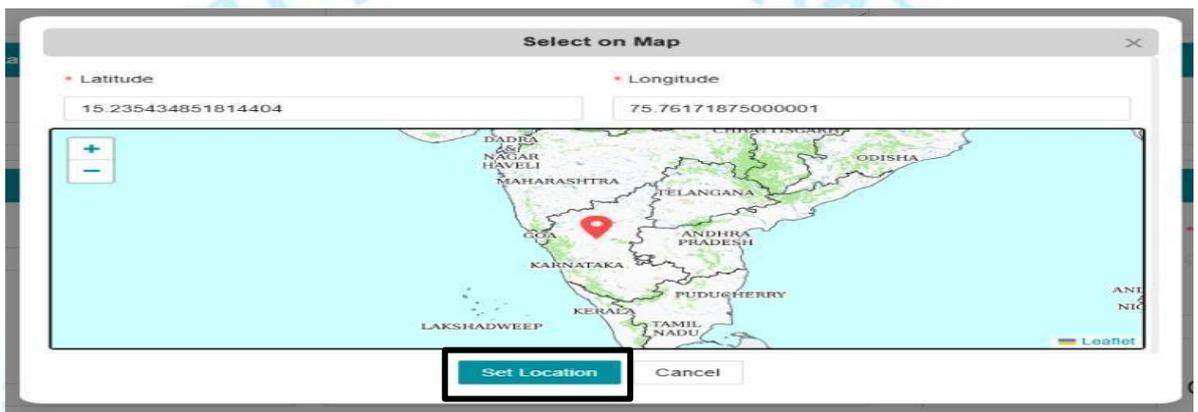
* Consent Number: 1234567890

* Latitude: 14.003793863815591

* Longitude: 76.37695312500001

* Enter Captcha: 1MZFO

[Submit](#) [Already registered? Log in](#)



- After entering all the details, click the submit button. The request will be sent to the admin for approval.
- Once the Admin approves the new sign-in request, a Password Setup mail will be sent to the Authorized User's registered email.
- The user needs to set a new password using the link provided in the received mail.

Other Details

* Industry Classification: Large

* Industry Type: Orange

* Industry is ZLD?: Yes No

* Industry is GPI?: Yes No

* Industry in 17 Category: Yes No

* Industry in Delhi-NCR: Yes No

* Industry is Delhi-NCR Red Category: Yes No

* Valid CTO: Yes No

* Consent Number: 1234567890

* Latitude: 14.003793863815591

* Longitude: 76.37695312500001

* Enter Captcha: 1MZFO

[Submit](#) [Already registered? Log in](#)

SetUp Your Password Inbox x



CPCB Registration <

to me ▾

CPCB

Dear Sir/Madam,

The User has been registered. Use the below link to set up the password. [aHR0cHM6Ly9ydGRtcy5kZXlyZ2xlbmNzZXJ2ZXluY291Iy9wL3VzZXItc2lXVlX3Rva2VuP3FFRUJFdllxYTc3QWdFQ0FVWVJQRUE1SWNmYzJwQ2R4ZHVkWG95VFVbBbFJTQVZHRk84MEIFVHprQldEY1Y3VtnNTNkOWIzM4aUdOeFQ5Q0JlcURrakQwUkRFQmYzczFRPQ%3D%3D](#) Please, set your password within 24 hours.

Thanks & Regards
CPCB Team

- The user needs to set a new password using the link provided in the received mail.
- After clicking the link received in the mail, the below page will open where the user can set a new password.

Online Emission and Effluent Monitoring System



Central Pollution Control Board
Parivesh Bhawan, East Arjun Nagar
Delhi 110032, India

Password

please set password to your account

Password ?

Enter New password

Please enter the password!

Confirm Password

Confirm password

Please confirm password!

Captcha

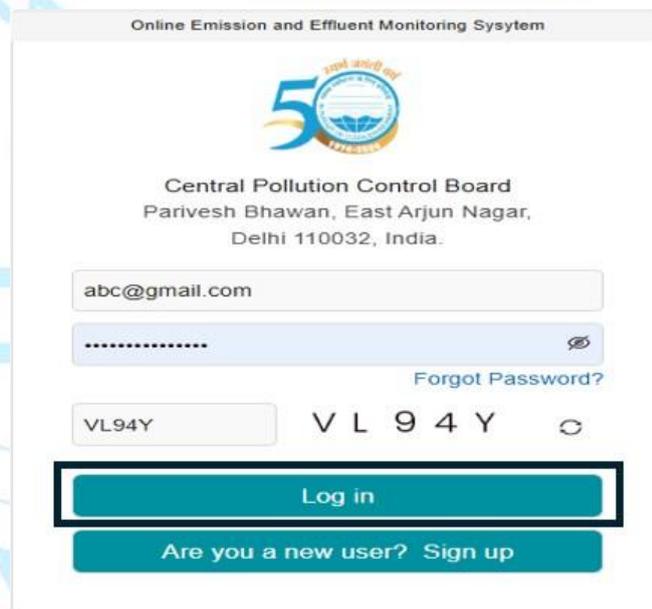
Enter Captcha O I 1 W F

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C. Login to ODAMS

- After creating the password, the user can log in by entering the registered email and password on the login page, then clicking the Login button.
- After clicking Login, the user will receive a Login OTP on the registered email.



The screenshot shows the login interface for the Online Emission and Effluent Monitoring System (ODAMS). At the top, it says "Online Emission and Effluent Monitoring System" and features the 50th anniversary logo of the Central Pollution Control Board (CPCB). Below the logo, the text reads "Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi 110032, India." The login form includes an email input field with "abc@gmail.com", a password input field with a masked password and a "Forgot Password?" link, and a captcha input field with "VL94Y". A "Log in" button is highlighted with a black border, and a "Sign up" button is located below it.

CPCB

OTP for OCEMS Inbox x



CPCB Registration <1
to me ▾

Dear Sir/Madam,

Use this OTP(One-Time Password) 8348 for login.

Thanks & Regards
CPCB Team

This is auto generated mail, please do not reply.

- The received OTP must be entered in the verification code popup shown on the screen.
- If the user enters the correct OTP, the ODAMS page will open successfully. If the details entered are incorrect, an error popup will be displayed.



Central Pollution Control Board
Parivesh Bhawan, East Arjun Nagar
Delhi 110032, India

Verification Code

An OTP has been sent to the email address provided:

@gmail.com

Please Enter the OTP here.

*	*	*	*
---	---	---	---

04:53 Resend OTP

Submit

[← Back to Login](#)



- Menu
- Configurations
- Industry Create
- Industry Remote Check
- Calibration Approval
- Reports
- Connectivity Status
- Industry Dashboard
- E-Verification
- E-Inspection

Industry Dashboard

SNO	Industry Code	Industry Name	Status	Address	State	City	Category	Actions
1	0024KA00054	Test_industry1		Ysecil park ele ...	Karnataka	Bengaluru	Aluminum	   

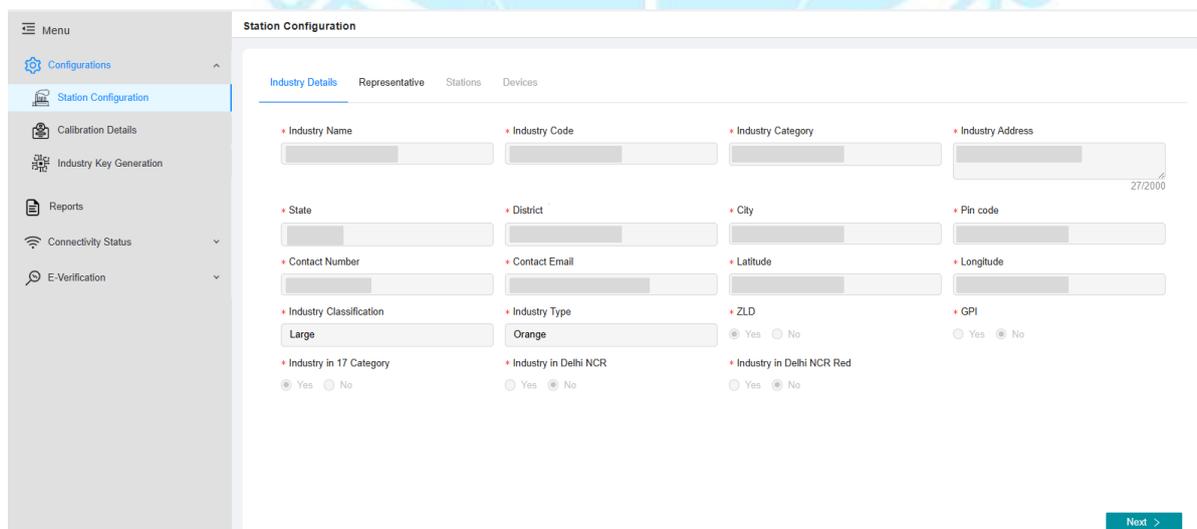
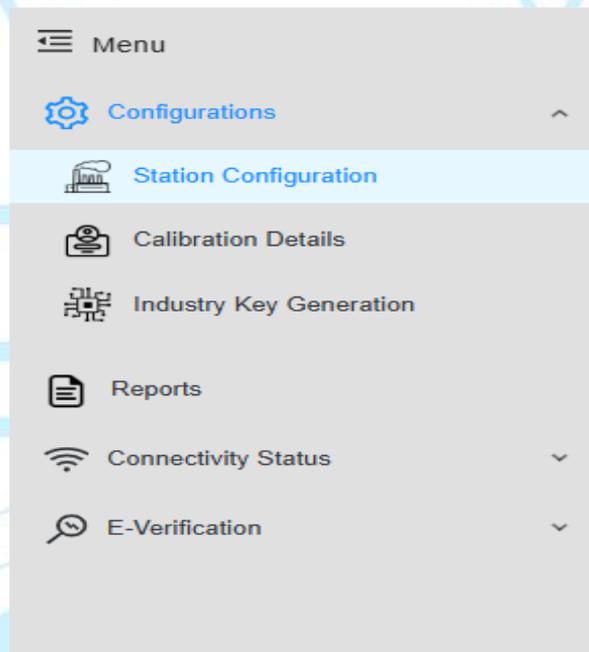
Total Records: 1



D. Industry Details addition process

D.1 Industry Creation Page

- After successful login into the portal user needs to create industry creation.
- In industry creation initial step user all industry details will appear in industry details column shown below and then click the next.

A screenshot of the 'Station Configuration' form in a web application. The form is titled 'Station Configuration' and has a sidebar menu on the left with the same items as the previous image. The main content area is divided into four tabs: 'Industry Details', 'Representative', 'Stations', and 'Devices'. The 'Industry Details' tab is active. The form contains several input fields and checkboxes. The fields are: 'Industry Name', 'Industry Code', 'Industry Category', 'Industry Address', 'State', 'District', 'City', 'Pin code', 'Contact Number', 'Contact Email', 'Latitude', 'Longitude', 'Industry Classification' (with a dropdown menu showing 'Large'), 'Industry Type' (with a dropdown menu showing 'Orange'), 'ZLD' (with radio buttons for 'Yes' and 'No'), and 'GPI' (with radio buttons for 'Yes' and 'No'). There are also three checkboxes for 'Industry in 17 Category', 'Industry in Delhi NCR', and 'Industry in Delhi NCR Red'. A 'Next >' button is located at the bottom right of the form.

D.2 Representative Addition

- In the Representative section, the user can add a Representative by clicking the Add Representative button.
- Before clicking the Add button, the user must first enter all the required details correctly.
- After entering the details, the Representative information will be displayed in the table below.

The screenshot shows the 'Industry Create' interface with the 'Representative' tab selected. The form fields are as follows:

Industry Name	Industry Category	Industry Location
Test_industry1	Aluminium	Ysecit park electronic city

Form fields and buttons:

- + Add Representative** (highlighted with a black box)
- * Name: Enter Name
- * Email: Enter E-mail
- * Mobile: Enter Number
- * Landline: Enter landline
- * Responsible For Plant/Process: Enter Responsible For Plant/Process
- Add** (highlighted with a black box)

Table below the form:

Name	Email	Mobile	Landline	Responsible for Pla...	Status	Actions
plant_person1				Plant	Awaited	

D.3 Station details addition

- In the station section, the user can add a station detail by clicking the Add Station details button.
- While configuring the station, the user can click the Add Camera Details button. Once clicked, a popup will appear where the user can select the camera type, fill in the required camera details, and then click the Save button.

The screenshot shows the 'Industry Create' page with the following details:

- Industry Name:** Rockwell Automation Test
- Industry Category:** Aluminium
- Industry Location:** Silk Board

The 'Add Station Details' section includes the following fields:

- Station type:** Select station type (dropdown)
- Station name:** Enter station name (text input)
- Date Of Installation:** Select date (calendar icon)
- Data Transmission:** Select Data Transmission (dropdown)
- Internet Communication:** Select internet communication (dropdown)
- Representative:** Select representative (dropdown)
- Upload Image with Geo Coordinates:** Choose File (No file chosen) and Upload Self Declaration Form (Choose File, No file chosen)
- Station Location:** Enter Industry Address (text input)

A red box highlights the 'Add Camera details' button. An 'Add' button is located at the bottom right of the form.

The 'Camera Details' modal window shows the following options:

- Webcam
- DVR

A red box highlights the radio buttons. A 'Save' button is located at the bottom right of the modal.

The 'Camera Details' modal window shows the following configuration fields for a Webcam:

- Webcam:**
 - Make:** Select Make (dropdown)
 - Model:** Select Model (dropdown)
 - IP Address:** Enter IP Address (text input)
 - PTZ Port:** Enter PTZ Port (text input)
 - RTSP Port:** Enter RTSP Port (text input)
 - NVR Details:** Select NVR Details (dropdown)
 - User Name:** Enter User Name (text input)
 - Password:** Enter password (text input)
 - Latitude:** Enter Latitude (text input)
 - Longitude:** Enter Longitude (text input)
 - Channel:** Enter Channel (text input)

A red box highlights the 'Save' button at the bottom right.

- Before clicking the Add button, the user must first enter all the required details correctly.
- After entering the details, the station list will be displayed on the table shown below.

Menu

- Configurations
- Industry Create**
- Industry Remote Check
- Calibration Approval
- Reports
- Connectivity Status
- E-Verification

Industry Create

Industry Details Representative Stations Devices

+ Add Station Details

* Station type: Select station type

* Station name: Enter station name

* Date Of Installation: Select date

* Data Transmission: Select Data Transmission

* Internet Communication: Select internet communication

* Representative: Select representative

* Upload Image with Geo Coordinates: Choose File No file chosen Add Camera details

* Upload Self Declaration Form: Choose File No file chosen

* Station Location: Enter Industry Address

0/2000

Add

Stations List

Station Type	Station Name	Area Type	Representative	Station Photo	Self Declaration	Status	Actions
Emission	OD24KA00054...	Banglore	plant_person1	image 1.png	Ind	Approved	Approved

Total Records: 1

< Previous Next >

D.4 Device details creation and Device Registration

- In the Device section, the user can add device details by clicking the Add IoT Details button. After that, the user can also add Analyzer and Parameter details (as shown in the below).
- Before clicking the Add device button, the user must first enter all the required details correctly.

Industry Name: Test_Industry1

Industry Category: Aluminium

Industry Location: Ysecit park electronic city

+ Add IOT Details

* Station: Select Station

* IOT Name: Enter IOT Name

* IOT Serial No.: Enter IOT Serial No.

* Additional Information: Additional Information

* Protocol: Select Protocol

* Upload IOT Logger Photo: Choose File No file chosen

File Formats: jpg, png and File Size: 5MB

+ Add Analyzer and Parameters

Min Value of

+ Add Analyzer and Parameters

Sl no.	Parameter	Make	Model	Technology	Subtechnology	Unit	Min Value of Prescribed Limit
1	Select Parameter ▾	<input type="text"/>	<input type="text"/>	Select Technology ▾	Select SubTechnology ▾	Select unit ▾	<input type="text"/>

Add Device

- After clicking the Add Device button, a popup will appear their user can receive token id information shown below. A mail will also be sent to the registered email containing the device information.

Register Device

←



Token ID : zNHB2geOm8xOyMJ_uYTo628tt!36b4ZMIO7_48po3VI=
Note: These details will be sent to the registered email ID

Instructions

1. Download the above file and run it with admin privileges
2. Please Enter the device ID
3. Please Enter the device Token Id

CPCB

Token Details - OD24KA00054_Emission_line1_track1 Inbox x



CPCB Registration
to me

CPCB

Dear Sir/Madam,

Please find the Industry details of the registered device's below - Test_industry1

Industry Id: industry_10032
Device ID: device_61932
Device name: OD24KA00054_Emission_line1_track1
Station Id: station_38857
Station Name: OD24KA00054_Emission_line1
Token Id: \$2b\$10\$ULurXdXYxQvdOgp15KeK8Oy5cKk4mbECfSldXkn9q5r3JyD9tzK5q

Note:After approvals, please use these details when pushing data through the API. For parameter details, see the device page.

Thanks & Regards

CPCB Team

This is auto generated mail, please do not reply.

- After adding the device, the user must register the device by downloading the executable (.exe) file from the Exe Generation page shown below. Based on the Operating System, the user can download either the Windows or Linux file.

Note: While uploading data, it is mandatory for the user to have their device registered.

- Once the downloaded file is opened, the user must enter the Device ID and Device Registration Token to complete the device registration. After successful registration, the status will change to Device Registered.

```

Device Register Process Initialization is started
Please enter your device ID:device_61937
Please enter your device Register token:zNHB2ge0m8x0yMJ_uYTo628ttI36b4ZMIO7_48po3VI=_

```

- After entering the correct device ID and token, the device will be registered successfully. However, if the entered device ID or token is incorrect, error message will appear.
- Below is the image showing successful device registration on **windows**.

```

Device Register Process Initialization is started
Please enter your device ID:device_61937
Please enter your device Register token:zNHB2ge0m8x0yMJ_uYTo628ttI36b4ZMIO7_48po3VI=
Validating Device Token with ODAMS Server...
200
200
Device Auth Token Validated Successfully
Auth ID Generated Successfully
Uploading the Auth ID to ODAMS Server.....
Token: zNHB2ge0m8x0yMJ_uYTo628ttI36b4ZMIO7_48po3VI=
Device ID: device_61937
Machine ID: 4C4C4544-004C-4410-8031-C6C04F574632
Response Status Code: success
Response Content: Device Register Successfully!
Device Added Successfully
Directory already exists
Current directory: RTDMS
exec_path: RTDMS\cron_main.exe
Establishing minio connection
Established MinIO connection
Downloaded 'windows/cron_main.exe' to 'RTDMS\cron_main.exe'
new_exec_path: RTDMS\hello.exe

```

- Below is the image showing successful device registration on **Linux**.

```

~/main
Device Register Process Initialization is started
Please enter your device ID:device_117
Please enter your device Register token:Un3kGzKG-2awocFdseGLjlv4JTF8PHvXrBCr8PdrksA=
Validating Device Token with ODAMS Server...
200
200
Device Auth Token Validated Successfully
Auth ID Generated Successfully
Uploading the Auth ID to ODAMS Server.....
Token: Un3kGzKG-2awocFdseGLjlv4JTF8PHvXrBCr8PdrksA=
Device ID: device_117
Machine ID: fcf9c44edb9e40fe97309171b835b4cb
Response Status Code: success
Response Content: Device Register Successfully!
Device Added Successfully
Directory does not exists so creating it
Current directory: RTDMS
exec_path: RTDMS/cron_main
Downloaded 'linux/cron_main' to 'RTDMS/cron_main'
new_exec_path: RTDMS/hello
Downloaded 'linux/hello' to 'RTDMS/hello'
Set executable permissions for RTDMS/cron_main.
Set executable permissions for RTDMS/hello.
exec_path: RTDMS/cron_main
Running executable: RTDMS/cron_main with arguments: ('Un3kGzKG-2awocFdseGLjlv4JTF8PHvXrBCr8PdrksA=', 'device_117', 'fcf9c44edb9e40fe97309171b835b4cb')
Token: Un3kGzKG-2awocFdseGLjlv4JTF8PHvXrBCr8PdrksA=
Device Name: device_117
Machine ID: fcf9c44edb9e40fe97309171b835b4cb
Before cron job initialization
Inside Cron Job Function
Cron job Initiated
Formed cron job --> 0 *4 * * * ./RTDMS/hello Un3kGzKG-2awocFdseGLjlv4JTF8PHvXrBCr8PdrksA= device_117 fcf9c44edb9e40fe97309171b835b4cb >> /data/machine_inf/logs/test/cron_app.log 2>&1
Cron job created successfully.

```

Station	IOT Name	IOT Serial No.	Additional Information
Protocol RS485	Upload IOT Logger Photo image 1.png	StatusDevice Registered	
Search for Parameter			

- After entering all the details, the user can click Save and then Submit to complete the process.
- After submitting, the approval request will be sent to the Admin. Once approved, all device registration confirmation will be sent to the user's registered email.

Sl no.	Parameter	Make	Model	Technology	Subtechnology	Unit	Min Value of Prescribed Limit	Max Value of Prescribed Limit	Certification	Upload Certificate	Upload Analyzer Manual
1	ammonia	make1	iiot_1	Emission tech1	Mnc 12	%	0	100	MCERTS	Industry_Emission_Test_Declaration.pdf	Industry_Emission_Test_Declaration.pdf

< Previous

Save Submit

Approval Mail - Test_industry1 Inbox x

CPCB Registration <
to me ▾

CPCB

Dear Sir/Madam,

The Industry user had been approved by CPCB .

Thanks & Regards
CPCB Team

D.5 Industry details edit request:

- If a user wants to change previously submitted device details, there is an Edit option available. The user needs to click on it to make the changes.
- After clicking the Edit button, an edit access request will be sent to the Admin. Once approved, an approval message will be sent to the user's

registered email. Then, the user can make changes and resubmit the details.

+ Add IOT Details

OD24KA00054_Emission_line1_track1 Approved 

Approval Confirmation: Edit Access Granted Inbox x



CPCB Registration
to me

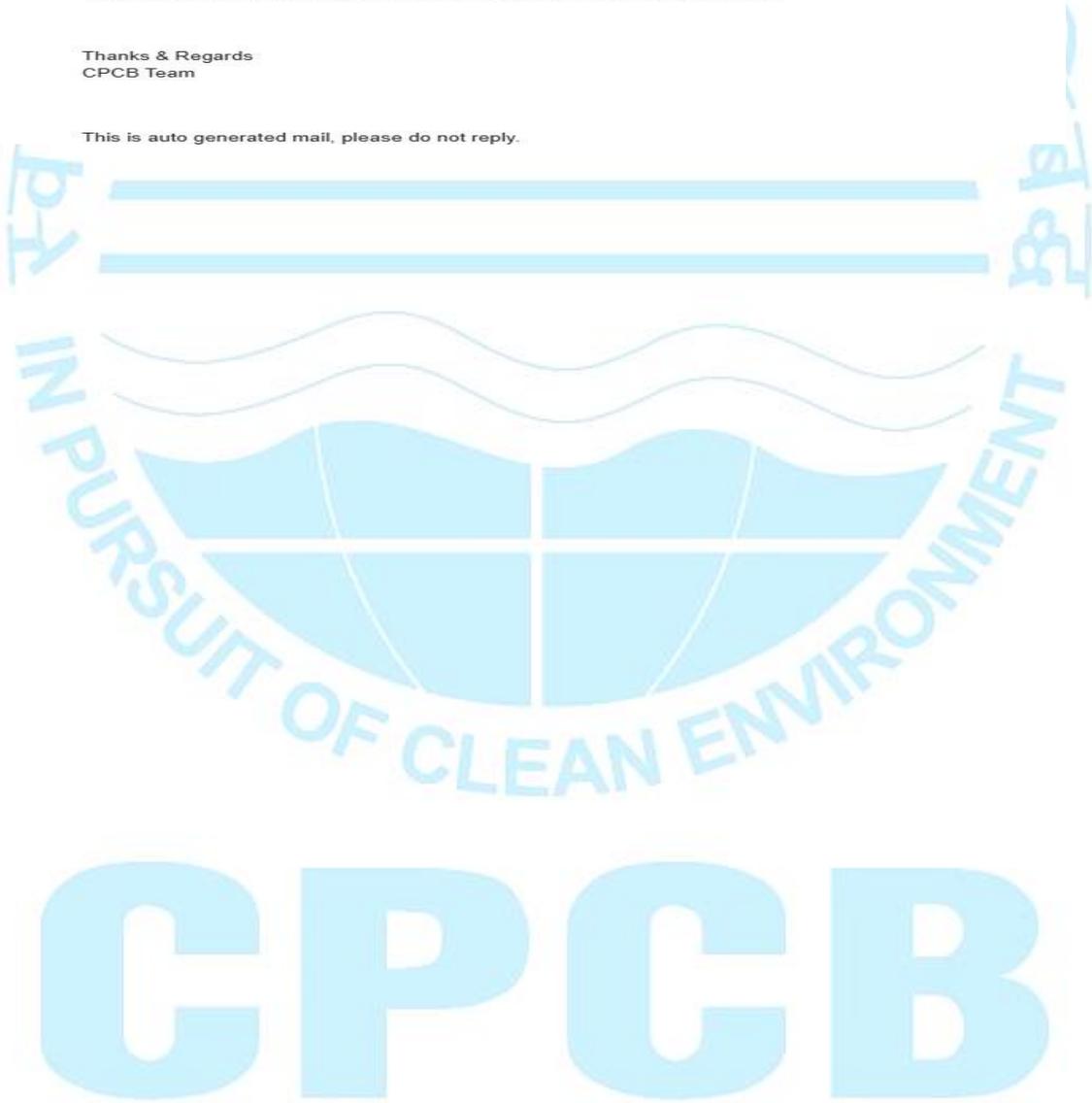
CPCB

Dear Sir/Madam,

Your edit access has been approved please log into portal and edit the data.

Thanks & Regards
CPCB Team

This is auto generated mail, please do not reply.



E. Contact Information

For any queries, please reach out to CPCB at cems.cpcb@nic.in



CPCB