

The background of the entire page is a photograph of a robotic arm on the left and a hand holding a tablet on the right. The image is overlaid with a dark blue gradient. The tablet screen shows a dashboard with a green gauge and the text 'Machine produces'.

USER MANUAL DOCUMENT

One City One Operator
v2.0 Firm panel
27th January, 2024

Intense Technologies Limited

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1. INTRODUCTION

The OCOP project addresses the challenges faced by growing cities and towns in maintaining sewage infrastructure. Municipal bodies struggle with aging assets and poor maintenance, prompting the need for a One City One Operator model. This model introduces long-term O&M contracts to set new benchmarks in system maintenance and effluent treatment. Professional companies are invited to manage both the collection system and sewage treatment plants, ensuring single-point accountability and overall reliability.

Recognizing water's significance for agriculture and industrial growth, the project promotes wastewater recycling and reuse at a low cost, catering to local industry and irrigation needs. In summary, OCOP aims to revolutionize sewage infrastructure management through innovation, accountability, and sustainable practices.

1.1 Brief Overview

The One City One Operator (OCOP) model aims to revolutionize sewage infrastructure management in growing cities. Facing challenges of aging assets and poor maintenance, OCOP introduces long-term contracts, inviting professional companies to manage both collection systems and sewage treatment plants. The model emphasizes accountability, incorporating a Major Replacement Fund for prompt equipment replacement. Public health concerns are addressed with a mandated 24/7 customer care center. OCOP embraces technology, encourages profit-sharing, and explores power generation, offering innovative and sustainable solutions for wastewater recycling and reuse in agriculture and industry.

1.2 Purpose of the Manual

The purpose of the manual would be to provide comprehensive guidance and information to organization involved in the implementation, management, and operation of the One City One Operator (OCOP) model for sewage infrastructure. The manual aims to:

- ❖ Educate members
- ❖ Guide Implementation
- ❖ Clarify Responsibilities
- ❖ Facilitate Maintenance
- ❖ Provide Reference Material

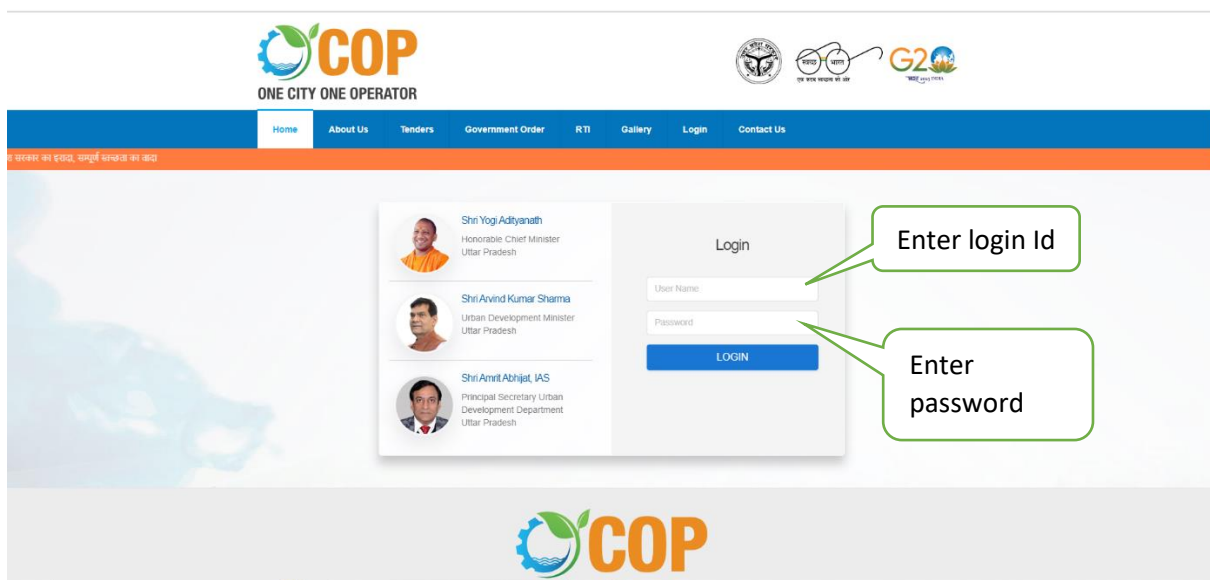
2. TECHNICAL SPECIFICATION

- Operating system: Windows, macOS, Linux.
- Web browsers: A modern web browsers Google chrome, Mozilla Firefox, Microsoft Edge.
- Internet connection should be there.

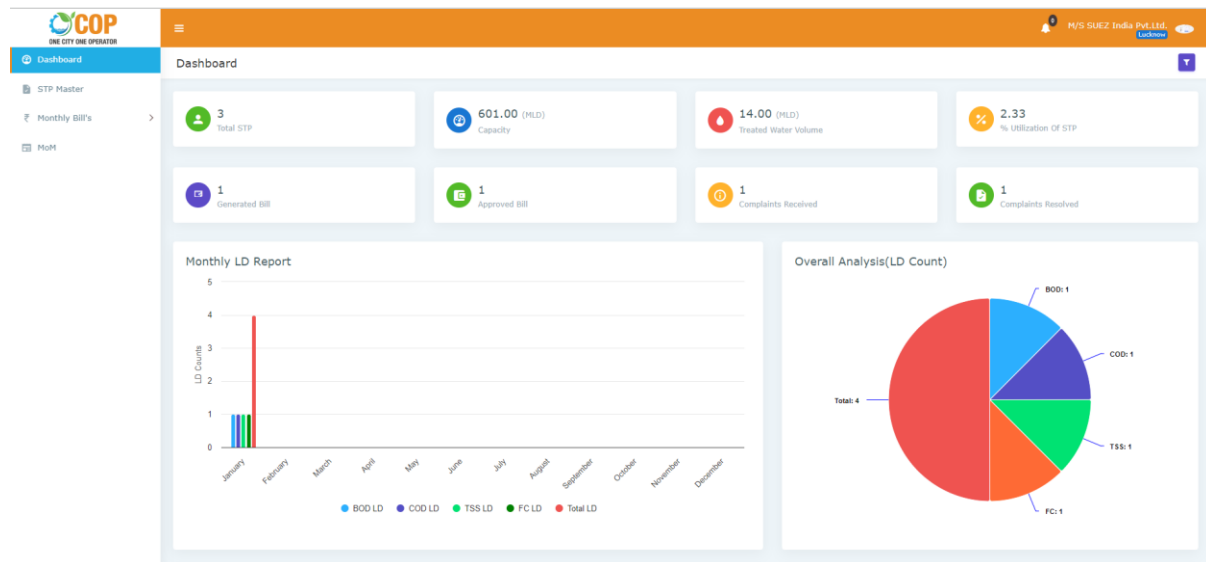
3. GETTING STARTED

3.1 STP Account

- ❖ Go to <http://occo.intense.in>



- ❖ Enter Firm Id and Password for entering into that account then click on Login button.

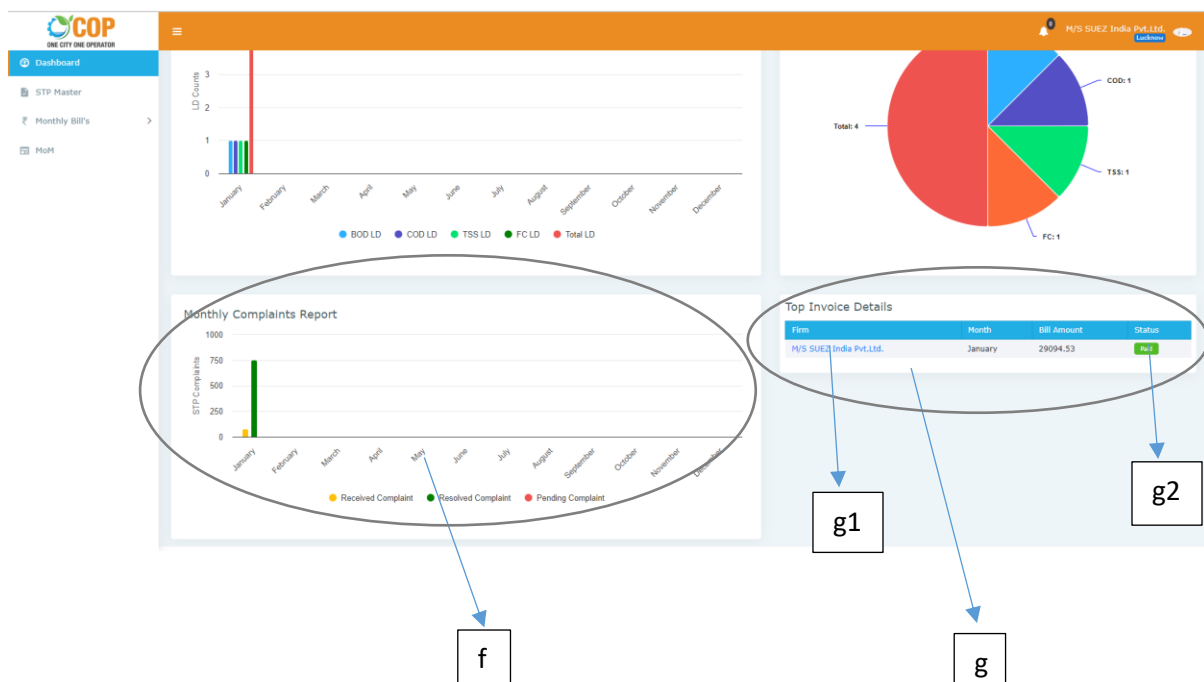


- Firm user entered into their authorized account.

3.2 Firm's Dashboard Overview

- After logging in, you will be land into a Firm dashboard. The dashboard provides a various feature to Firm user.





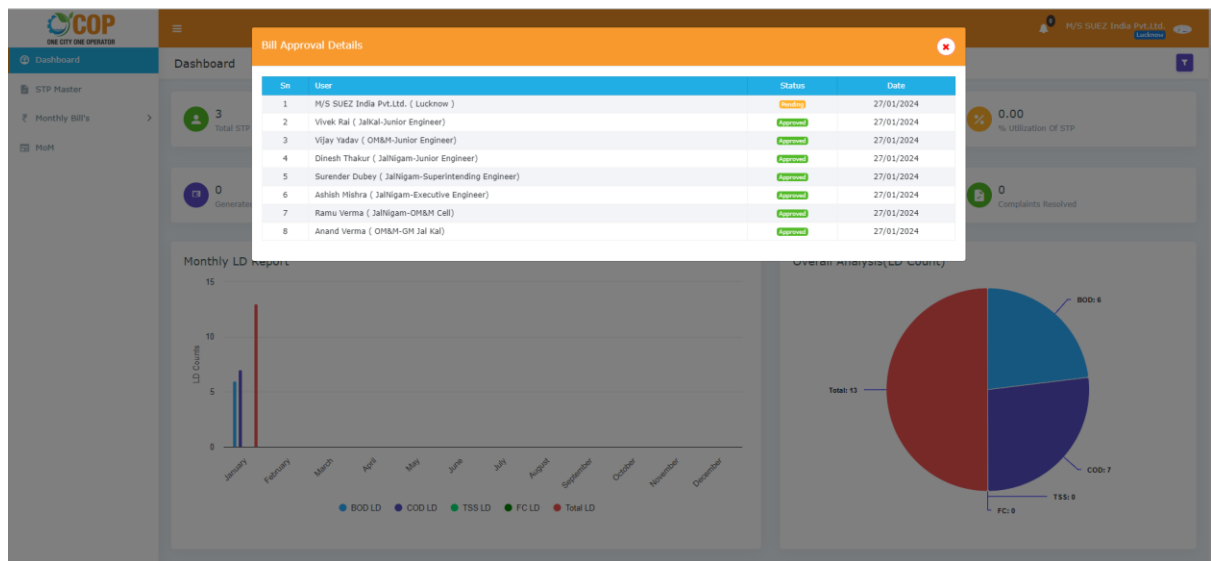
❖ g1 shows Firm view billing report

View Billing Report

M/S SUEZ India Pvt.Ltd. Firm /11AAAAA1111Z1A1 GST No./Lucknow Zone /Payment for the month of December

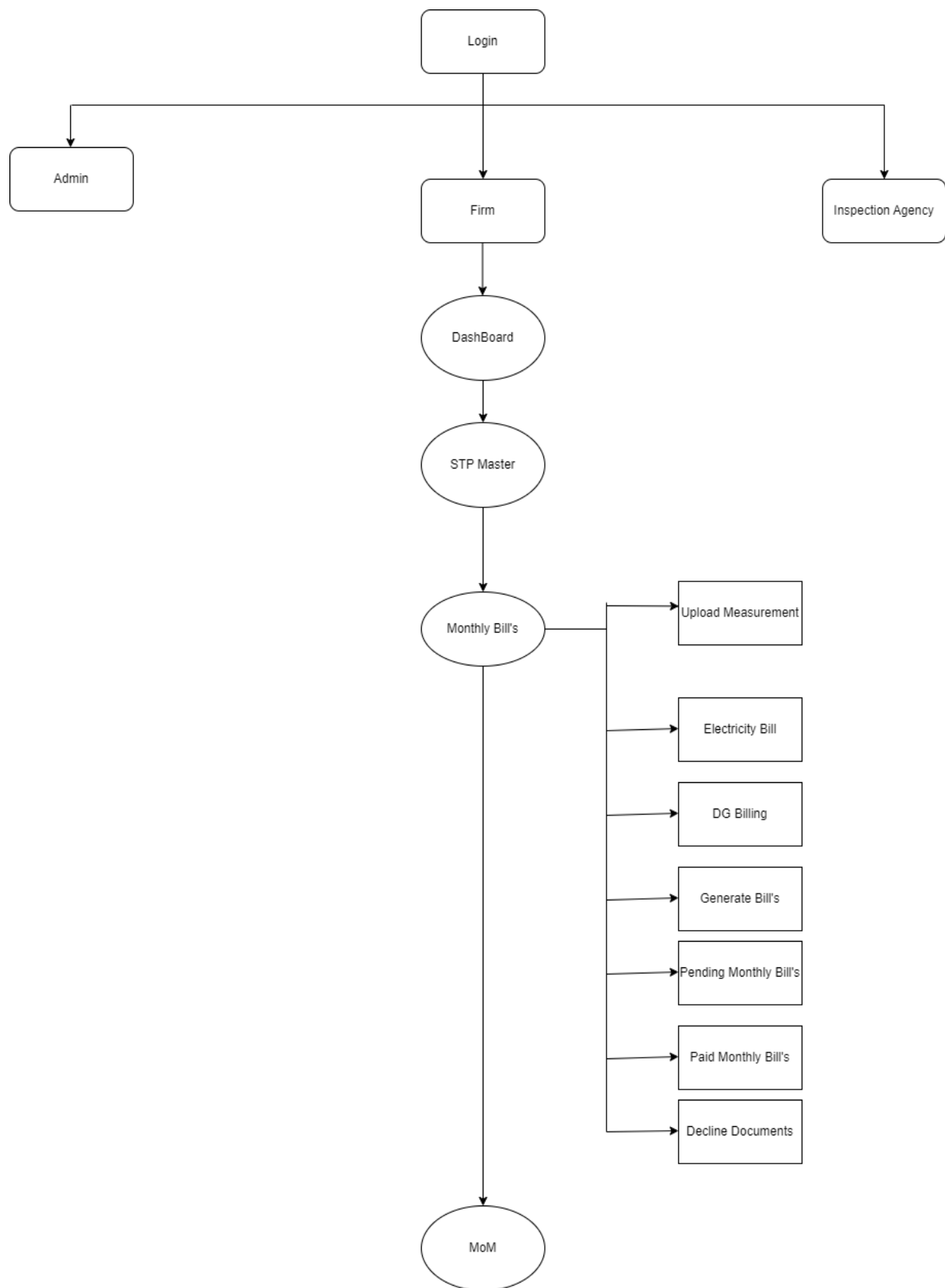
Sl. No	Date	STP	Amount of STP	Capacity	Actual Achieved	Treated for Payment	As Per CB	As Per Actual	As Per CB	As Per Actual	Reported Value	BOD (50%)	LD	Reported Value	COD (15%)	LD	Reported Value	TSS (25%)	LD	Reported Value
1	04/12/2023	14 HLD	72736.33	14.00	12.00	12.00	43641.80	37407.36	29094.53	24938.17	30.00	12469.09	0.00	40.00	3740.73	0.00	50.00	6234.54	0.00	600.00
2	05/12/2023	14 HLD	72736.33	14.00	14.00	14.00	43641.80	43641.80	29094.53	29094.53	29.00	14547.27	0.00	40.00	4364.18	0.00	40.00	7273.63	0.00	100.00
3	06/12/2023	14 HLD	72736.33	14.00	14.00	14.00	43641.80	43641.80	29094.53	29094.53	20.00	14547.27	0.00	20.00	4364.18	0.00	49.00	7273.63	0.00	200.00
4	07/12/2023	14 HLD	72736.33	14.00	13.00	13.00	43641.80	40524.53	29094.53	27016.35	30.00	13508.18	0.00	110.00	10000.00	0.00	40.00	6734.09	0.00	300.00

❖ g2 shows Paid bills approval details

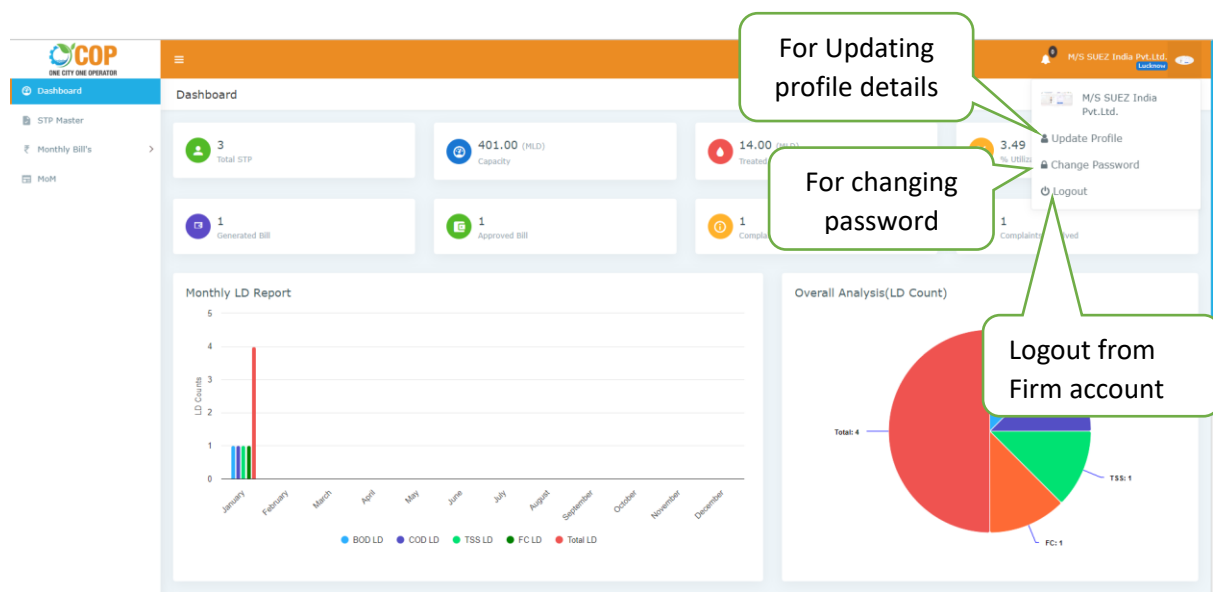


- a. Firm profile, there are three options such as:
 - Update profile
 - Change password
 - Logout
- b. Showing dynamic data of OCOP. Such as:
 - Total STP in that particular Firm.
 - MLD capacity amount.
 - Amount of treated water volume.
 - Utilization of STP in %.
 - Generated bills
 - Approved bills
 - Number of complaints received
 - Number of complaints resolved
- c. This is a side navbar. Where Firm user have various features to use.
- d. Monthly LD reports in a bar graph format.
- e. Overall Analysis in a Pie chart format.
- f. Monthly complaints report in a bar graph.
- g. Top Invoices details list is showing here, with their Firm name, month, bill amount, status(paid/pending/In-process).
 - Here (g), is divided into two parts - (g1) Billing report list
(g2) List of Bill approval details

4. OVERVIEW



a. Firm Profile:



❖ Update Profile

The screenshot shows the 'Update Profile' form in the OCOP system. The form includes fields for Name, Mobile No., Email Id, and GST No., and a section for Profile Picture. Callouts provide instructions for each field: 'Enter name' points to the Name field; 'Enter a suitable 10-digit mobile no' points to the Mobile No. field; 'Enter GST number' points to the GST No. field; 'Enter a valid email address' points to the Email Id field; and 'Choose a profile picture in a valid extension' points to the Profile Picture upload area. The form also includes 'Update' and 'Reset' buttons.

- Fill the following details and update it.
- Firm profile will be update.

❖ Change Password

Change Password

Old Password

New Password

Confirm Password

Change Password

Enter Old password

Enter a valid new password

Enter confirm password, should be same as a new password

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- Firm user must have to fill the new password and Confirm password.
- Both the password, should be same.

b. STP master:

STP List

Show 10 entries

Search:

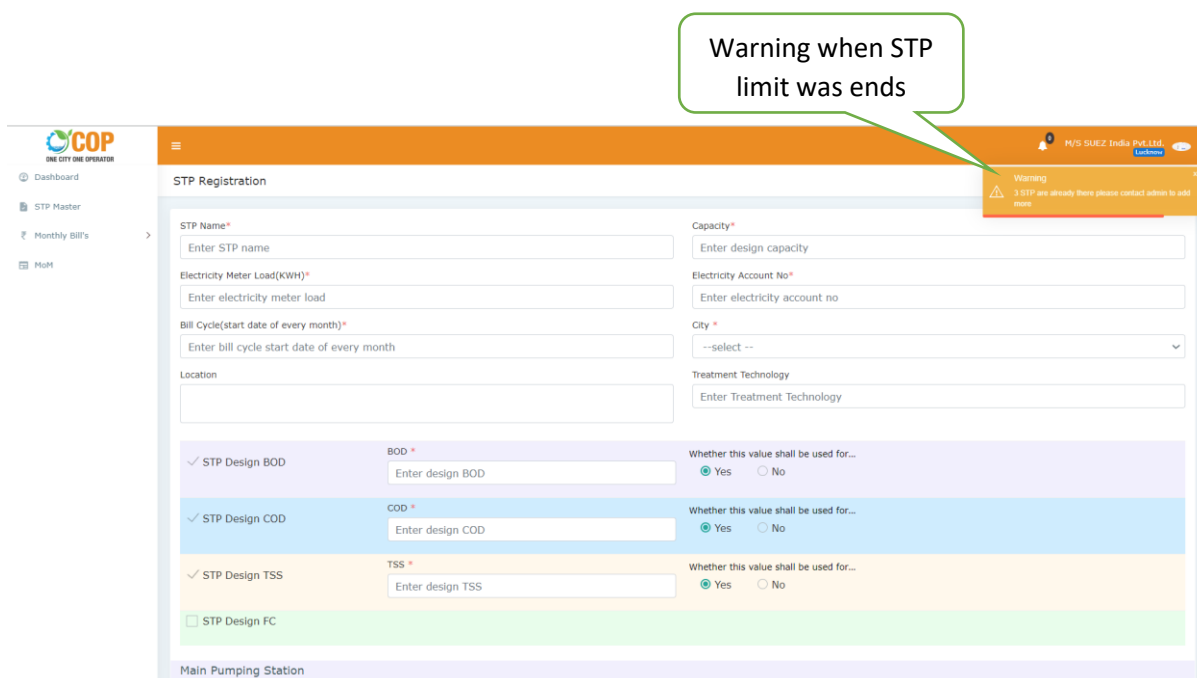
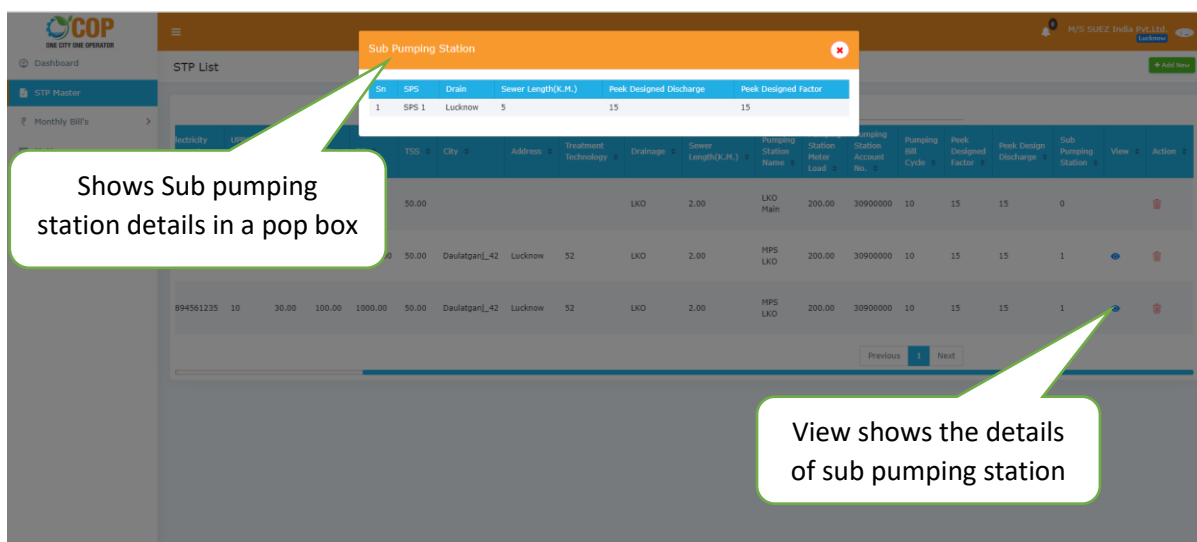
Sn	Firm	STP	Capacity	Meter Load	Electricity Account No.	WPL Bill Cycle	BOD	COD	FC	TSS	City	Address	Treatment Technology	Drainage	Sewer Length(K.M.)	Pumping Station Name	Pumping Station Meter Load	Pumping Station Account No.	Pumping Bill Cycle	Pumping Station Fee
1	H/S SUEZ India Pvt.Ltd.	14 MLD	14.00	100	7894561235	10	30.00	100.00	1000.00	50.00				LKO	2.00	LKO Main	200.00	309900000	10	15
2	H/S SUEZ India Pvt.Ltd.	345 MLD Lucknow	345.00	100	7894561235	10	30.00	100.00	10000.00	50.00	Daulatganj_42	Lucknow	52	LKO	2.00	MPS LKO	200.00	309900000	10	15
3	H/S SUEZ India Pvt.Ltd.	42 MLD Lucknow	42.00	100	7894561235	10	30.00	100.00	1000.00	50.00	Daulatganj_42	Lucknow	52	LKO	2.00	MPS LKO	200.00	309900000	10	15

Showing 1 to 3 of 3 entries

Previous Next

List of STPs with their details

Add a new STP



- Otherwise enter the details of STP for registration.
- Define the parameters of BOD, COD, TSS and FC.
- BOD - Biochemical Oxygen Demand
- COD: Chemical Oxygen Demand
- TSS: Total suspended solids
- FC: Fecal coliforms

STP registration for adding a new STP

STP Registration

STP Name*
Enter STP name

Capacity*
Enter design capacity

Electricity Meter Load(KWH)*
Enter electricity meter load

Electricity Account No*
Enter electricity account no

Bill Cycle(start date of every month)*
Enter bill cycle start date of every month

City*
--select--

Location
Enter Treatment Technology

✓ STP Design BOD
BOD*
Enter design BOD
Whether this value shall be used for...
☐ Yes ☒ No
BOD*
Enter BOD value

✓ STP Design COD
COD*
Enter design COD
Whether this value shall be used for...
☐ Yes ☒ No
COD*
Enter COD value

✓ STP Design TSS
TSS*
Enter design TSS
Whether this value shall be used for...
☐ Yes ☒ No
TSS*
Enter TSS Value

☐ STP Design FC

Main Pumping Station

Add the parameters, in case of No

Fill the details of Main pumping station

Main Pumping Station

✓ STP Design COD
COD*
Enter design COD
Whether this value shall be used for...
☐ Yes ☒ No
COD*
Enter COD value

✓ STP Design TSS
TSS*
Enter design TSS
Whether this value shall be used for...
☐ Yes ☒ No
TSS*
Enter TSS Value

☐ STP Design FC

Name*
Name of pumping station who is rising main discharge at in left of stp

Meter Load*
Enter meter load

UPPCL Electricity Account Number*
Enter Station UPPCL Account Number

UPPCL Electricity Bill Cycle(start date of every month)*
Enter UPPCL electricity bill cycle start date of every month

Peak Design Discharge*
Enter peak design discharge

Peak Factor*
Enter peak factor

☐ Flow From Drain

☐ Flow From Sewer

☐ It is hereby declared that the details mentioned here/above are true and correct.

From here, Add SPS (Sub Pumping station)

Fill the details of SPS

Add SPS/IPS

Name of pumping station/STP to which this*...
 Name of pumping station/STP to which this*...
 UPPCL Electricity Account Number *
 Enter UPPCL Electricity Account Number
 Peak Design Discharge *
 Enter Peak Design Discharge
 Name of SPS/IPS *
 --select--

Meter Load*
 Enter Meter Load
 UPPCL Electricity Bill Cycle(start date of every*...
 Enter UPPCL Electricity Bill Cycle(start date of every month)*
 Peak Factor *
 Enter Peak Factor

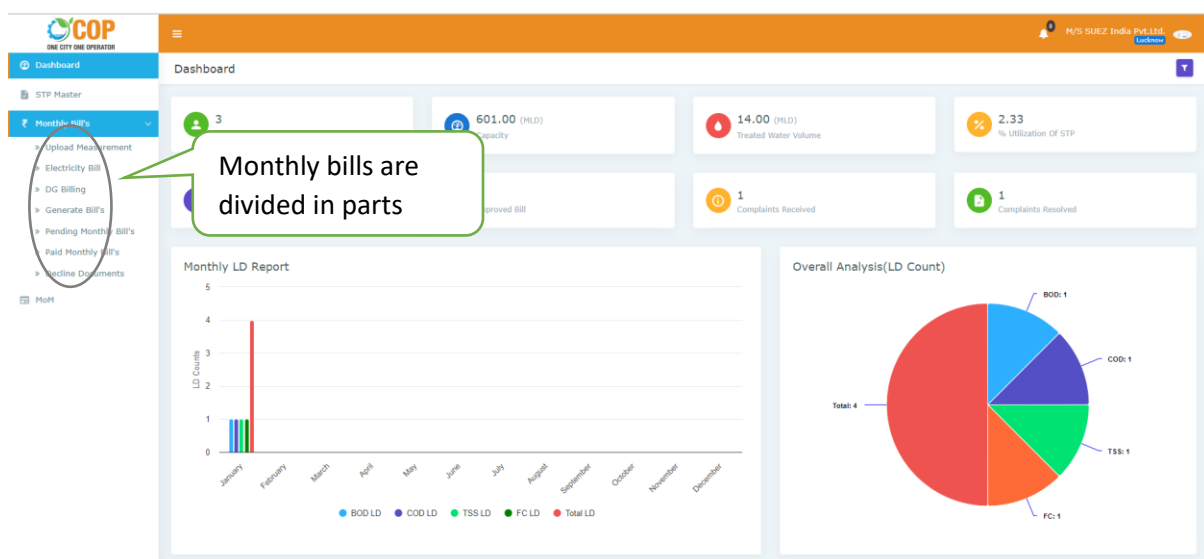
☐ Flow From Drain
☐ Flow From Sewer

Table:

Sn	Main Pumping Station	Sub Main Pumping Station	Meter Load	Account Number	Bill Cycle	Drainage Name	Sewer Length	Peak Design	Peak factor	Action
1	g	NA	5	30900000	10	2,5	d,d	15	15	
2	14 HLD	Main Pumping Station	100	7894561235	10	0	0	15	15	
3	345 HLD Lucknow	NA	100	7894561235	10	0	0	15	15	
4	42 HLD Lucknow	NA	100	7894561235	10	0	0	15	15	

- Fill the following required fields.
- There is no update option in STP, so fill it carefully.
- Declaration is necessary, fields are true or not.

c. Monthly Bills:



❖ Upload Measurement

Upload measurement list

Add a new measurement

If LD charge is applied then it will be highlighted

Shows the number of testing agency's fill the data

The screenshot shows the 'Upload Measurement' page. It features a sidebar with navigation options like 'Dashboard', 'STP Master', and 'Monthly Bill's'. The main area displays a table titled 'Payment of (Lucknow - Zone)' with columns for Date, STP, Reported (of STP), Capacity, Actual, Treated, As Per CB, As Per Actual, As Per CB, As Per Actual, Reported Value, BOD (DPM), COD (DPM), TSS (DPM), FC (DPM), Received, Resolved, LD, Verified amount (12+15+18+21), LD, Testing Agency, and Action. A callout points to the 'Add a new measurement' button in the top right. Another callout points to the 'Upload measurement list' button. A third callout points to a row where the 'LD' column is highlighted in red, indicating an LD charge. A fourth callout points to the 'Testing Agency' column, which shows the number of agencies that have filled the data.

- Firm can delete the existed measurements record.

List of testing agency with their parameters

The screenshot shows the 'Upload Measurement' page with a 'Testing Agency' modal window open. The modal displays the following information:

- STP Name: 14 MLD
- Billing Date: 01/01/2024
- Water Discharge: 14.00

The modal lists three testing agencies with their parameters:

Agency	BOD	COD	TSS	FC
In House	17.00	60.00	32.00	400.00
Third Party	14.00	50.00	30.00	200.00
UPPCB	12.00	40.00	40.00	500.00

The background shows the 'Payment of (Lucknow - Zone)' table with columns for Date, STP, Reported (of STP), Capacity, Actual, Treated, As Per CB, As Per Actual, As Per CB, As Per Actual, Reported Value, BOD (DPM), COD (DPM), TSS (DPM), FC (DPM), Received, Resolved, LD, Verified amount (12+15+18+21), LD, Testing Agency, and Action.

Add a new upload measurement detail

COP
ONE CITY ONE OPERATOR

Dashboard
STP Master
Monthly Bill's
MoH

Add Upload Measurement

STP *
--select--

Billing Date *
dd/mm/yyyy

Discharge *
Enter Water Discharge

Testing Agency

☐ In House
☐ Third Party
☐ UPPCB

Total Complaint Received *
Complaint Received

Total Complaint Resolved *
Complaint Resolved

Save

Fill the parameters (BOD, COD, TSS, FC) of Testing Agency (In house, TPI, UPPCB)

COP
ONE CITY ONE OPERATOR

Dashboard
STP Master
Monthly Bill's
MoH

Add Upload Measurement

STP *
--select--

Billing Date *
dd/mm/yyyy

Discharge *
Enter Water Discharge

Testing Agency

☒ In House
BOD *
Enter Value Reported BOD
COD *
Enter Value Reported COD
TSS *
Enter Value Reported TSS
FC *
Enter Value Reported FC

☒ Third Party
BOD *
Enter Value Reported BOD
COD *
Enter Value Reported COD
TSS *
Enter Value Reported TSS
FC *
Enter Value Reported FC

☒ UPPCB
BOD *
Enter Reported Value BOD
COD *
Enter Reported Value COD
TSS *
Enter Reported Value TSS
FC *
Enter Reported Value FC

Total Complaint Received *
Complaint Received

Total Complaint Resolved *
Complaint Resolved

Save

❖ Electricity Bill

List of electricity bills with their necessary details

Add a new bill

Sl.	STP	Name Of IPS/SPS/STP	Month Start Date	Month End Date	Month Start Meter Reading	Month End Meter Reading	Total Electricity Unit for the Month	Unit Rate for the Month	Fix Charges	Other Charges	Late Payment/Penalty	Remark	Action
1	14 MLD	14 MLD	01/01/2024	26/01/2024	100.00	350.00	250.00	100.00	90.00	120.00	2000.00	Testing	

Add a new electricity bill, select the required STP and SPS

Add/Update Electricity Bill

STP *
--select--

Name Of IPS/SPS/STP
--select--

Month Start Date *
dd/mm/yyyy

Month End Date *
dd/mm/yyyy

Month Start Meter Reading *
Month Start Meter Reading

Month End Meter Reading *
Month End Meter Reading

Total Electricity Unit for the Month *
Total Electricity Unit for the Month

Unit Rate for the Month *
Unit Rate for the Month

Fix Charges *
Fix Charges

Other Charges *
Other Charges

Late Payment/Penalty *
Late Payment/Penalty

Remark

Save

- Fill the mandatory fills and you get a record in a bill list.
- Whatever the date and reading you fill, at the time of registration by default it fills.

❖ DG Billing:

Callouts:

- List of DG billing
- Add a new DG bill from here

Sn	Date	STP	Name Of IPS/SPS/STP	Electricity Cut Start Time	Electricity Cut End Time	DG Start Time	DG End Time	Diesel Consumption	Current Diesel Rate (in this Month)	Total DG Duration	Action
1	01/01/2024	14 MLD	14 MLD	10:50:00	16:00:00	11:15:00	16:10:00	40.00	89.00	04:55	

❖ Generate Bill

Callouts:

- List of Generate Bills
- View the details of that particular bill
- View Details will take you to the next page
- Generate bill

Sn	Month	Year	Firm	Status	View Details	Upload Measurement	Electricity Bill	DG Billing	Action
1	December	2023	M/S SUEZ India Pvt.Ltd.	Active	View Details		View Details	View Details	Generate Bill

- On click of view details, it will take you to another tab.
- Shows the list of reports in a detail.

Generate bill shows this verification page, shows bills are verified or still pending

Check the declaration box, if above mentioned details are true

Sn	STP Name	Month (No of Days)	No Of Entries	Remaining Entries	Status
1	14 HLD	December (31)	1	30	Pending

Electricity Bill Pending

DG Billing Pending

☐ It is hereby declared that the details mentioned here/above are true and correct.

Generate Bill

- Check the declaration message, then they will show you the bill.

Upload the documents of generated bills and remark is must

Check the declaration box, if above mentioned details are true

Generate Bill-Lucknow Zone (January-2024)

Zone	Billing Month	Capacity	Amount	Firm	Billing Year	Actual Achieved
Lucknow	January	402.00	42.00	W/S SUEZ India Pvt.Ltd.	2024	42.00

Upload Documents

Covering Letter *
 No file chosen
Please Upload only JPG,JPEG,PNG,GIF and file size only 1MB Allow !

LD Sheet *
 No file chosen
Please Upload only JPG,JPEG,PNG,GIF and file size only 1MB Allow !

Invoice Date*
 27/01/2024

Total complaints resolved in 24 hours*
 Total complaints resolved in 24 hours

Total complaints resolved in billing month*
 Total complaints resolved in billing month

Balance Complaints*

Remark*

☐ It is hereby declared that the details mentioned here/above are true and correct.

Cancel Generate Bill

- Covering letter should be a single file.
- But on the other hand, TPI reports, LD sheet, and other documents can be multiple files.

❖ Pending Monthly Bills

This is the list of Pending monthly bills

Status shows bill approval details list still pending/approved with its end

View attached documents on a new page

Shows a view billing report list on a new page

Details of bill

List of documents and they can be download

- Shows the list of documents with their status of pending/approval.

Shows the list of billing report in detail

LD charges will be highlighted

View Billing Report

M/S SUEZ India Pvt.Ltd. Firm /11AAAAA1111Z1A1 GST No./Lucknow Zone /Payment for the month of December

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
SL No	Date	STP	Amount Of STP	Capacity	Actual Achieved	Treated for Payment	As Per CB	As Per Actual	AS Per CB	As Per Actual	Reported Value	BOD (50%)	LD	Reported Value	COD (15%)	LD	Reported Value	TSS (25%)	LD	Reported Value	FC (10%)
1	05/12/2023	14 HLD	72736.33	14.00	6.00	6.00	43641.80	18703.63	29094.53	12469.08	7777.00	0.00	10000.00	456656.00	0.00	10000.00	3333.00	0.00	10000.00	3333.00	0.00

❖ Paid Monthly Bills

Shows a list of uploaded documents

List of paid monthly bills

Status will show paid, onclick it will show Bill approval details list

Paid Monthly Bill's

Show 10 entries

Sn	Month	Year	Zone	Firm	Status	Attached documents	Action
1	January	2024	Lucknow	M/S SUEZ India Pvt.Ltd.	Paid		

Showing 1 to 1 of 1 entries

Previous 1 Next

Status will show paid/unpaid,
on click it will show Bill approval
details list

Sn	User	Status	Remarks	Date
1	M/S SUEZ India Pvt.Ltd. (Lucknow)	Pending	Bill generated	27/01/2024
2	Vivek Rai (Jalilal-Junior Engineer)	Approved		27/01/2024
3	Vijay Yadav (OH&M-Junior Engineer)	Approved		27/01/2024
4	Dinesh Thakur (JalNigam-Junior Engineer)	Approved		27/01/2024
5	Surender Dubey (JalNigam-Superintending Engineer)	Approved	Please proceed to bill.	27/01/2024
6	Ashish Mishra (JalNigam-Executive Engineer)	Approved	Please proceed to bill.	27/01/2024
7	Ramu Verma (JalNigam-OH&M Cell)	Approved	Please proceed to bill.	27/01/2024
8	Anand Verma (OH&M-OH Jal Kal)	Approved	Please proceed to bill.	27/01/2024

- Status will show at which Officer's end the bill is still pending or else approved.

List of documents with their status
of pending/approved and date

Sn	Name	Document	Narration	Status	Date
1	Covering Letter	Download	Pls. Proceed the bill.	Pending	27/01/2024
2	LD Sheet	Download	Pls. Proceed the bill.	Pending	27/01/2024
3	Other Documents	Download	Pls. Proceed the bill.	Pending	27/01/2024
4	TPI Reports	Download	Pls. Proceed the bill.	Pending	27/01/2024

- Documents can be download.

Shows a list of view billing

Shows a generated summary sheet

Details of bill

List of documents and it can be download

Shows the list of billing report in detail

View Billing Report

M/S SUEZ India Pvt.Ltd. Firm /11AAAAA1111Z1A1 GST No./Lucknow Zone /Payment for the month of January 2024

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
SL No	Date	STP	Amount of STP	Capacity	Actual Achieved	Treated for Payment	As Per CB	As Per Actual	AS Per CB	AS Per Actual	Reported Value	BOO (50%)	LD	Reported Value	COD (15%)	LD	Reported Value	TSS (25%)	LD	Reported Value	FC (10%)	LD
1	01/01/2024	14 HLD	72736.33	14.00	14.00	14.00	43641.80	43641.80	29094.53	29094.53	12.00	14547.27	0.00	40.00	4364.18	0.00	40.00	7273.63	0.00	500.00	2909.45	0.00

d. MOM:

List of MOM with their meeting dates and pdfs

Download the document

MoM

Show 10 entries

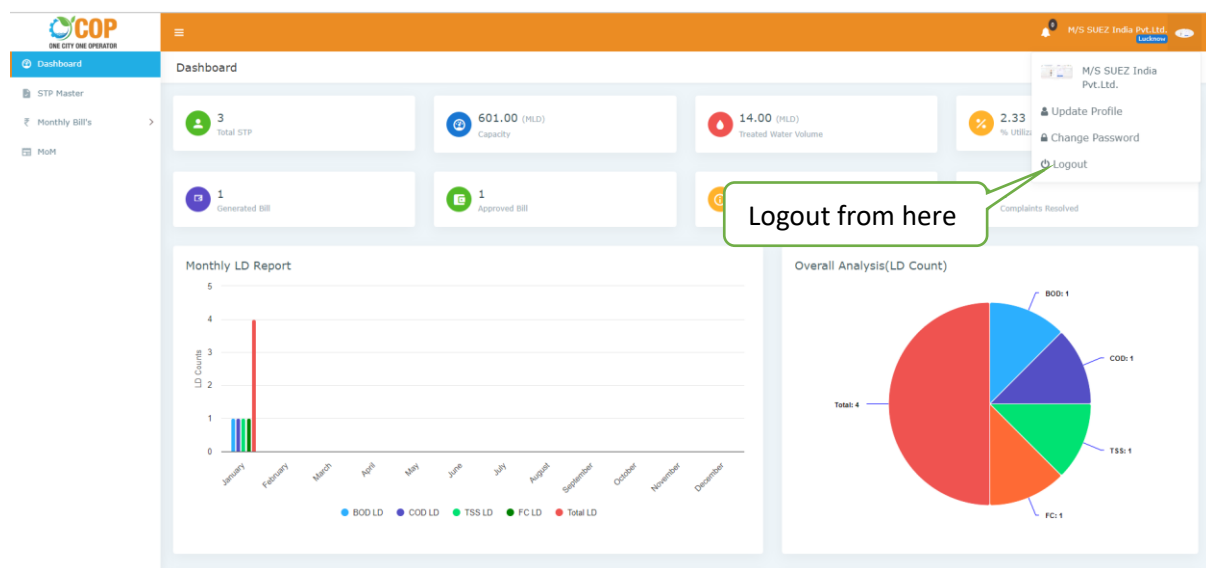
Sn	Letter No.	Meeting Date	Download MoM
1	987654	27/01/2024	Download MoM
2	98765	26/01/2024	Download MoM

Showing 1 to 2 of 2 entries

Previous 1 Next

- MOM stands for Minutes of Meeting

e. Logout:



5. CONCLUSION

In conclusion, the One City One Operator (OCOP) project represents a transformative approach to sewage infrastructure management, addressing critical challenges faced by growing cities. By integrating network and sewage treatment plant management under long-term contracts, OCOP establishes a new benchmark for efficiency and accountability.

The anticipated benefits, including prompt equipment replacement through the Major Replacement Fund, a 24/7 customer care center for enhanced service, and the incorporation of innovative technologies, position OCOP as a model for sustainable and reliable sewage infrastructure.

As we move forward, embracing the OCOP model not only ensures better coordination and improved water quality, particularly along rivers like the Ganga, but also underscores our commitment to innovation, environmental stewardship, and the overall well-being of our communities.

The success of OCOP hinges on the collaboration of all users, and we encourage everyone to actively participate in its implementation. Together, we can revolutionize sewage infrastructure management, setting a standard for efficiency, reliability, and environmental sustainability.