

Performance Assessment System - Service Level Benchmarks (SLB)

**Capacity building workshop on PAS-SLB information upload on
PAS portal - Conducted for Government of Gujarat, Maharashtra, Chhattisgarh and
Jharkhand**

Training on entering information on City finance portal - Maharashtra
**Lake rejuvenation – Conducted for Government of Gujarat, Maharashtra, Chhattisgarh and
Jharkhand**



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Contents

Overview of PAS and SLB

1. Steps on entering SLB information on PAS portal

2 Data system strengthening- Improving reliability of Data

3 Entering SLB information on City Finance Portal

4 Lake management and Conservation

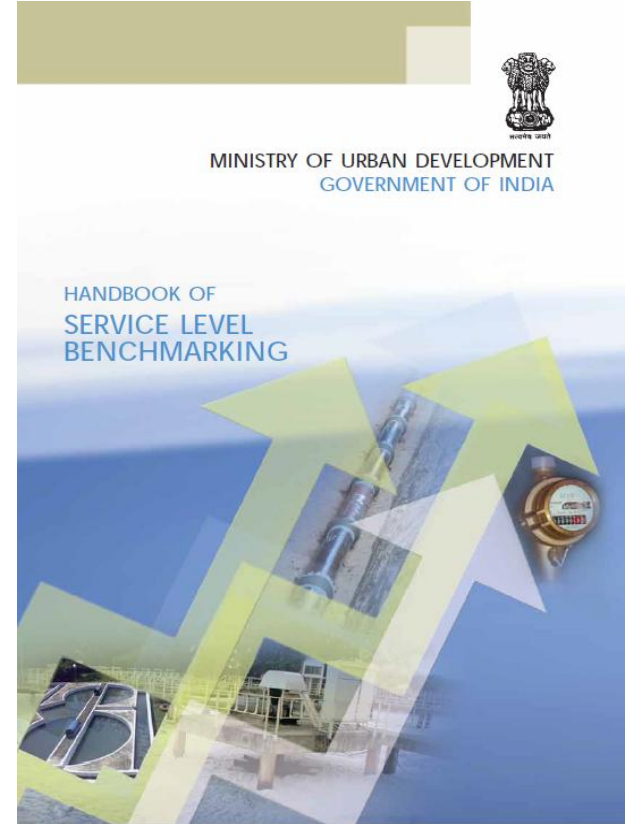
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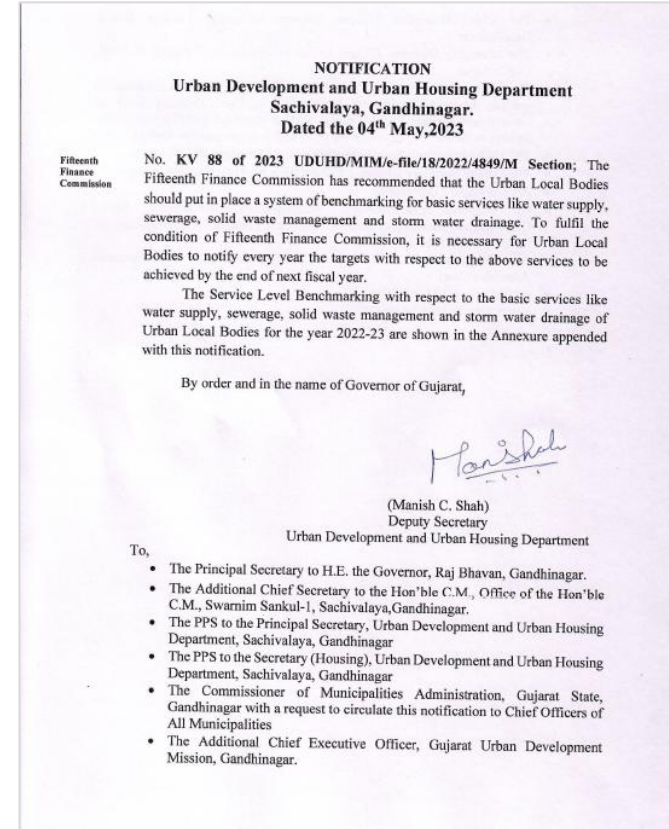
Service Level Benchmarks (SLBs)

- **A common monitoring performance framework to strengthen focus on improving service delivery**
- Initiative of the Ministry of Housing and Urban Affairs (erstwhile Ministry of Urban Development) launched in 2009
- 28 standard performance indicators for Urban Water Supply and Sanitation (UWSS):
 - Water supply - 9
 - Sewage - 9
 - Solid Waste Management - 8
 - Storm Water Drainage - 2

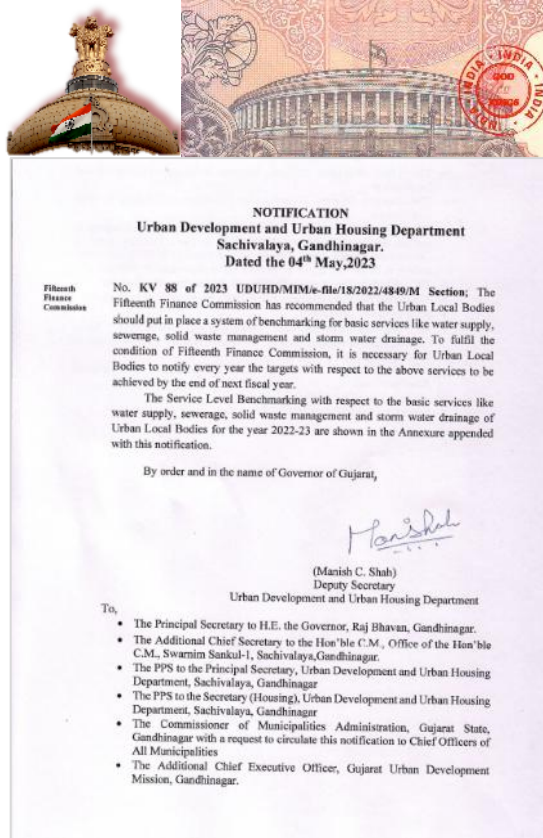


Importance of Service Level Benchmarks

- The 13th, 14th and 15th **FC endorsed** operationalizing of SLB Process
- It introduced a **performance-based grant**
- State governments must put in place standards for delivery of essential services provided by the ULBs for four services
- **State Government** must notify or cause all ULBs to **notify** by the end of a fiscal year **the service standards and targets**
- A notification must be **published in the state gazette** to ensure compliance



Financial incentives - Institutionalized through intergovernmental fund transfers



- The 13th, 14th and 15th Finance Commission of the national government endorsed operationalizing of SLB Process. It linked national government grants to cities to service level benchmarks
- State Governments notify by the end of a fiscal year the service level benchmarks and targets and inform the Ministry of Housing and Urban Affairs

13th FC:
(FY 2010-15)
USD 2.8 Billion

14th FC:
(FY 2015- 20)
USD 10.9 Billion

15th FC:
(FY 2021-26)
USD 15.1 Billion

SLB indicators – Water Supply

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Indicators



Indicators for Water supply services	Benchmark
Coverage of water supply connections	100%
Per capita supply of water	135 lpcd
Extent of metering of water connections	100%
Extent of Non- Revenue Water (NRW)	20%
Continuity of water supply	24 hours
Quality of water supplied	100%
Efficiency in redressal of customer complains	80%
Cost recovery in water supply services	100%
Efficiency in collection of water supply related charges	90%

SLB indicators – Wastewater

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Indicators



Indicators for Wastewater services	Benchmark
Coverage of toilets	100%
Coverage of sewage network services	100%
Collection efficiency of the sewage network	100%
Adequacy of sewage treatment capacity	100%
Quality of sewage treatment	100%
Extent of reuse and recycling of sewage	20%
Efficiency in redressal of customer complains	80%
Extent of cost recovery in sewage management	100%
Efficiency in collection of sewage charges	90%

SLB indicators – Solid Waste

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Indicators



Indicators for SWM services	Benchmark
Household level coverage of solid waste management services	100%
Efficiency of collection of municipal solid waste	100%
Extent of segregation of municipal solid waste	100%
Extent of municipal solid waste recovered	80%
Extent of scientific disposal of municipal solid waste	100%
Efficiency in redressal of customer complaints	80%
Extent of cost recovery in SWM services	100%
Efficiency in collection of SWM charges	90%

Publication of Gazette to avail FC grant

15th Finance Commission, Government of India

SERVICE LEVEL BENCHMARK AT A GLANCE (SLB)

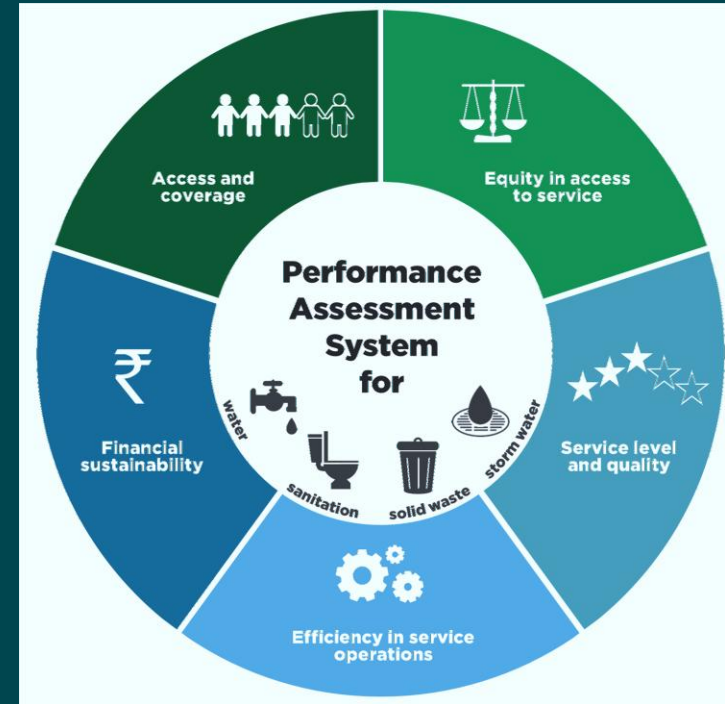
Sr.No	Proposed Indicator	Benchmark	Present Status 2022-23	Target in Year 2023-24
1	WATER SUPPLY SERVICES પાણી પુરવઠો			
1.1	Coverage of water supply connections પાણી પુરવઠા ના જોડાણો દ્વારા આવરી લેવાયેલ વિસ્તાર (ટકા)	100.0%	60	70
1.2	Per capita supply of water માથા દીઠ પાણી પુરવઠો (લીટર)	135 lpcd	94	100
1.3	Extent of metering of water connections પાણી જોડાણ (કનેક્શન) ની મીટરની વ્યવસ્થા (ટકા)	100.0%	NA	NA
1.4	Extent of non revenue water (NRW) બિન ઉપજાવ પાણી પ્રમાણ (ટકા)	20.0%	18	16
1.5	Continuity of water supply પાણી પુરવઠાની નિરંતર સમય-મર્યાદા (કલાકમાં)	24 hours	2.5	3.0
1.6	Efficiency in redressal of customer complaints ગ્રાહક ફરિયાદ નિવારણની કાર્યક્ષમતા (ટકા)	80.0%	64	100
1.7	Quality of water supplied પાણી પુરવઠાની ગુણવત્તા (ટકા)	100.0%	100	100
1.8	Cost recovery in water supply services પાણી પુરવઠા પાછળ થયેલ ખર્ચ સામે ખર્ચની વસુલાત(ટકા)	100.0%	41	60
1.9	Efficiency in collection of water supply - related charges પાણી પુરવઠાના ચાર્જ વસુલ કરવાની ક્ષમતા (ટકા)	90.0%	70	83
2	WASTE WATER MANAGEMENT (SEWERAGE AND SANITATION) ગંદા પાણીની વ્યવસ્થા (ગટર અને શૌચાલય)			
2.1	Coverage of toilets જાજરૂ (શૌચાલય) નો વ્યાપ (ટકા)	100.0%	100	100

2.2	Coverage of sewage network services જંદાપાણીનાં નિકાલ વ્યવસ્થાનાં નેટવર્કની સેવા (ટકા)	100.0%	54	65
2.3	Collection efficiency of sewage network જંદાપાણીનો સંગ્રહ કરવા માટેની કાર્યક્ષમતા (ટકા)	100.0%	82	82
2.4	Adequacy of sewage treatment capacity જંદાપાણીના શુદ્ધીકરણનું પુરતાપણું (ટકા)	100.0%	260	300
2.5	Quality of sewage treatment જંદાપાણી શુદ્ધીકરણની ગુણવત્તા (ટકા)	100.0%	100	100
2.6	Extent of reuse and recycling of sewage શુદ્ધીકરણ થયેલ પાણીનો પુનઃઉપયોગ અને પુનઃપ્રક્રિયાનો વિસ્તાર (ટકા)	20.0%	0	5
2.7	Extent of cost recovery in sewage management ગટર વ્યવસ્થાના ખર્ચ વસુલાતની આંશિક ક્ષમતા (ટકા)	100.0%	27	37
2.8	Efficiency in redressal of customer complaints જંદાપાણીને લગતી ફરિયાદ નિવારણ (ટકા)	80.0%	100	100
2.9	Efficiency in collection of sewage charges ગટરના ચાર્જ વસુલ કરવાની ક્ષમતા (ટકા)	90.0%	72	75
3	SOLID WASTE MANAGEMENT ઘન કચરા વ્યવસ્થા			
3.1	Household level coverage of solid waste management services ઘરદીઠ ઘન કચરા વ્યવસ્થાપન સેવાનો વ્યાપ (ટકા)	100.0%	99	100
3.2	Efficiency of collection of municipal solid waste ઘન કચરા એકત્રીકરણ કરવાની કાર્યક્ષમતા (ટકા)	100.0%	100	100
3.3	Extent of segregation of municipal solid waste ઘન કચરો છૂટો પાડવા (પૃથ્થકરણ) નો માત્રા (ટકા)	100.0%	100	100
3.4	Extent of municipal solid waste recovered ઘન કચરામાંથી પુનઃઉપયોગ માટેનો વિસ્તાર (ટકા)	80.0%	NA	NA
3.5	Extent of scientific disposal of municipal solid waste ઘન કચરાનો વૈજ્ઞાનિક રીતે નિકાલ કરવાનો વ્યાપ (ટકા)	100.0%	NA	NA
3.6	Extent of cost recovery in SWM services ઘન કચરાના સેવા સંચાલન પાછળ થયેલ ખર્ચની વસુલાત (ટકા)	100.0%	8	20
3.7	Efficiency in redressal of customer complaints જન ફરિયાદ નિવારણની કાર્યક્ષમતા (ટકા)	80.0%	100	100
3.8	Efficiency in collection of SWM charges ઘન કચરાના ચાર્જ વસુલ કરવાની કાર્યક્ષમતા (ટકા)	90.0%	71	83
4	STORM WATER DRAINAGE વરસાદી પાણીનો નિકાલ			
4.1	Coverage of storm water drainage network વરસાદી પાણીના નિકાલ માટે આવરી લેવાયેલ વિસ્તાર (ટકા)	100.0%	63	65
4.2	Incidence of water logging/flooding પાણી ભરાવા/પર બનાવોની સંખ્યા (સંખ્યા)	0.0%	1	0

Performance Assessment System (PAS)

For

Operationalizing SLB



“YOU CANNOT IMPROVE WHAT YOU CANNOT MEASURE!”

Performance Assessment System (PAS) Program at CWAS for transforming urban water and sanitation in India

2005-2009
Major urban
projects in India
which focused
mainly on
infrastructure
creation...



...but little was known about
impact on service quality



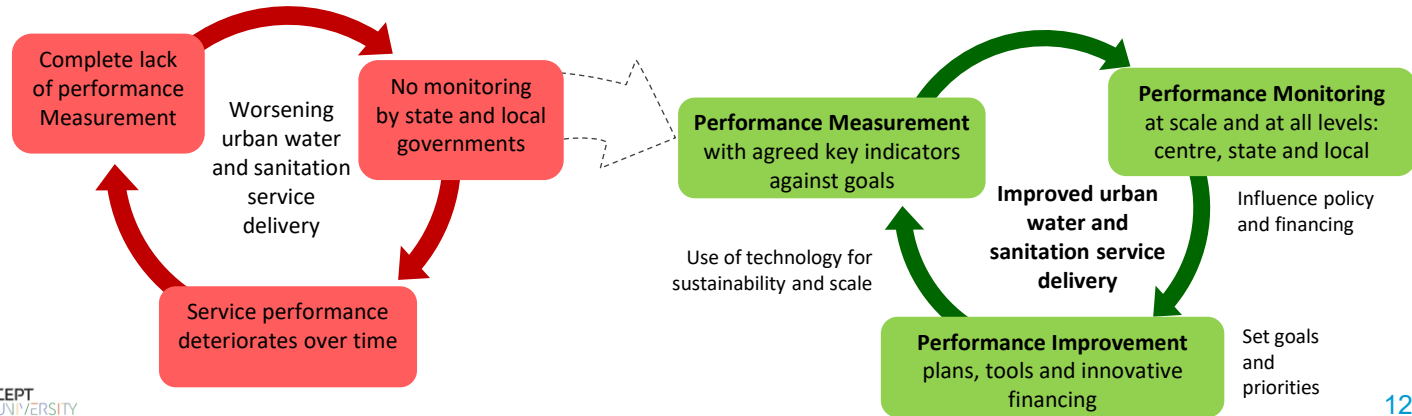
Data available with cities... but
paper based disaggregated, non-
digital, and not reported

Our journey from paper-based
isolated data to digital analysis



MOVING FROM A VICIOUS TO A VIRTUOUS CYCLE

PAS intended to bring about a
change in “laying pipes” to
“improving services”



PAS – Performance Assessment System for UWSS in India

ABOUT PAS

- **Digital platform** for **tracking SLB** progress of the cities.
- **Self assessment** with inbuilt validation checks to measure the service delivery
- **Framework suited to local context** - Focus on efficiency, equity and on-site sanitation
- **No Pilots.....operate at Scale** to make an impact

NATIONALLY OWNED AND AT SCALE

- **Not a 'project'** but a **'programme'** to mainstream it in governments
- **Work with all three tiers of Governments** to influence policies and implementation
- **Started with 400+ cities** in 2008-09 , **now scaled up to 1000+ cities** across India
- One of the **largest open access time series database** for urban water and sanitation



2009 – 416 cities

68 Mn population, 2 states

2015 – 463 cities

73 Mn population

2018 – 900+ cities

96 Mn population, 6 states

2019 – 1000+ cities

100 Mn population, Linked with India's Smart city mission

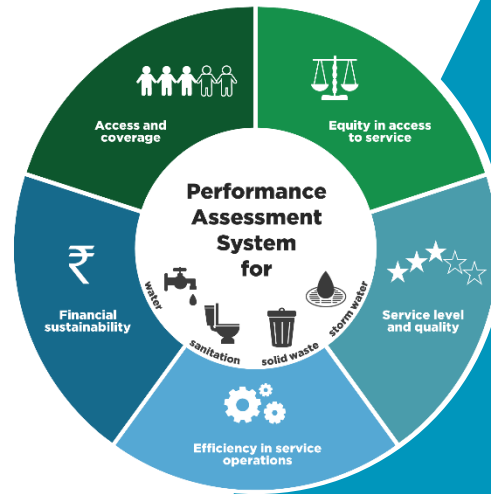
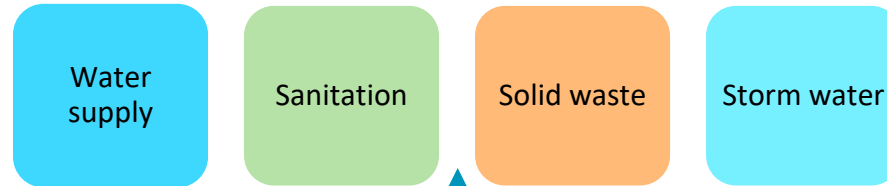
2022 – 1200+ cities

Linked with City Finance Portal of Government of India

Service level benchmarks: PAS - SLB+ Framework

Advice from Experts

- Better to be roughly right than be precisely wrong
- Setting up Benchmarking Pilots are easy – Scaling up to cover all ULBs is a challenge
- Build up on existing monitoring system
- Keep it SIMPLE, EASY to understand and implement
- Create financial incentives for use of Benchmarking



5 Themes

...to match with goals /targets of delivery of water supply and sanitation services

32 Key Performance Indicators

... for performance assessment

100 Local Action Indicators

...drilled down indicators for actions for performance improvement

Digital systems necessary for achieving scale



Most data exists with cities...

...but paper based and fragmented – not collated, analyzed or reported



Developed PAS as an online platform



Industry-academic partnership with



Features of Digital platform

- Online module for self reporting
- Inbuilt validation checks
- Scientific system for calculating indicators
- Comparative dashboards
- Local language supported

Made PAS an e-platform that enabled analysis

Raw Data

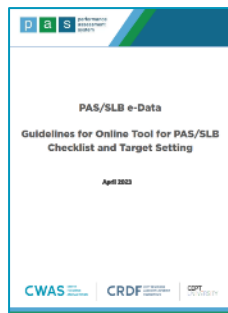
Information: Performance Measurement with indicators on PAS portal

Knowledge: City and State UWSS profiles, peer comparison



Government officials at both state and city levels are made conversant with the online data entry tool

Reduction in the time for tracking SLBs from 15 months to two months within five years.



Guidelines for online tool for PAS portal



Manuals & guidance documents

Sample filled tool for city

Online document upload PAS-Portal

Training videos on portal

Self learning tutorial videos both in Hindi and English



Hindi Video



English Video



Capacity building workshops

1000+ ULB Officials trained every year

Data system Strengthening

Formats to capture reliable data on a suggested frequency

Handholding support

Sectoral Improvement planning
Performance Improvement Plans(PIP)



Process of data collection and validation

Training

- State govt. appoint agency for data collection and validation
- Organized and conduct training for city officials



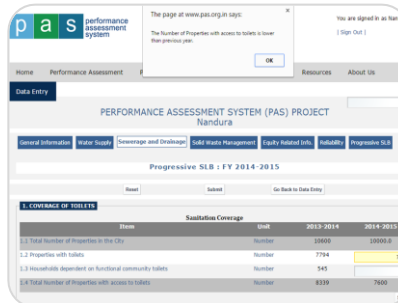
Data collection

- State govt. instruct cities to enter data online
- City officials enter data from their offices
- Agency : Follow up with cities



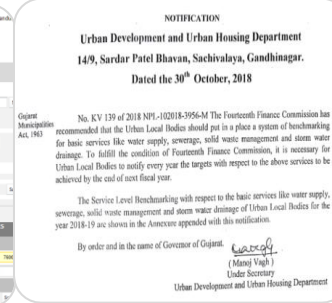
Data validation

- Inbuilt validation rules during data entry and at submission time
- After submission, 'sector experts' appointed by state government will do desk validation



Results publication

- SLB Gazette publication by state
- Analysis results published on website



Data verification

- Field Verification in selected cities
- Prepare data improvement plan / strategies



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PAS-SLB web portal – www.pas.org.in

PAS - Home

https://pas.org.in

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Login
Password Login

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Center for Water and Sanitation

Search



Step by step guide to enter the SLB information on PAS portal



www.pas.org.in

Login & Password

Data Entry

Checklist

Target Setting

Select Year 2024-25

Select Year 2025-26

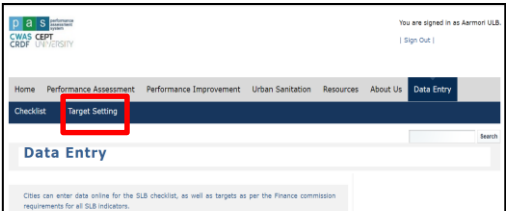
Click View Checklist

Click Set Targets

Enter

Enter Targets

SAVE , VALIDATE and SUBMIT



You are signed in as Aarmori UBLB.

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Checklist Target Setting

Data Entry

Target Setting

Select Financial Year: FY 2025-2026

Target Setting for Aarmori for FY 2024-2025

	2021-2022	2022-2023	2023-2024	Target for 2022-2024	Target for 2024-2025
Water supply: KPIs					
Coverage of water supply connections(%)	40.6	40.6	0.0	54.0	
Per capita supply of water at consumer end(lpcd)	35.1	39.5	0.0	50.0	
Extent of metering of water connections(%)	NA	NA	0.0	0.0	
Extent of non-revenue water(%)	36.7	30.0	0.0	28.0	
Continuity of water supply(hrs per day)	1.0	1.0	0	2.0	
Efficiency in redressal of customer complaints(%)	100.0	100.0	0.0	100.0	
Quality of water supplied(%)	99.7	99.7	0.0	100.0	

Presentation for document upload on portal

PAS Portal document upload section

Link:

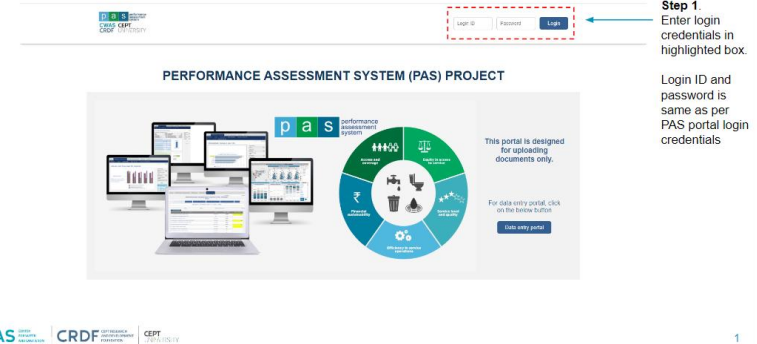
<https://docs.google.com/presentation/d/1asEwSeN3K4dcX86kpiqRWhmn2ssdUD9H/edit?usp=sharing&oid=112455029184602789110&rtpof=true&sd=true>

QR Code:



How to upload supporting documents on PAS Portal

To upload supporting documents, ULB has to login using its Username and password within the boxes (highlighted below) on the top of the right hand side of the page. The PAS web portal document section opens as shown below



The screenshot shows the PAS Portal interface. At the top right, there is a login section with fields for 'Login ID' and 'Password', and a 'Login' button. A red dashed box highlights these fields, with an arrow pointing to it from the text 'Step 1. Enter login credentials in highlighted box.' Below the login section, the main content area is titled 'PERFORMANCE ASSESSMENT SYSTEM (PAS) PROJECT'. It features a central graphic with the 'pas' logo and a circular diagram showing various project components. To the right of the graphic, there is a text box stating 'This portal is designed for uploading documents only.' and a 'Login every panel' button. At the bottom of the page, there are logos for CWAS, CRDF, and CEPT University.

Step 1. Enter login credentials in highlighted box.

Login ID and password is same as per PAS portal login credentials

CWAS CENTER FOR WATER AND SANITATION
CRDF CEPT RESEARCH AND DEVELOPMENT FOUNDATION
CEPT UNIVERSITY



Example: Water supply service level indicators

Indicators (benchmarks)	Definition	Evidence/ Data Sources	Department
*Coverage of water supply connections (100%)	<ul style="list-style-type: none"> Households (HHs) with water supply connections Total HHs in a city 	<ul style="list-style-type: none"> Water connection register at water supply department / Property / water tax software 	<ul style="list-style-type: none"> Water supply department and tax department
*Coverage of WS connections in slum (100%)	<ul style="list-style-type: none"> HHs in the slum area with water supply connections Total slum HHs in a city 	<ul style="list-style-type: none"> Water connection register at water supply department / Property/water tax software 	<ul style="list-style-type: none"> Water supply department and tax department
**Per capita supply of water (135 lpcd) **Extent of Non-Revenue Water (20%)	<ul style="list-style-type: none"> Total quantity of water produced at treatment plant Quantity of water supplied to consumers (Billed water + free supply) Total population in a city 	<ul style="list-style-type: none"> Based on SCADA / log book report indicating flow meters' readings / based on pumping hours and discharge capacity at the treatment plant Billed water quantity – Based of water meter reading / calculate based on sample survey using bucket and stop watch method or estimate based on ferrule size and water discharge during supply hours in a day. 	<ul style="list-style-type: none"> Water supply department
**Extent of metering (100%)	<ul style="list-style-type: none"> Total number of functional metered water connections Total number of water connections 	<ul style="list-style-type: none"> Water metering records 	

Inbuilt data validation checks

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PERFORMANCE ASSESSMENT SYSTEM (PAS) PROJECTAkole

General InformationWater SupplySewerage and DrainageSolid Waste ManagementERIReliability

GENERAL INFORMATION: FY 2024-2025

ResetValidationSubmitGo Back to Data EntrySave All

1. Demographics

Item	Unit	2023-2024	2024-2025
1.1 Population (Census 2001/2011)	Persons	19814	19814
1.2 Decadal Growth Rate of the City	%	1.9	1.9
1.3 Population (Present Year)	Persons	24780	
1.4 Number of Households (Census 2001/2011)	Number	4353	4353
1.5 Number of Households (Present Year)	Number	5242	
1.6 Family Size (Census 2001/2011)	Persons	4.55	4.55
1.7 Family Size (Present Year)	Persons	4.73	
1.8 Number of Slums (2001/2011)	Number	2	2
1.9 Number of Slums (Present Year)	Number	2	
1.10 Number of Slum Households (2001/2011)	Number	376	376
1.11 Number of Slum Households (Present Year)	Number	345	
1.12 Number of Properties (2001/2011)	Number	4980	4980
1.13 Number of Properties excluding open plots (Present Year)	Number	5232	
1.14 Number of Election Wards (2001/2011)	Number	17	17
1.15 Number of Election Wards (Present Year)	Number	17	
1.16 Town/City Area (Census 2001/2011)	Sq.km	13.64	13.64
1.17 Present Town/City Area	Sq.km	13.64	
Built up area within Municipal Boundary	Sq.km	13.64	
1.18 Population Density (Present Year)	Number	1817.0	
1.19 Number of Commercial and other establishments (offices, institutions, markets), Hotels and Restaurants (Year 2001/2011)	Number	ND	ND
1.20 Number of Commercial and other establishments (offices, institutions, markets,Hotels and Restaurants)(Present Year)	Number	1445	

Save

Previous year's data displayed alongside current year of data entry-Options to save each sub section within a sheet; useful in case of connectivity issues during data entry. **Data should be entered in a given sequence of sheets**

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PERFORMANCE ASSESSMENT SYSTEM (PAS) PROJECTAhmedabad

General InformationWater SupplySewerage and DrainageSolid Waste ManagementERIReliabilityCTPT InfoWR and RWH

GENERAL INFORMATION: FY 2022-2023

ResetValidationSubmitGo Back to Data EntrySave All

1. Demographics

Item	Unit	2021-2022	2022-2023
1.1 Population (Census 2001/2011)	Persons	1752371	1752371
1.2 Decadal Growth Rate of the City	%	24.17	24.17
1.3 Population (Present Year)	Persons	2559974	2634536
1.4 Number of Households (Census 2001/2011)	Number	432684	432684
1.5 Number of Households (Present Year)	Number	610323	610319
1.6 Family Size (Census 2001/2011)	Persons	4.05	4.05
1.7 Family Size (Present Year)	Persons	4.19	4.32
1.8 Number of Slums (2001/2011)	Number	320	320
1.9 Number of Slums (Present Year)	Number	202	
1.10 Number of Slum Households (2001/2011)	Number	41238	41238
1.11 Number of Slum Households (Present Year)	Number	21880	
1.12 Number of Properties (2001/2011)	Number	530465	530465
1.13 Number of Properties excluding open plots (Present Year)	Number	614453	719433
1.14 Number of Election Wards (2001/2011)	Number	25	25
1.15 Number of Election Wards (Present Year)	Number	19	19

Save

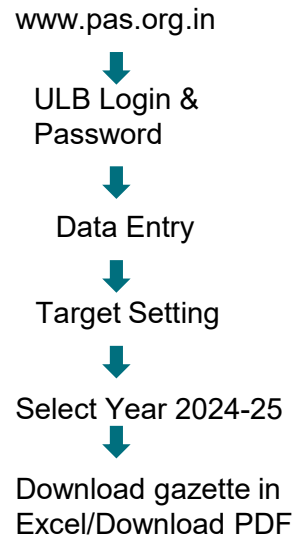
pas.org.in says

Number of households is lower than previous year.

OK

ULB, Regional and State officials can track the progress through portal

Chief officers can download the gazette using online portal



www.pas.org.in

ULB Login & Password

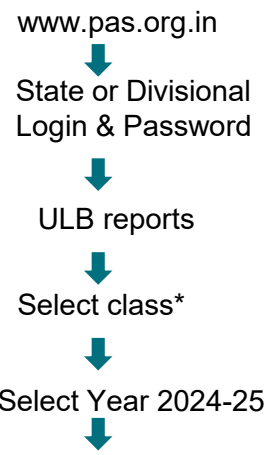
Data Entry

Target Setting

Select Year 2024-25

Download gazette in Excel/Download PDF

State and regional officials can check the progress of data entry and also can download state and regional level data and reports using their respective login IDs



- Download data save status report- to check the % data entered by the ULB
- Download all year data
- Download Gazette in excel/PDF

www.pas.org.in

State or Divisional Login & Password

ULB reports

Select class*

Select Year 2024-25

Tutorial videos for PAS portal data submission

PAS Portal Tutorial Videos

Link:

https://www.youtube.com/playlist?list=PLslvqc6RUWFJEDMXVe9BeF8ZWpt-Jcz__

QR Code: (Hindi)

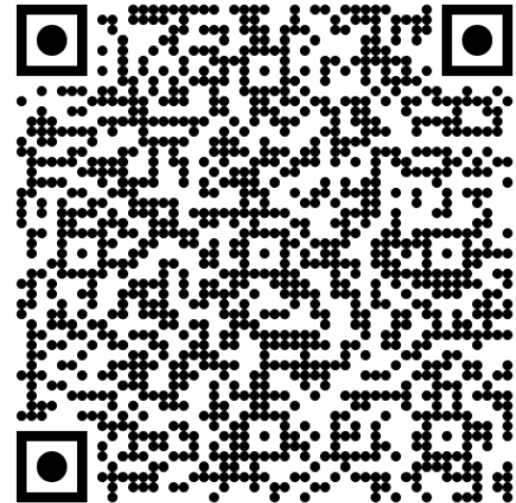


PAS Portal Tutorial Videos

Link:

<https://www.youtube.com/playlist?list=PLslvqc6RUWFKm4GbuNIWTkJxYQaphoXNR>

QR Code: (English)



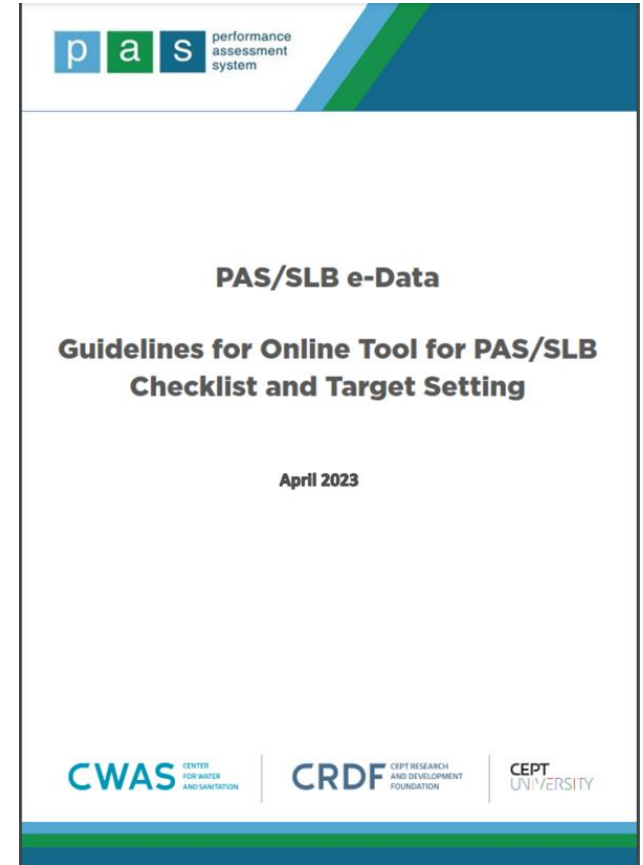
Guidelines for online tool for PAS portal

Guidelines for online tool for PAS/ SLB – Checklist and Target Setting

Link:

https://cwas.org.in/resources/file_manager/Online%20data%20entry%20and%20checklist%20guidelines%20and%20validation_27%20april%202023.pdf

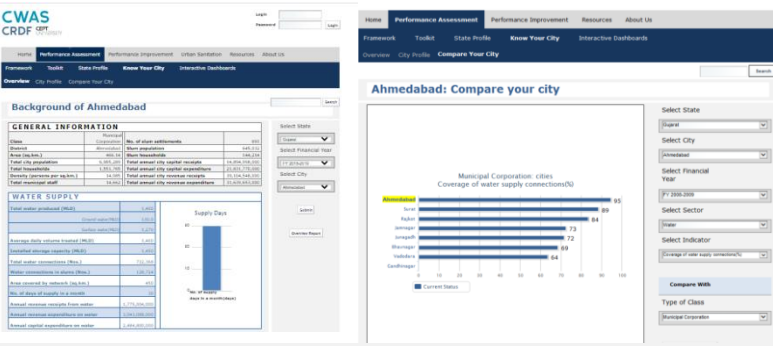
QR Code:



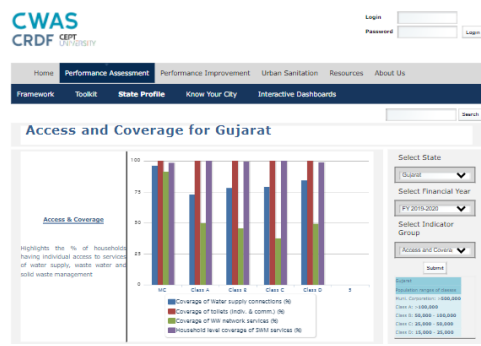
Key results and dashboards available on PAS-SLB portal

SLB dashboard:

- Track performance over time and Compare performance with peers
- Review the year wise improvement of the ULB using know your city tab – that gives an **Overview** of the city, **City**



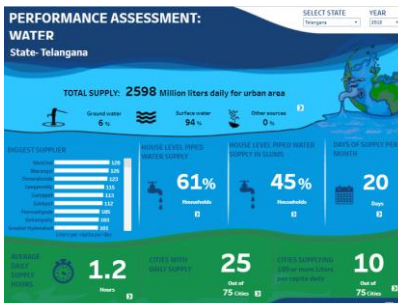
Know your ULB and Compare Your ULB helps each ULB to understand the basic details and SLB indicators and allows to compare itself with another ULB based on its respective class or state.



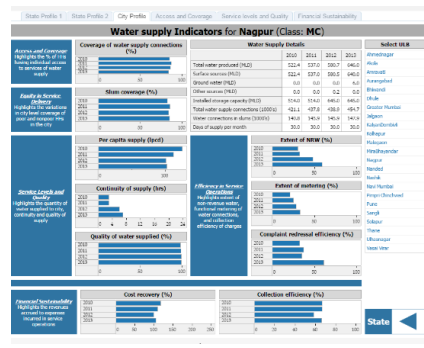
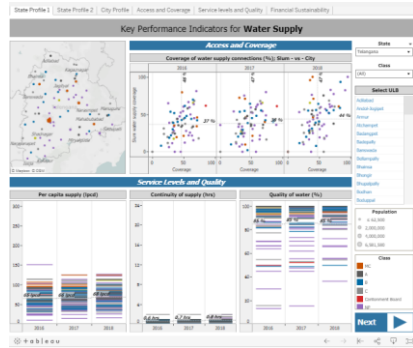
State can assess thematic performance of Access, Financial sustainability, equity, efficiency and quality of service delivery at state level

Profile, and Comparison of the city.

- State can assess thematic performance on state profile tab.
- Identify areas for improvement- using interactive dashboards



Customized dashboard to view state and ULB level analysis



Interactive dashboard

Know your city

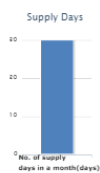
Background of Vadodara

GENERAL INFORMATION

Class	Municipal Corporation	No. of slum settlements	209
District	Vadodara	Slum population	160,835
Area (sq.km.)	220.33	Slum households	32,167
Total city population	2,240,000	Total annual city capital receipts	8,749,733,000
Total households	592,993	Total annual city capital expenditure	6,759,916,000
Density (persons per sq.km.)	10,167	Total annual city revenue receipts	11,351,221,000
Total municipal staff	5,403	Total annual city revenue expenditure	10,117,175,000

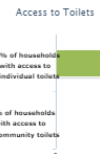
WATER SUPPLY

Total water produced (MLD)	530
Ground water(MLD)	330
Surface water(MLD)	220
Average daily volume treated (MLD)	550
Installed storage capacity (MLD)	270
Total water connections (Nos.)	334,557
Water connections in slums (Nos.)	31,240
Area covered by network (sq.km.)	158
No. of days of supply in a month	35
Annual revenue receipts from water	878,321,000
Annual revenue expenditure on water	1,119,714,000
Annual capital expenditure on water	1,224,536,000



WASTE WATER

Area covered by waste water network(sq.km.)	310
Underground sewerage network(sq.km.)	155.0
Closed drains(sq.km.)	155.0
Open drains(sq.km.)	NA
Total sewerage connections (Nos.)	669,149
Sewerage connections in slums (Nos.)	16,835
Installed STP treatment capacity (MLD)	354.50



Select State
Gujarat

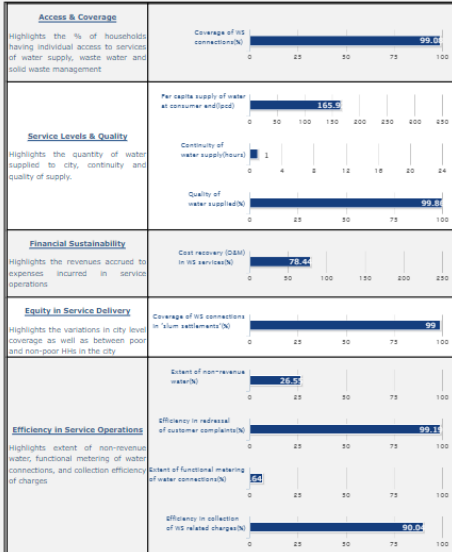
Select Financial Year
FY 2019-2020

Select City
Vadodara

Submit

Overview Report

City Profile of Vadodara



Select State
Gujarat

Select Financial Year
FY 2019-2020

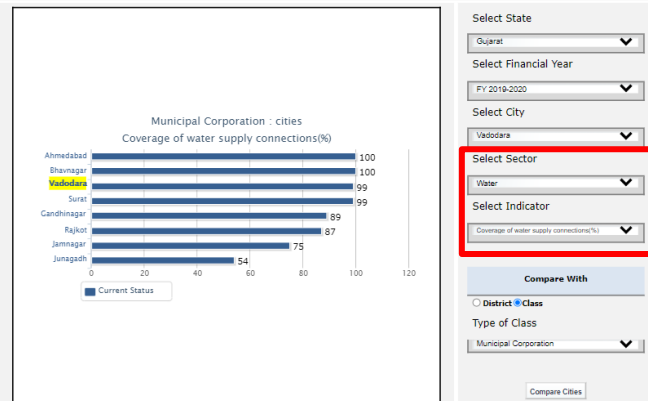
Select City
Vadodara

Select Sector
Water

Submit

Indicator Report

Vadodara: Compare your city



Compare Your City helps each city compare itself with another city based on its respective class or state.

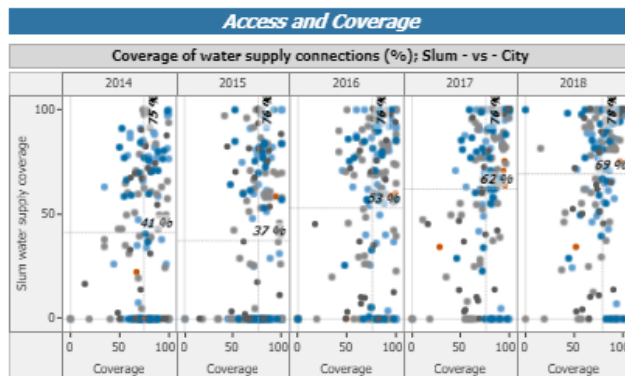
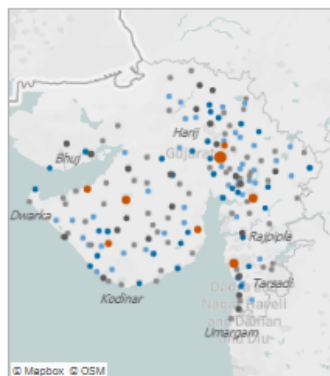
All the sectorial indicators can be compared

An Overview of the city is given across all the sectors for all indicator groups.

The City Profile is generated for each city and sector based on key indicators as mentioned in Framework.

State Urban Water and Sanitation Profile

Key Performance Indicators for Water Supply

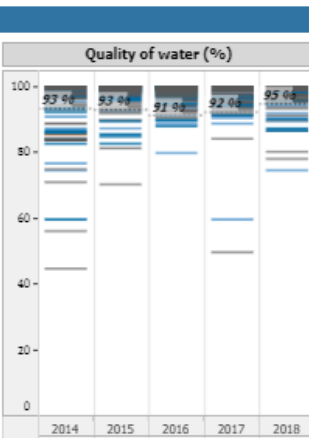
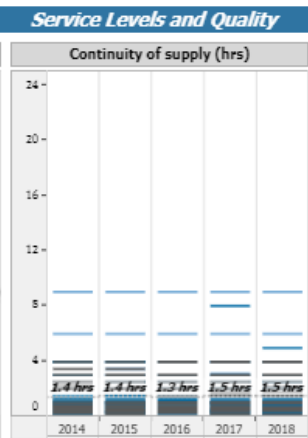
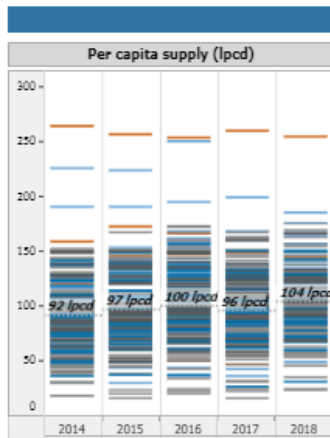


State:

Class:

Select ULB

- Ahmedabad
- Amli
- Amreli
- Anand
- Anjar
- Ankav
- Ankleshwar
- Babra
- Bagasa
- Balasinar
- Bantava
- Baravala
- Bandoli



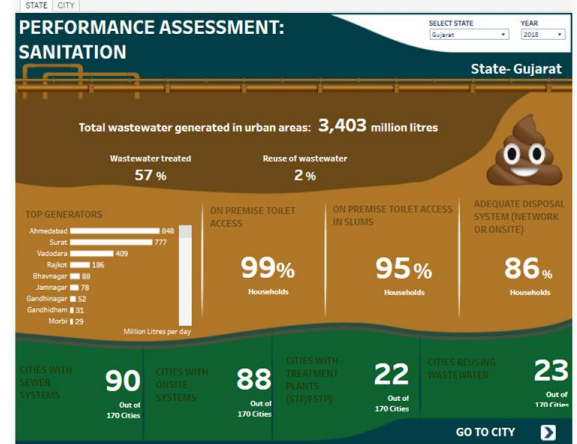
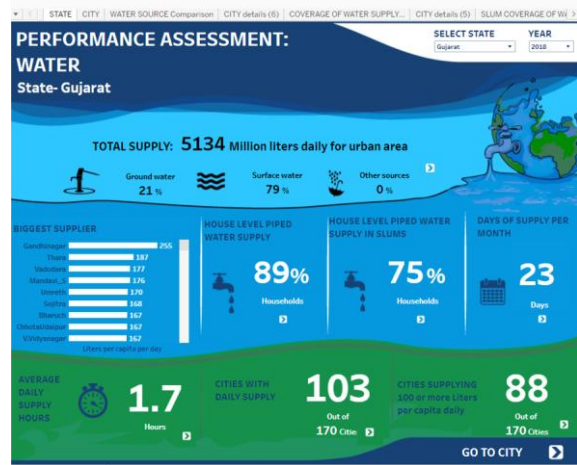
Population

- ≤ 62,500
- 2,000,000
- 4,000,000
- ≥ 6,581,580

Class

- MC
- A
- B
- C
- D

Next



Use of PAS

Routine Monitoring

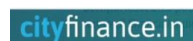
Time series information on PAS dashboard –

- Performance measurement
- Investment programs and
- Identifying area of focus



Research and Advocacy

- Academicians and students of planning or technology colleges have used this information for research purpose.



Service Improvement Plans

State and City refers PAS data for -

- DPRs
- City water balance plans (AMRUT)
- Action plans for solid waste management (SBM)
- Jal Jeevan Mission (water quality)



Decision making

- Financial decision related to WASH budget allocation and utilization of funds.
- Infrastructure planning and analyze the outcomes of investments -DMA



AMRUT portal : Domestic Tap Connections, Volume of water produced



SBM portal : waste generation, OSS,CT/PT



AUGUST 2022 CITY WATER COMPENDIUM
MAKING CITIES WATER POSITIVE



Compliance

- 16th FC
- NGT

Contents

Overview of PAS and SLB

1. Steps on entering SLB information on PAS portal

2 Data system strengthening-
Improving reliability of Data

3 Entering SLB information on City Finance Portal

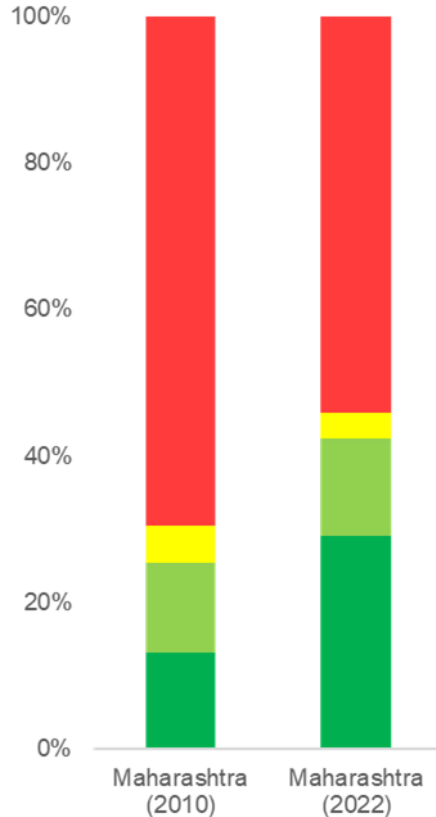
4 Lake management and Conservation



Improving reliability of data

Over the decade the indicator with higher reliable data has NOT increased

Reliability analysis of WASH data systems based on SLB KPI's



Reasons behind non improvement of the data reliability

1

Calculation of
Reliability
assessment

2

Guess based data
reporting

3

Data entered
without any
supporting
documents

4

Discrepancy in
data uploaded on
PAS

5

New staff - Lack of
understanding for
data recording and
updating on PAS

1. Correct method of capturing reliability grade on PAS portal

Issue/ Challenge

- Wrong capturing of reliability in reliability sheet
- Copy and paste previous year data

Solutions:

- Do not select multiple options
- Read the options carefully and then select
- Read MoHUA guideline for better understanding

Question	Options	N	A	B	C	D
Reliability count of an indicator		416	270	117		29
HHs served with individual water supply connections	1. Through household surveys (1-5 yrs)		272			
	2. Number of residential connections			369		
	3. Road covered by network length				210	
	4. Area covered by distribution network					160
How are records of HHs served by water supply maintained?	1. Computerised OR		198			
	2. Only Manual		317			

Home Performance Assessment Performance Improvement Urban Sanitation Resources About Us Data Entry

PERFORMANCE ASSESSMENT SYSTEM (PAS) PROJECT Yavatmal

General Information Water Supply Sewerage and Drainage Solid Waste Management ERI Reliability

RELIABILITY ASSESSMENT: FY 2023-2024

Reset Validation Submit Go Back to Data Entry Save All

1. Coverage

Reliability parameters for water supply, wastewater, SWM and SWD

	2022-2023	2023-2024
1.1 What is the basis of estimation of		
HHs served with individual water supply connections	1. Through household surveys (1-5 yrs)	YES -Select-
	2. Through property tax/billing records	YES -Select-
	3. Number of residential connections	YES -Select-
	4. Past trends/surveys	YES -Select-
	5. Area covered by distribution network	YES -Select-
	6. Road covered by network length	YES -Select-
Properties served with toilets (individual + community)	1. Through household surveys (1-5 yrs)	YES -Select-
	2. Through property tax records	YES -Select-
	3. Area covered by toilet facilities	YES -Select-

Reliability of Measurement	
Reliability scale	Description of method
Lowest level of reliability (D)	Estimation of households covered on the basis of geographical area of the city covered with the pipeline network, as a surrogate indicator for water supply coverage.
Intermediate level (C)	Estimation of households covered on the basis of road length in the city covered by the pipeline network, as a surrogate indicator for water supply coverage.
Intermediate level (B)	Estimation of households covered computed as the total number of connections (for which data are maintained) as a percentage of the estimated number of households on the basis of population (total population divided by average household size).
Highest/preferred level of reliability (A)	Calculation based on the actual number of households with direct service connections (for which data are maintained); and the total number of households as revealed in ground level surveys. Data are periodically updated on the basis of building units approved, and new household level water connections provided.

SLB handbook explains the frequency of data capturing



Highest/Preferred level of **Reliability (A)** for all the **28** indicators is based on either of the below measurement type:

- HHs survey
- Operational Record/Log keeping
- Multiple options of data recording
- Digitized data formats/equipment of measuring

Water Supply Indicators

A Coverage of Water Network	D Per Capita Water Supply	D Continuity of Service	D Extent of NRW
A Extent of Metering	D Quality of Service	D Complaint Redressal	A Collection of Charges
			A Cost Recovery

Sewage Management Indicators

A Coverage of Toilets	A Coverage of Sewerage network	A Collection Efficiency of Sewerage Network	A Adequacy of Treatment Plants
D Extent of Recycle & Reuse	D Quality of Service	D Complaint Redressal	A Collection of Charges
			A Cost Recovery

Solid waste Management Indicators

D Coverage of D2D service	D Collection of MSW	D Extent of Segregation	D Extent of Scientific Disposal
D Extent of Reuse & Recovery	D Complaint Redressal	A Cost Recovery	A Collection of Charges

Frequency of Measurement

A

Annual

D

Daily

Adopt a digital systems for improving data reliability

1

Real time Approach

Automized data capturing and monitoring through IOT

Automation at service points



Applications and Dashboards

Smart monitoring and decision making

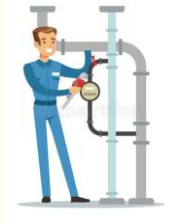


- Less human interventions.
- Smooth communication and analysis of data.

2

Hybrid Approach

Digitized + Manual data capturing and monitoring



Mechanized devices

Digitized record keeping



Standardized data formats

- Budget friendly and sustainable.

3

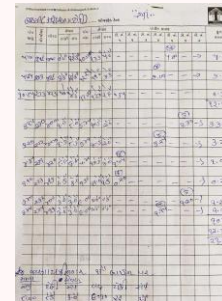
Manual Approach

Data capturing and monitoring through standard manual methods



Household survey / capturing service-related data

Hands on field assessment



Manual data formats and recording

- Highly human intensive.
- Difficult to manage data records.

2. Data Systems Strengthening – Guess-based data uploading

Issue/ Challenge

- Guess based data uploading on the portal

Solution

- Use formats shared to capture the data on regular basis- **on a frequency suggested by MoHUA**

KPI	Main Form	Supporting Form	Frequency of data calculation	Auto calculated/ Enter data
Coverage of water supply service & Extent of metering	Form WS01: Coverage of water supply service		Yearly Format	Auto calculated
		Form WS01A: Population Forecast	Yearly Format	Enter data
		Form WS01B: Number of households with water supply connection	Yearly Format	Enter data
Per capita water supplied	Form WS02: Per capita water supplied		Monthly Format	Auto calculated
		Form WS02A: Quantum of treated water supply-Method 1 (with meter)	Daily Format	Enter data
		Form WS02B: Quantum of treated water supply-Method 2 (without	Monthly Format	Auto calculated
		Form WS02C: Pumping details	Daily Format	Enter data
Extent of Non-revenue water	Form WS04: Extent of Non-revenue water		Monthly Format	Auto calculated
		Form WS04A: Total Quantum of water Billed	Monthly Format	Auto calculated
		Form WS04B: Quantum of water received by Valve operation and	Monthly Format	Auto calculated
Continuity of water supply	Form WS05: Continuity of water supply		Monthly Format	Auto calculated
		Form WS05A: Duration of water supply by valve operations	Daily Format	Enter data
		Form WS05B: Consumer end survey	Quarterly Format	Enter data
Quality of water supplied	Form WS06: Quality of water supplied		Monthly Format	Auto calculated
		Form WS06A: Water quality monthly report	Daily Format	Enter data
		Form WS06B: Frequency of required water quality tests	Sample form	
Efficiency of consumer complaint redressal	Form WS07: Efficiency of consumer complaint		Monthly Format	Enter data
Cost recovery in water supply services	Form WS08: Cost recovery in water supply services		Yearly Format	Enter data
Efficiency in collection of water supply related charges	Form WS09: Efficiency in collection of water supply related charges		Monthly Format	Enter data
Coverage of water supply connections in slum	Form WS10: Coverage of water supply connections		Yearly Format	Auto calculated
		Form SLUM01: Services in slums (Slum level information)	Sample form	Enter data
		Form SLUM02: Slum Household Survey Form	Sample form	

https://drive.google.com/drive/folders/1zdgse9TpgILIRFA_FrMvbnkpNFJQeSXb?usp=sharing

Use simple formats shared to capture accurate data

Use simple formats shared to capture accurate data of all 28 KPIs- enter data

- Chief officers and City engineers – To train your staff on how to capture data
- **State can conduct workshop on this**

Formats for all types of cities

1. Metered and Non-metered cities
2. Sewered and Non-sewered cities

- Digital formats that can be embedded in IOT – to generated App
- Also used in a printed version to enter data manually

Monthly Format				
Form WS05: Continuity of water supply				
About: This form would collect data of water supply duration with appropriate pressure and water quantity delivered to generate continuity of water. Source of this information will be Form WS05A.				
Name of Urban Local Body:	ABC Municipal Council		Date:	
			For Year:	
Location:	Municipal Head office			
Calculated by:	Municipal Engineer / City Engineer			
Frequency of recording:	<input type="checkbox"/> Daily	<input checked="" type="checkbox"/> Monthly	<input type="checkbox"/> Quarterly	<input type="checkbox"/> Yearly
Reported to:	Chief officer			
Frequency of reporting:	<input type="checkbox"/> Daily	<input checked="" type="checkbox"/> Monthly	<input type="checkbox"/> Quarterly	<input type="checkbox"/> Yearly
	Month	Water supply duration	Total days in the month	Average water supply duration per day
Column	A	B	C	D
Unit	-	Hours	days	Hours/day
Source	-	Form WS05A	-	(B/C)
1	April	15.67	30	0.52
2	May	20.67	31	0.67
3	June	20.00	30	0.67
4	July	20.67	31	0.67
5	August	20.67	31	0.67
6	September	20.00	30	0.67
7	October	20.67	31	0.67
8	November	20.00	30	0.67
9	December	20.68	31	0.67
10	January	20.67	31	0.67
11	February	19.33	29	0.67
12	March	20.67	31	0.67
Average				0.65
				Minutes/day
				39.28

Data Systems Strengthening - Discrepancy in data

General Information

Water Supply

Sewerage and Drainage

Solid Waste Management

ERI

Reliability

WATER SUPPLY : FY 2022-2023

Go Back to Data Entry

1. COVERAGE OF WATER SUPPLY CONNECTIONS

Water Service Coverage - Number of Connections			
Item	Unit	2021-2022	2022-2023
Does the ULB have water meters at consumer end?	Yes/No		NO
1.1 Domestic Connections (Metered Functional)	Number	NA	NA
1.2 Domestic Connections (Metered Non-Functional)	Number	NA	NA
1.3 Domestic Connections (Unmetered)	Number	5717	5805
Domestic connections (Total)	Number	5717	5805

All Property Details Report											
Financial Year: 2023-24											
Construction Area of Non-Resident Property			Total Open Area of Non-Resident Property			Resident Property count having special water tax			Non-Resident Property count having special water tax		
Active Property	Inactive Property	Total Construction Area	Active Property	Inactive Property	Total Open Area	Active Property	Inactive Property	Total Connections	Active Property	Inactive Property	Total Connections
865	1,589	2,11,454	7,86,013	1,400	7,87,413	4,202	0	4,202	264	0	264

Issue/ Challenge

Solution

- Discrepancy in data uploaded on PAS

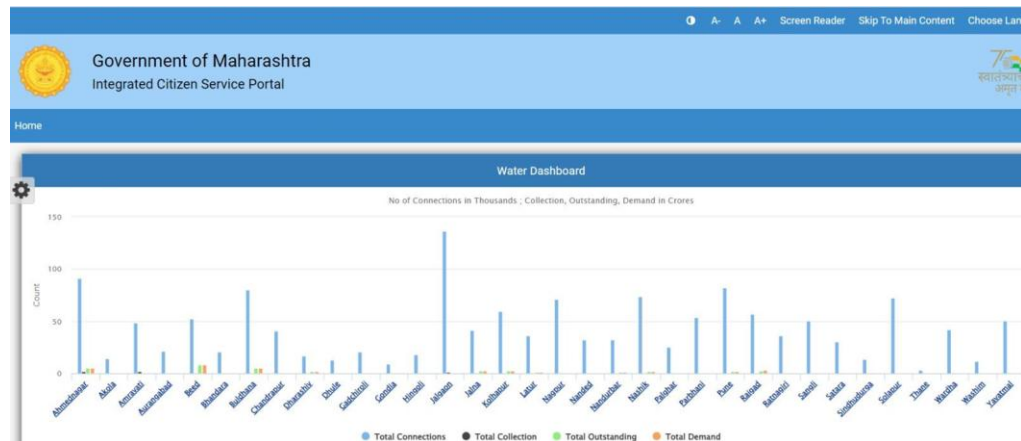
- Data should be checked by city engineers
- It should be in alignment with the IBWP portal, SBM and AMRUT Portals- State should check

Swachh Bharat Mission- Urban 2.0

City Sanitation Action Plan (CSAP) 3A/ 3B

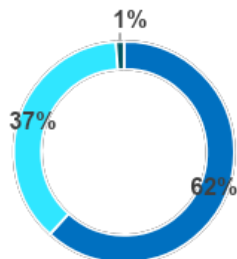
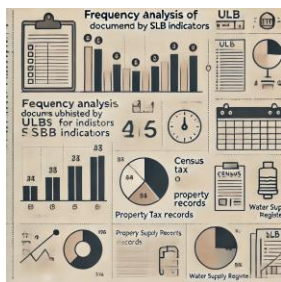
cityfinance.in

Swachhatam



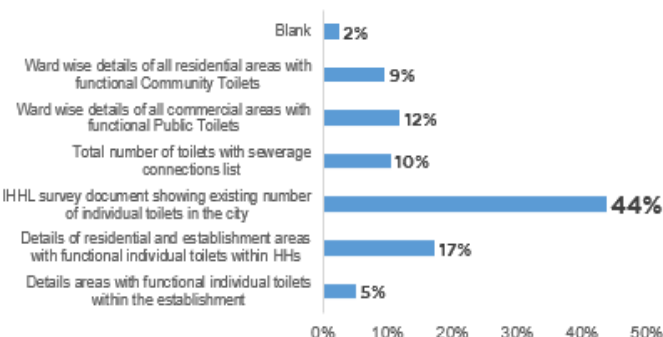
Strengthening Data Accuracy: Data submission by ULBs

Frequency analysis of documents submitted by ULBs for various indicators



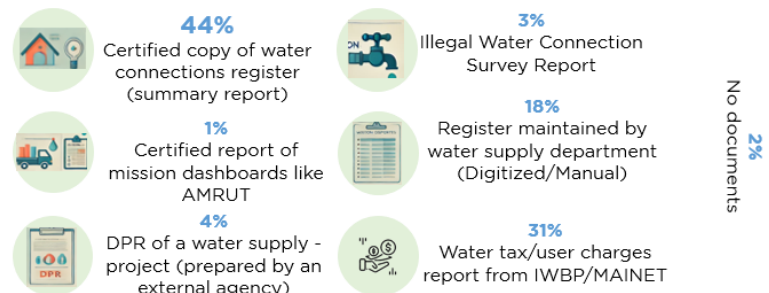
- Census Population Projections report
- Population survey records
- Blank

Total population of the city (Present Year)
Docs submitted by ULBs



Total no. of toilets in the city

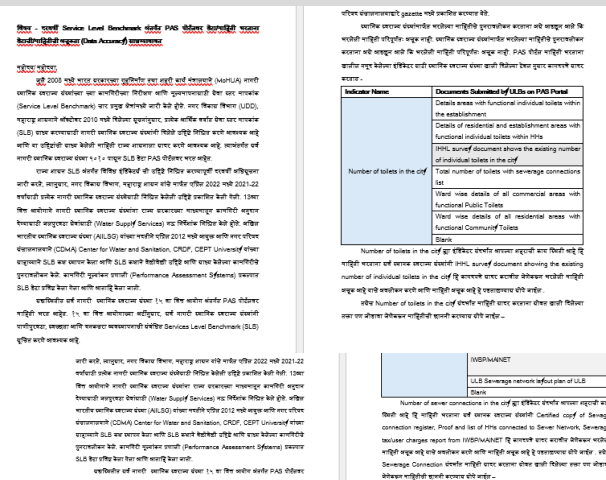
Total water supply connection in the city



Strengthening Data Accuracy: Standardizing ULB Submissions“

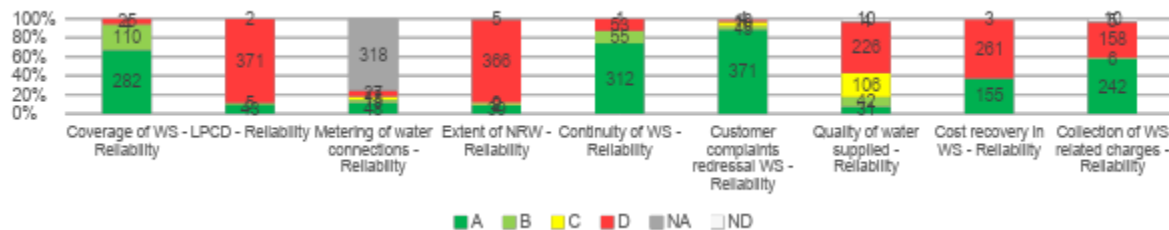
- A **frequency analysis** was conducted for all indicators based on ULB data submissions.
- The infographic highlights **three key indicators** and the documents submitted as proof.
- For total **water supply connections**, most ULBs submitted a certified copy of the water connections register.
- Standardizing document submission will improve data **accuracy and reliability**.
- A circular from the DMA office should be issued to ensure uniform data submission.

Circular for Number of toilets in the city

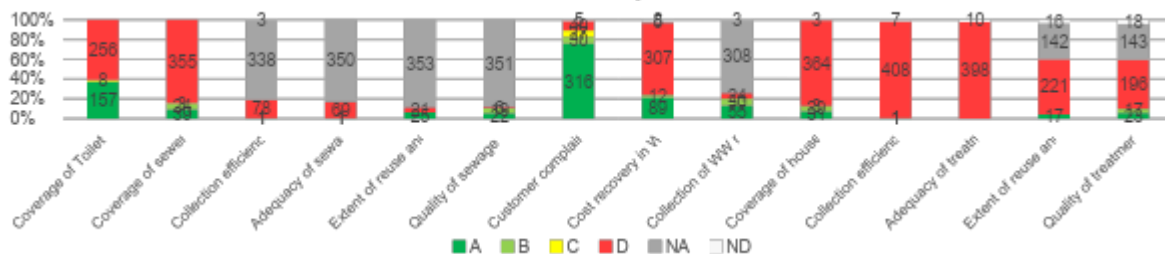


Improving the reliability of capturing the data is the first step towards data system strengthening

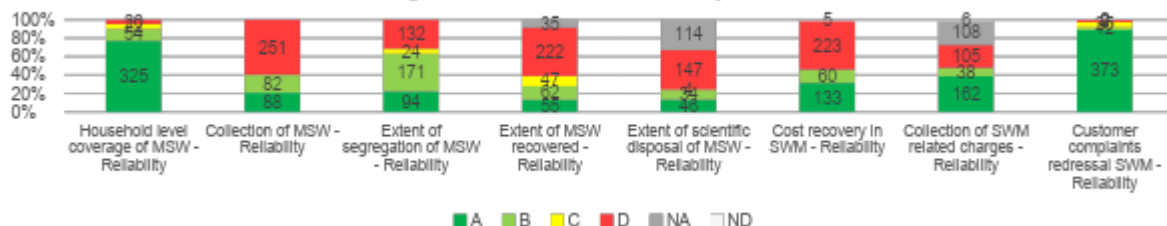
Water supply indicators reliability of Maharashtra 2023



Wastewater indicators reliability of Maharashtra, 2023



Solid waste management indicators reliability of Maharashtra, 2023



- Need to focus on improving the data systems of indicators like LPCD, NRW, Quality of water supply – Lead to improving overall water supply services
- Sanitation and Solid waste sector needs more focus in capturing the data.
- Despite improvement due to absence of reliable system on capturing the data, the improvement is not evitable, or the missing links can not be identified easily.

Data Systems Strengthening – Digitised Property Assessment form

- ULBs are not conducting property assessments at the interval of 4 years
- Current property assessment forms do not capture details about the toilets, disposal systems, RWH and solar systems installed
- Digitised property assessment form which can be used by all the cities
- State and Cities can contact us to use this format

XXXX Municipal Council
District- XXXX, State- XXXXX
Property Assessment Form (Financial Year 2023-24)

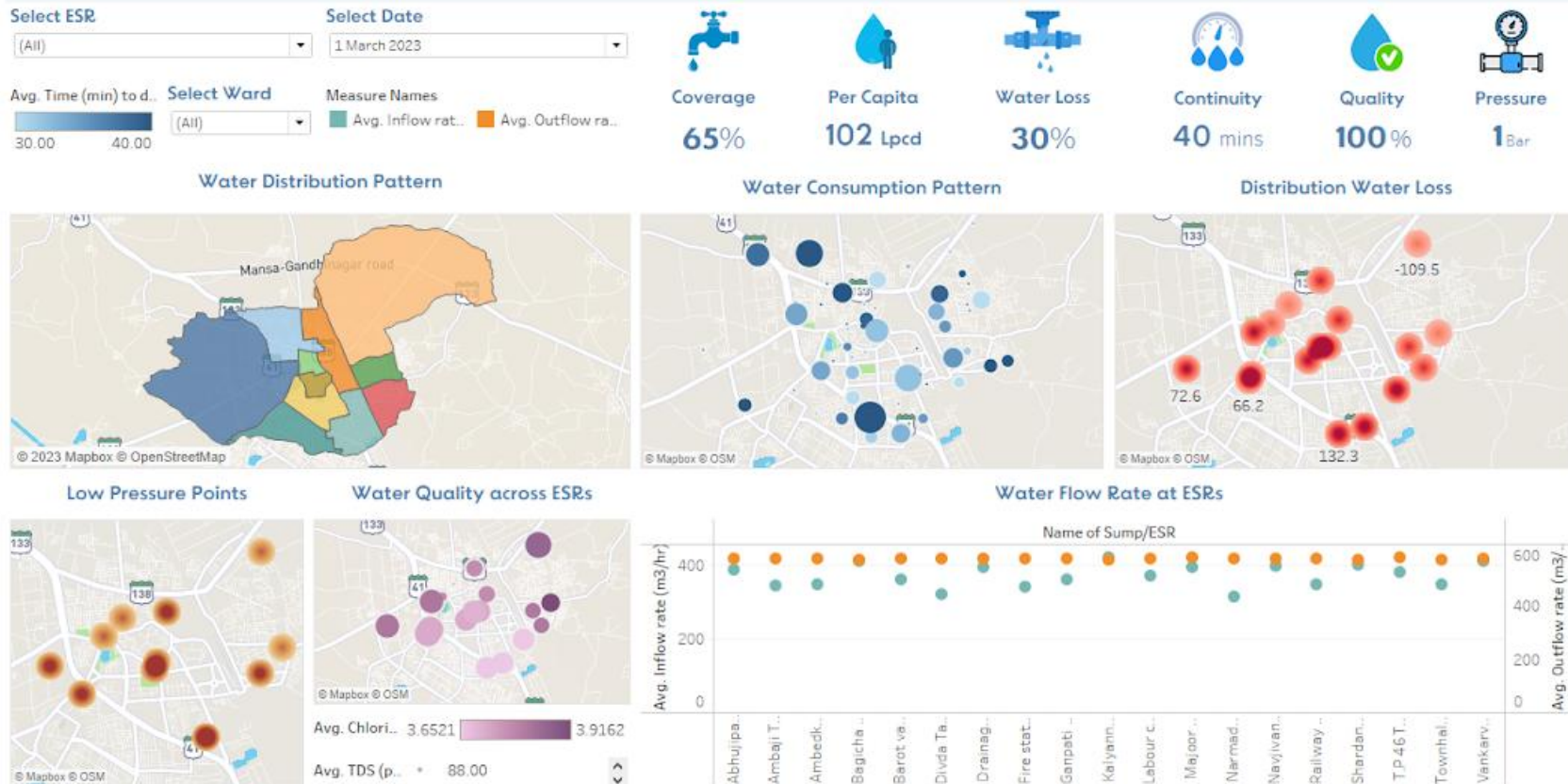
Inspection details

Old property number

Particulars	(1) Property details as per records	(2) Property details as per spot verification
Owner's Name	<input type="text" value="Owner's Name"/>	<input type="text" value="Owner's Name"/>
Name of Occupant	<input type="text" value="Name of Occupant"/>	<input type="text" value="Name of Occupant"/>
Address of the Property	<input type="text" value="Address of the Property"/>	<input type="text" value="Address of the Property"/>
Mailing address	<input type="text" value="Mailing address"/>	<input type="text" value="Mailing address"/>
Description of property	<input type="text" value="Description of property"/>	<input type="text" value="Description of property"/>
Area (sq.m)	<input type="text" value="Area (sq.m)"/>	<input type="text" value="Area (sq.m)"/>
Ward Number	<input type="text" value="Ward Number"/>	<input type="text" value="Ward Number"/>
Census Number	<input type="text" value="Census Number"/>	<input type="text" value="Census Number"/>

Dashboard of a city with real time approach of data capturing system

ABC City Smart monitoring Dashboard



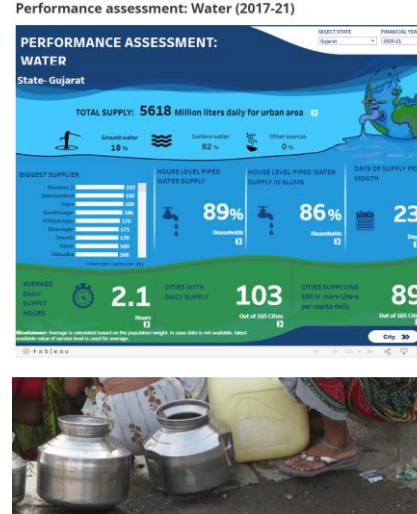
Support from CWAS



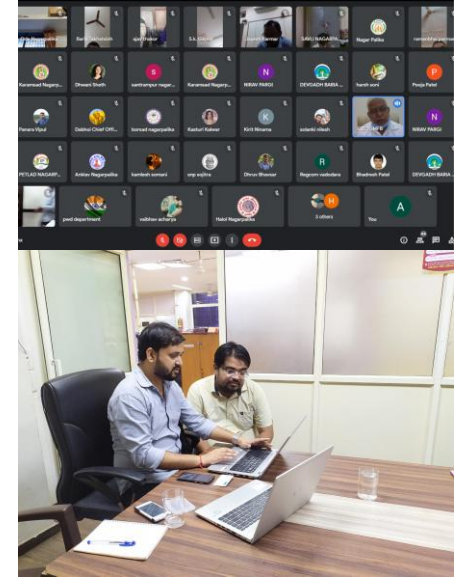
Planning of pilot study and on ground demonstration of exercise



Sensitization and capacity building of the ULB officials



Standard Operating Procedure (SOP) for Routine Water Quality Surveillance in ULBs in Gujarat



Technical assistance to the ULB team and help in scaling up

Action to be taken by ULBs

- Complete the SLB activities for FY 2024-25
- ULB will submit the supporting documents on shared portal after getting it approved by chief officer
- In case of absence of the supporting document city should start capturing data using the formats shared- conduct trainings
- Strengthening water supply and sanitation data by introducing digital tracking system and by linking with property tax assessment system
- Budget making process should reflect the projects lead to service level improvement
- City should conduct capacity building workshops for their ground level staff on how to capture data using shared formats
- Should train new staffs on how to enter data and how to use the data
- Should use the data for decision making and improve the service delivery- city can assess city performance from PAS- know your city dashboards

Reliable data can be effectively generated and then can be used for routine decision making and improving the service delivery at both state and city level.

Contents

Overview of PAS and SLB

1. Steps on entering SLB information on PAS portal

2 Data system strengthening-
improving reliability of Data

3 Entering SLB information on City Finance Portal

4 Lake management and Conservation

City Finance Portal Data Submission

Training to ULBs for Data Submission

January 2025

Directorate of Municipal Administration, Maharashtra
Center for Water and Sanitation (CWAS), CEPT University



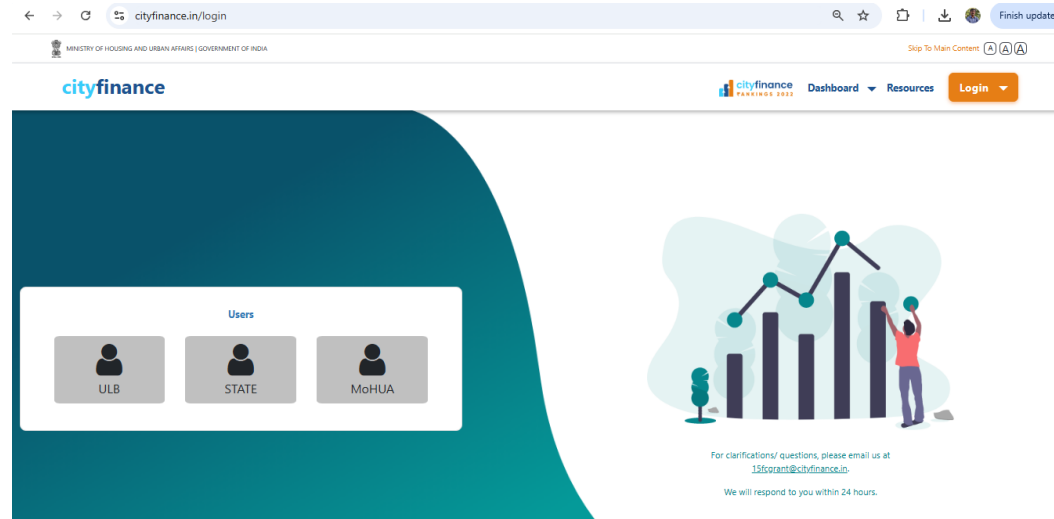
CWAS CENTER
FOR WATER
AND SANITATION

CRDF CEPT RESEARCH
AND DEVELOPMENT
FOUNDATION

CEPT
UNIVERSITY

City Finance Portal: For operationalization of 15th FC guidelines

- In May 2020, MoHUA implemented and launched www.cityfinance.in, which is the national municipal finance portal and serves as a framework of standardized, timely and credible financial information on India's cities (urban local bodies).
- Facilitates benchmarking, comparison and peer learning between ULBs on a range of financial and operational performance indicators.



Grants recommended under 15th FC

Urban areas have been grouped into two broad categories for recommending grants namely

- **Category-I: Million Plus cities (MPC)** cities which include urban agglomeration/cities with more than one million (10 lakh) population.
- **Category-II: Non-million plus cities (NMPC)** which include cities other than **million plus cities**. The category-wise distribution of the grant is as under,

Category – I	Category – II	
MPC	NMPC	
Grants to MPCs is linked to meeting the Service Level Benchmark	Untied Grants	Tied Grants
	40% Grants	60% Grants

Marking scheme for Grant release

- MoH&UA will assess the performance of cities in Water supply & Sanitation against 4 service level indicators and in SWM against 2 service level indicators as per details given below.
- On the basis of the marks obtained by each ULB/UA, MoH&UA will recommend the share of grant to be disbursed to each ULB/UA. The service level indicators and the maximum marks that ULB can score for


each service level indicators against the achievement of the self assessed target

Sr. No	Service Level Indicators	Max Marks
1	Service Level Indicators for water supply and sanitation	60
1.1	HHs covered with piped water supply	20
1.2	Piped water supply in lpcd	10
1.3	Reduction in NRW	10
1.4	HHs level coverage for sewerage and septage services	20
2.	Service level indicators for SWM	40
2.1	GFC Star rating	30
2.2	Sanitation including management of Fecal sludge	10
	Total (1+2)	100


City Finance Portal - <https://cityfinance.in/login>


PAS-SLB web portal – www.pas.org.in


Resources

SLBs for Water Supply and Sanitation


Entry Level Conditions


Detailed Utilisation Report

Annual Accounts

Details of Property Tax and User Charges

Performance Conditions

Open Defecation Free (ODF)

Garbage Free City (GFC)

Water Supply

#	Sections/Indicators	Actual Indicator 2023-24		Target Indicator 2024-25	
1	Coverage of water supply connections	100	%	100	%
2	Per capita supply of water(lpcd)	135	lpcd	135	lpcd
3	Extent of metering of water connections	1	%	1	%
4	Extent of non-revenue water (NRW)	5	%	0	%
5	Continuity of water supply	1	Hours/day	1	Hours/day
6	Efficiency in redressal of customer complaints	100	%	100	%
7	Quality of water supplied	100	%	100	%

Alert: Points to remember

- 28 SLB indicator value to be enter for current year on City Finance Portal
- Actual indicator for current year to be put as per the result derived from PAS Portal
- Review the target again – need to be achieved to receive the grants

Login to PAS-SLB web portal – [www.pas.org.in](https://pas.org.in)

The screenshot shows a web browser window with the address bar displaying <https://pas.org.in>. The page features the CWAS CRDF CEPT UNIVERSITY logo on the left and a login form on the right. The login form includes fields for 'Login' and 'Password', with a 'Login' button. Below the logo, a navigation menu contains links: Home, Performance Assessment, Performance Improvement, Urban Sanitation, Resources, and About Us. A language selector shows 'English | Gujarati | हिंदी | Marathi'. The main heading is 'Center for Water and Sanitation', followed by a search bar. The footer image is a composite of a map of India with blue dots indicating project locations and a photograph of a classroom with students at computers.

PAS - Home

← → ↻ <https://pas.org.in>

CWAS
CRDF CEPT UNIVERSITY

Login
Password Login

Home Performance Assessment Performance Improvement Urban Sanitation Resources About Us

English | Gujarati | हिंदी | Marathi

Center for Water and Sanitation Search

The footer image is a composite of a map of India with blue dots indicating project locations and a photograph of a classroom with students at computers.

After login to PAS portal
click on the data entry tab

You are signed in as Akkalkot ULB.

| Sign Out |

Home Performance Assessment Performance Improvement Urban Sanitation Resources About Us

Data Entry

Checklist

Target Setting

Document Upload

Search

Data Entry

Cities can enter data online for the checklist, as well as targets as per the Finance commission requirements for all SLB indicators.

After clicking on data
entry tab click on Target
Setting tab

About CEPT

CEPT University located in Ahmedabad in India is a leading institution offering undergraduate and postgraduate programmes in Architecture, Planning, Building Construction, Interior Design, Technology Management and Arts through its various schools. Since its inception in 1969, CEPT's mission has been to contribute to development issues related to urban and rural

Home Performance Assessment Performance Improvement

About Us Data Entry

Target Setting

The Central Finance Commission (CFC) which submitted its report in 2015

One of the conditions to access these grants is the notification of current
drainage and solid waste management by the state government. The notification
process. The targets have to be entered for each of the indicators listed in

based grants for urban local bodies.

s of water supply, sewerage, storm water
e set for each ULB through a consultative

Select Financial Year:

---Select---

FY 2012-2013

FY 2013-2014

FY 2014-2015

FY 2015-2016

FY 2016-2017

FY 2017-2018

FY 2018-2019

FY 2019-2020

FY 2020-2021

FY 2021-2022

FY 2022-2023

FY 2023-2024

FY 2024-2025

---Select---

Get Target Setting

In the target setting
select upcoming financial
year and then click on
Get Target Setting

ad in India is a leading institution offering undergraduate and postgraduate programmes in Architecture, Planning, Building Construction, Interior
d Arts through its various schools. Since its inception in 1962, CEPT's mission has been to contribute to development issues related to urban and rural
grammes as well as research and professional activities. In 2005, it was made into a State University by an Act of the State Legislative Assembly of

Target Setting for Akkalkot for FY 2024-2025

(CFC) which submitted its report in 2015 has recommended specific performance based grants for urban local bodies. One of the conditions for these grants is the notification of current year service standards for the sectors of water supply, sewerage and solid waste management by the state government. The notified service standards are targets to be set for each ULB that is eligible for each of the indicators listed in the table below.

Submit

☐ Update

Water supply: KPIs	2021-2022	2022-2023	2023-2024	Target for 2023-2024	Target for 2024-2025
Coverage of water supply connections(%)	68.5	68.6	70.0	100.0	100.0
Per capita supply of water at consumer end(lpcd)	66.0	65.5	77.3	135.0	80.0
Extent of metering of water connections(%)	NA	NA	NA	NA	NA
Extent of non-revenue water(%)	20.5	20.3	18.9	15.0	17.0
Continuity of water supply(hrs per day)	0.4	0.4	0.5	1.0	1.2
Efficiency in redressal of customer complaints(%)	100.0	100.0	100.0	100.0	100.0
Quality of water supplied(ppm)	100.0	100.0	100.0	100.0	100.0

ULBs can directly enter value in this column on the City Finance Portal for current year

Copy these target value of upcoming year on City Finance Portal

Efficiency in collection of SWM related charges(%)	NA	NA	NA	0.0	NA
HH level coverage of SWM services in 'slum settlements' (%)	100.0	100.0	100.0	100.0	100.0
<input type="checkbox"/> Update					
SWD: KPIs	2021-2022	2022-2023	2023-2024	Target for 2023-2024	Target for 2024-2025
Coverage of storm water drainage network(%)	0.0	0.0	0.0	10.0	10.0
Incidence of water logging/flooding(nos)	0.0	0.0	0.0	0.0	0.0

Another method is ULB can click on Download Gazette Excel by clicking on this tab at the bottom of the same page

Download in Excel

Download in PDF

Download Gazette in Excel

Submit

CEPT University located in Ahmedabad in India is a leading institution offering undergraduate and postgraduate programmes in Architecture, Planning, Building Construction, Interior Design, Technology Management and Arts through its various schools. Since its inception in 1962, CEPT's mission has been to contribute to development issues related to urban and rural settlements through its academic programmes as well as research and professional activities. In 2005, it was made into a State University by an Act of the State Legislative Assembly of Gujarat.

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Alignment

Number

Styles

Cells

Editing

Sensitivity

Add-ins

Analyze Data

Comments Share

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NA

15th Finance Commission, Government of India				
SERVICE LEVEL BENCHMARK AT A GLANCE (SLB)				
Name of Municipality :- Akkalkot		District : Solapur	Class B	
Sr.No	Proposed Indicator	Benchmark	Present Status 2023-24	Target in Year 2024-25
1	WATER SUPPLY SERVICES पाणीपुरवठा			
1.1	Coverage of water supply connections पाणी पुरवठा जोडण्याची व्याप्ती	100.0%	70	100
1.2	Per capita supply of water ग्राहकाचे स्तरावर प्रती व्यक्ती पाणी पुरवठा	135 lpcd	77	80
1.3	Extent of metering of water connections पाणी जोडण्यांना जलमापक यंत्र बसविण्याची व्याप्ती	100.0%	NA	NA
1.4	Extent of non revenue water (NRW) महसुली उत्पन्न नसलेल्या पाण्याची व्याप्ती	20.0%	19	17
1.5	Continuity of water supply पाणी पुरवठ्याचे सातत्य	24 hours	0.53	1.2

After opening downloaded excel ULB need to copy values in these two columns on the City finance Portal

Target Report

After opening downloaded excel ULB need to copy values in these two columns on the City finance Portal

Login to City Finance Portal - <https://cityfinance.in/login>

← → ↻ 🏠 🔍 https://cityfinance.in/login ⌨ ⭐ 📄 | ⬇️ 🌐 ⋮

🇮🇳 MINISTRY OF HOUSING AND URBAN AFFAIRS | GOVERNMENT OF INDIA Skip To Main Content (A) (A) (A)

cityfinance RANKINGS 2022 Dashboard ▾ Resources Login ▾

Sign In

Census Code/ULB Code *

Password *

Forgot password?

Sign In

Or

Get OTP on your phone and email

ULB must enter their ULB code as Login ID and password

For clarifications/ questions, please email us at 15fcgrant@cityfinance.in. We will respond to you within 24 hours.



Dashboard ▼

Resources

15th FC Grants

XVI FC Data Collection

Rankings'22 Form



Welcome to 15th Finance Commission Grant Management System Ulhasnagar Municipal Corporation

Select Financial Year

2020-21

2021-22

2022-23

2023-24

2024-25

After login click on the year for which you are entering data

Report


Annual Accounts

Details of Property Tax and User Charges

Performance Conditions

Open Defecation Free (ODF)

Garbage Free City (GFC)

 28 SLBs

3	Extent of metering of water connections	<input type="text" value="1"/>	<div>%</div>	<input type="text" value="1"/>	<div>%</div>
4	Extent of non-revenue water (NRW)	<input type="text" value="5"/>	<div>%</div>	<input type="text" value="0"/>	<div>%</div>
5	Continuity of water supply	<input type="text" value="1"/>	<div>Hours/day</div>	<input type="text" value="1"/>	<div>Hours/day</div>
6	Efficiency in redressal of customer complaints	<input type="text" value="100"/>	<div>%</div>	<input type="text" value="100"/>	<div>%</div>
7	Quality of water supplied	<input type="text" value="100"/>	<div>%</div>	<input type="text" value="100"/>	<div>%</div>
8	Cost recovery in water supply service	<input type="text" value="100"/>	<div>%</div>	<input type="text" value="100"/>	<div>%</div>
9	Efficiency in water supply services	<input type="text" value="70"/>	<div>%</div>	<input type="text" value="80"/>	<div>%</div>

Sanitation

Once you click on the year click on 28 SLBs tab at the bottom; you will get to see all the indicators

Now enter all the values “Same” as on PAS portal for current year in this column or from excel that you have download

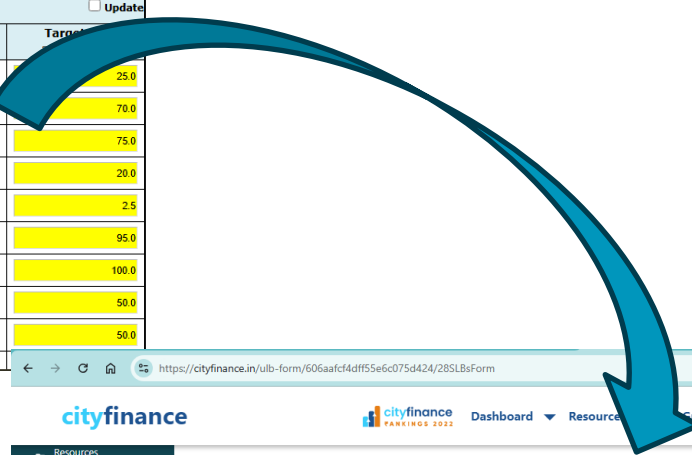
#	Sections/Indicators	Actual Indicator 2023-24		Target Indicator 2024-25	
1	Coverage of water supply connections	100	%	100	%
2	Per capita supply of water(lpcd)	135	lpcd	135	lpcd
3	Extent of metering of water connections	1	%	1	%
4	Extent of non-revenue water (NRW)	5	%	0	%
5	Continuity of water supply	1	Hours/day	1	Hours/day
6	Efficiency in redressal of customer com		%	100	%
7	Quality of water supplied		%	100	%

Similarly enter Target values from PAS portal here

The Central Finance Commission (CFC) which submitted its report in 2015 has recommended specific performance based grants for urban local bodies.

One of the conditions to access these grants is the notification of current year service standards for the sectors of water supply, sewerage, storm water drainage and solid waste management by the state government. The notified service standards are targets to be set for each ULB through a consultative process. The targets have to be entered for each of the indicators listed in the table below.

Submit					
Update					
Water supply: KPIs	2021-2022	2022-2023	2023-2024	Target for 2023-2024	Target for 2024-25
Coverage of water supply connections(%)	22.5	23.9	22.9	30.0	25.0
Per capita supply of water at consumer end(lpcd)	62.5	63.0	63.5	70.0	70.0
Extent of metering of water connections(%)	77.8	78.9	72.1	80.0	75.0
Extent of non-revenue water(%)	16.0	15.3	20.0	15.0	20.0
Continuity of water supply(hrs per day)	2.0	2.0	2.0	2.0	2.5
Efficiency in redressal of customer complaints(%)	79.7	67.2	90.2	68.0	95.0
Quality of water supplied(%)	100.0	100.0	100.0	100.0	100.0
Cost recovery in water supply services(%)	61.3	56.4	47.6	60.0	50.0
Efficiency in collection of water supply related charges(%)	53.8	47.1	42.8	50.0	50.0



Option 1
Enter same
values as on
PAS Portal

cityfinance

Dashboard Resource Grants Rankings '22 Dashboard Users

Water Supply

#	Sections/Indicators	Actual Indicator 2023-24	Target Indicator 2024-25
1	Coverage of water supply connections	22.9	% 100 %
2	Per capita supply of water(lpcd)	64	lpcd 135 lpcd
3	Extent of metering of water connections	72.1	% 75 %
4	Extent of non-revenue water (NRW)	20	% 13 %
5	Continuity of water supply	2	Hours/day 3 Hours/day
6	Efficiency in redressal of customer complaints	90.2	% 95 %
7	Quality of water supplied	100	% 100 %

AutoSave OFF dataentry (3) - Compatibility... Saved to this PC

File Home Insert Page Layout Formulas Data Review View Automate Help

Clipboard Font Alignment Number Styles Cells Editing Sensitivity Add-ins Analyze Data

A1 15th Finance Commission, Government of India

15th Finance Commission, Government of India

SERVICE LEVEL BENCHMARK AT A GLANCE (SLB)

Name of Municipality :-Kudal District :Sindhudurg Nagar Panchayat

Sr.No	Proposed Indicator	Benchmark	Present Status 2023-24	Target in Year 2024-25
1	WATER SUPPLY SERVICES पाणीपुरवठा			
1.1	Coverage of water supply connections पाणी पुरवठा जोडण्याची व्याप्ती	100.0%	23	25
1.2	Per capita supply of water ग्रहकाचे स्तरावर प्रती व्यक्ती पाणी पुरवठा	135 lpcd	63	70
1.3	Extent of metering of water connections पाणी जोडण्यांना जलमापक यंत्र बसविण्याची व्याप्ती	100.0%	72	75
1.4	Extent of non revenue water (NRW) महसुली उल्लंघन नसलेल्या पाण्याची व्याप्ती	20.0%	20	20
1.5	Continuity of water supply पाणी पुरवठ्याचे सातत्य	24 hours	2.0	2.5

Target Report

Ready Accessibility: Unavailable

https://cityfinance.in/ulb-form/606aafc4d1ff55e6c075d424/28SLBsForm

Option 2

Download

Gazette excel

and enter the

values

cityfinance

Dashboard Resources 15th FC Grants Dashboard Users

Water Supply

#	Sections/Indicators	Actual Indicator 2023-24	Target Indicator 2024-25
1	Coverage of water supply connections	22.9	100
2	Per capita supply of water(lpcd)	64	135
3	Extent of metering of water connections	72.1	75
4	Extent of non-revenue water (NRW)	20	13
5	Continuity of water supply	2	3
6	Efficiency in redressal of customer complaints	90.2	95
7	Quality of water supplied	100	100

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cityfinance

Resources 15th FC Grants XVI FC Data Collection Rankings'22 Form

Resources

- SLBs for Water Supply and Sanitation
- Entry Level Conditions
- Detailed Utilisation Report
- Annual Accounts
- Details of Property Tax and User Charges
- Performance Conditions
- Open Defecation Free (ODF)
- Garbage Free City (GFC)

Open Defecation Free (ODF) Rating*

ODF++

Score = 10

Upload PDF

Certification Issue Date *

22-07-2022

< - Previous Form

SAVE AS DRAFT

SUBMIT

NEXT FORM ->

Review Status:

State Remarks/Reject Reason:

Supporting Document :

After entering SLB data click on ODF tab to upload declaration or certificate

Declaration as per ODF declaration format -
com/drive/u/0/folders/14v5IkamRhpSfpxVtk3eQ

Select appropriate certification

Click on Upload PDF for uploading certificate or declaration

After entering SLB data click on ODF tab to upload declaration or certificate

If ULBs don't have ODF or GFC certificate please click on this link to download declaration -
<https://drive.google.com/drive/u/0/folders/14v5lkamRhpSfpxVtk3eQnluO6Ale3qGd>

Don't change the years in the declaration, just select the proper ODF certification for you ULB, mention name of CO and then sign the declaration and upload it

Please print on the ULB letterhead

Date: xx/xx/xxx

To whom so ever it may concern

I, [Name of the CO], below signing authority, hereby declare that the ODF assessment for the year 2024-25 is pending for [Name of Council/Nagar Panchayat/Corporation].

Further, I hereby declare that [Name of Council/Nagar Panchayat/Corporation] is ODF/ODF+/ODF++/water plus/Non ODF certified in Open defecation free cities category in the year 2023-24. I have personally verified these results from the Ministry of Housing and Urban Affairs Swachhatam portal.

[Sign & Stamp]

Chief Officer/Commissioner

[ULB name]

Similar steps to follow in case of GFC

Please print on the ULB letter head

Date: xx/xx/xxx

To whom so ever it may concern

I, [Name of the CO, below signing authority, hereby declare that the GFC assessment for the year 2024-25 is pending for [Name of Council/Nagar Panchayat/Corporation].

Further, I hereby declare that [Name of Council/Nagar Panchayat/Corporation] is certified as **No star/1 star/3 star/5 star/7 star/No rating** in Garbage Free Cities (GFC) certification in the year 2023-24. I have personally verified these results from the Ministry of Housing and Urban Affairs Swachhatam portal.

[Sign & Stamp]
Chief Officer/Commissioner
[ULB name]

cityfinance

Resources

SLBs for Water Supply and Sanitation

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Open Defecation Free (ODF)

Garbage Free City (GFC)

cityfinance RANKINGS 2022

Dashboard

Resources

15th FC Grants

XVI FC Data Collection

Rankings'22 Form

Open Defecation Free (ODF) Rating*

ODF++

Score = 10

Upload ODF Certificate? *

ODF++.pdf

Upload PDF

Certification Issue Date *

22-07-2022

<- Previous Form

SAVE AS DRAFT

SUBMIT

NEXT FORM ->

Review Status:

State Remarks/Reject Reason:

Supporting Document :

Click on submit once uploaded

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https://cityfinance.in/ulb-form/606aafcf4dff55e6c075d424/odf

13:26

23-01-2025

Examples of ODF & GFC declarations



Date: 17/01/2025

To whom so ever it may concern

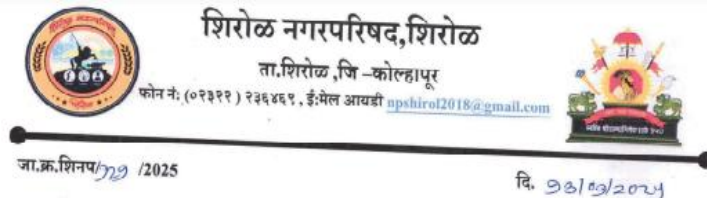
I, Arvind Anand Natu, below signing authority, hereby declare that the ODF assessment for the year 2024-25 is pending for Kudal Nagarpanchayat. we have applied for ODF++ on Ministry of Housing and Urban Affairs Swachhatam portal on dated 28/11/2024

Further, I hereby declare that Kudal Nagarpanchayat is ODF++ certified in Open defecation free cities category in the year 2023-24. I have personally verified these results from the Ministry of Housing and Urban Affairs Swachhatam portal.



Chief Officer
Kudal Nagarpanchayat

ODF Declaration uploaded by ULB



To whom so ever it may concern

I Mr. Nishikant Parchand Rao, below signing authority, hereby declare that GFC assessment for the year 2024-25 is pending for Shirol Municipal Council

Further, I hereby declare that Shirol Municipal Council is certified No star in Garbage Free Cities (GFC) certification in the year 2023-24. I have personally verified these results from the Ministry of Housing and Urban Affairs Swachhatam portal.



(Mr. Nishikant Parchand Rao)
Chief Officer
Shirol Municipal Council

GFC Declaration uploaded by ULB

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improving reliability of Data

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4 Lake management and Conservation

Lake Management and Conservation

Lake Management and Conservation



Why is it important to conserve lakes?

Important for hydrology and water resource



Source of water



Groundwater recharge systems



Collect stormwater runoff



Flood mitigation



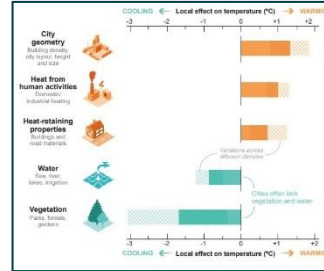
Water Management

Important for city and climate perspective



Maintain blue - green spaces

Reduce Urban Heat Island impact



GHG sinks



Maintain Transit modes during floods



Water footprint

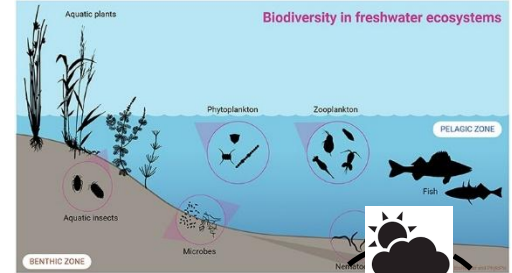
Important for ecosystem and biodiversity



Fishing - Livelihood



Vegetation in and around lake



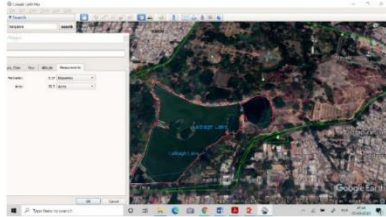
Conservation of Ecosystem



Cultural and social impact

What should be done for conserving lakes ??

Lake boundary mapping



Developing database and mapping the lake area, including the lakes in the development plan.

Developing the lake surrounding areas



Planting trees around the lake area to reduce the soil erosion and ensuring good water quality of lakes.

Lake cleaning and revival



Cleaning of solid waste floating and diverting the drains disposing the wastewater in lakes.

Frequent lake water quality testing



To ensure good water quality and reduce adverse impact on the aquatic life. Also secure the water resource.

How to do it?

Lake and surrounding Mapping

- Basic tools like Google Earth can be used to map the lake area and also a field survey to map the water depth
- Validation with the Government land records to assess change in lake area over time
- Including local community in mapping the lakes.

Lake Surrounding Area Development

- Tree plantation around the lake area
- Adding the buffer area to the lake
- Adding the drain diversion to stop wastewater discharge in lakes

Quarterly Water Quality Testing

- Testing basic water quality parameters such as pH, temperature, DO, COD, BOD, Total and Faecal Coliform, Turbidity, Total suspended solids, and total dissolved solids
- Fixing point locations for quarterly water quality testing.

Lake Revival Strategies



De-weeding of lake



Desilting of lake



Aeration and Plant bed in



Removal of solid waste from lake surface



Lake fencing with regulated access



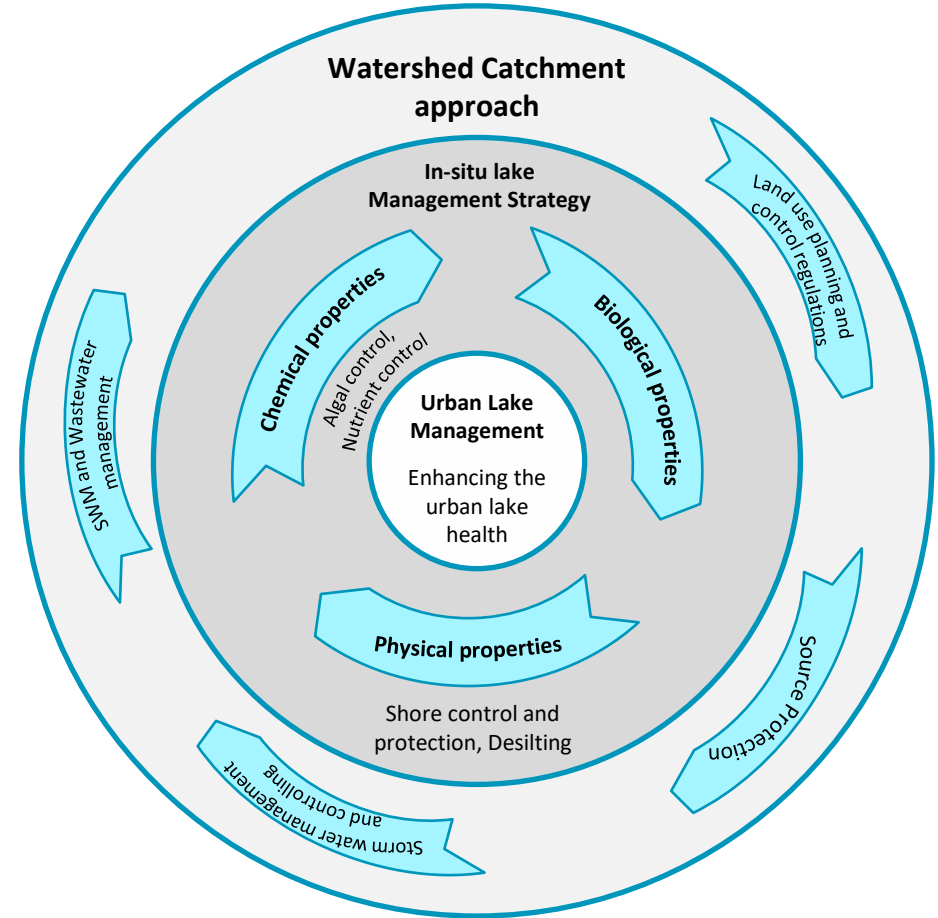
Walkway, tree plantation, and lawn

Urban lake management plan

- **Land use planning and control regulations** to Prevent encroachments and reduce urban runoff
- **Source protection** to prevent pollutants from entering at the origin (e.g., drains, inlets)
- **Stormwater management and control** by installing silt traps and infiltration systems
- **Solid Waste Management (SWM) and wastewater management** by stop dumping waste and ensure sewage interception



Helps in maintaining good lake health



How to interpret Water Quality of lakes?

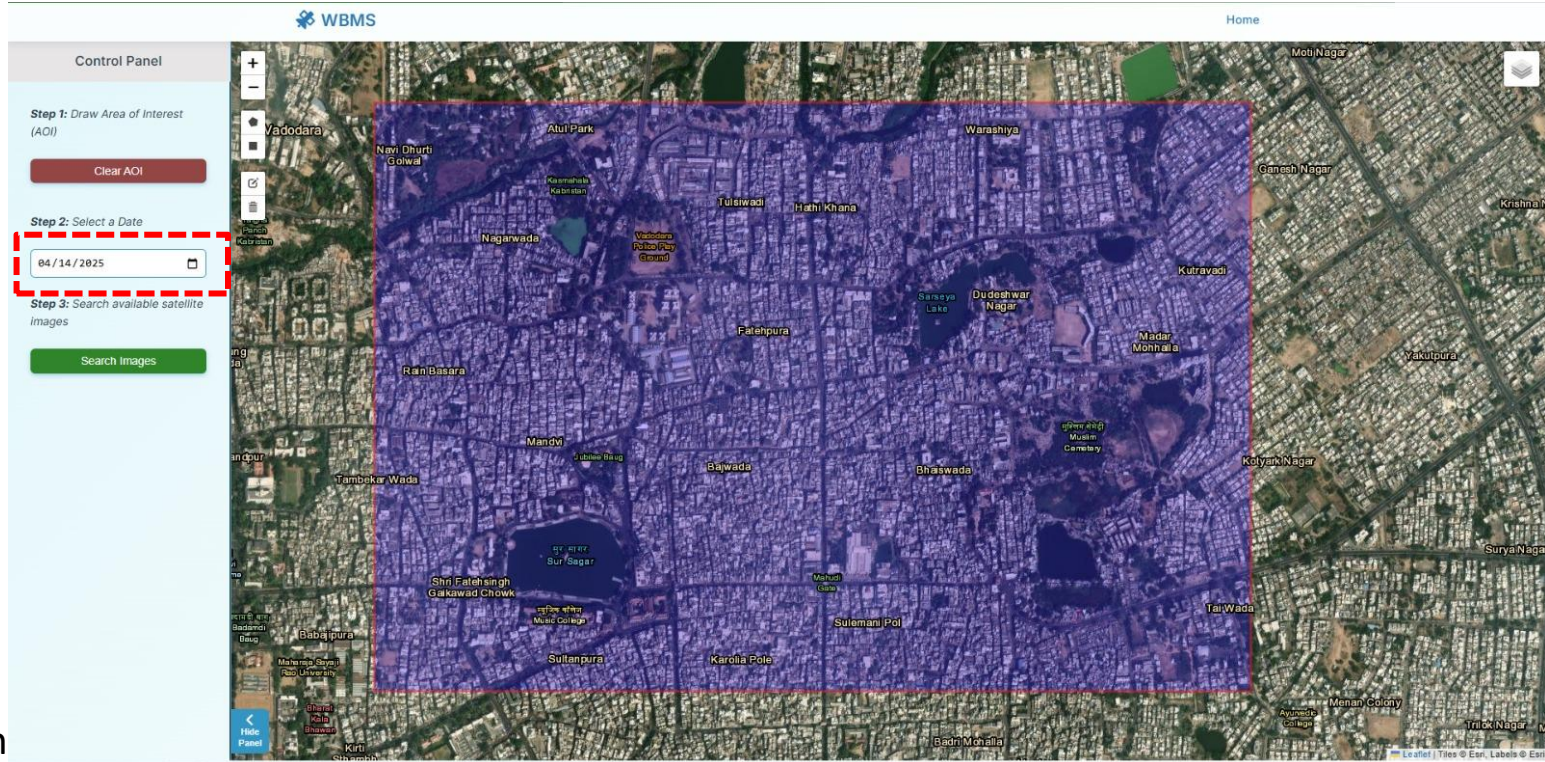
No.	Direct change in the parameters	Interpretation of quality	Suggestive actions
1	Low – pH, DO,	Potential of wastewater discharge	Check for potential sewage flow and take actions to eliminate it
	High – Temperature, BOD, Salinity, TSS, DOC, CDOM, total coliform		
2	Low – pH, DO, Electrical Conductivity (EC)	Potential of industrial discharge	Check and identify nearby industries and take actions to divert their effluent disposal
	High – COD, Temperature, Salinity, TSS, DOC, pH, Arsenic, Lead, Mercury		
3	Low – pH, DO,	Potential of agriculture discharge	Check for agricultural effluent pollution. May need dredging and planting vegetation around the lake.
	High – Turbidity, COD, BOD, Salinity, TDS, TSS, CDOM, Chlorophyll A, nutrients		
4	Low – DO, pH	Could lead to death of fish and aquatic lives	Deploy portable surface or diffused aerators, use pumps to agitate surface water
	High – BOD, Temperature, Turbidity		
5	Low – DO (at night), Secchi Depth (Turbidity)	Potential of algal bloom	Install aeration or oxygenation systems, use mechanical means for removal of algae
	High – Chlorophyll, Phosphorus, Nitrogen, Temp.		



Lake Identification and Water Quality Assessment Tool

Water Quality Assessment Tool

- Zoom to the city or area you want to select
- Select area of interest (AOI)
- Select date you want to see water quality of lakes for that date
- Click on Search



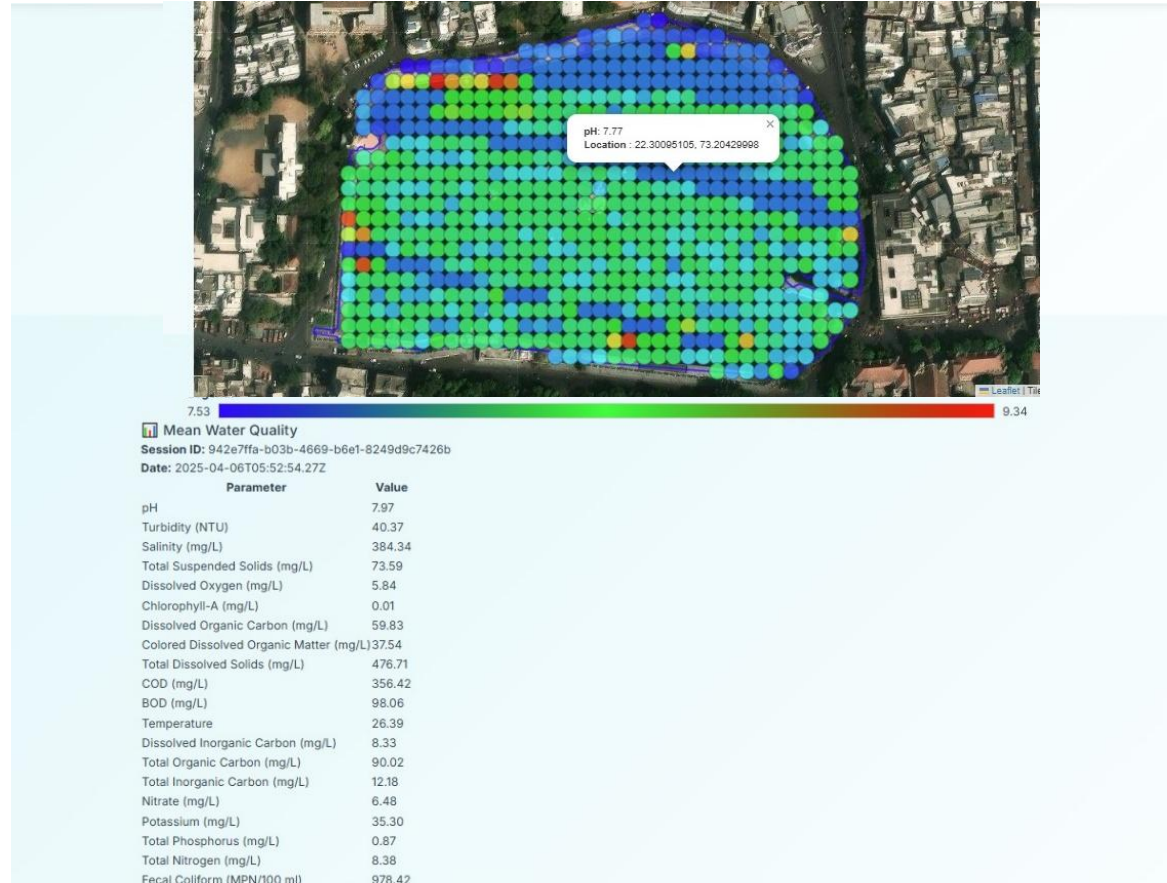
Water Quality Assessment Tool

- This will give total count and area of water bodies in the selected AOI
- Click on any of the waterbody to see water quality of the same

The screenshot displays the 'Water Quality Assessment Tool' interface. On the left, a sidebar titled 'Detected Waterbodies' shows a summary: 'Total waterbodies detected: 10' and 'Total area of waterbodies: 14.67 ha'. Below this, 'Instructions for further analysis' are provided: 'Step 1: Click on the interested waterbody to see the popup.', 'Step 2: Select the analysis type from the popup.', and 'Step 3: Wait for the analysis to complete.' A 'Back' button is at the bottom of the sidebar. The main area is a map view showing a city with several waterbodies highlighted in blue. A red dashed rectangle on the map indicates the selected Area of Interest (AOI). A popup window titled 'Waterbody: Sursagar' is open over one of the waterbodies, offering three analysis options: 'Water Quality Analysis', 'Temporal Analysis', and 'Carbon Sequestration Calculation'. The top right of the interface has a 'Home' link. The bottom right corner of the map shows 'Leaflet | Tiles © Esri'.

Water Quality Assessment Tool

- It will give estimated water quality values for 20 parameters such as BOD, COD, DO, TSS, Turbidity, TDS, Chlorophyll-a etc.
- You can select any point on the image, and it will give estimated result of water quality for that portion of the lake.



Thank you

CWAS CENTER
FOR WATER
AND SANITATION

CRDF CEPT RESEARCH
AND DEVELOPMENT
FOUNDATION

CEPT
UNIVERSITY

cwas@cept.ac.in

cwas.org.in



About us

The Center for Water and Sanitation (CWAS) is a part of CEPT Research and Development Foundation (CRDF) at CEPT University. CWAS undertakes action-research, implementation support, capacity building and advocacy in the field of urban water and sanitation. Acting as a thought catalyst and facilitator, CWAS works closely with all levels of governments - national, state and local to support them in delivering water and sanitation services in an efficient, effective and equitable manner.



cwas.org.in



cwas@cept.ac.in
tiny.cc/paseneews



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