

Service Level Benchmarking MAHARASHTRA

2009 - 16







Contents

- > Overall SLB framework and its link to 13th FC and 14th FC
- > PAS project's journey since 2009
- Various tools and dashboards for Performance Measurement,
 Assessment and Improvement
- > Database assessment and key observations
- > ISIP efforts and linking SLB with e-governance
- > Impact of programs and investments on services

Overall SLB framework and its link to

13th FC and 14th FC

Impetus with 13th FC Performance Grants

- The 13th FC endorsed operationalizing of SLB Process
- It introduced a performance based grant
- Performance grant can be accessed only if the state complies with nine specified conditions
- One of the conditions :
- The State government must gradually put in place standards for delivery of four essential services – as per the MOUD's SLB Handbook

Condition 8 : Standards for service delivery

- State governments must put in place standards for delivery of essential services provided by the local bodies for four services viz., water supply, sewerage, solid waste management and storm water drains on lines of handbook for SLB by MoUD
- State Government *must notify or cause all ULBs to notify* by the end of a fiscal year the service standards and targets
- A notification should be *published in the state gazette* to ensure compliance
- Service Level Benchmarking as one of the nine conditionalities for allocation of performance based grants to ULBs, which amount to approx. Rs.8000 crores over 2010-15.

14th FC grant for Municipality

Details	13 th FC	14 th FC	Collect Charles Field
Total Grant to municipality (Rs in crore)	23,111 (162 Rs per capita)	87,143 (488 Rs per capita)	
Basic grant	15 ,1 1 1	69,715	
Performance grant	8,000	17,428	
No of Conditions for performance grant	9	3	

□ 14th FC has listed conditions for award of performance grant. These are:

- <u>Compilation of accounts and their audit:</u> Common issue that emerged from SFC reports is the need to have reliable data on the finances of local bodies in order to make informed decisions.
- <u>Increase in own revenues</u>: To encourage ULBs to generate own revenues and to improve the quality of basic services they delivery
- <u>Measure and publish Service Level Benchmarks (SLB)</u> relating to basic urban services: Improvements in the quality of basic services are likely to lead to an increase in the willingness of citizens to pay for the services.

State-wise share of Performance grants

Performance grants allocated under the 14th FC is increased by 2.20 times

14th FC Performance Grant allocation in 2016-20



SLB – Start up Phase





- Started in 2006 with a MoUD constituted Core Group
- National level workshop in July 2008 to adopt benchmarks
- Finalization of a Handbook on Service Level Benchmarks
- MoUD supported pilot implementation in 28 cities over 2009-10

Source - Handbook on Service Level Benchmarks, Government of India (2009)

Service Level Benchmarking

Four services covered

- 1. Water supply
- 2. Sewerage
- 3. Storm water drainage
- 4. Solid waste management
- **SLB Handbook** provides detailed guidelines on the definition, calculation methodology, monitoring guidelines, a service goal (to be achieved over a period of time) and data reliability grading scale.
 - This framework comprises of 28 SLB indicators
 - Minimum set of standard performance parameters for the water and sanitation sector that are commonly understood and used by all stakeholders across the country
 - Define common minimum framework for monitoring and reporting on these indicators
 - Set out **guidelines** on how to operationalize this framework in a phased manner



Handbook on Service level benchmarking

Produced by 2010

Ministry of Urban Development

HANDBOOK ON SERVICE LEVEL

BENCHMARKING



Source: Service level benchmarking Data book – Improving Service level outcomes 2008-09, MoUD, GoI

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9 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%





WASTEWATER

9 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%

SOLID WASTE	Indicators for Solid Waste Management services	Benchmark
8 Indicators	Household level coverage of solid waste management services	100%
Indicators	Efficiency of collection of municipal solid waste	100%
	Extent of segregation of municipal solid waste	100%
	Extent of municipal solid waste recovered	80%
OTO -	Extent of scientific disposal of municipal solid waste	r Solid Waste t servicesBenchmarkvel coverage of solid ment services100%collection of municipal100%regation of municipal100%nicipal solid waste80%ntific disposal of id waste100%redressal of customer80%recovery in SWM100%collection of SWM90%
	Efficiency in redressal of customer complains	80%
	Extent of cost recovery in SWM services	100%
	Efficiency in collection of SWM charges	90%

STORM WATER	Indicators for Storm Water Drainage	Benchmark
2	Coverage of storm water drainage network	100%
Indicators	Incidence of water logging / flooding	0

SLB+ Framework developed by PAS



Are SLB indicators for Wastewater captures ground reality?

Water supply	
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%

Solid Waste Management

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 complains	80%
Extent of cost recovery in SWM services	100%
Efficiency in collection of SWM charges	90%

Wastewater	
Coverage of toilets	100%
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Adequacy of sewage treatment capacity	100%
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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 only captures performance of underground sewer network

Storm Water Drainage

Coverage of storm water drainage network	100%
Incidence of water logging / flooding	0



National database for 1800 cities For 18 states for 3 years

www.pas.org.in

Water supply, Waste Water, Solid waste Management & Storm Water



State Profile based on SLB Indicators



Option to view year wise information

City Profile

Home	Performance	Assessment	Performance Improve	ement	Urban Sanitation	Resources	About Us	
Framework	Toolkit	State Profile	Know Your City	Intera	ctive Dashboards			
Overview	City Profile	Compare Your	CIEY					

Search

City Profile of Achalpur



Overview of the city provides general information across all the sectors

City Profile



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

Online data entry for SLB

approval by Administrator.

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Data Entry					
Checklist					_
The SLB-PAS checklist has been develop recommended by the 14th Finance Comm	ed to assess Service Level Benchmark	s for the indicators as	Select Fir FY 2015-	nancial Year 2016	Ť
This checklist is composed of 6 workshee compiled. The 6 worksheets ask for in sewerage), solid waste management, and	ets, with an additional sheet on list of d formation about the water supply, was slum unit's performance data and operat	ocuments/formats to be tewater (sanitation and ting environment. These	Viev	w FY 2015-2016 Checklis	ť
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3. Sewerage and Drainage				Approval Status	
4. Solid Waste Management					
5. Additional Information				SMMUA Monitoring	
6. Reliability					
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particular sheet (e.g. General Information data is stored in the database. Please note), click SUBMIT button given at the top of that once the data is submitted, the data	the page to ensure the can be edited only upon	Select		*

Download FY 2015-2016 Checklist

Online data entry for SLB

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- Previous year's data is 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

Online Target Entry

Home Performance Assessment Performance Improvement Urban Sanitation Resources About Us

Data Entry Cneckiist

Target Setting Financial Patrak

Target Setting for Panvel for FY 2016-2017

The 14th 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.

Water supply: KPIs	2012-2013	2013-2014	2014-2015	2015-2016	Target for 2015-2016	Target for 2016-2017
Coverage of water supply connections(%)	51.4	52.2	90.1	92.7	93.0	95.
Per capita supply of water at consumer end(lpcd)	173.0	170.9	168.6	168.3	160.0	169.
Extent of metering of water connections(%)	5.2	9.0	10.1	17.9	19.0	21.
Extent of non-revenue water(%)	20.2	21.5	21.5	21.5	20.0	20.
Continuity of water supply(hrs per day)	1.5	1.5	1.5	1.5	1.5	1.
Efficiency in redressal of customer complaints(%)	93.5	93.8	97.5	100.0	98.0	100.
Quality of water supplied(%)	99.2	99.0	99.5	100.0	99.5	100.
Cost recovery in water supply services(%)	38.9	40.5	28.8	32.4	70.0	35.
Efficiency in collection of water supply related charges(%)	61.7	61.8	79.0	79.1	85.0	87.
Coverage of water supply connections in slums(%)	0.0	ND	2.5	2.5	10.0	10.
	1	1	1			

Previous and current year of status and previous year target for each indicator can be viewed while entering targets for the next year

			2011 2015	2015 2016	Target for	Target for
Wastewater: KP1s	2012-2013	2013-2014	2014-2015	2015-2016	2015-2016	2016-2017
Coverage of toilets(%)	94.5	91.2	94.4	97.1	95.0	96

Data validation process – *Inbuilt in Online module*

pas performance assessment system	The page at www.pas.org.in says The Number of Properties with access to than previous year.	toilets is lower	You a Sign	re signed in as Nandura ULB. Out
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	Progressive SLB : FY 2	014-2015		
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1. COVERAGE OF TOILETS	Sanitation Coverag	e		
Item		Unit	2013-2014	2014-2015
1.1 Total Number of Properties in the City		Number	10600	10000.0
1.2 Properties with toilets		Number	7794	7600

Validation through inbuilt checks in Online Module

Two types of checks are inbuilt for information verification

- Pop up message to recheck entered values; for example, decrease in water supply connections
- □ User can not submit data if entered unacceptable values; for example, HHs with toilet value is more than total HHs in the ULBs

PAS project's journey in Maharashtra since 2009

Maharashtra State Overview

Shirpur Navapur Satana Dhule Satana Dahanu Jawhar Igatpuri Kalamb Kalamb Shirur Shirpur Pachora Buldhana Buldhana Patur Kannad Bhokardhan Aurangabad Gevrai Kalamb Shirur Kej Ahmednagar	Morshi Katol Aarvi Sindi Yavatmal Pusad Arni Pandharkavda Pusad Kinwat	Bhandara Umred at Brahmap Mool Rajura	sondia
MurudJanjira o o o o o o Udgir	KEY DETAILS	2001	2011
Shrivardnan e o Phaltan Kurduwadi Nilanga	Area (Lakh sq. km)	3.08	3.77
Chiolun Rahimatpur	Population (million)	96.86	112.27
Betweend	% of urban to total state pop	42.43	45.23
	1	6	6
Rajapur		Divisions	Divisions
o Gangapdr	Spread	35	35
	and the second s	Districts	Districts
Tiroda /		248 ULBs	252ULBs

Maharashtra Overview



Coordination with stake-holders



Maharashtra SLB Year-wise journey

PAS	Performance Measurement	Performance Monitoring	Performance Improvement							
Year I	Roll out of PAS									
	Capacity building of ULBs									
	1 Year Data on UWSS									
Year II	DMA's support in data collection	Mainstreaming of PAS at state level (UDD, WSSD, DMA)- Support from GoM								
	Improved support and		PIPs in consultation with GoM							
	understanding of ULBs		Stepped into 'Performance Improvement' with involvement of stakeholders							
Year III	Online Data Collection	SLB GR CMU/SLB CELL	PIPs CSPs with GoM							
	4 years online data repository of 252 ULBs	Institutionalization of PAS at State Level	Making available options for ODF cities, 24 x 7 ws and waste water disposal in pop							
	Improved Interest of ULBs	Dissemination of Results and GPs	sewered cities							

Maharashtra SLB Year-wise journey

PAS	Perfo Meas	rmance urement	Pe M	rforr Ionit	nanc oring	ce g	Performance Improvement						
Year IV	On Ground Data Validation Application m Independent	Handholding of some ULBs for online data entry of PAS tools and odels	SLB Cells at ULB levelMayors to look at the PAS resultsULB level SLB training supportInstitutionalization of PAS at ULB level					Towards making cities ODFInformation System ImprovementImplementation support to cities					
Year V	ULBs fill da thei ULBs to use m Independer	ULBs fill data online from their officesStrengt hening of SLB Cells at ULB LevelFormation of SLB Cells at ULB LevelCity Bench- marki ngIndependency of All ULBsSLB Cell to conduct further rounds of data collection						City L Improv Cities to i as	evel veme impl	Sanitation ent Support ement actions gested			
Year VI	ULBs fill da thei	ata online from r offices	Progressive SLB with DMA Initiatives and interests by DMA and UDD					Cities preparing plans based on PAS framework					

PAS Performance Measurement over last 6 years



Support to the Government of Maharashtra for SLB Gazette

Data entered by ULBs are checked at various levels: <u>Through Desk review</u>

- □ Validation checks in online PAS-SLB module. eg. Water consumed can not be more than water produced/ supplied
- □ Validation model is prepared to check and review extreme values
- Trend analysis model is developed to review changes in indicators over a time frame
- **•** Review dependent indicators and information
- 2. <u>Field validation</u> for selected cities to cross check with physical data records and through site visits

Performance Monitoring

Direct monitoring through GoM (DMA/ UDD)

Associations, Consultations, Forums

Integration of PAS- MAINet (ULBs online info systems)





Meetings and Workshops with UDD



Changes Observed

	Factors to measure	Before PAS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Methods to calculate service levels/ Checklist							
<u>_</u>	In depth analysis of UWSS situation as per SLs							
	Organised data on UWSS at state level							
5	Data availability as per required formats and improved quality of data							
00	Methods to set targets							
	Models to evaluate exact situation and possibilities to improve them							
	Involvement of city leaders							
	Calls from ULBs for queries							
2	Calls to ULBs for follow up							
	Days to cover all ULBs							
	Communication through emails							
	Recognition to PAS							

PAS Support State Level & City Level

Sanitation Activities under PAS Project



performance

assessment

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Support to GoM for Swachh Maharashtra Mission for Urban Areas

CEPT University signed MoU with Government of Maharashtra for providing support through the PAS project for implementing Swachh Maharashtra Mission for Urban areas.



CMO Maharashtra @CMOMaharashtra Od 2 Some MoU's were signed for this cleanliness drive with CEPT university, Ahmedabad, All India Local Self Govt and Aquacraft. #SwachhBharat

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Key areas for CEPT support



Development of various policy guidelines



Review and monitoring of progress of SMMUA



Building capacity of local governments and technical support to cities for becoming ODF+

Technical Support to Wai and Sinnar

Sinnar Located in the Nashik district, with a population of ~65,000 that has more than doubled in size since 2001 mainly due to expansion of city boundaries and an industrial and manufacturing boom in nearby Nashik.



Preparation of CSP Assessment of Sanitation situation

Continuous

stakeholder

engagement

in cities across

various sectors

Key

activities

Development of sanitation options



Institutional Capacity assessment

Open Defecation Free cities support



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Exploring financing options for providing loans to HHs for toilets

Sanitation Financing





Various tools and dashboards for

Performance Measurement, Assessment and Improvement

State and city level interactive dashboard

Access and Coverage Service levels and Quality Financial Sustainability.



State Profile 1 State Profile 2 City Profile

level (°o)

ievel (%)

100-60 % 0 50 0 10 80-80 % 80 - 75 % 76 % 60-60.% 60-40. 21 % 18 % 40-18 % 20-16 % 0-20~ 50 100 50 100 100 50 100 0 50 0 0 0 ñ WS connections at HH WS connections at HH. WS connections at HH WS connections at HH

level (%)

level (%)

2010

2011

2012

2013

Interactive data visualization that provides valuable insight

Allows drilling down from indicators, charts and maps to read data better

Allows combination of multiple data sources to keep track of performance

Indicates points of action or decision required

City

Inter active Dashboard of Maharashtra





Sanitation planning tools: SaniPlan

Conventional approach

• 'PROJECT' based approach



SUPPLY DRIVEN

• Starting point is an assessment of funding resources available

Focus on developing INDIVIDUAL PROJECTS of various sectors

Conventional 'PROJECT' based approach



Moving away from Infrastructure Investment Plans

PAS approach

'SERVICE' based approach

NEED DRIVEN

• Starting point is measurement of current performance and local priorities



 Focus on developing integrated SECTORAL SOLUTIONS

> SaniPlan 'SERVICE' based approach



Towards Service Improvement Plans

12

Sanitation planning tools : SaniPlan



Key Features: SLIP-SaniPlan

Sanitation Assessment tools: SaniTab



- CEPT has developed a generic Mobile Application - **"SaniTab"**
- To create database for Onsite sanitation system
- SaniTab can be used by any ULBs

Citywide digital data collection tool



Real time" monitoring of survey activity, minimizing human error

Providing enabling environment for spatial analysis





Sanitation planning tools: IFSM toolkit

Five Modules of Assessment . . .



- Toolkit was developed for citywide assessment of various key areas that need to be studied for developing IFSM plan.
- collaborated CFPT also with Asian Institute of Technology (AIT), Bangkok for development of their FSM toolbox

Some of CEPT sanitation tools namely SaniPlan, IFSM toolkit, SaniTab and Private Sector Participation (PSP) tools are included in this FSM toolbox.

Key observations

UWSS Maharashtra Data Assessment

Water Supply in Maharashtra (2015-16)



Water Supply in Maharashtra (2015-16)



Waste Water Management (2015-16)



Solid Waste Management (2015-16)



landfill sites in their cities

Process of developing SAN Benchmarks: Citywide

assessment of sanitation service delivery Including on-site sanitation



Dissemination of SAN Benchmarks: NIUA capacity building platform can be used to add SAN Benchmarks in current service level benchmarks indicators of Government of India.

SAN Benchmarks: State Level Sanitation Assessment

Sanitation assessment using existing and revised indicators - urban Maharashtra (2015-16)



 Maharashtra has 259 urban local bodies (ULBs) of various sizes ranging from 3000 to 3.5 million population (excluding greater Mumbai)

 Only 35 ULBs has partial underground sewer network and 23 ULBs has sewerage treatment plant

Revised indicators show better performance for coverage of adequate sanitation system, collection efficiency, adequacy of treatment capacity and quality of treatment
 None of the city reuses treated septage

Maharashtra Data Reliability Analysis

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Navi Mumbai	ıprı Chınchwad	Thane	Ahmednagar	Nanded	Kolhapur	MiraBhavandar	Ialoann		alyanDombivii	Pune	Solapur	Sangli	Bhiwandi		Amravatı	Chandrapur	Malegaon	Ulhasnagar		AKUId	Latur	Dhule	Parbhani	Vasai Virar	
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ISIP efforts

and linking SLB with e-governance

Data Formats – Water Supply



Example - Per Capita Water Supply



LPCD = Quantum of treated water supply/ Population

Impact of programs and investments on services

Linking PAS to ongoing programmes

Urban infrastructure Development Scheme for Small & Medium Towns (UIDSSMT)

• Aims at improvement in urban infrastructure in towns and cities in a planned manner.

Maharashtra Suvarna Jayanti Nagarotthan Maha-Abhiyan (MSNM)

• Aims to provide various urban infrastructure in the urban areas of the State as per the standards prescribed by the Government, develop infrastructure facilities related to education and health as per the class of the city and enhance the social infrastructure along with aesthetic features of the cities.

Maharashtra Sujal Nirmal Abhiyan (MSNA)

• The MSNA is a reforms-led programme. It places thrust on a series of reform measures spread over 3 phases, and has the ultimate objective of achieving 24x7 water supply alongside a sustainable institutional arrangement that will optimize water management.

Jawaharlal Nehru National Urban Renewal Mission (JNNURM)

• JnNURM aims at creating 'economically productive, efficient, equitable and responsive Cities' by a strategy of upgrading the social and economic infrastructure in cities, provision of Basic Services to Urban Poor (BSUP) and wide-ranging urban sector reforms to strengthen municipal governance in accordance with the 74th Constitutional Amendment Act, 1992.



Linking PAS to new programmes

Government of India (GoI) has launched various programs for water supply and sanitation service improvements:

- Swachh Bharat Mission Thrust on elimination of open defecation and cleanliness
- AMRUT To achieve benchmark of universal coverage of water supply and sanitation
- Smart cities Promote cities that provide core infrastructure and give a decent quality of life to its citizens

Monitoring outcome of these programs require assessment of service levels.

Funding is linked to service level improvement Online performance assessment tool developed by PAS helps in monitoring service level improvement



Mission Statement & Guidelines

Thank You