

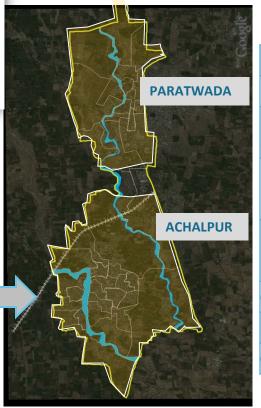
FIELD ASSESSMENT FOR PERFORMANCE IMPROVEMENT PLAN



City Profile



Achalpur is a Municipal Council in Amravati District in Maharashtra. It has a twin city known as **Paratwada**.



Achalpur	Municipal	Council
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Population	442202
Population	112293
Number of Households	22742
Number of Slums	
(Notified)	27
Number of Slums (Non	_
Notified)	5
Number of Slum	
Households	12548
City Area	16 sq km
No of wards	38
Gross density (per Ha)	70



Water Supply

Source of water	Ground water		
Total volume of water produced in 2011	13.75 MLD		
No of Tube/Bore wells	13 no. 9 in Achalpur 4 in Paratwada		
No of ESRs and their capacity	4 no. 2 in Achalpur ESR1-1.7MLD ESR2-1.9MLD 2 in Paratwada ESR1-1.1 ESR2-1.2		
Hrs of Supply	3 hrs per day		
No of days of WS in a month	30 days		
Total no of WS connections	11126		
No of Connections in slums	2777		
No of Public stand posts & hand pumps	150 PSP 90 Hand pumps		

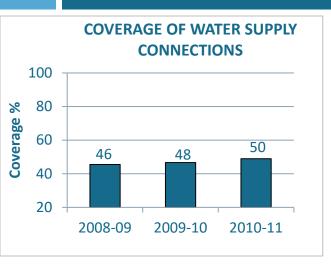


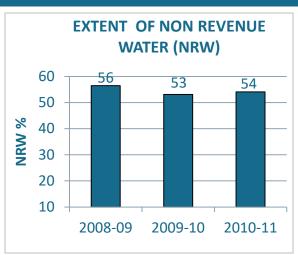


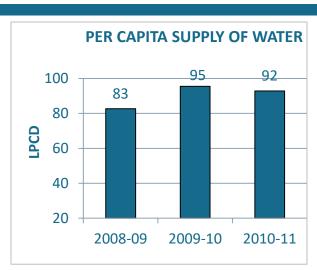


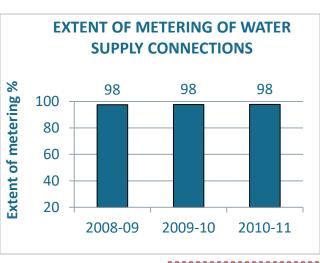


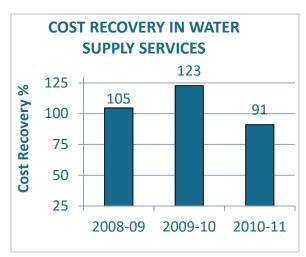
Review Of WS KPIs

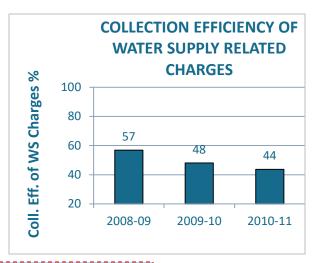










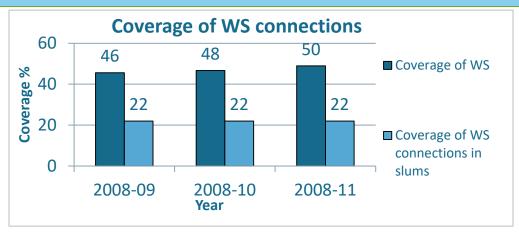


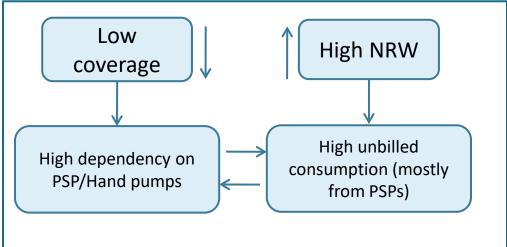
- Low coverage of WS connections.
- High Extent of Non revenue water.
- Decreasing collection efficiency

slums with coverage less than 10% slums with coverage 10 40% slums with coverage 40-50% slums with no slums with coverage 50-60% coverage slums with coverage more than 60%

Diagnostic-Water Supply

Coverage of WS connections





- •All slum settlements do not have WS network.
- •No special policies for WS connections in slums

Diagnostic-Water Supply

Coverage of WS connections

Total time

get a

required to

connection

is **20-25**

working

days

WS connection Process in Achalpur

Application for NOC from ULB

- Ownership/PTR/Address records of the applicant are verified to check for duplication.
- NOC is granted by CO.
- Time required to get NOC from all the department : 7-10 days

Application for WS connection submitted to WS department

- Application for WS connection is submitted to Jr. Engineer WS dept.
- Documents required NOC, Photograph of the applicant and copy of PTR.

Site verification

- Site verification and plumbing layout for the site is prepared by the certified plumber.
- Time taken for site verification by plumber 8-10 days.
- Plumber issues verification certificate and report to the applicant.

Payment of deposit/Application for purchase new Meter and ferrule

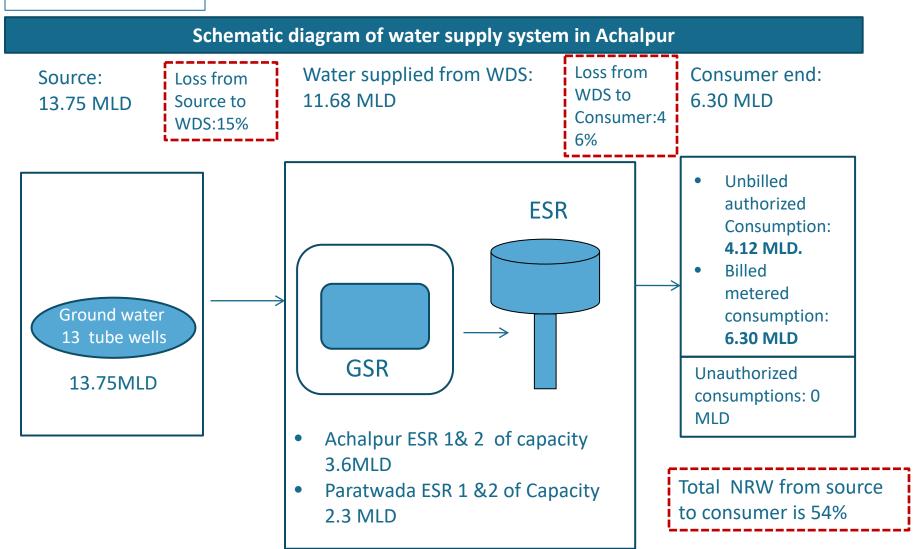
- Payment of Deposit and road cutting charge.
- Testing of meters purchased by the WS engineer/Staff based on the conditions prescribed on the application form.
- Time taken: 4-5days

Installation of Ferrule and meter by the plumber

- Connection process is lengthy.
- Requirement of property tax register record.

Diagnostic-Water Supply

NRW Estimation



Diagnostic-Water Supply

Collection efficiency

Schematic flowchart for Billing and collection process for Domestic connection in Achalpur

Entry in meter register and submission to Billing dept.

Total time taken for the process :45 days

Meter reading

Printing & dispatch of bills by Billing Dept.

Payment of Bills at ULB office

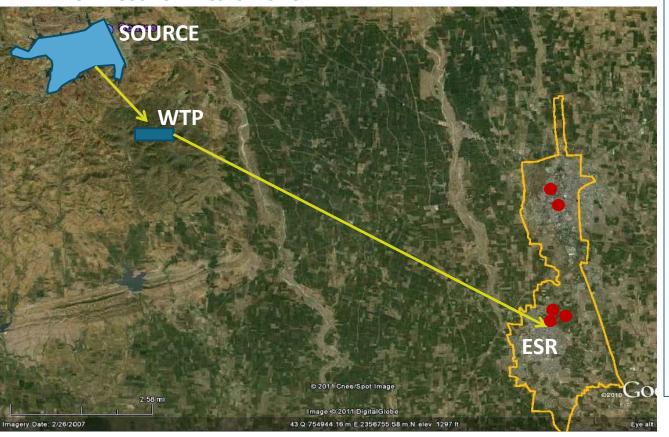
- Time taken by Meter readers to Take readings:30-35 days.
- Only 3 meter readers.
- Time taken for printing and dispatch of bills: 10 days
- Time given for payment to the customers: 7days after the receipt of bill.
- No other options of repayment are available.

- Billing process is lengthy.
- Time given for payment is less.
- There are only 3 meter readers. (Less manpower)
- No other possible options for payment.

Water Supply- Proposed Projects

PROJECT DETAILS:

- •WS SCHEME FROM CHANDRABHAGA DAM TO WTP.
- •WTP
- •REPLACEMENT OF OLD NETWORK AND LAYING OF NEW NETWORK IN UNSEARVED AREAS.
- •TOTAL VOL OF WATER RESERVED IS 26.5 MLD.
- •TOTAL COST OF PROJECT- 37 Cr



IMPACT OF PROPOSED PROJECT:

- 1. SOURCE OF WATER WOULD BE SURFACE WATER.
- 2. LPCD WOULD INCREASE TO

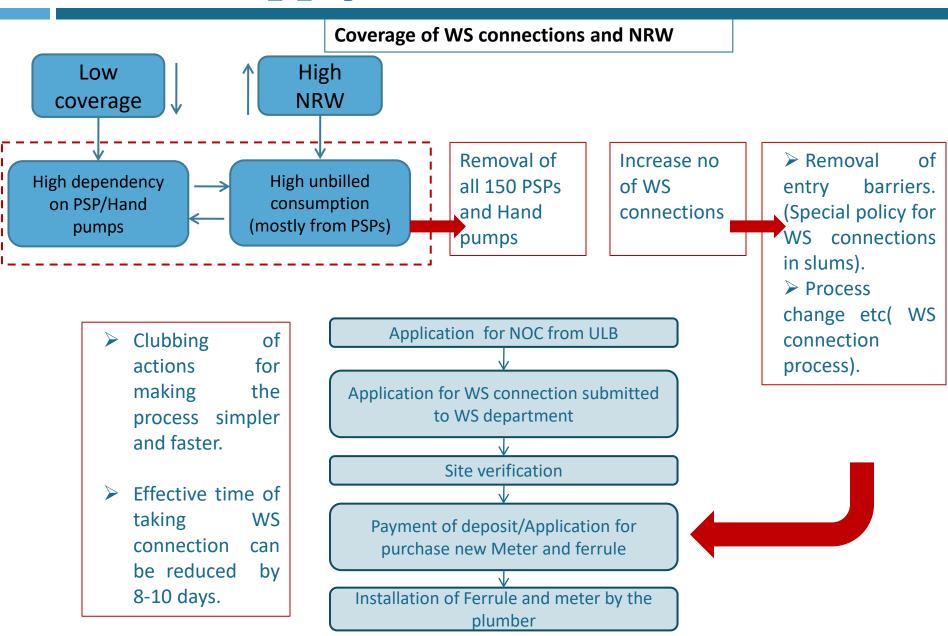
 135 FROM CURRENT RATE

 OF 122.
- 3. COVERAGE OF NETWORK
 WOULD INCREASE TO
 100%.

Water Supply-Action Plans

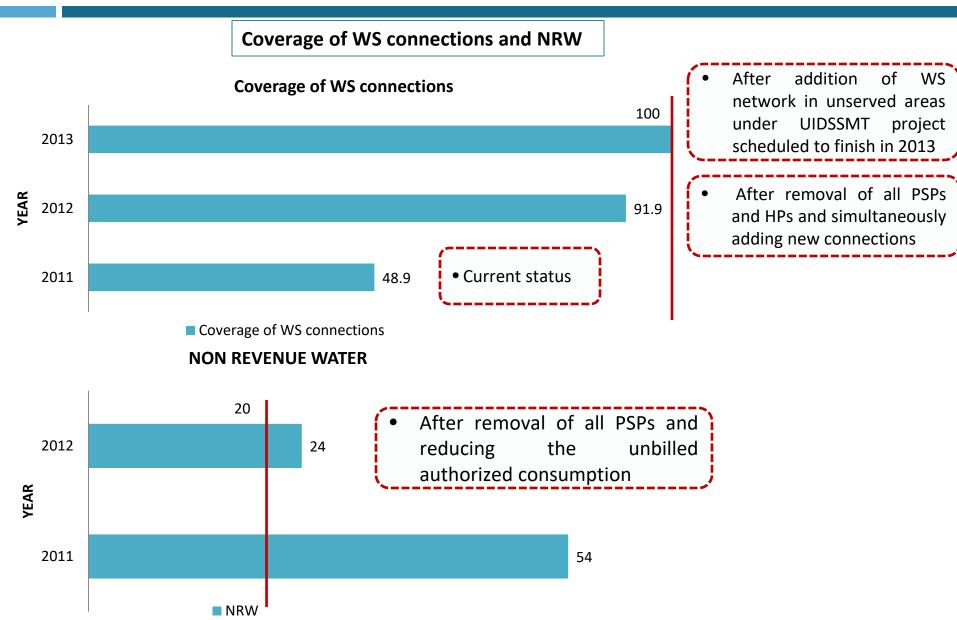
ISSUE / REQUIREMENT **POSSIBLE ACTIONS COST** Removal of PSPs and HPs Low coverage of WS connections in ➤ Increasing No of new connections slums due to higher dependence on Low/ No Cost PSPs and Hand pumps. > Removal of entry barriers ➤ Process changes High Non Revenue Water due to High volumes of Unbilled ➤ Removal of all PSPs **Low Cost** authorized supply from PSPs. Low collection efficiency of WS related charges due to ➤ Increasing staff **Low Cost** ➤ Less staff ➤ No other repayment options

Water Supply-Action Plans

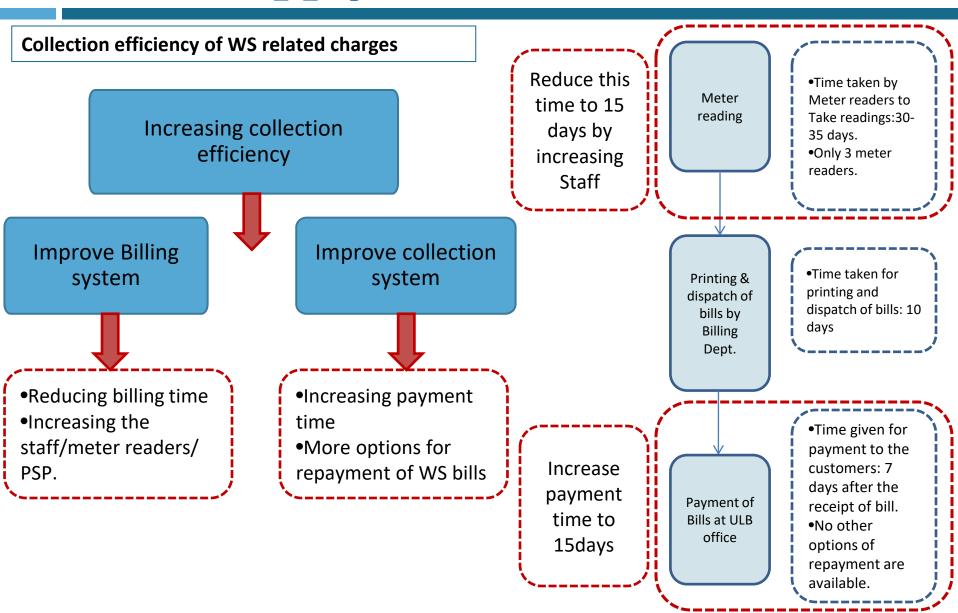


ACHALPUR MUNICIPAL COUNCIL: PIP STRATEGIES

Impact of Proposed Actions



Water Supply-Action Plans

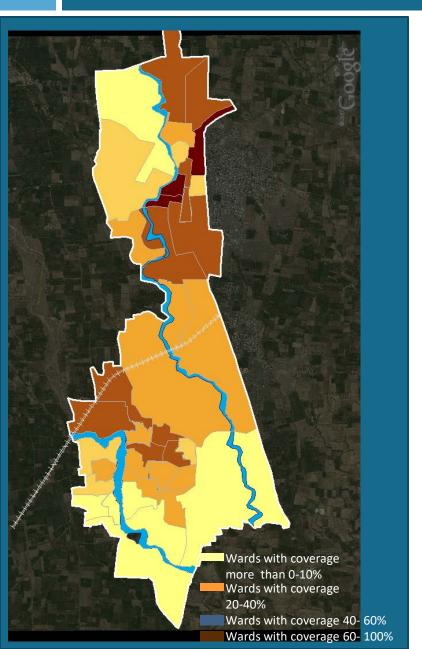


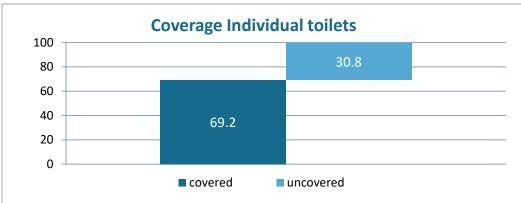
Step Towards 24*7 WS

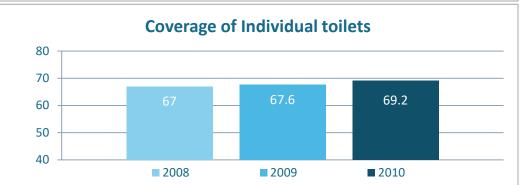
Activities required to achieve 24*7 WS

- Increasing Coverage of WS connections to 100%.
- Removal of PSPs and Hand Pumps.
- Careful selection of demo zone.
- Identification of private contractor.
- Careful drafting of performance contract
 - Single responsibility for diagnosis, design, implementation, and O&M.
 - Demanding realistic targets and timeframes.
- Detailed HH and socio economic survey for that zone.
- Ring fenced budget for the pilot zone.
- Hydraulic modeling, replacement of old and deteriorated network, augmentation of storage capacity if needed.

Sanitation-Toilets







The coverage of individual toilets is 70% whereas the coverage of toilets including access to functional community toilets is 77%.

Indicating 23% of people defecating in open

Sanitation-Open Drains



ACHALPUR MUNICIPAL COUNCIL: PIP STRATEGIES

NOTIFIED SLUMS NON NOTIFIED SLUMS

Sanitation-Slums

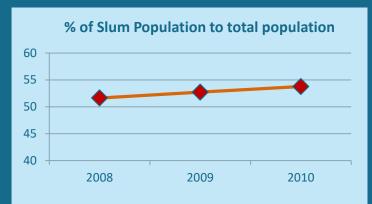






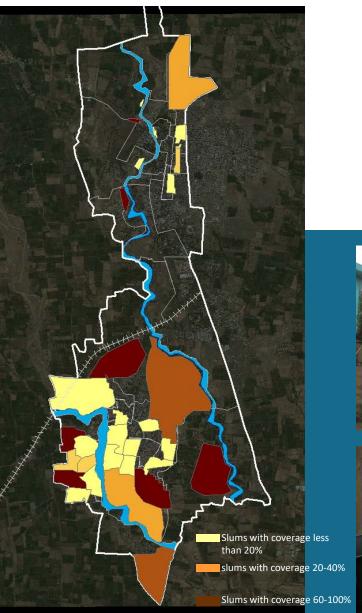


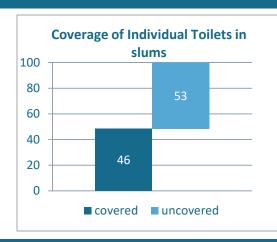


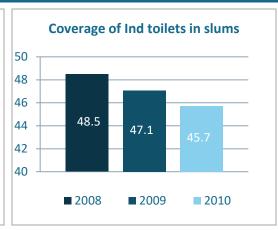


ACHALPUR MUNICIPAL COUNCIL: PIP STRATEGIES

Individual Toilets-Slums











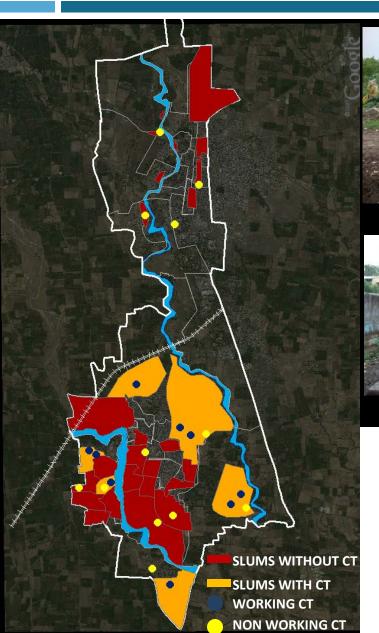








ACHALPUR MUNICIPAL COUNCIL: PIP STRATEGIES







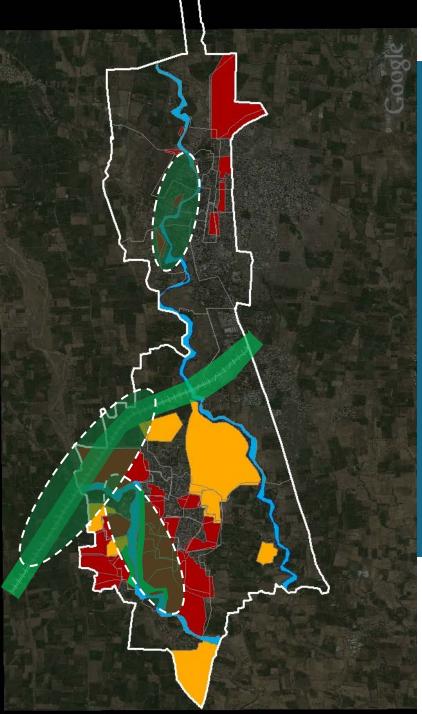








No of Community Toilets	21
Working condition	9
Total no of seats	310
Total no of functional seats	125



Sanitation- O D Sites



The OD sites are mainly along the railway track and nallas

Sanitation – Action Plans

ISSUE / REQUIREMENT	POSSIBLE ACTIONS	COST
Increase HH level coverage of Individual toilets	> Build more Individual toilets	High Cost
Increase HH level coverage of toilets in slums	➤ Refurbish existing community toilets ➤ Build new community toilets	Low Cost High Cost
Maintenance of Community Toilets	➤ Regular Cleaning of CT	Low Cost
Maintenance of open drains	➤ Monitoring Regular cleaning of drains	Low Cost

Sanitation – Action Plans

OPTION 1 – INDIVIDUAL TOILETS

	CURRENT STATUS	REQUIRED	EXISTING PROPOSAL	COST	COST	IMPACT
NON SLUMS	89% coverage in	1125 individual toilets		2.0 Cr	1.4 Cr	Individual Toilet Coverage increase to 100%
	50% coverage	6097 individual toilets	- IHSPD (965 HH)	11.5 Cr	7.7 Cr	Toilet coverage increase to 100%

Considering shared septic tanks

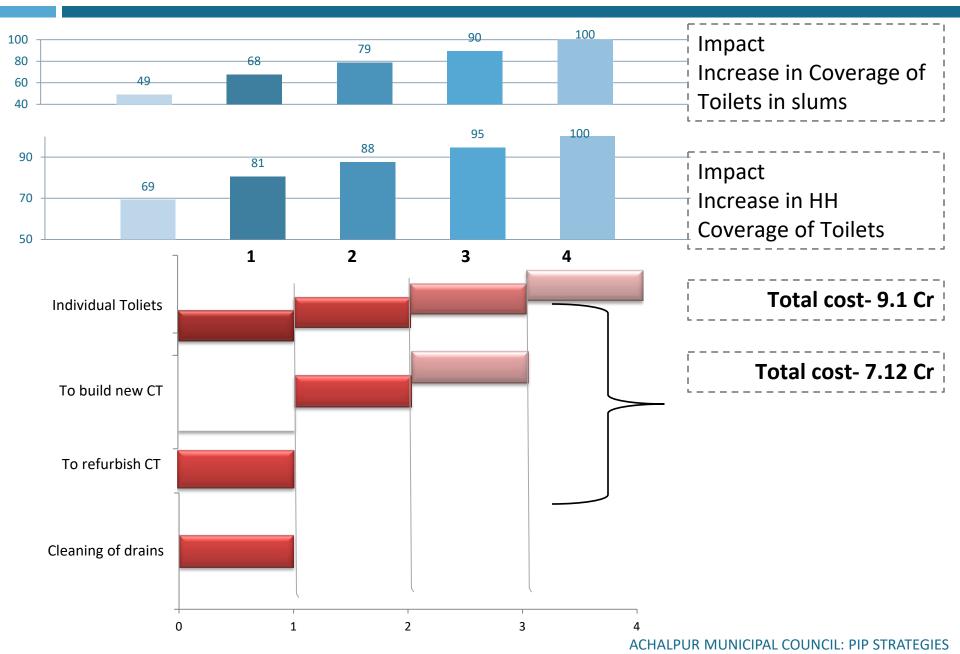
Total cost- 9.1 Cr

OPTION 2 – COMMUNITY TOILETS

	CURRENT STATUS	REQUIRED	EXISTING PROPOSAL	COST	IMPACT
SLUMS	46% coverage in slums	12 CT to be refurbished		0.02 Cr	Toilet Coverage (SLUMS) increase
SLUMS	46% coverage in slums	New CT to be built	_	7.1 Cr	Toilet Coverage (SLUMS) increase

Total cost- 7.1 Cr

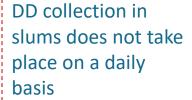
Sanitation – Phasing of Actions



Solid Waste Management

COLLECTION

Only 90 % of waste is collected out of 27 MT generated



No segregation



TRANSPORTATION

The waste is transported with tipper trucks and 3 wheeler auto tippers



TREATMENT

Currently no treatment of any kind takes place



DISPOSAL

Waste is disposed in open dumps

Waste collected does not undergo any treatment.



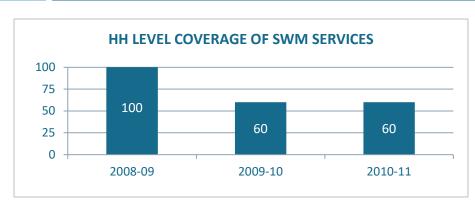


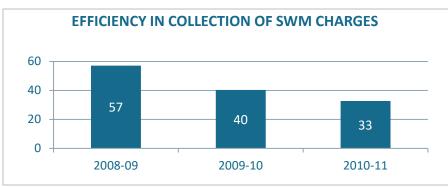


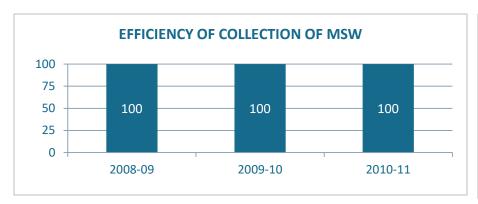




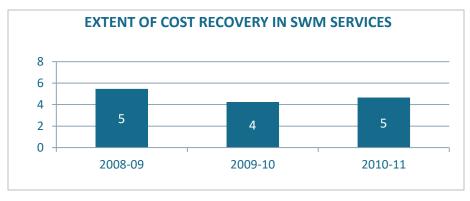
Solid Waste Management KPIs











SWM -Action Plans

ISSUE / REQUIREMENT **POSSIBLE ACTIONS COST** No Regular DD collection in **Low Cost** ➤ Monitor daily DD collection in slums slums **Medium Cost** No segregation > Segregation at source Waste currently does not ➤ Processing of biodegradable undergo any treatment **Medium Cost** waste



Thank You

