

FIELD ASSESSMENT FOR PERFORMANCE IMPROVEMENT PLAN



GONDIA MUNICIPAL COUNCIL

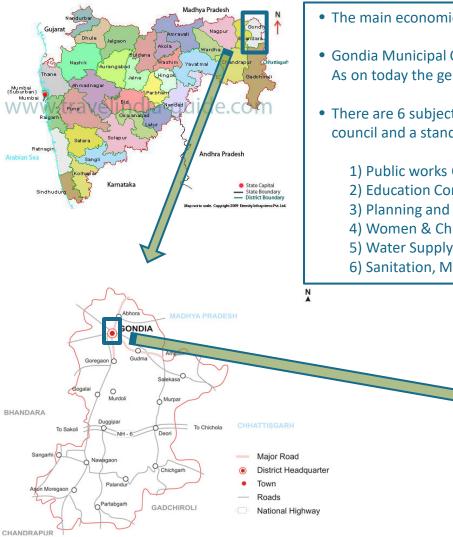
Structure of Presentation

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 - Issues
 - Action Areas for Water supply
 - Prioritization of Action Areas
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 - Prioritization of Action Areas

SWM

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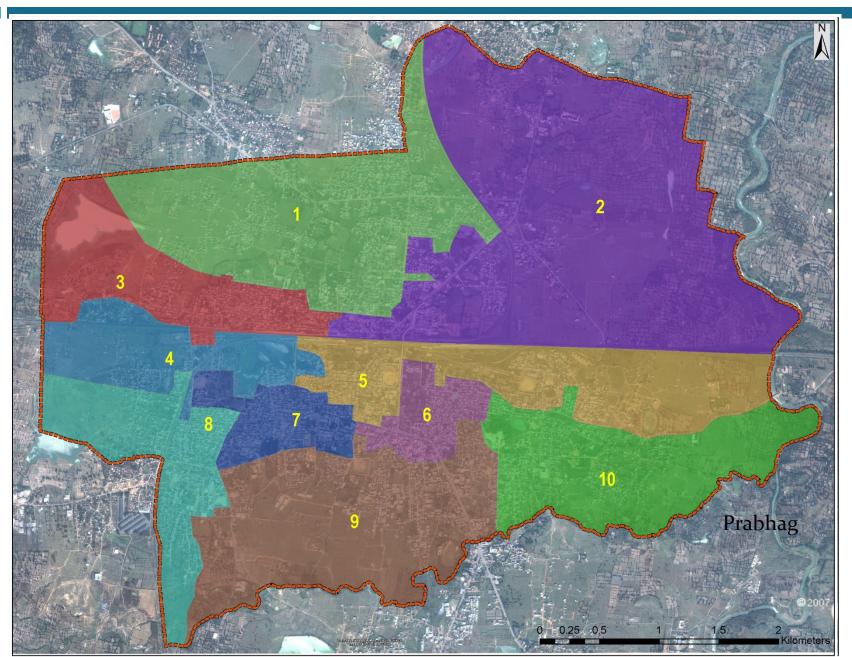
City Profile



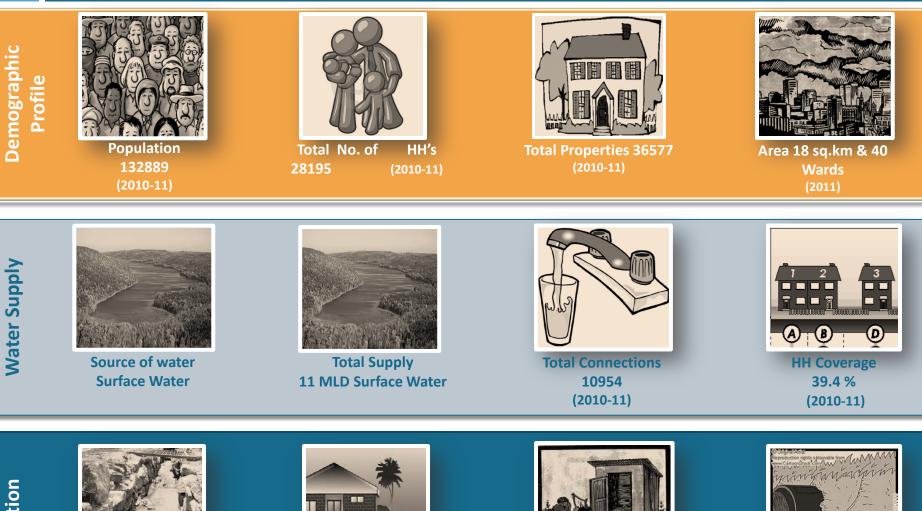


- The main economic base of the city is Rice mills, Bidi manufacturing, Sawmills
- Gondia Municipal Council is 'A' class Municipal Council. It was established in the year 1919. As on today the general body of the M.C. consists of 44 councilors
- There are 6 subject committees as detailed below to look after day-to-day working of the council and a standing committee to co-ordinate the working of subject committees.
 - 1) Public works Committee
 - 2) Education Committee
 - 3) Planning and Development Committee
 - 4) Women & Children Welfare Committee
 - 5) Water Supply & Drainage Committee
 - 6) Sanitation, Medical & Public Health Committee

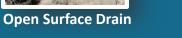
City Profile



City Profile



Sanitation





Disposal of Night Soil-Septic tank



27720 Properties have access to Toilets



Coverage of Toilets 75.8%

Slum Profile



Total No. of Slums 58 nos (2010-11)

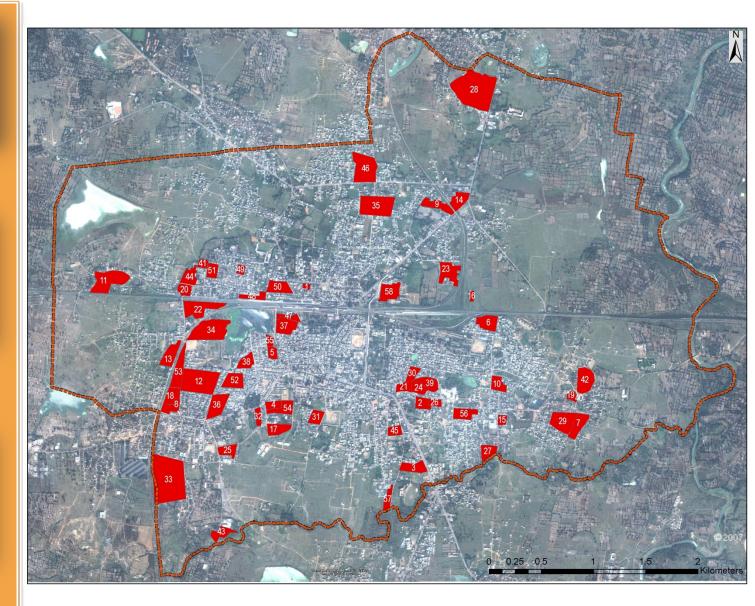


Profile

Slum Population 45137 (2010-11)



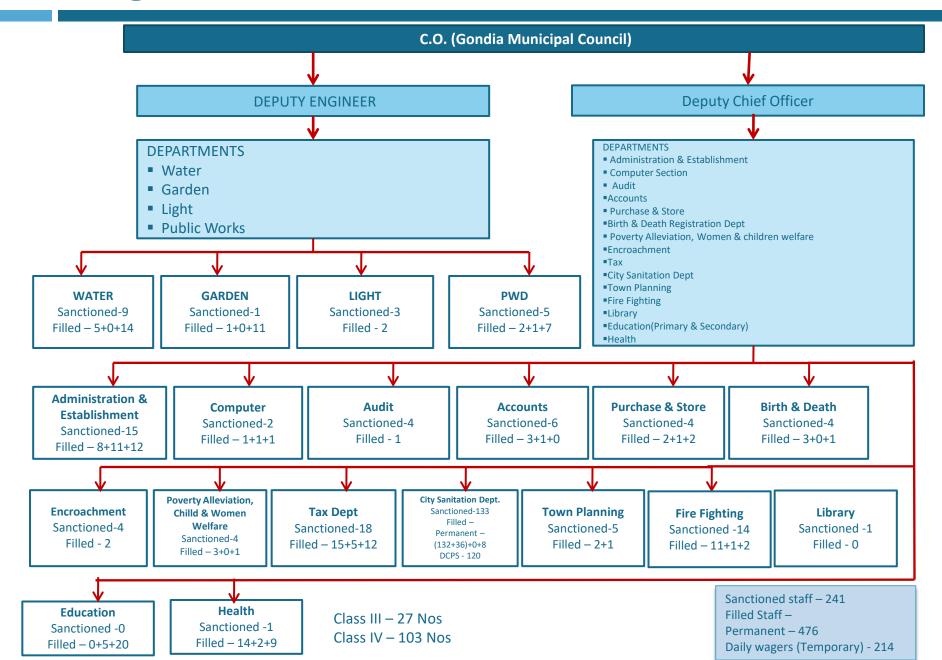
No. of Slum Households 8100 (2010-11)



Situation in Slums

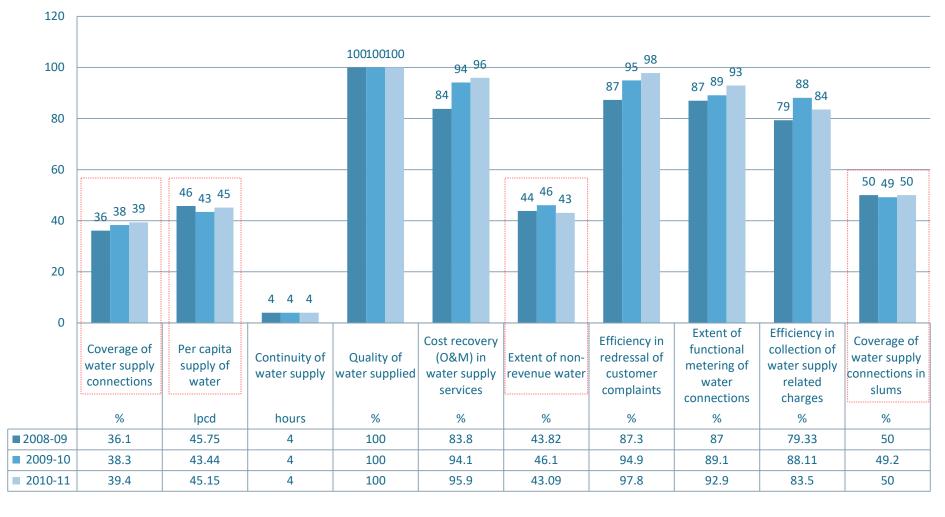


Organization Chart

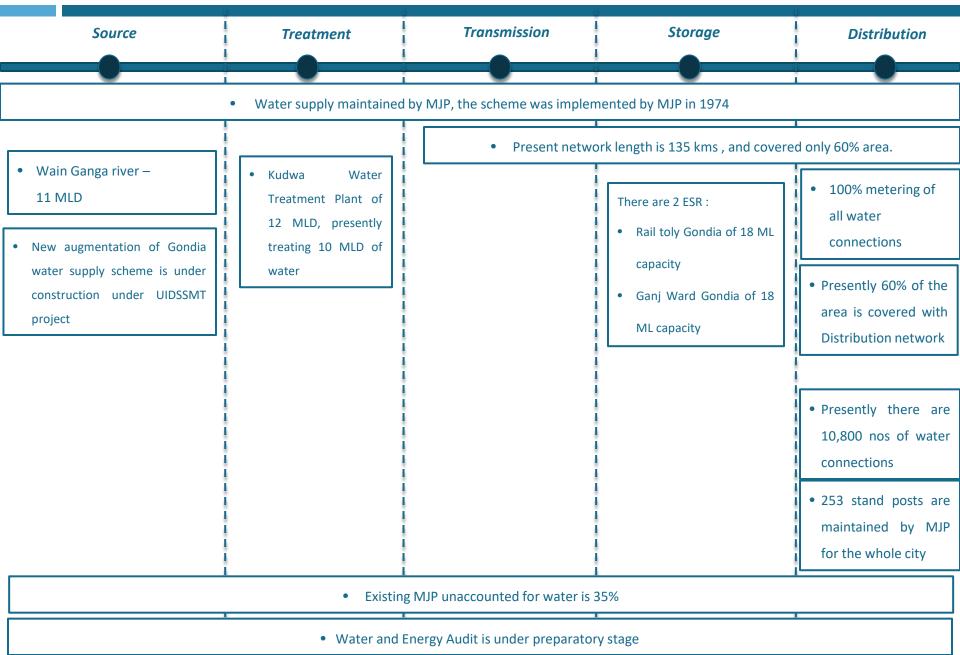


Water Supply -KPIs

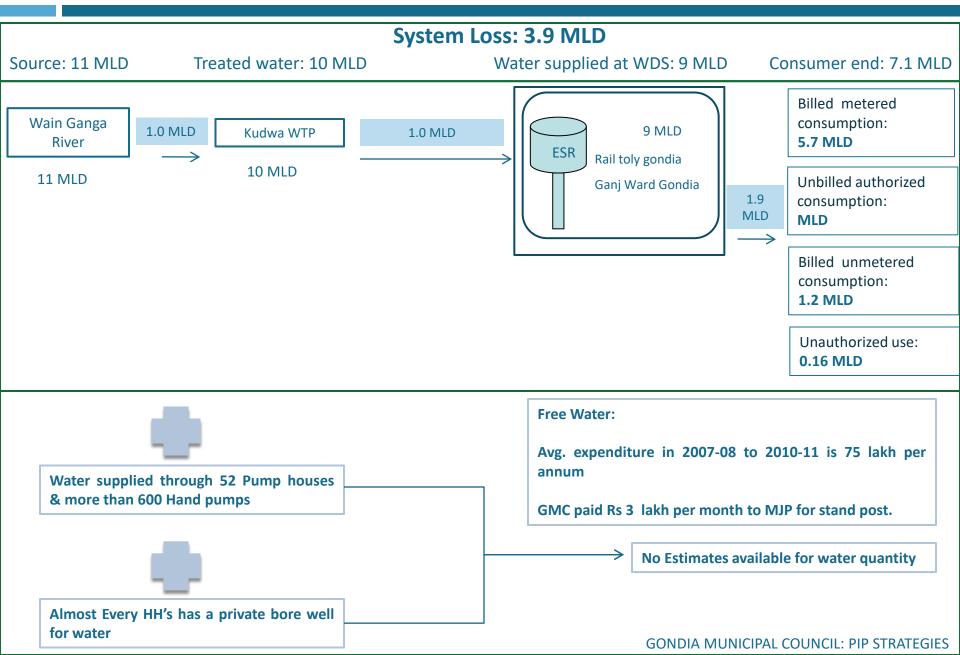




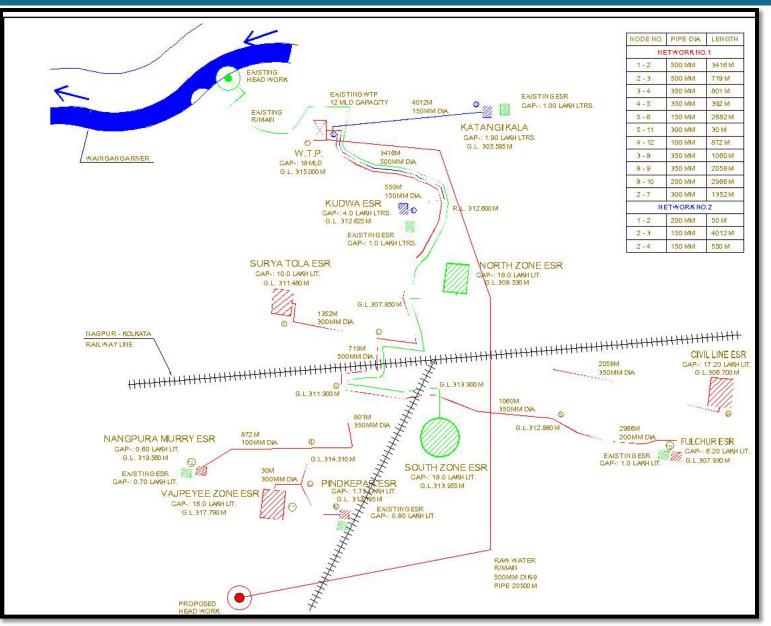
Existing Water Supply System - MJP



Water Supply- Schematic Diagram



Water Supply Key Plan



Water Supply Scheme under UISSMT

• The total cost of this water supply scheme is Rs. 6138.27 lakhs.

Share	Sanctioned Amount (Rs. In lakhs)	Actual Utilization as Dec 2010 (Rs. In lakhs)	% funds Utilized	
UIDSSMT fund utilized	6138.27	16.39	59.34%	

• The indicators that will impact through these project are:

-	Coverage of water supply connections in slum households	Per Capita supply of water	Continuity of water supply	Extent of non revenue water	Extent of functional metering of water connections	Quality of water supplied	Efficiency in redressal of customer complaints	Efficiency in collection of water supply related charges	in water

Water supply Scheme under UISSMT

The total cost of this water supply scheme is Rs. 6138.27 lakhs

The Project components are:

Sr.No	Components
1	Raw water pumping machinery 3 sets 240 BHP water lubricated VT pumps
2	Mortar lining to existing rising main 450 mm dia
3	Raw water rising 500 mm dia DI K-9 16250 mt long
4	Water treatment plant of 18.0 MLD capacity
5	Pure water pumping machinery 3 sets, 75 BHP from WTP to MBR
6	Pure water rising main 300 to 450 mm dia. DI- K9
7	MBR capacity 740000 litres 25 m staging height
8	Pure water gravity mains 700mm to 300mm dia DI- K7 pipe length 9829m
9	Pure water pumping machinery 2 sets, 50 BHP for online boosting arrangement to vajpayee ward ESR
10	RCC ESR's Civil lines cap 21.35 lakhs St. Ht. 21 mt
11	RCC ESR's Vajpayee cap 19.50 lakhs St. Ht. 16 mt
12	RCC ESR's Suryatola cap 12.90 lakhs St. Ht. 18 mt
13	Distribution system 150 mm to 450 mm dia DI K-7 . Length 260.1 Km
14	Miscellenous work – SCADA SYSTEM for 24 x 7 & Repairs to existing structures
15	Land acquisition
16	Charges payable to MSEDC for power connection

Situation of Water Supply

No. of open wells : 60

सा आमादार श्रीतसिंद भी गेंस विषण्य विषयुसारस्य कोर्व विकारस् विषयि अनर्भत एक विराधा विद्यार् अग्राय प्राणीय विज्ञा विज्ञान्

No. of Hand pumps: 610

No. of MJP Stand posts : 90

Situation of Water Supply



Issues in Water Supply

<u>Coverage of water supply connections is only 36 %</u>

- > Total Number of HH's in the city is 31382 nos
- > Total Number of Connections provided by MJP in city are 10,800 nos

What we found in the city:



- In all 14,000 connections were given by MJP, but as on present only 10,800 connections are there. Because MJP disconnected the rest of the connections as they weren't paying the due amounts otherwise the coverage could have been 47%
- Other than the MJP water supply, Gondia Municipality is also supplying water through 52 pump houses to the consumers and there are more than 600 hand pumps managed by Gondia Municipality
- Other than the MJP supply of water and the water provided by Gondia municipality, almost every house in the ULB area has a private bore, because water is available at a very low depth and the cost of constructing the bore is also not very high.
- Per capita supply of water is only 45.75 lpcd
 - > Total volume of water billed is 6.16 MLD
 - Population served is 130492



What we found in the city:

- This **10 MLD water is supplied only by MJP**, but other than MJP water **Gondia Municipality** is **also supplying water** through **52 pump houses** to the consumers and there are more than **600 hand pumps** managed by Gondia Municipality
- Other than the MJP supply of water and the water provided by Gondia municipality, almost every house in the ULB area has a private bore, because water is available at a very low depth and the cost of constructing the bore is also not very high.

Actual Water Supplied

SOURCES OF WATER AND POPULATION SERVED

Details	No. of sources	Water supply (MLD)	No. of HH's served per source	No. of Population
52 no. of 5000 litre per pump house operated 4 times in a day	52	1.04	40	10400
Open wells (Extracting 200 litre per family)	60	0.24	20	6000
MJP Stand post (Extracting 200 litre per family)	90	0.36	20	9000
hand pump (Extracting 200 litre per family)	610	1.464	12	36600
Surface water	1	7	10954	54770
RAILWAY - (Deduct population as not supplied by MJP)				3000
Total		10		116770

DETAILS	
Total LPCD at consumer end	87
Total Population of city	132889
Total Population un-served by MJP & Other sources of water	16119
No. of HH's Unserved by MJP & Other sources of water	3224

Issues in Water Supply

<u>Efficiency in collection of water supply related charges</u>

What we found in the city

- The ULB does not charge any amount to the people residing in the ULB area, even though Gondia Municipality is also supplying water through 52 pump houses to the consumers and there are more than 600 hand pumps managed by Gondia Municipality
- Out of 253 stand posts which are operated by MJP only 90 are there, rest all are demolished because the Nagar parishad is not able to pay the amount. At present with this 90 stand posts ULB pay Rs. 3 lakh per month.
- The Gondia Municipality pumps operate for 8 hours per day.
- Electricity bill for the pump house is paid by ULB and there is no revenue generated against this expenditure

<u>lssue :</u>

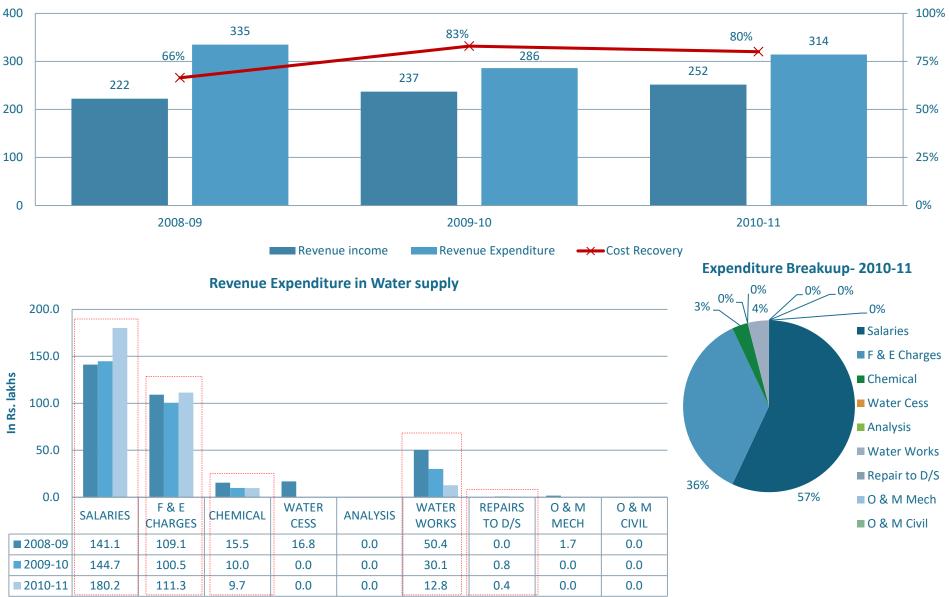
 NO revenue generated by ULB against all this expenses they are incurring for supply water to the People in ULB.





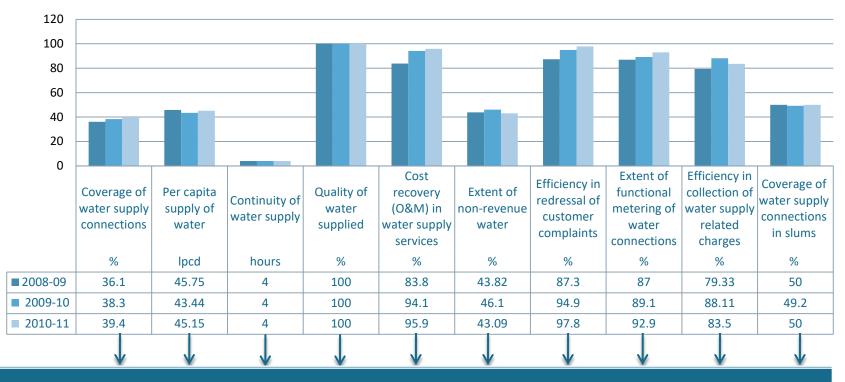
Finance - MJP

Revenue v/s Expenditure (In Rs. Lakhs)



Action Area in Water Supply

WATER SUPPLY INDICATORS



Areas of Processes And Policy Measures

Policy for giving individual water connections in slums

Policy for limiting the use of Ground Water

Policy for discontinuing Hand pumps, Pump houses and stand posts

Prioritization of Action Area in Water Supply

	AREA OF MINIMAL CAPITAL INVESTMENT	AREAS OF SUBSTANTIAL CAPITAL INVESTMENT	AREAS OF PROCESS &POLICY MEASURES
(P1)	Additional connections using existing network	-	Policy for limiting the use of Ground Water
PRIORITY 1 (F	Reduction in free water		Policy for discontinuing Hand pumps, Pump houses and stand posts
đ	Improvement in collection efficiency	-	-
PRIORITY 2 (P2)	_	Additional connections by expanding distribution network	Policy for giving individual water connections in slums

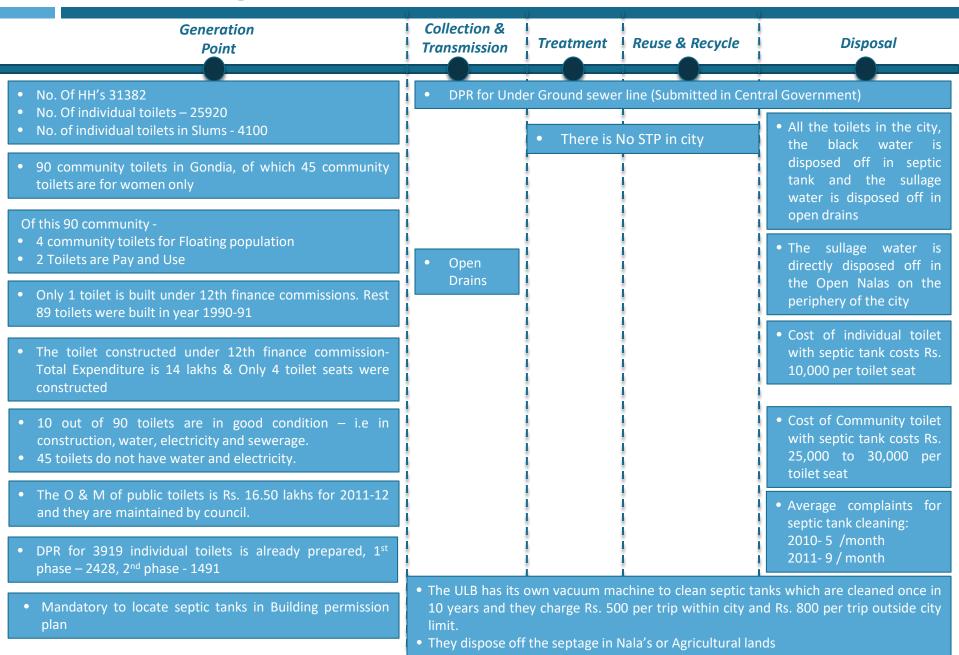
Wastewater Indicators

Wastewater Indicators

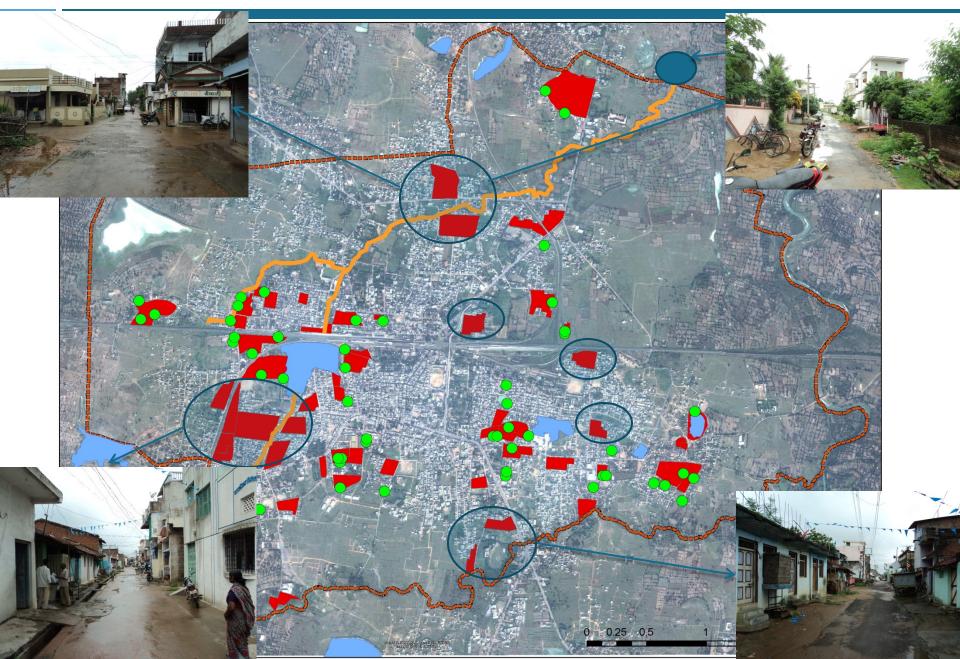


- As per sanitation ratings Gondia ranks 59 at country level and 2nd Rank in A class municipal council in Maharashtra.
- Gondia has also won 1st prize in Sant Gadge Baba award in 2006 & 2009

Existing Wastewater System



Location of Public Toilets



Toilet Status

No. of Slum HHs - 8100 No. of individual toilets in Slums – 4100

Total Community Blocks – 90 Functional community blocks - 50 Non Functional community blocks - 24 Demolished community blocks - 16

Pay and Use toilets - 2 blocks

Total toilet seats – 544 Functional toilet seats – 370 Non functional toilet seats – 174

What we found in the city

- As per the recent survey conducted by ULB they require 3919 individual toilets needs to be constructed as per DPR.
- Now at present, there are 53 persons depending on 1 functional community toilet seat, which is very much near to the norm of 50 persons per toilet seat as per guideline of WSP MoUD 1997.
- We did not find any major Open defecation sites in city.

Situation of Wastewater

No. of Public toilets : 90

No. Of individual toilets : 25920

No. of individual toilets in slums : 4100

Situation of Wastewater



Open drains

Closed drains

Proposed Underground Drainage Scheme

• The total cost of this sewerage scheme is Rs. 73.56 crores

• The Indicators that will be impacted with these projects are:

Coverage of toilets	Coverage of individual toilets in slum settlements	Coverage of sewerage	Coverage of HH connections to sewerage network in slum settlements	Collection efficiency of the sewage network	Adequacy of Sewage treatment capacity	Quality of sewage treatment	Extent of recycle and reuse of sewage	Efficiency in redressal of consumer complaints	Efficiency in collection of sewerage related charges	Extent of cost recovery in Sewage Management

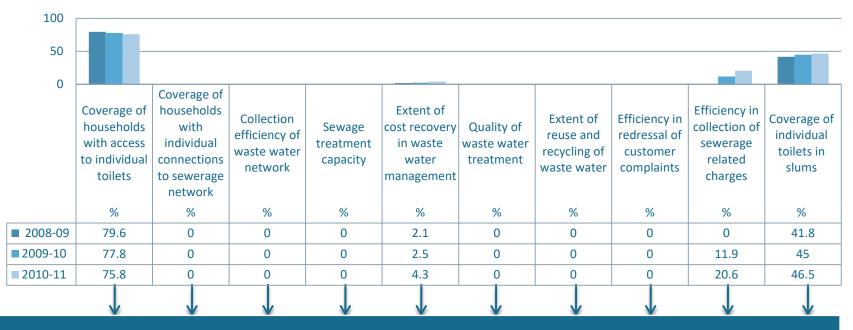
Sr.No	Project Components
1	Underground sewerage network – Length of Network: 217536 M
2	3 No. of wet well and Pump House
3	Sewerage Pumping machinery and submersible Pumps at Pumping stations
4	Sewerage Pumping Main from Wet Well to STP & MH
5	STP of 25.50 MLD capacity
6	Electric power connection
7	Railway & Road crossings
8	Miscellaneous work
9	Trial Run
10	Maintenance Equipment & Machinery
11	Land Acquisition

Outcomes of Discussions

- Underground drainage project is proposed but official says there is no need of UGD Reasons road width is very less.
- Management of open drains is fairly good
- As such there was no issues found related to chocking of open drains.
- Laying of open drains on adhoc basis
- No treatment of waste water
- Probability of contamination of ground water due to septic tanks, as ground water level is very high.
- No sludge disposal management system
- Low cost recovery & collection efficiency of taxes

Action Areas for Wastewater

Waste Water Indicators



Areas of Substantial Capital Investment

Construct primary treatment facility for waste water conveyed through surface drains

Need to Implement Fecal Sludge Management in City

Action Areas for Wastewater

- Underground drainage project is proposed but official says there is no need of UGD
 - For this the option is to cover the existing open drains with an R.C.C precast slab which can have openings at every 50 m for maintenance purpose. In few slums this system already exists and that can be replicated
 - The cost of covering the drains is Rs. 1.84 crores ~ 2 crores
 - The project can be started in year 2012 and the work can be completed 1 Year

Length of Open drains (km)	Width of drain (m)	Thickness of drain cover (m)	Quantum of Work (cum)	Rate of construction (Rs/cum)	Total cost of Construction (In Rs. crores)
123	0.5	0.06	3690	5000	1.845

• Probability of contamination of ground water due to septic tanks, as ground water level is very high.

 Policy on restricting the use of Ground Water and discontinuation of Pump house and Hand Pumps after implementation of UIDSSMT water project

Action Areas for Wastewater

Fecal sludge Management

- The ULB has its own suction emptier for cleaning of septic tanks.
- The ULB charges Rs. 500/trip within city and Rs. 800/trip outside city.
- They dispose off the septage in Nala's or Agricultural lands
- On an average the ULB has cleaned 9 septic tanks per month in year 2011

WHAT CAN BE DONE ????

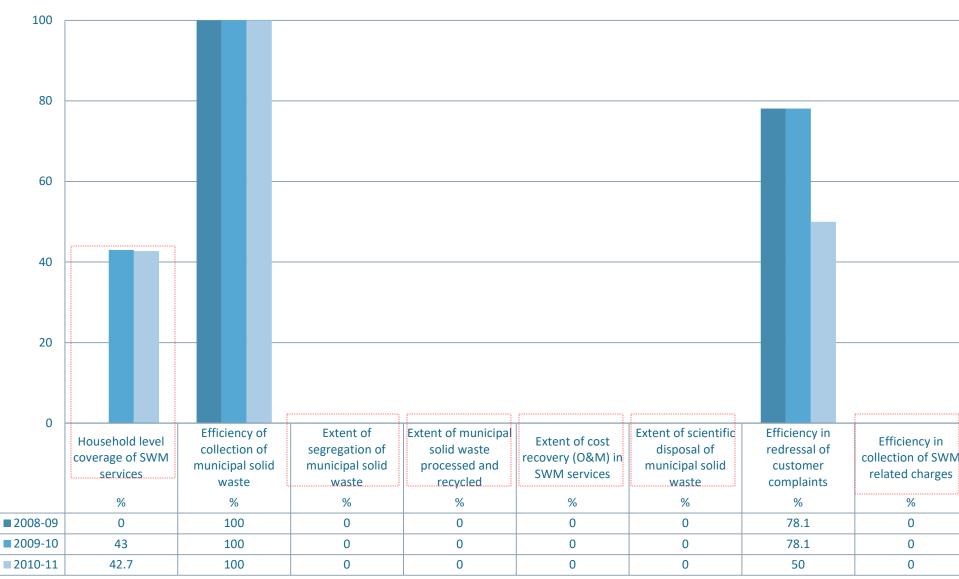
- Composting of all collected MSW and Fecal sludge at a dedicated site
- The ULB can have can have dump pits excavated in dimension of 30' x 10' x 3' as done in Barshi ULB
- The ULB can deploy a staff of around 1 Work Supervisor and 3-4 laborer at this site
- The ULB can have an auction of this compost matter every year among the farmers
- This will generate as source of income for the ULB

Prioritization of Action Area in Wastewater

	AREA OF MINIMAL CAPITAL INVESTMENT	AREAS OF SUBSTANTIAL CAPITAL INVESTMENT	AREAS OF PROCESS &POLICY MEASURES
(P1)	Upgrading open drains to covered surface drains – Rs. 2 crores	_	-
PRIORITY 1 (Household level survey of individual toilets and community toilets in Gondia Rs. 10 lakhs		
	Improvement in collection efficiency of taxes	_	-
PRIORITY 2 (P2)	Refurbishment of existing unusable community toilets	Construct primary treatment facility for waste water conveyed through surface drains Oxidation pond : Rs. 11.27 crores Facultative aerated lagoon : Rs. 11.48 crores	-
PRIORI	_	Implement Fecal Sludge Management	

SWM Indicators

SWM Indicators

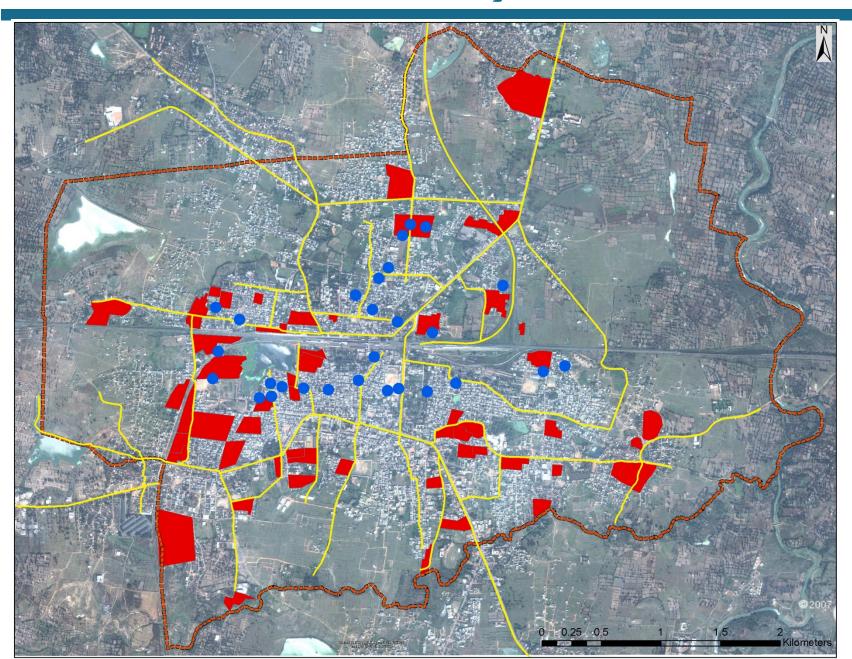


Existing Solid Waste Management

Collection & Storage	Transportation	Treatment	Reuse & Recycle	Disposal
 Door to Door collection of waste was started in year 2009 Door to Door collection of waste is privatized in Gondia Municipal area. The contract is awarded to 2 contractors 1 Contract is on Per HH's basis The lowest bidder has quoted Rs. 9.5 per HH per month/. The 40 ghanta gadi is provided by municipal council and Contractor only provides the labours for this work. 	 ULB transports the secondary storage bins waste to the disposal site Infrastructure details: 40 Ghanta gadi, 80 Secondary bins of 2.5 cum capacity 3 dumper placers 3 hoopers 	There is no treat waste taking place	tment and recycling of e in the city	 A DPR for scientific disposal was prepared in Year 2007 During the course of first 1 year of the above DPR it functioned smoothly But there was a land acquisition problem near the processing unit. The total land required for scientific landfill site was 3.74 acres of which 1.72 was acquired, but 2.02 was not acquired because of opposition of farmers and political will.
 They collect the waste and dump it into the secoundary collection bin. They work from 8 am to 2 pm The other contract was on annual basis. For this council is paying Rs. 2.8 lakhs per month to the contractor. The instruments and manpower are provided by the 				 The project didn't carry on and the project was closed.

contractor

Location of Secondary Bins



Situation of SWM

Road side collection of waste



Waste collected by HH's in slums



Waste collected in slums

Road side condition -Before sweeping Road side condition – After sweeping

Waste collection



Dumper placer

Dumper placer

Dumping Ground

Clean City

40 Wards in the city



35 Wards done by 1st Contractor. Each ward as around 600 HHs

40 Ghanta Gadi that can cover around 300 HH's each day. Instruments & Manpower provided by contractor





Rest of the HH's that are not covered, they either dump their waste outside and the waste is collected in Road sweeping & Hooper vehicles & then transferred to Secondary storage bins User behavior is contributing factor towards litter free city 5 wards done by 2nd contractor

Road Cleaning, Collection and disposal of waste and cleaning of drains

They dump the waste in Secondary storage bins







Waste from secondary storage bins is transported through dumper vehicles

Disposed off the waste to the dump site

Old DPR of SWM (2007)

- Action Plan 1 : Collection & Disposal of waste of bulk generators such as hotels, restaurants, shops etc, debris & green waste
- Action Plan 2: Notify procedure of storage in two bins system and handing over of the waste to collection staff for all waste generators
- Action Plan 3: Door to Door collection of waste, segregation of waste at source in recyclable and biodegradable, avoiding multiple and manual handling of waste using closed waste bins and closed vehicles
- Action Plan 4: No waste shall be allowed to be thrown on the streets, footpaths, open places, drains or water bodies. To create the powerful implementing authority of above rule
- Action Plan 5: Reduction in waste at generating source and installing decentralized processing plants. Opening of recyclable waste purchasing centers
- Action Plan 6: Sweeping of roads and public places. Providing sufficient litter bins at public places
- Action Plan 7: Installation of Scientific and decentralized small processing plants
- Action Plan 8: Providing sanitary landfill site
- Action Plan 9 : Making arrangements for collection, segregation, transportation & Processing of biomedical waste

Old DPR of SWM (2007)

Costing of the DPR

Sr. No	Name of work	Cost in Rs.
1	Public road sweeping	2493000/-
2	Collection & Transportation Equipment & Vehicles	9338000/-
3	Collection & Transportation Bins & Containers	2145000/-
4	Processing & Disposal	31365000/-
	Total Cost	Rs. 45341000/-

Indicators impacted by the DPR

Household level coverage of solid waste management services	collection of municipal	Extent of segregation of municipal solid waste	Extent of municipal solid waste recovered	Extent of scientific disposal of municipal solid waste	Extent of cost recovery in solid waste management services	Efficiency in collection of solid waste management charges	Efficiency in redressal of customer complaints	Household level coverage of SWM services in 'slum settlements

Private Sector Participation

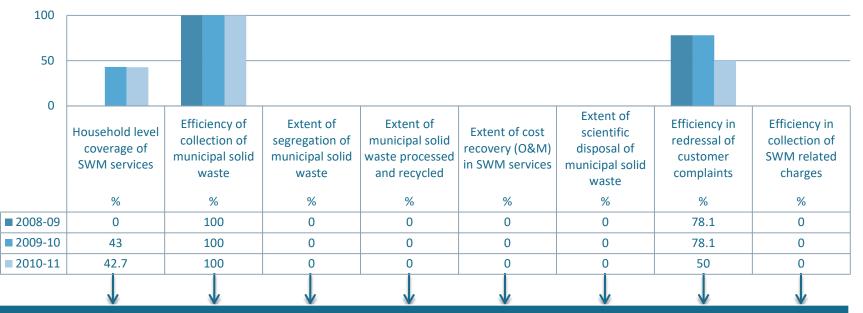
Sr. No	Sector	Agency (City)	Scope of Contract	Duration	Type of Contract	Value of Contract	Procurement Process	Other Key Features/Remarks
1	SWM	Gondia	D-D collection of waste through Ghanta Gadi	1 Year	Item Rate tender	Not Known	Through competitive bidding with bid selection	 The Ghanta Gadi is provided by the ULB and the contractor has to only provide manpower and instruments required. Each Ghanta gadi has to cover atleast 250 to 300 houses per day The contractor is Paid Rs. 9.5/HH/month and for offices the contractor is paid Rs. 18 per Month.
2	SWM & Waste Water	Gondia	Road Cleaning, Collection and disposal of waste and cleaning of drains in ward no. 16,17,18,24,25	1 Year	Annual Rate contract	Rs. 2,08,000 per Month	Through competitive bidding with bid selection	 The tractor trolley and the manpower have to be provided by the Contractor. Per container Rs. 400 per trip is deducted from contractor's bill as the containers were provided by the ULB. If the work is not carried out during the day then the contractor will be penalized with Rs. 7000 per day. If a complaint is not redressed within 24 hrs of intimation to contractor, then a penalty of Rs. 1000 per day will be charged on contractor.
3	SWM & Waste Water	Gondia	Providing Tractor trolley and JCB	1 Year	ltem Rate Tender	Not Known	Through competitive bidding with bid selection	For cleaning of drains or for excavation or for carrying waste the rate for hydraulic tractor trolley is Rs. 295 per trip and if JCB machine is used for cleaning or lifting Rs. 965 per hour is charged from the ULB

Outcomes of Discussions

- DPR on SWM is ready, but it could not be implemented due to political issue
- The coverage of Solid waste Management is low because there are not sufficient number of Ghanta gadi with ULB.
- No treatment facility
- Cost recovery of taxes is low.

Action Areas for SWM

SWM Indicators



Areas of Minimal Capital Investment

Increasing coverage through equipments installation for primary collection system				
Introduce taxes for Solid waste Management				
Treatment plant for Biodegradable waste using composting				

Action Areas for SWM

- The coverage of Solid waste Management is low because there are not sufficient number of Ghanta gadi with ULB.
 - Procurement of another 40 Ghanta gadi, the unit cost of Ghanta Gadi is Rs. 21000/-, the total cost of procurement is Rs. 8.4 lakhs.
 - This project can be implemented in Year 2011 only
 - Due to this the coverage of Solid waste Management will become 100%
- Introduce taxes for Solid waste Management
 - Pass a resolution in Committee regarding introduction of Taxes for solid waste for the services provided by the ULB to the people.

Prioritization of Action area in SWM

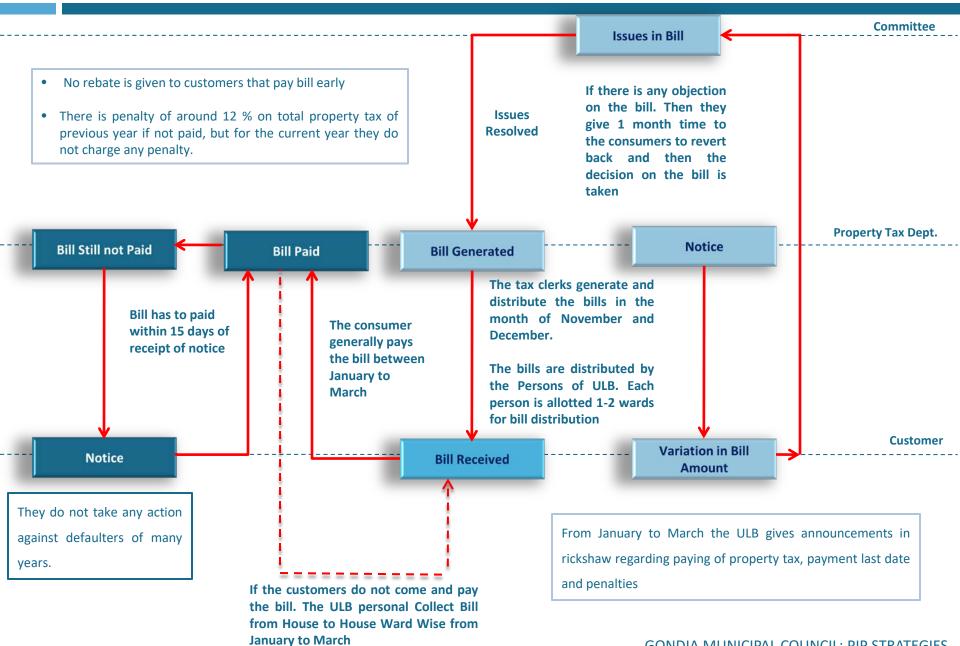
	AREA OF MINIMAL CAPITAL INVESTMENT	AREAS OF SUBSTANTIAL CAPITAL INVESTMENT	AREAS OF PROCESS &POLICY MEASURES
PRIORITY 1 (P1)	Increasing coverage through equipments installation for primary collection system – Rs. 8.4 lakhs	-	-
	Treatment plant for Biodegradable waste using composting – Rs. 170 lakhs		-
	Introduce taxes for Solid waste Management	-	-
PRIORITY 2 (P2)	-	-	-

Property Tax

- There are 36577 properties in Gondia Municipality limits as on 2011-12 of which 32549 are residential properties which include slum properties and open plots.
- There are 3747 commercial properties and 281 government properties.
- Last property tax assessment was done in year 2003-04 and it takes place every 4 years, but it has not been done in year
 2007 because of political pressure and it will still not happen now because of political pressure.
- One agency was appointed for property assessment recently and they had assessed more than 50 % of properties, but due to political pressure the project was withdrawn.
- In Property register, 39/128 means that 39 is ward no and 128 is house
 no. If on the same property there are 2 HH's and if they have registered
 then they will be given number as 39/128/A and 39/128/B. For flats also
 they will be given as 39/128/A, B, C......
- Property tax bill is sent to each HH's
- No PSP in bill generation, distribution and collection

(नमुना ४८ नियम ७७ पहा) रोजी संपणाऱ्या कालावधीच्या कराचे बिल जोविंदिया नगर पालिका नांव टिंग देवाजी जाविंद्या नगर पालिका नांव टिंग देवाजी जावेद्य किंग् देवाजी पता राजी नेंद वहीतील अनुक्रमांक 9/9 व्या संबंधात येणे असुन आपण ते हे बिल दिल्यापासुन पंघरा दिवसाच्या आत नगरपालिक कडे मरावेत अशी आपणांस विनंती करण्यात येत आहे.					
कराचे नांव	मागील थक बाकी	चालु मागणी	एकुण		
-मा. कर ्रिक्षां कर ्रव्सकर /रोजगार प्यारंटी कर /रोजगार प्यारंटी कर (र्जाडा टॅक्स डिमांड नोटीस इतर खंर्च	8869/. 9026/. 55/- 60/- X686/- 632X/-	E65/- 926/- 98/- 90/- (E0/-	69 (2/-		
प्रधारा दिवसाच्या उक्त कालाकधीत भ या बितात मागणी केलेली देण्यात न आत्यास किंवा ब) ती का देण्यात येऊ नये या बददल मुख्य अधिकारी खात्री पटेल असे कोणतेही कारण दर्शविप्यास आले नाही तर किंवा क) महाराष्ट्र नगर पालिका अधिनियम १९६५ यांच्या कलम अनुसार कोणतेही अपील दाखल करण्यांत आले नाही तर उक्त रक्तम देण्या संबंधी आपल्यावर भागणी नोटीस बजावण्यात येईल. कार्यातय दिनांक - बाह्य १७२१ विक्रा दिप - समासांच्या स्तंम २ मध्ये दर्शविलेली रक्कम चालू मागणीच्या रक्तमे बरोबर देण्यात येईल.					

Property Tax Billing cCycle



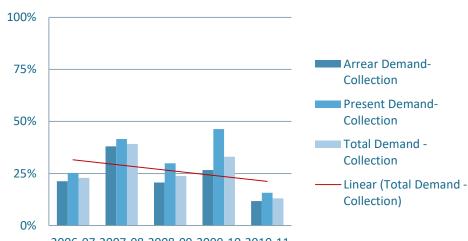
Demand - Collection

Property Tax collection



Average Property tax (Property kar) demand and collection is 27 % Average Sanitation tax demand & Collection is 28%

There is an issue in Collection efficiency of taxes



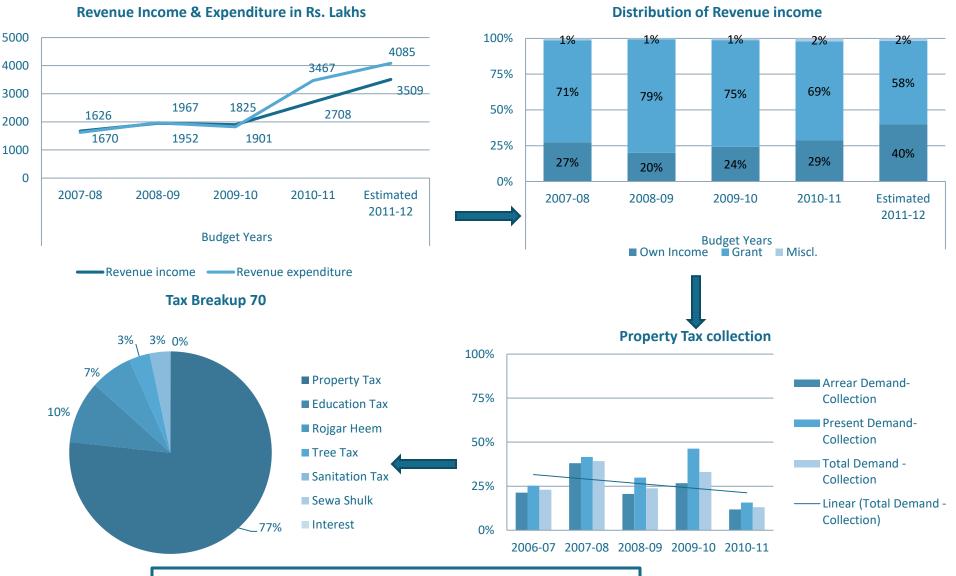
Property Tax collection

2006-07 2007-08 2008-09 2009-10 2010-11

GONDIA MUNICIPAL COUNCIL: PIP STRATEGIES

Tax Breakup 70

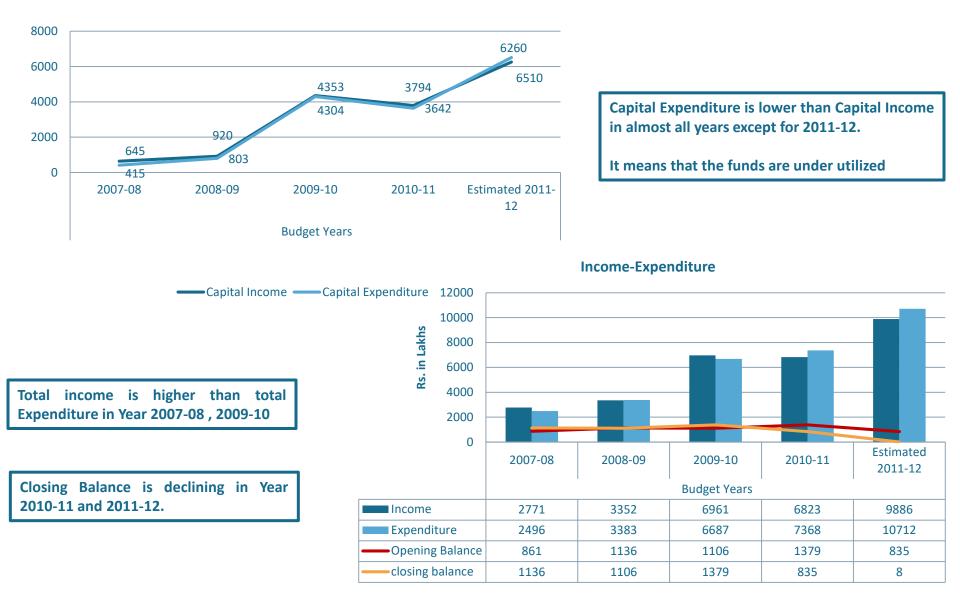
Finance (Revenue) - ULB



Average Total Demand and Collection of tax is 26 %

Finance (Capital) - ULB

Capital Income & Expenditure in Rs. Lakhs



Summary of PIP Actions

	AREA OF	AREAS OF	AREAS OF
	MINIMAL CAPITAL INVESTMENT	SUBSTANTIAL CAPITAL INVESTMENT	PROCESS & POLICY MEASURES
Water	Additional connections	Additional connections	Policy for limiting the
	using existing network	by expanding distribution network	use of Ground Water
	Reduction in free water		Policy for discontinuing Hand pumps,
			Pump houses and stand posts
	Improvement in collection efficiency		Policy for giving
	,		individual water connections in slums
		Construct primary treatment facility for	
		waste water conveyed through surface	
	Upgrading open drains to covered surface	drains	-
	drains –	Oxidation pond : <u>Rs. 11.27 crores</u>	
er	<u>Rs. 2 crores</u>	OR Facultative aerated	
Vat		lagoon : <u>Rs. 11.48 crores</u>	
5	Household level survey of individual		
Waste Water	toilets and community toilets in Gondia		
Na	<u>Rs. 0.10 crores</u>		
	Improvement in collection efficiency of		
	taxes	-	
	Refurbishment of existing unusable	Implement	
	community toilets	Fecal Sludge Management	
	Increasing coverage through equipments		
	installation for primary collection system –		
	Rs. 0.084 crores		
SWM	Treatment plant for Biodegradable waste		
	using composting –		
S	Rs. 1.70 crores		
			-
	Introduce taxes for Solid waste	-	Rs. 15 Crores is Required
	Management		

Thank You