

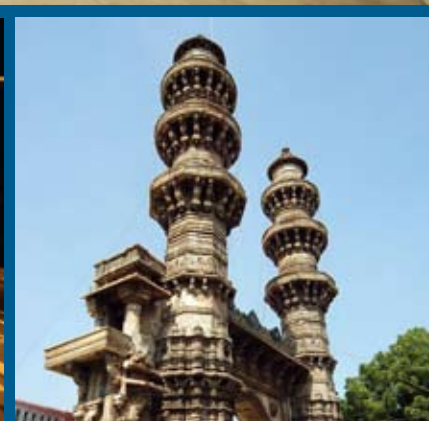
# WATER SUPPLY Next Generation Shift... 24x7

## NEED OF PROJECT

- To avoid possibilities of contamination of water and thereby reducing the water borne diseases
- Un-interrupted water supply at desired pressure to all consumers within their homes (24 hours a day and 7 days a week)
- Reduction of NRW
- Improvement of service level to consumer

## PROJECT COMPONENT

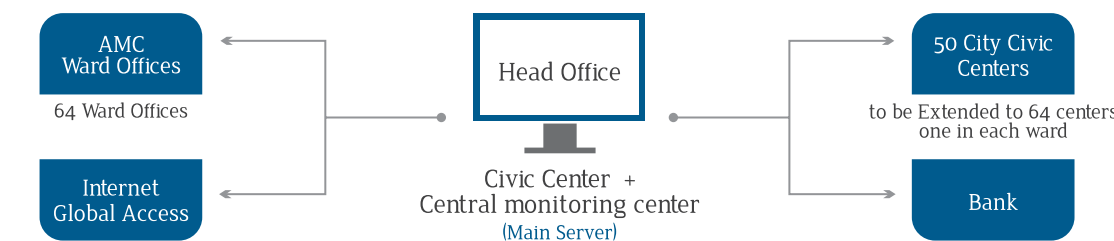
- Water audit and identification of leakages
- Continuous audit with real time central monitoring system by installation of flowmeters
- Isolation of network as per command area of each water distribution station
- Hydraulic remodelling as per countour and water zone demand
- Creation of DMA's for leak detection program
- Implementation of telescopic tariff by meterisation



AMDAVAD MUNICIPAL CORPORATION

## PROJECT BENEFIT

- Minimize pollution
- Water audit and Energy audit
- Sustainable water supply with better accountability towards citizen
- Better services to the citizen with customer centric approach
- Improve satisfaction for stake holders

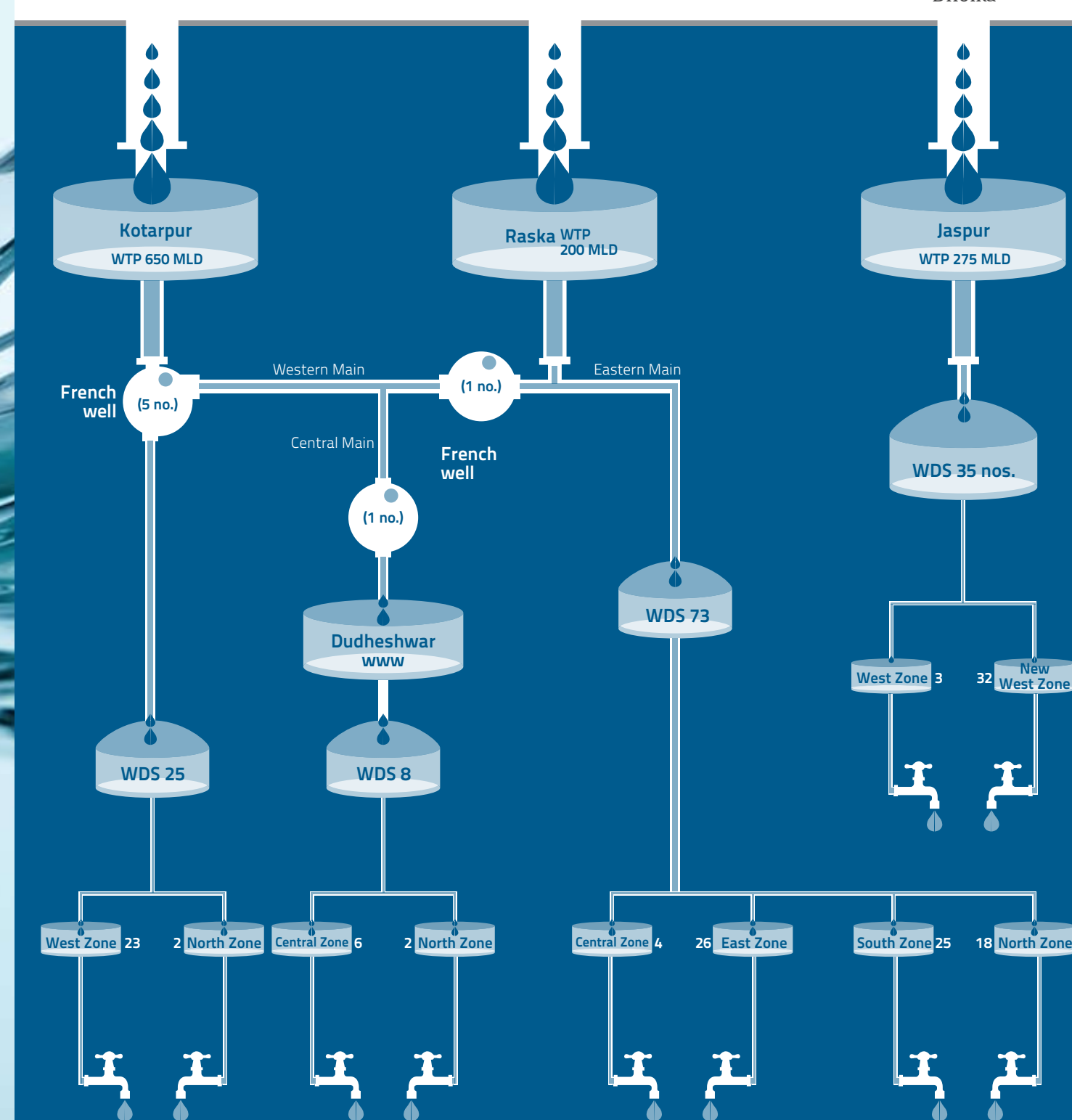


All Ward Offices will be connected via 2 Mbps line plus ISDN for back up line.  
(Network of 1600 Computers on WAN)

AMDAVAD MUNICIPAL CORPORATION  
Water Resources Management Department  
Sardar Patel Bhavan, Danapith, Amdavad - 380001  
Ph: +91 79 2539 1811 Fax: +91 79 2532 1484  
info@egovamc.com | www.egovamc.com

# WATER SUPPLY Next Generation Shift... 24x7

Narmada Canal HR and Intake well 1 & 2      Shedhi Branch Canal      Narmada Branch Canal Dholka



## Amdavad City Water Supply At A Glance



### Water supply (Water projects worth Rs 120.44 Crore completed)

AMC supplies about 140 to 160 Liters of water per capita daily from Kotarpur, Raska and Jaspur treatment plants, through 141 distribution stations. Moreover, AMC also manages water storage in underground tanks ( 857.40 ML ) and overhead tanks ( 62.69 ML ).

To supply water to newly merged areas in southern, eastern and central parts, a 200 MLD water treatment plant - Shri Santram Jal Shuddhikaran Kendra - has been set up at Raska.

## Water Distribution Station

Water Distribution Stations	141 Nos.
Water Storage Capacity Under Ground Tanks	857.40 ML
E.S.R.	62.69 ML
Daily Water Supply	1050 MLD
Per Capita Water Supply	140 LPCD - 160 LPCD



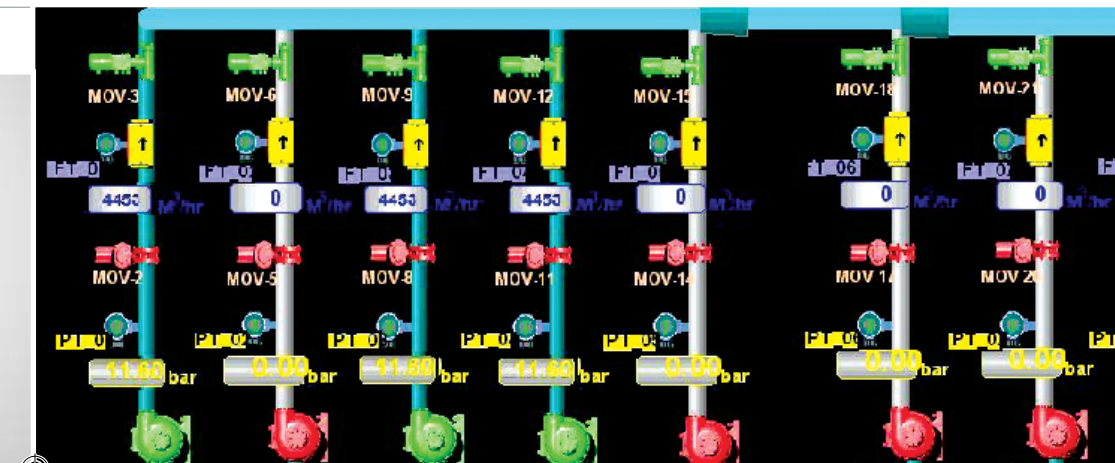
## Water Quality

PARAMETERS	STANDARDS	ACTUAL
pH	6.8 - 8.5	7.2 - 7.8
Turbidity NTU	1 - 5	0.5 - 1.5
Alkalinity mg/l	300 - 600	120 - 200
Total Hardness mg/l	300 - 600	80 - 280
Calcium (Ca <sup>++</sup> ) mg/l	70 - 200	190 - 320
Magnesium (Mg <sup>++</sup> ) mg/l	30 - 100	20 - 60
Chloride (Cl <sup>-</sup> ) mg/l	250 - 1000	65 - 310
Sulphates (SO <sub>4</sub> <sup>-</sup> ) mg/l	200 - 400	12 - 35
Total Dissolved Solid mg/l	500 - 2000	120 - 300

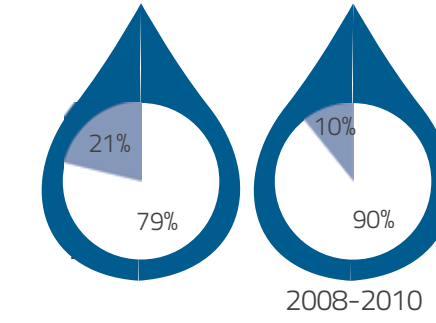


## Ongoing Projects For Strengthening of Water Supply System

New Water Distribution Stations	45 Nos.
Storage Capacity	245 ML
Cost Of Project	220 Cr.
Augmentation of Jaspur Treatment Plant	275 MLD to 400 MLD
Project Cost	40.00 Cr.
New Trunk Mains	60 km
Tertiary Distribution Network	250 km
Project Cost	80.00 Cr.
Water Audit and Leak Detection Through Installing Flowmeters, DMA's , Bulk Metering Source to Consumer end	10.00 Cr.
Election Ward Wise Map Digitalize and Isolation Of Water Zones (DMA's)	30.00 Cr.
Online Monitoring of Raska WTP With Surveillance Camera and Instrumentation by Hybrid Technology of Data Transmission ( RF + GPRS )	1.5 Cr.
Provide Instrumentation Like Ultrasonic Level, Pressure Transmitters at Water Distribution Station	1.5 Cr.



## Good Practices & Initiations



Energy Saving By Maximum Use Of Surface Water & Reduction In Ground Water Depletion

- Surface Water
- Ground Water



- Installation of electromagnetic flowmeters, ultrasonic level sensors, and other scada compatible instrumentation



- Water disinfection by chlorination plant and chlorine dozer
- Daily water quality checking at source, distribution and at consumer end
- Data published on web site and updated fortnightly and also quarterly in news paper
- Result of water quality indicate the standard achieved by AMC is better than prescribed by WHO



- Quantum of water supplied data informed to authority through sms system on daily basis
- Complain redressal system through sms initiated



## Sources



Narmada Canal Raw Water Total Capacity - 350 MLD  
 French Well 07 Nos. Total Capacity - 350 MLD  
 Intake Well I & II Total Capacity - 495 MLD

## Treatment Plants



Kotarpur WTP 650 MLD  
 Jaspur WTP 275 MLD  
 Raska WTP 200 MLD

## Network

Total Trunk Main	250 - Km
Area Network	3500 - Km
Pipe Material	MS/CI/DI/HDPE