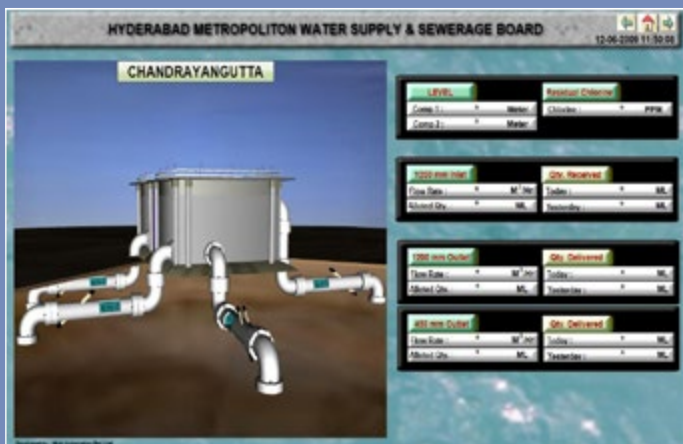




## Hyderabad Metropolitan Water Supply & Sewerage Board Hyderabad, India



A Water Processing Facility at Hyderabad Water Supply & Sewerage Board



Overview of the Chandrayangutta Tank

### About Hyderabad Metropolitan Water Supply & Sewerage Board

Hyderabad, the capital city of the state of Andhra Pradesh is one of the fast growing urban conglomerations in India. It is a typical inland city located in the south-eastern part of the deccan plateau with a semi-arid climate and a rainfall of 75 cms.

The Hyderabad Metropolitan Water Supply & Sewerage Board (HMWSSB) was constituted on 1/11/1989 under the provisions of the Hyderabad Metropolitan Water Supply and Sewerage Act 1989 (Act No. 15 of 1989), with the following functions and responsibilities in the Hyderabad Metropolitan Area:

- Supply of potable water including planning, design, construction, maintenance, operation and management of water supply system.

### ICONICS Software Deployed

The Hyderabad Metropolitan Water Supply & Sewerage Board, working with Nish Automation Pvt Ltd of Surat, selected ICONICS GENESIS64™ 64-bit-enhanced, Web-enabled, OPC-integrated HMI/SCADA suite, including its GraphWorX™64 graphics development/runtime environment and TrendWorX™64 data collection/logging/charting/reporting/analysis components. The agency also installed ICONICS WebHMI™ Web-based real-time automation software as well as ReportWorX™ enterprise reporting, charting and analysis software, which is a component of the BizViz™ business visualization suite.

### Project Summary

Water comes at a premium during the hot dry months in Hyderabad, the most populous city in Andhra Pradesh. A respite from the heat and relative water scarcity comes during monsoon season, which typically lasts from late June to early October. The HMWSSB has been tasked with ensuring a reliable source of water and waste treatment for its citizens. The board is also involved in other water-related projects including rainwater harvesting and water bottling/canning.

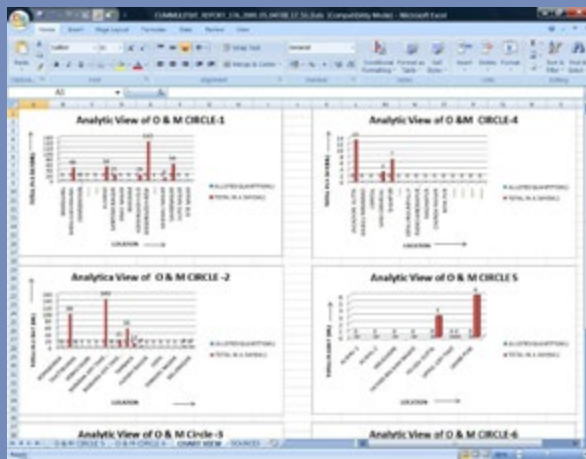
The board sought assistance in automating its water supply/sewer facilities and contacted Nish Automation who, in turn, recommended ICONICS' industrial automation software solutions, specifically the company's GENESIS64 suite that integrates with new 64-bit computing machinery and the latest operating systems from Microsoft (including Windows Vista® and Windows Server® 2008).

The HMWSSB required a way to collect, measure, visualize and control the data from its multiple facilities located across a wide area, keeping track of the city's water from its sources to its outlets. Industrial PCs running GENESIS64, WebHMI (5 nodes), ReportWorX Lite and other ICONICS software connect to 84 Remote Terminal Units (RTUs) (with Schneider Electric PLCs for I/O), which are, in turn, connected by seven Matrix Simado GDT11 fixed cellular terminals (FTCs) and a Moxa Nport 5610 Serial Driver. These RTU/PLC systems are hard-wired locally to Siemens flow meters, level transmitters, etc. for the purpose of water auditing via SCADA.

The HMWSSB benefits from 64-bit-optimized technologies (GraphWorX64 graphic development, TrendWorX64 logging, etc.) from the GENESIS64 suite, combined with ICONICS' Data Mining Configurator, Unified Data Manager, ReportWorX and more.

## Conclusion

ICONICS, working with Nish Automation, was able to meet the HMI/SCADA and business visualization needs of the Hyderabad Metropolitan Water Supply & Sewerage Board, assisting the agency in its goal of providing a reliable water supply for the city's residents.



*A Hyderabad Metropolitan Water Supply & Sewerage Board Report in Chart View*



*A Geographic Overview of a Division Within the Board's Service Territory*

## Key Features

The Hyderabad Metropolitan Water Supply & Sewerage Board had multiple configuration requirements for a new HMI/SCADA solution, all met by ICONICS software's capabilities, including:

- Real-time OPC Tags
- Ability to Have Local and Remote Connectivity
- Historical Data Access
- 2D and 3D Graphics and Trend Charts
- Flexible Reporting for Scheduled and Ad Hoc Reporting
- Ability to Interface with SQL Server

## Solutions Highlighted



### GENESIS64

Designed from the ground up to take maximum advantage of Windows 7, Windows Server 2008, .NET and SharePoint® technology. GENESIS64 is also "OPC-To-The-Core™," exemplifying the next generation of OPC Data Access, OPC Alarm and Events and OPC Historical Data Access. This allows for secure, open connectivity from plants and facilities to the enterprise level.