

SMART TECHNOLOGY FOR WATER MANAGEMENT

In a rich legacy of more than five decades when we started dealing with water, SPML Infra has completed more than 600 projects in this segment.



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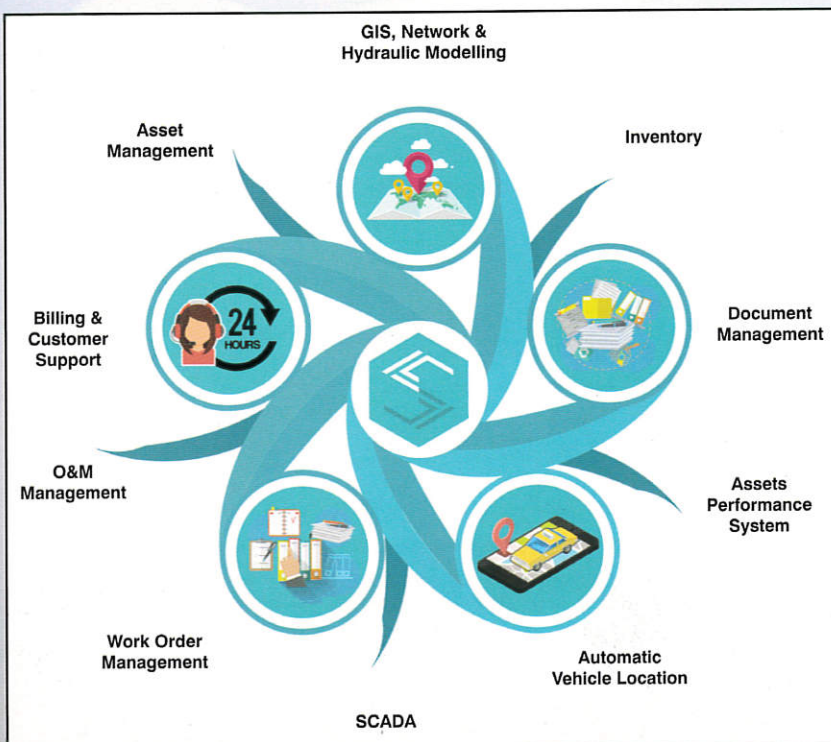
Chairman,
SPML Infra Limited

What technological advancement done by SPML for water management?

SPML Infra has indigenously developed an Integrated Management Information System (IMIS) for smart management of water utilities. A powerful enterprise management system designed to meet day to day operations of water distribution utilities, seamlessly manages the entire gamut of services. This is the only system designed specifically as per the working conditions of the Indian water utilities and consumers. Going forward with the development of Smart City, this integrated system will be essential for smart operation of water supply & distribution management in the cities.

What are the key features of IMIS developed by your company?

The IMIS is designed specifically as per Indian requirements and working conditions and will help the water utilities to develop and manage smart water supply system. It provides technologically advance services which include GIS, Network Analysis, Hydraulic Modeling, Water Loss Reduction thru NRW & UFW Management, Demand Management, Customer Relationship, Financial Management, and complete Asset Management of the system. A powerful enterprise management system designed to meet day to day operations of water distribution utilities, seamlessly manages entire gamut of services.



Where the IMIS has been implemented and what is the outcome?

This IMIS system has already been implemented in different water utilities with successful results.

Hubli-Dharwad Case Study:

With the implementation of the integrated system, Karnataka Water Board – Dharwad Division was able to reduce non-revenue water from 53% to 28%, a drastic improvement as compared to NRW management in other cities of India. Improved customer service was the main aim of this project which was achieved, and illegal connections were traced and regularized. With the help of mobile app, citizens were made aware of their bill payments, water supply timings etc. which increased consumer servicing.

By maintaining proper pipe network of about 600 km in the city, it led to tracking and repairing water leakages and required old pipe network to be replaced to new system which reduces UFW (Unaccounted for Water) drastically.

By installing Billing and CIS module, accurate bills were distributed to citizens in timely manner which helped them to pay their water bills in time and also suitable consumer kiosk was opened across the city which helped in increased collection, thus increasing revenue for the water board.

By implementing Operation and Maintenance system, maintenance of the assets such as preventive maintenance, proactive maintenance which resulted in handling leakages, maintenance requests from consumers in methodological way has helped in reducing the revenue loss to the water board.

By using demand management system the water board could do timely analysis of the water demand in newly developed areas and managed drinking water supply more accurately.

By integrating Network analysis module, small water hydraulic model was simulated in the system itself for designing water supply pipe network in newly developed areas.

Result:

With the implementation of this system, revenue of Hubli-Dharwad Water Supply Board was increased substantially and Non-Revenue Water (NRW) losses reduced by about 25%.

The system is also implemented in two projects in Delhi for Mehrauli-Vasant Vihar Water Supply and Water Metering Projects where it helped with reduction in water losses, increased revenue and efficiency in water supply services along with significantly improving consumer services. We are also implementing this system in 6 important ADB funded 24X7 urban water supply projects in Karnataka in the cities: Bellary, Raichur, Haveri, Hospet, Gadag-Betageri, and Sindhanur to serve a combined population of about 1.3 million.

What is your future plan with the IMIS?

It is a powerful enterprise management system designed to meet day to day operations of water distribution utilities, seamlessly manages entire gamut of services. It can be implemented in all municipalities and water utility bodies across India to help them reduce water losses (Non-revenue water) and increase their revenue and service standards. Going forward with development of smart city, this integrated system will be essential for smart operation of water supply and distribution management in the cities. ■

