



WMS

Water Management System

A product by IPM Capital Limited



The exemplary water asset management
now in practice



About

The water management system is a SCADA system that addresses a big lump of water protection and metering problems from water pumping tube wells through storage tanks to consumers by providing real-time data acquisition and control of the water supply network.

Key Features

WMS provides complete water asset management as follows:

- It incorporates a sensory data acquisition and actuator network from inlets through to outlets of the water supply network, thus any leak or malicious siphoning can be detected and reported in real-time, without any delay and hustle to identify the fault location, saving water wastage and increase service reliability.
- Provides water theft security & leakage traceability.
- Provides water consumption prediction.
- Captures Dry-Run of the machines.
- Identifies water loss.
- Prioritizes pipe renewal.
- Analyzes pipe and valve criticality.

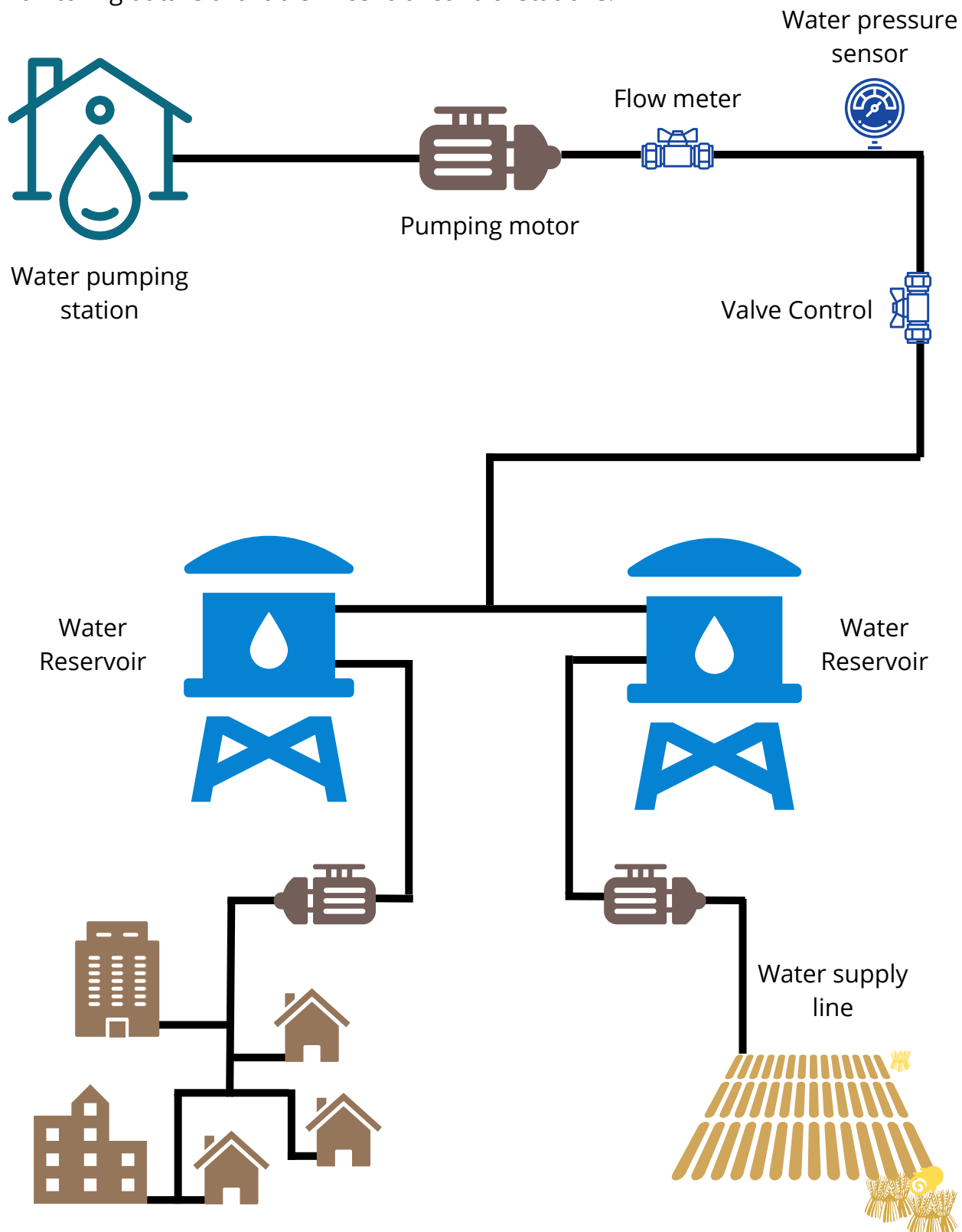
BENEFITS

Water supply metering (Post-Paid and Pre-Paid)	1
Water theft security and leakage traceability	2
Water quality monitoring in pipelines and reservoirs	3
Pumping station monitoring and control	4
Complete and easy Asset management	5



System Architecture

WMS network is spread throughout the water supply network, which monitors the power consumption of motors, the temperature of motors, how much water is being pumped, quality of water, leakage and pilferage detection and much more. All of the monitoring data is available in central control stations.





Central Control Station

The central control station is responsible for the management of the water supply network. Motors can be turned on/off remotely and can also be scheduled as per requirements. The data gathered from different sensors is further processed at the CCS.



Why choose us?

WMS not only provides supervision but also quality management, it has the following main features:

- Water Quality Analysis
- Leakage Detection
- Theft detection and isolation Control
- Flow Control
- Fault diagnosis
- Data Acquisition
- Water Metering
- Flow management
- Auto-Supply management
- Pre-paid and Postpaid metering
- Water Pumping station protection
- Water pumping station control
- Real-Time Monitoring
- Consumption Log
- Graphical operator interface
- Alarm/ Alerts Processing
- Data Historian/Strip Chart Trending

Our system not only provides real-time data for proactive actions but also allows remote monitoring and controlling (Switching: ON/OFF) of pumps via mobile app and website. The system helps in controlling various parameters of the equipment and monitors the entire water supply process. Analogue and digital input and output (I/O) modules are connected such as:

- Water level sensor keeps track of water levels in large reservoirs and tanks.
- Flow sensors measures gallons of water per minute being delivered.
- Water quality sensors monitor the quality of water for different purposes of use.
- An electronic valve that open and closes incrementally to adjust the rate at which the water flows.



Website Dashboard

WMS

Admin
admin@gmail.com

MAIN NAVIGATION

- Dashboards
- Lists
- Switching
- Energy Logs
- Reports
- Faults
- Connections Map
- Users
- Logout

WMS Dashboard

Pumps On/Off

Auto On/Off: 14
Manual On/Off: 3

Total Power Consumption
In kWh

000005127

Water tank status

Tank - 1: 80%
Tank - 2: 21%
Tank - 3: 36%

Users

Total Users: 9
Active Users: 2
Offline Users: 7

Issues

Active Issues: 1
Resolved Issues: 6

Usage Prediction
for upcoming month

290630

Water Consumption in Gallons

Month	Consumption (Gallons)
Jan	280K
Feb	310K
Mar	290K
Apr	310K
May	240K
Jun	280K
Jul	310K
Aug	300K
Sep	230K
Oct	270K
Nov	290K
Dec	320K

Notifications

Warning

Leakage detected near terminal...

Stats

Check this week consumption to...

Switched on

Pump#7 switched on at 6:01am.

Recent Activity

- Activity log Printed at 11:00 am
- Pump#3 turned on at 10:42 am
- Pump#5 turned on at 10:15 am
- Pump#2 turned on at 6:30 am
- John logged in at 6:23 am

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Pumps Dashboard

[Home](#) > [Pumps Dashboard](#)

Online

Device ID: 1G1PU01

Last Pulse: 2020-11-22 14:34:20
Average Voltage = 81.35 Volts
Total Current = 0 Amps
Average Power Factor = 0.98
Total KVA = 0
Online Time: 2020-11-22 14:34:20
Online due to: Load Shedding

Switch On
Details

Online

Device ID: 1G1PU02

Last Pulse: 2020-11-24 12:24:22
Average Voltage = 0 Volts
Total Current = 0.01 Amps
Average Power Factor = 0.98
Total KVA = 0
Online Time: 2020-11-24 12:24:22
Online due to: Load Shedding

Switch On
Details

Online

Device ID: 1G1PU03

Last Pulse: 2020-11-24 12:23:23
Average Voltage = 221.45 Volts
Total Current = 153.11 Amps
Average Power Factor = 0.78
Total KVA = 33.91
Online Time: 2020-11-24 12:23:23
Online due to: Auto-Online

Switch On
Details

Online

Device ID: 1G1PU04

Last Pulse: 2020-11-24 12:23:21
Average Voltage = 218.15 Volts
Total Current = 167.3 Amps
Average Power Factor = 0.79
Total KVA = 36.49
Online Time: 2020-11-24 12:23:21
Online due to: Manual

Switch On
Details

Online

Device ID: 1G1PU05

Online

Device ID: 1G1PU06

Online

Device ID: 1G1PU07

Online

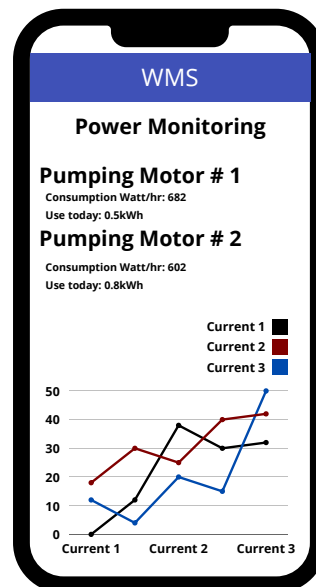
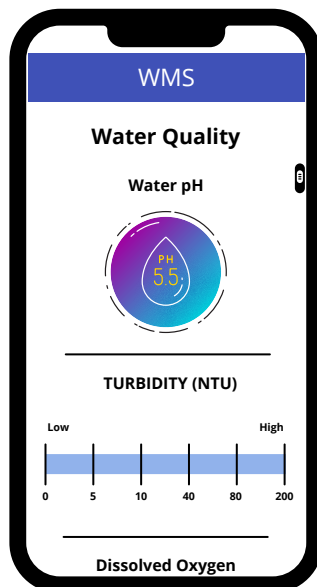
Device ID: 1G1PU08



Field Installation

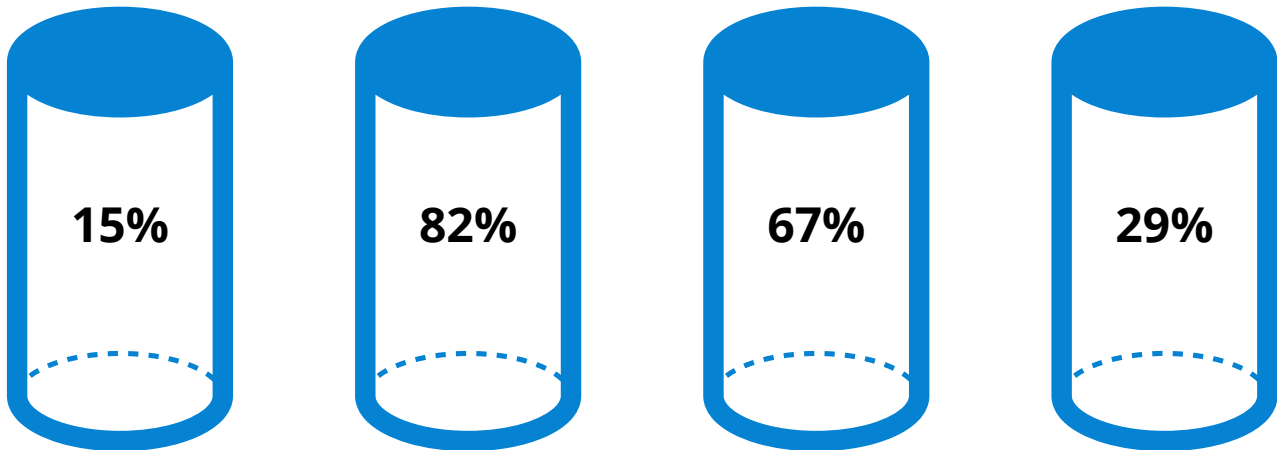


Mobile Application

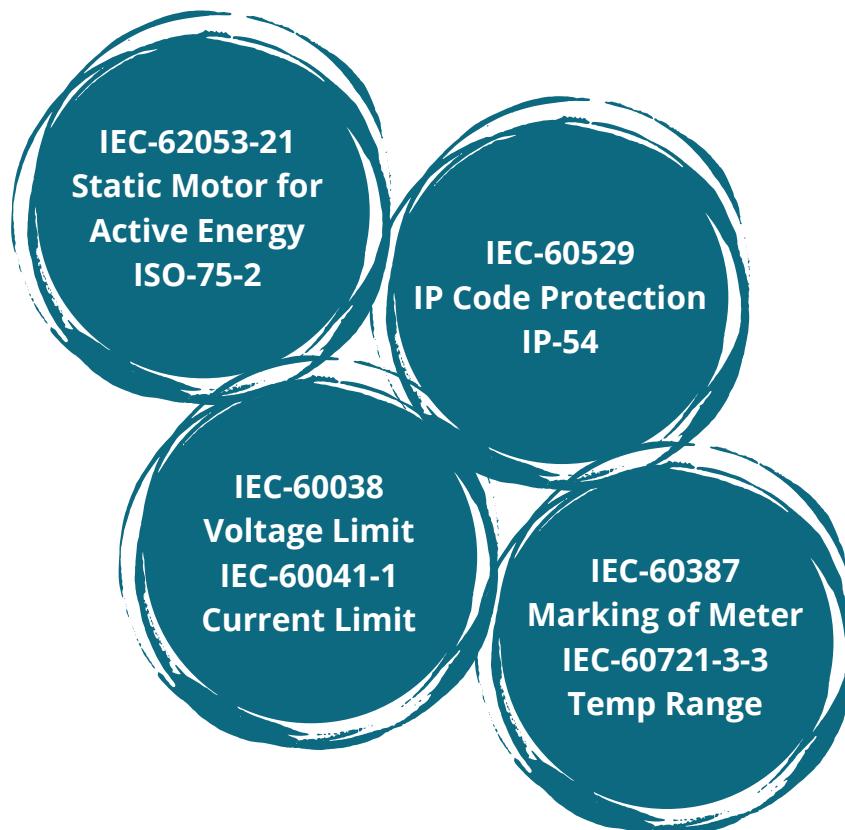




Water Reservoir Status



STANDARDS



- In line with ISO-9001
- In line with EN-60950



Who are we?

IPMCA is a UK-based multinational company headquartered in London, England. It is a leading franchise-oriented brand in the market of intelligent systems, meeting the future.

Vision

Our vision is to revolutionize the world through smart products and services. It is our long-term commitment at IPMCA.

Other Products and Services

Our Products include:

TMM: Transformer Metering and Management manages the performance parameters of the transformer by monitoring its Electrical consumption, Currents (I), Voltages (V), KVA, PF (Power Factors) and kWh (unit consumption). TMM alerts the concerned personnel to deal with the Transformer abnormalities/anomalies.

Safe Heaven: Safe Heaven monitors the unwanted visitors on school's premises to ensure safety and security. It also monitors students behavior and mood through facial expression recognition. Moreover, it detects bullying, harassment (Social, verbal and physical) and violence. In addition, it monitors the employees carrying out their responsibilities in courteous manner.

Our Services include:

- Evolutionary Computing & Smart Grids
- Information & Communication Technology
- Artificial Intelligence (AI)
- Consultancy Services
- Industrial Services
- Engineering Services

Contact Us

Have any question? We would love to hear from you. Contact us for more information on our products and services.

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