

Smart Water Meter Solution

For Apartments and Societies



The Problem

- Today, measurement of accurate water consumption in Building Societies is not a scientific system in India
- Due to the lack of suitable and economical infrastructure, water is paid for based on the size of the occupancy instead of actual consumption
- This leads to an unfair system of charging

... Empowered Living

The solution

- Smart Metering Units
- Smart Meters have a built-in sensor that notes and shares the consumption data with a Central Monitoring device
- Such a Meter is attached to each inlet
- Every milestone completed (10 ltrs), information is recorded by the Central Monitoring device and stored in the Cloud
- Consumption Data is available Real Time for Users and Society Managers
- At the end of each cycle, consumption data is shown in the form of a Report
- Managers bill tenants according to the prevailing rate
- Water Bills are now calculated based on consumption



... Empowered Living

Pulse Water Meters from Anand Asahi (1/2", Multi-jet) - Rs. 2,000 per Meter

Building Monitor: Rooftop/Liftroom unit that connects to upto 254 Smart Meters

and saves data in the Cloud Server. Rs.30,000 + UPS

Cloud Server: Rs. 50/meter/month

Pulse Meter Tracker:

OPTION 1

- Single Pulse Meter Tracker -Rs.6,000/unit
- 1 unit is connected to each pulse water meter and located alongside
- Upto 30 such units can be connected to a common Cable running from the rooftop unit (single cable with 5 wires : 3 for data and 2 for power)
- Installation takes 6 to 8 weeks

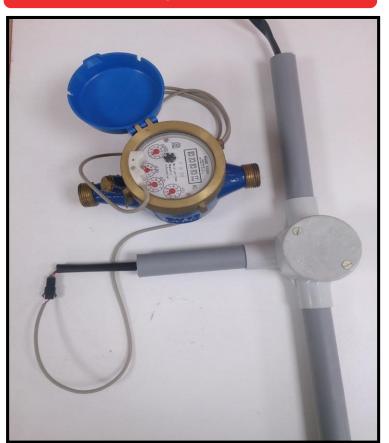
OPTION 2

- Multiplexed Pulse Meter Tracker -Rs.36,000/unit
- 1 unit can monitor upto 12 pulse water meters and can be located upto 90m away
- Runs independent cable with 2 wires for each pulse meter
- Installation takes 4 to 6 weeks

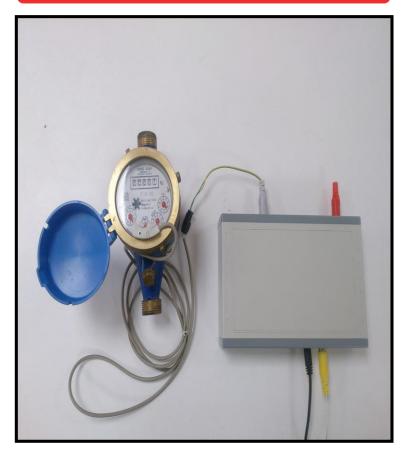


Pulse Meter + Tracker

Option 1



Option 2





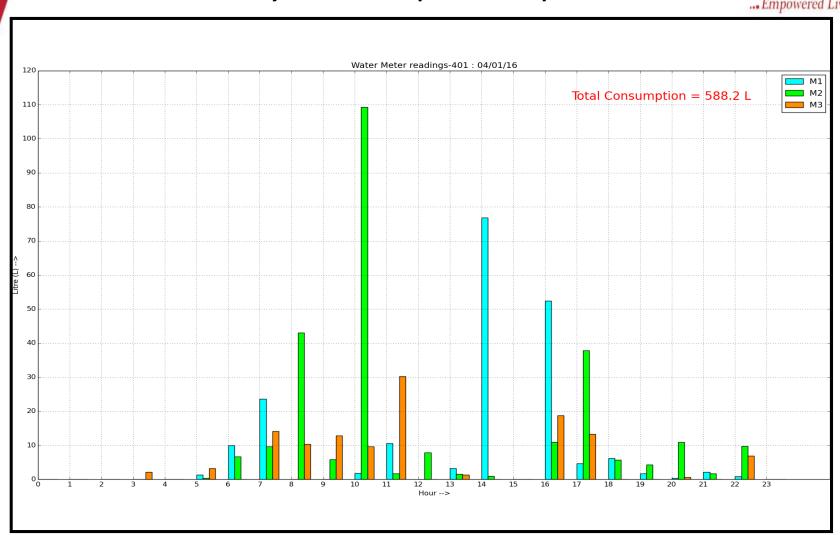


- + UPS
- + Internet Dongle



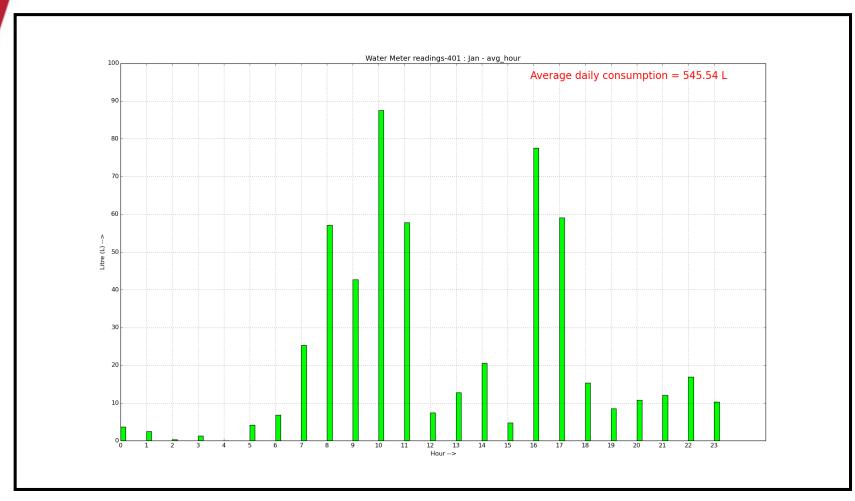


Hourly Consumption Report



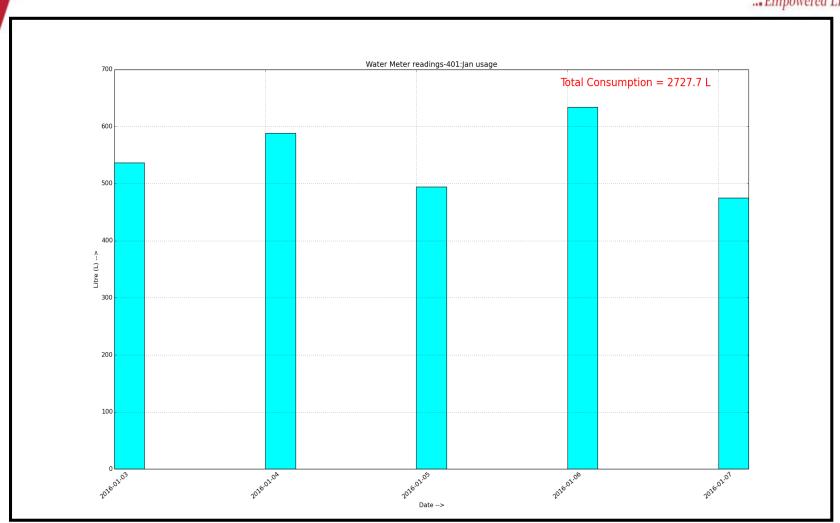


Average Hourly Consumption Report





Total Consumption by Date Report





Benefits of Smart Metering System

- Saves all metering data centrally and provides usage information and reports to all the Occupants and Building Management in Real Time
- Since Meters are fitted by Society/Builder's plumbers at each home inlet, maintenance is easy
- Hidden Leakages and Wastages can be detected in plumbing based on daily data analysis
- Small investment results in major Cost savings for occupants
- WorldofArya team is available for support 24/7

... Empowered Living

Sample Project Costing

- An apartment complex of 50 Homes with 3 inlets each
- Option 2 is implemented
- *Set up costs* are as follows:
 - -50x3 = 150 meters
 - -150xRs.5,000 = Rs.7,50,000 (Rs. 2000 for the meter +
 - 1 Multiplexed pulse meter monitor at Rs.36,000/12 = Rs. 3,000.
 - Rs. 2,000+ Rs. 3,000 = Rs. 5,000)
 - Building Monitor: Rs. 30,000
 - Wires and Pipes at actuals
- Total cost of Metering System is Rs. 7,80,000 + wires and pipes + UPS + Installation + Taxes
- Set up cost: Rs.15,600 approx per Home
- Running Cost: Cloud Rs.7,500 pm + Internet Data Charges for the Building Monitor



Contact: Jahnavi R +91 9964202395 jahnavi@worldofarya.net