

# gnarus Solut!ons

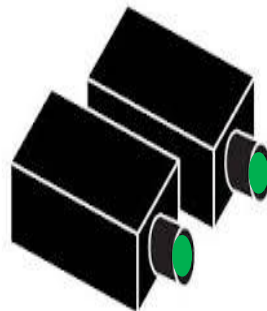
partner of *Global Action on Poverty*  
<http://globalactiononpoverty.org/>



**waterSenz™** — water availability management  
Save Water, Monitor Availability Of Water, Automatic Control of Water Pumps,  
Automate Tanker Supply Request, Enable Periodic Maintenance  
*patent pending*



**motion sensing based lighting**  
Automated Lighting Based On Ambient Conditions, Energy saver

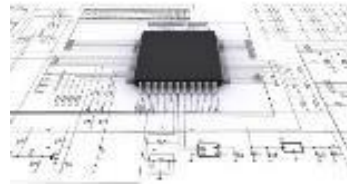
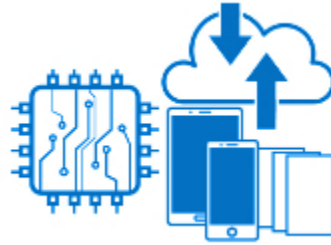


**safeSenz for Mechanical Presses**  
Ensures operator Safety, Provides Visibility To Productivity, Increases Operator Efficiency

# gnarus Solut!ons

## full stack IoT development

Design & Developing of IoT Devices, Cloud & Mobile



## software product development

Custom Product Development, Application Development & Support



## incubation

Partner with Gnarus to co-innovate and or incubate your ideas



services

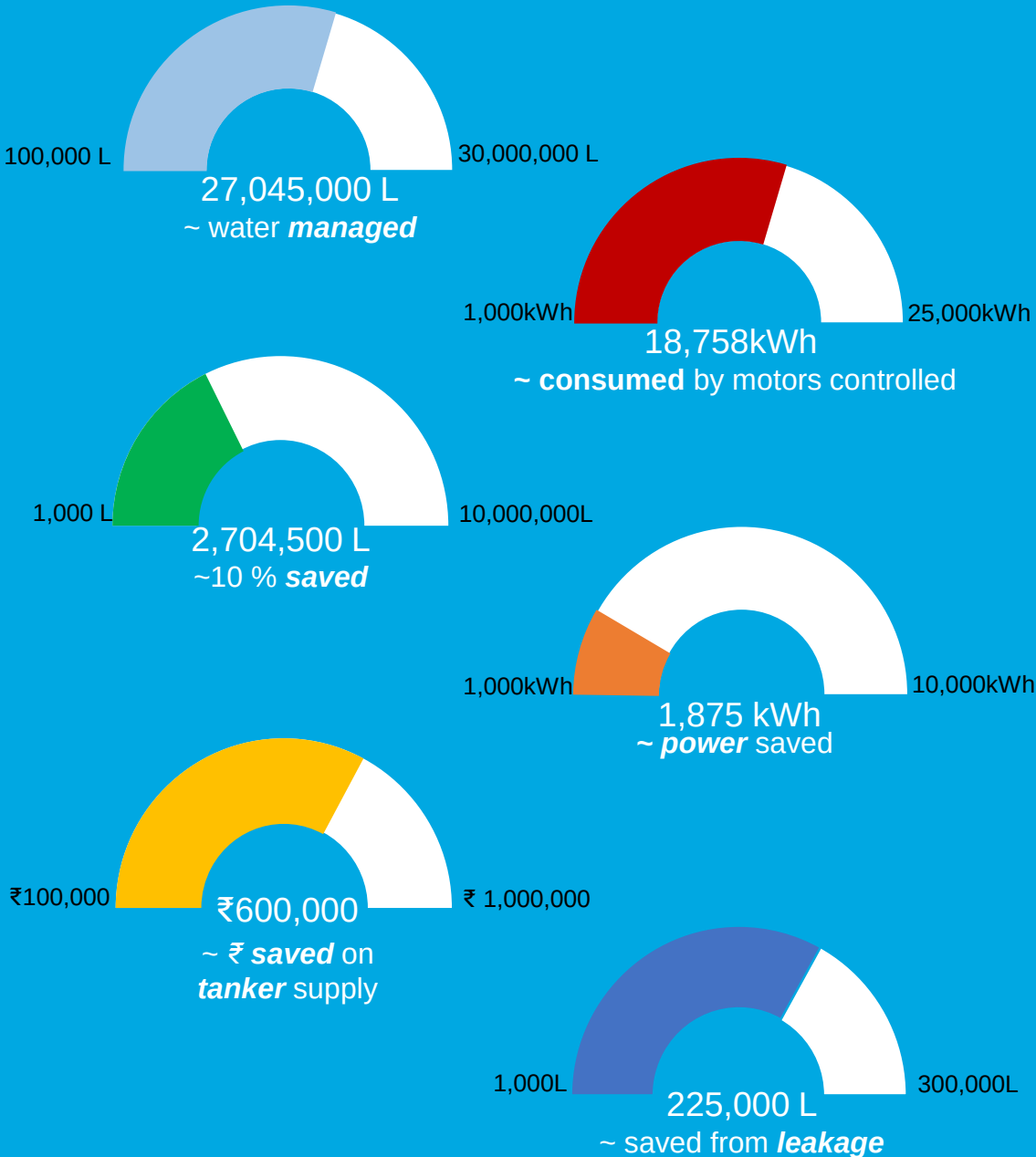
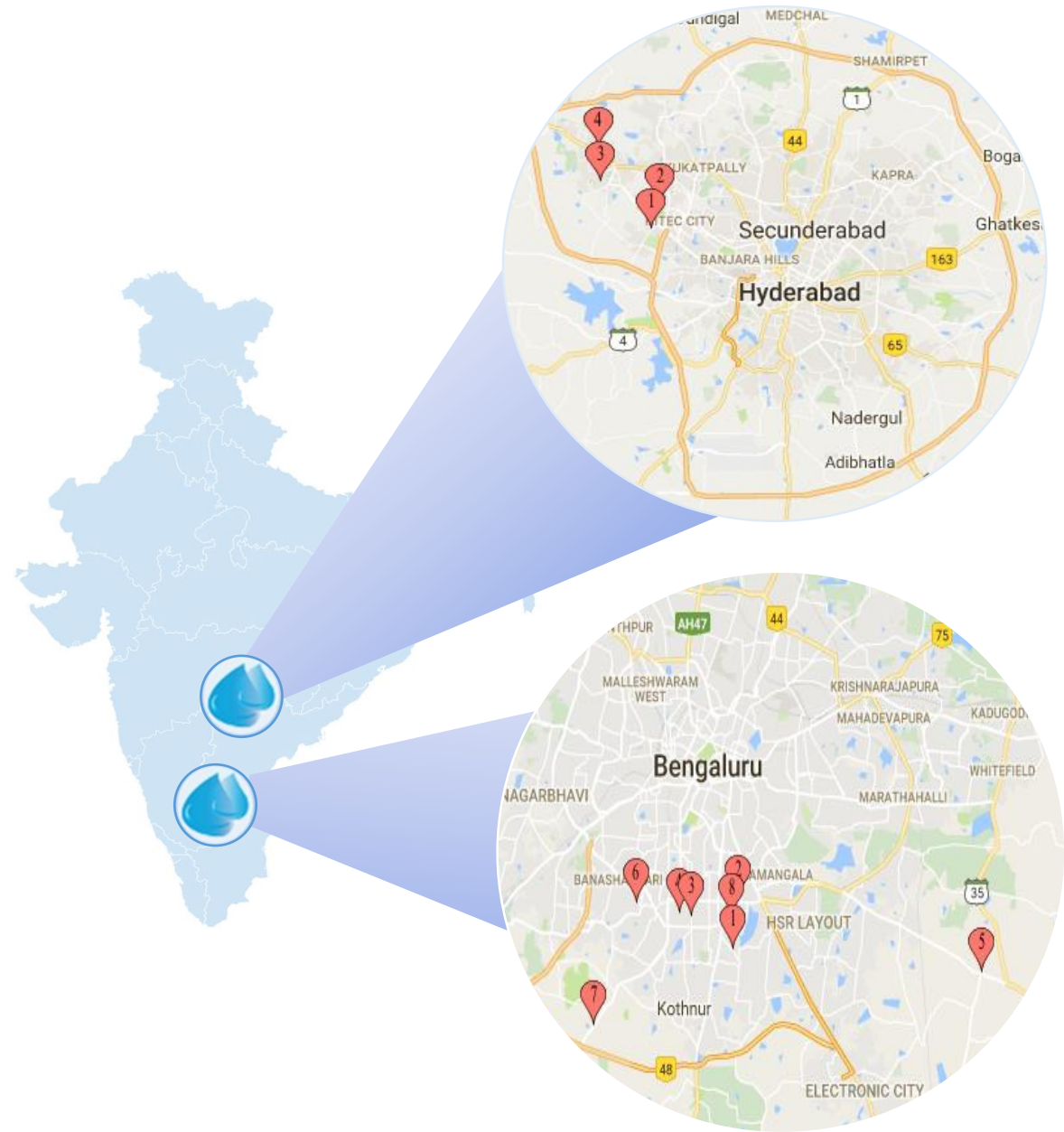
## electronics design

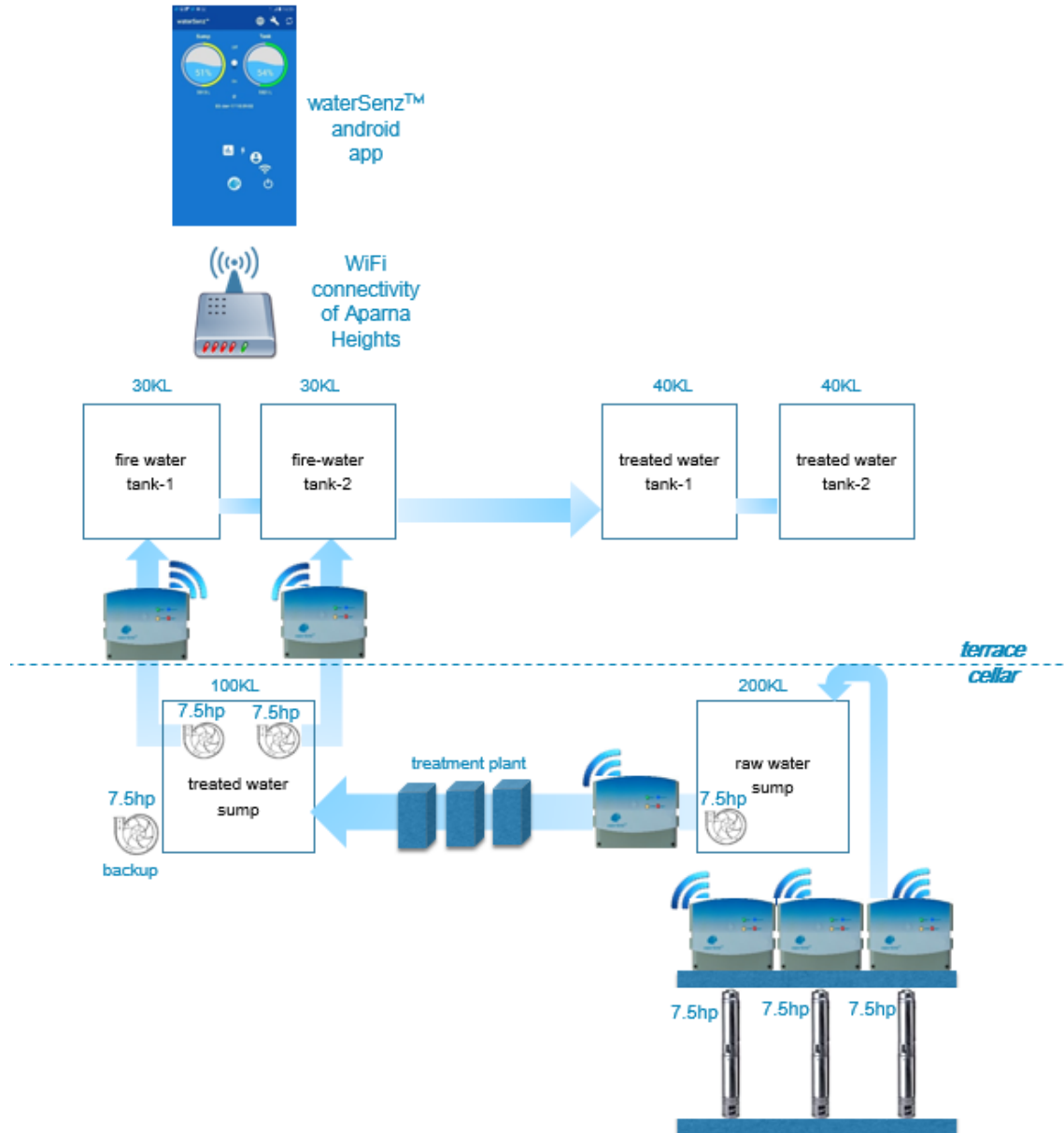
Firmware, Electronics Circuit Design, Pcb Design And Assembly

## mobile apps

Native App Developments For iOS, Android, Windows  
Platform independent apps







an integrated water management solution for small to large residential and commercial complexes. It combines contact-less sensors, wireless connectivity and cloud-hosted software, all orchestrated for simple deployment

## Application:

- Municipal water management solution
- Bore well water management solution
- Sewage water treatment management solution

## Product Variants

- Single device with monitoring and/or controlling unit
- Multi-device monitoring and controlling device (custom designed)



waterSenz™ exhibited in IoTAsia 2017, Singapore

waterSenz™ discussed in IIMB's contemporary concern study "[Internet of Things An Indian Outlook](#)".



Award Nominee - Outstanding Product or System Development in Automation

waterSenz™ featured in Surge 2016, Bengaluru







*\* patent pending*

## waterSenz™ benefits

### operations

automate water pumping

arrest overflows from Overhead tank

optimize power usage for pumping

optimize labour

motor was RUNNING & power fails, waterSenz™ turns-ON the motor AUTOMATICALLY once the power resumes

SCHEDULE motor-run besides automated

optionally, control motor from waterSenz™ Android App

periodic alerts for services such as tank/sump cleaning, motor service, etc.

### monitoring

see water levels near-real-time on waterSenz™ Android App

if you are dependent on water tankers, you will get to know about re-fill need in sump even when you still have 10% reserve

understand approximate water utilization from overhead tank



*waterSenz has made my Mother-in-law's life simple. Every day now she doesn't have worry about switching on the pump and stopping it. Saving water overflow is an added bonus.*

*I love the technology used and the fact that I can check the water consumption analysis on a daily and a weekly basis.*

*Thank you team for making this happens to us*

- Mrs. Lalitha, Cap Gemini, **Australia**

## OUR USERS SAY IT BEST



*I could fill overhead water tank by switching the motor on off with waterSenz app in my phone right from my drawing room. This daily water job made easy. Thanks waterSenz.*

- Mr. Srinivas Rao, Retired from BHEL, **Hyderabad**

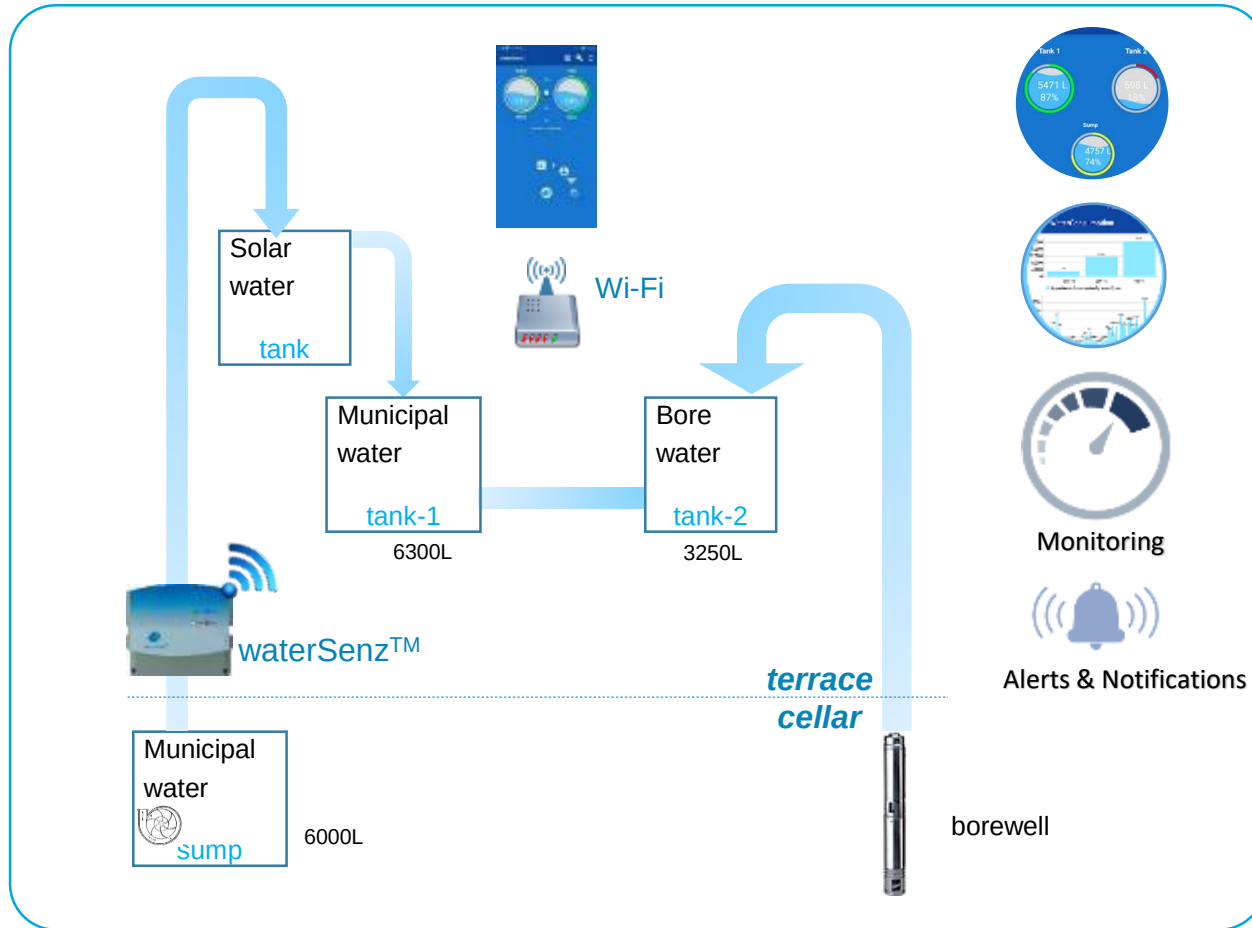
*This is a very unique product first of its kind in India. Our life has become very comfortable after installing this unit as we have now stopped climbing up the ladder to see the level in overhead tank. With the app based monitoring system that waterSenz provides, we can monitor the situation from the comforts of our living or bed room any time of the day and ensure uninterrupted supply.*

*With waterSenz system we are able to monitor the level of water in the sump and take timely action to stop the inflow thereby preventing wastage of precious water.*

*Needless to say, installation of Water Sense has helped us to manage water usage smartly and also to avoid undue wasteful use as well.*

*We strongly recommend all citizens to install Water Sense system and help conserve water*

- Dr P K Ashwini Kumar, IP Attorney, **Bengaluru**



### benefits

- ✓ Visibility to water availability and consumption
- ✓ Consumption patterns by hour/day/month
- ✓ Leak detection & curb water loss
- ✓ Water consumptions reduced to the tune of ~42,000 litres/month
- ✓ Substantial savings in ₹

**Client:** a residential villa at Kondapur near Gachibowli, Hyderabad

### pre-waterSenz™ scenario

- managing water supply and pumping to overhead tanks manually
- no visibility on water consumption
- daily usage of 2,500 litres

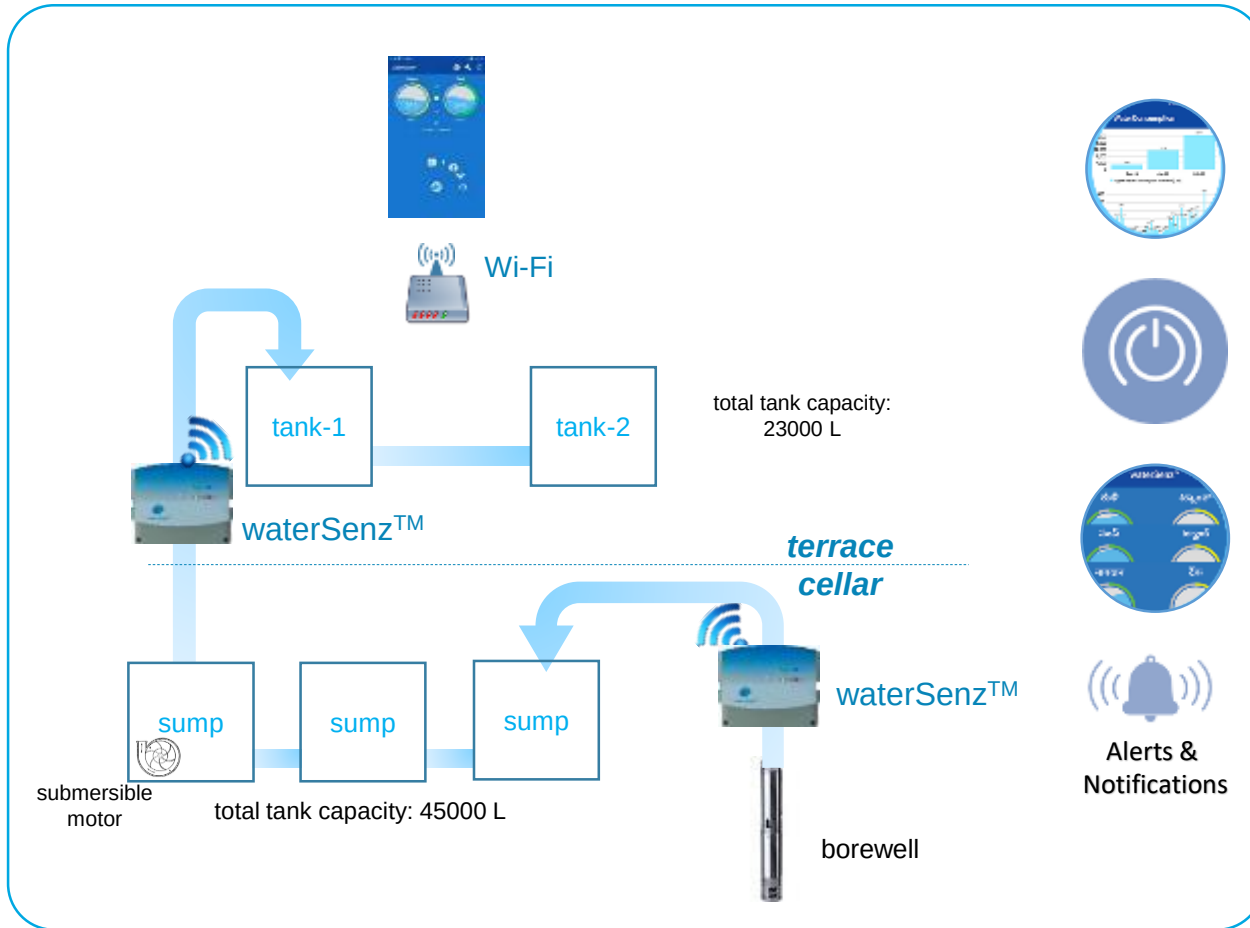
### POST-waterSenz™ scenario

With waterSenz™ **Monitor**, patterns of water Utilization over a period of 2-3 months was observed

- found continued usage of water to an extent of over 500+ L, between 11pm through 6am, when everyone at home were **asleep!**

This triggered a suspicion of water leakage; upon tracing the pipelines, found a leaking joint in their backyard. With fixing this joint

- they were able to arrest the leakage up to 1400L+/day
- reduced monthly billing
- avoided any possible damage to the property



### benefits

- ✓ *Full automation*
- ✓ *Increased availability of water*
- ✓ *Reduced workforce resulting in reduced labour costs*
- ✓ *Overflow control resulting in power and water savings*
- ✓ *Substantial annual savings in Lakhs of ₹*

**Client:** Residential complex in Bengaluru housing 48 flats

### pre-waterSenz™ scenario

The complex obtained water from Municipal Supply, Borewell supply as well as Water Tanker Supply

- in last 9 years, tried other Automatic water level controllers but in vain
- daily water tanker spend Rs.8500/-
- dependency on manual labour to pump water from Bore, Sump to overhead tanks and coordinate Tanker supply
- water overflows from Sump & Tanks

All these leading to loss of water, time and trustworthiness of the operators

### POST-waterSenz™ scenario

- Water management fully automated reducing the labour needs by ~50%
- Residents/representatives could themselves monitor & control the water availability and consumptions
- Overflows in overhead tanks and sumps were arrested, resulting saving of water
- Zero Tanker water usage
- Significant ₹ savings in maintenance expenses

water is PRECIOUS  
let's join hands to  
make every drop of water COUNT



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