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An Exclusive interview

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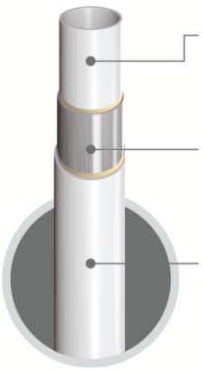

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MY PAGE

Dear Friends,

We are now at the midpoint of the year, and the first half has been both eventful and successful for all of us at IPA. From the vibrant celebration of **World Plumbing Day** to a remarkable **Plumbex** event at Pragati Maidan, Delhi, we've had an exciting journey so far. Now, we look forward to the upcoming **Indian Plumbing Professional League (IPPL)**, which will be conducted across India.

This year marks the **9th edition of IPPL**, and we're pleased to announce a significant collaboration with the **National Skill Development Corporation (NSDC)**. Participants who successfully clear the assessment will receive an NSDC certification — an added value to their professional journey. With the active involvement of IPA chapters and the support of esteemed supporting organizations from the building industry, I'm confident that participation will be greater than ever.

IPA is proud to be part of the **'Ek Ped Maa Ke Naam'** initiative launched by our Honourable Prime Minister Shri Narendra Modi, through the Ministry of Environment, Forest and Climate Change. We believe that a **'Viksit Bharat' (Developed India)** must also be a **'Harit Bharat' (Green India)**. IPA is proud to contribute to this national cause of contributing towards the conservation of mother nature, aligning sustainability with our professional mission.

While the monsoon is expected to be above average and nature may not pose a water crisis this year, human-driven factors still demand attention. We must act on two fronts: implementing water-saving technologies and spreading awareness across society.

In this spirit, IPA will once again host the **IPA Neerathon–The Water Awareness Festival**, which has gained momentum over the last two years. We have planned five IPA Neerathons starting September 2025, in various cities, to continue championing water conservation among the general public.

This edition of our publication is focused on the theme: **"Advanced and Efficient Pumping Systems."** It features a range of insightful articles covering 24x7 water supply systems, remote monitoring technologies, water distribution system zoning case studies and more. We hope you find these resources informative and valuable in your work.

As we look ahead, our upcoming editions–from **September 2025 to January 2026**–will explore fascinating themes including **Swimming Pools, Hot Water, Building Automation, Drainage, and the Modern Bathroom**. Detailed information on themes is available in latter pages of this issue. I warmly invite you to contribute to these issues by sharing your articles and case studies. Your insights and experiences can help shape the conversation and bring these topics to life for our readers.

Join us in making these editions truly exceptional–submit your contributions, and stay tuned for innovative and thought-provoking content ahead!

Warm regards,

Rahul Dhadphale
IPA Regional Director, South
Editorial Board Member

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Enhancing Efficiency and Water Conservation in High Rise Buildings through Water Distribution Zoning

-Nikhil Tambade

Introduction

Water is a fundamental necessity for life, economic development, agriculture, and industrial activities. An efficient and reliable water distribution system is critical to ensuring safe and sufficient water delivery to homes, institutions, and industries. A water distribution system refers to the network of pipelines, valves, storage facilities, and pumps used to deliver water from the source or treatment facility to consumers.

The primary goals of any water distribution system include:

- Providing sufficient quantity of water to consumers.
- Maintaining water quality from source to tap.
- Ensuring adequate pressure at all delivery points.
- Achieving operational efficiency with minimal losses.

The performance of a water distribution system heavily depends on its design, type, and the pumping mechanisms used. Various system configurations exist, each suited to different topographies, population densities, and resource availability. This write-up explores the major types of water distribution systems, their components, and the role of pumping systems in water supply infrastructure.

Types of Water Distribution Systems

Water distribution systems are generally categorized based on the method of water delivery and pressure maintenance. The major types include:

- **Gravity System**
- **Pumping System**
- **Combined Gravity and Pumping System**

Each system has unique advantages and is selected based on terrain, cost, and operational requirements.

For all types of water distribution systems, Zoning is very essential.

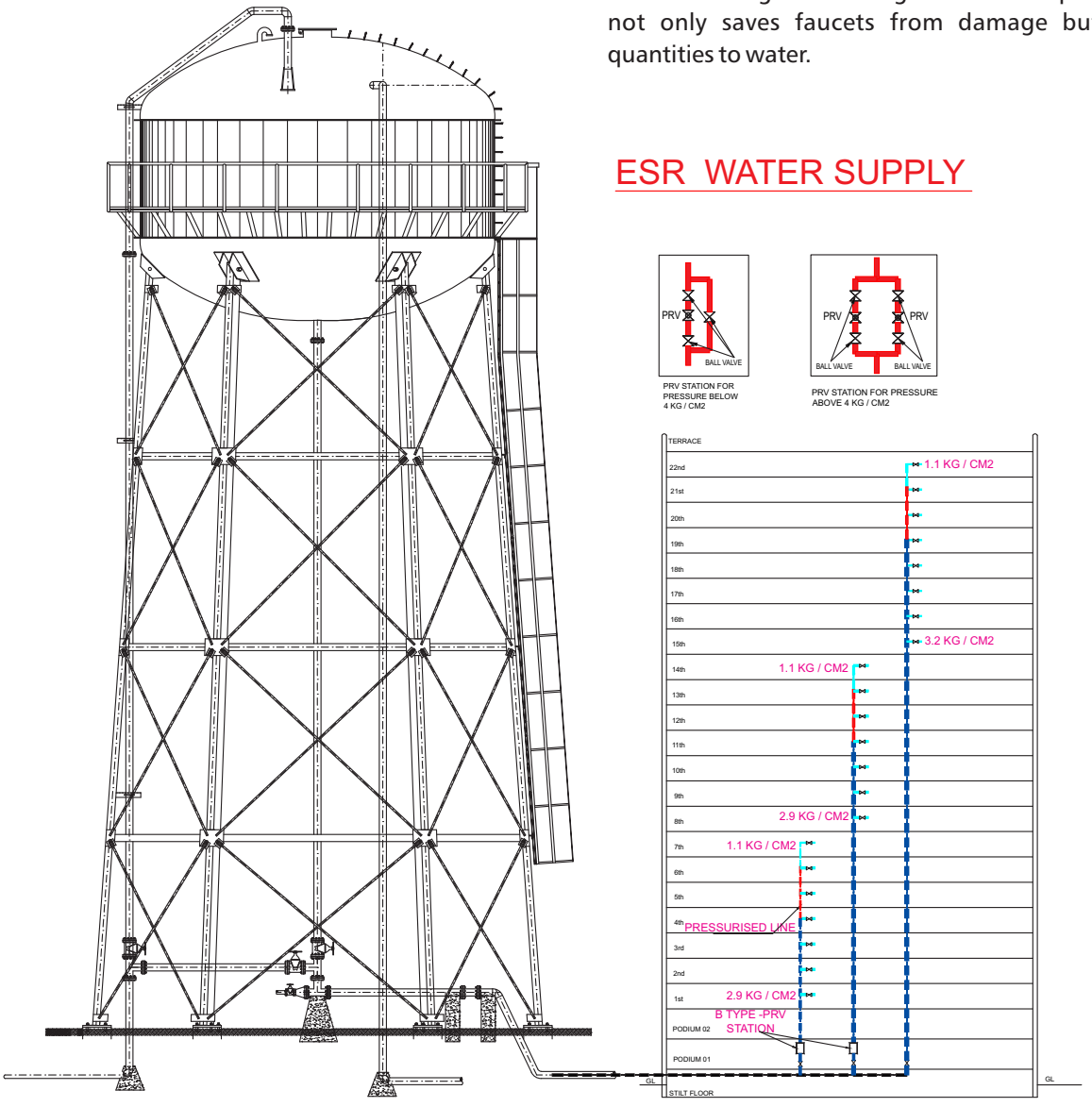
What is Zoning?

Zoning in plumbing for high-rise buildings divides the building into distinct zones, which plays a crucial role in optimizing water distribution, managing pressure, and ensuring efficient plumbing systems in tall structures. As we go high rise, zoning becomes important as far as the water supply network is concerned. This is for two reasons:

1. To control the pressure between minimum required and maximum allowed.
2. Number of connections on a particular down take. (NBC allows a maximum 7 to 9 connections depending on floor to floor height.)

Benefits of Zoning in High-Rise Plumbing:

1. **Water Conservation:** Zoning prevents unnecessary water wastage because of unnecessarily higher pressure. High pressure means high velocity and resultant is higher discharge. Controlled pressures not only saves faucets from damage but also quantities to water.

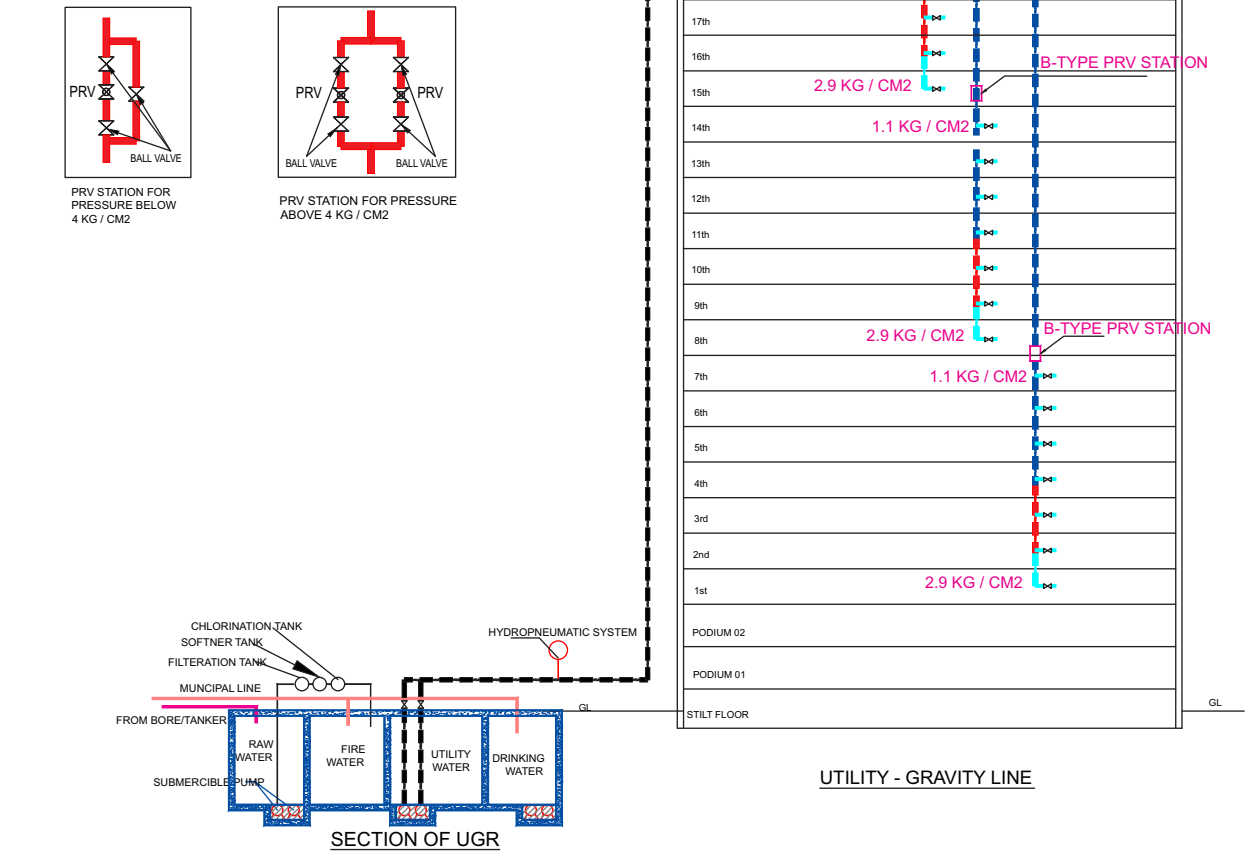


2. **Emergency Isolation:** In case of plumbing emergencies or repairs, zoning allows you to shut off specific zones without affecting the entire system.
3. **Customized Comfort:** Zoning enables personalized temperature and pressure control in different zones if needed.
4. **Energy Efficiency:** By avoiding overuse of water and energy, zoning contributes to overall efficiency.
5. Zoning enhances both functionality and convenience in plumbing systems for high-rise buildings.

Gravity Distribution System

Principle of Operation

In a gravity system, water is supplied from a source or elevated reservoir placed at a higher elevation than the service area. Water flows through the distribution network due to gravitational force, eliminating the need for pumping mechanisms.



Use Cases

This system is ideal for hilly regions or where natural elevation provides sufficient head for distribution.

ESR distribution

- Water can be supplied from Common ESR to multiple buildings.
- Every building will either have a separate OHT which will supply water to respective building or direct water supply to the consumption points.
- Water distribution- through pipes generally located on the terrace through gravity (down feed)

Down-Feed Zones:

- In down-feed zones, water is supplied from higher levels to lower floors. In this kind of system, upper 2

to 3 floors can't get minimum required pressure by gravity and therefore a pressure boosting system is provided for top two to three floors. For lower zones PRV stations are provided once the maximum allowable pressure is reached. The PRV station is usually located at middle levels and proper approach to this PRV station is to be planned.

Advantages

- More energy-efficient than full-time pumping systems.
- Ensures continuous supply even during pump maintenance (as tanks store water).
- Provides better pressure management and operational flexibility.
- Low operational cost due to no energy consumption for pumping.
- Minimal mechanical maintenance.
- Reliable and continuous water supply when elevation is favourable.

Disadvantages

- Initial capital cost is high due to the need for both pumping infrastructure and elevated storage.
- Requires space for constructing elevated tanks or reservoirs.
- Slight delay in water delivery due to storage-fill cycles.
- Dependent on favourable topography.
- Requires large elevation differences for sufficient pressure.
- Limited flexibility in flat or low-lying areas.

Use Cases

Widely used in:

- Urban residential schemes.
- Large institutional or industrial setups.
- Mixed terrain areas where pumping alone would be inefficient or costly.

Pumping Distribution System

Description and Principle of Operation

- A pumping distribution system relies on mechanical pumps to move water from a lower elevation source (like a river, lake, or underground reservoir) to consumers. In this configuration, pumps supply the necessary pressure to push water through the pipelines to different parts of the distribution network.
- Unlike gravity systems, pumping systems do not depend on elevation and are often used in flat terrains or where water must be lifted to considerable heights. This system requires a continuous power supply and careful operation to prevent issues like over-pressurization or water hammer.

Hydro-Pneumatic system

- Water is pumped directly into the distribution system without the aid of any OHT.
- An airtight pressure vessel is installed on the line to regulate the operation of the pumps.
- The pressure switch installed in the pressure vessel/tank switches off after reaching the predetermined pressure when the operating pump is put to stop.
- This system eliminates the need for an OHT and supplies water at a designed pressure resulting in fairly even distribution of water on all floors.
- The system requires a constant and reliable supply of power / backup.
- Power failure – the breakdown of the water supply system (in absence of backup).

Up-Feed Zones: These zones supply water from lower levels to higher floors. The pressure-reducing valve (PRV) station is typically installed on lower levels, and water is up-fed to upper floors. This is the water supply by hydro pneumatic system from UGT directly to taps, in this system you can either have a single hydro pneumatic system giving minimum required pressure to hydraulically remotest points and different zones will be controlled by providing appropriate pressure reducing valves on each zone at the ground level. Or you can have multiple Hydro-Pneumatic Systems for different zones to avoid high pressure at any point of time.

Components of a Pumping System

- **Pump station:** Houses the mechanical pumps.
- **Control valves and sensors:** Used to regulate flow and monitor system health.
- **Standby power systems:** Ensure continuity of service during power outages.
- **Pressure relief devices:** Protect against excessive built-up pressure.

Advantages

- Can supply water regardless of elevation or terrain.
- Allows for precise control of flow and pressure.

- Suitable for areas where elevation differences are minimal.
- Eliminates extra costs of tanks.
- Efficient use of space, no need for large rooftop tanks.
- Avoid the risk of OHT failure in high seismic zones.
- Controlled water pressure (safe pressure zone)
- Reduction of pipe work and cost of pipe for and from tanks.
- Risk of bacterial pollution is reduced and quality of water is preserved.

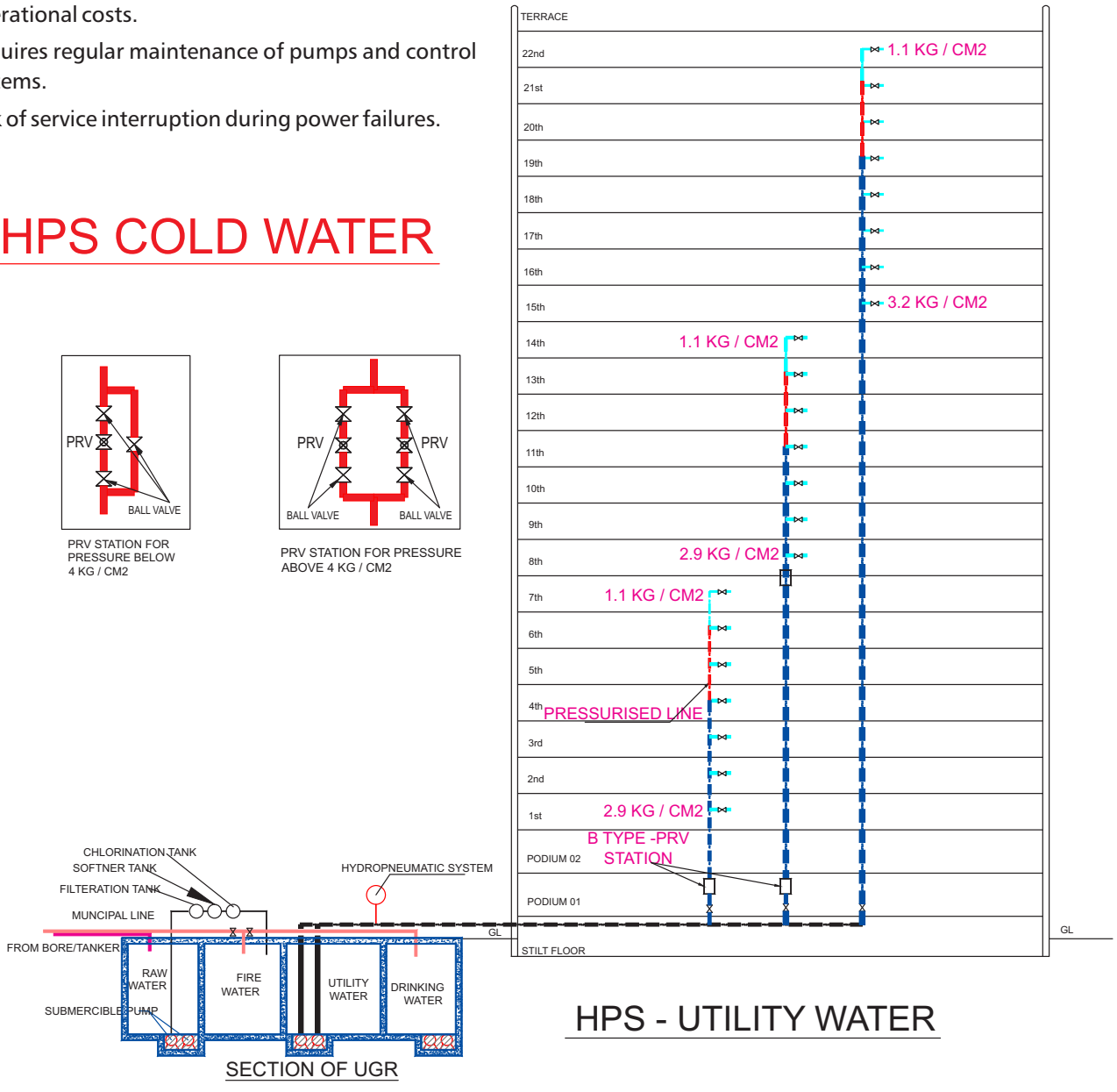
Disadvantages

- High energy consumption, leading to increased operational costs.
- Requires regular maintenance of pumps and control systems.
- Risk of service interruption during power failures.
- Water supply can be affected in case of power interruptions.
- Flow rate may affect during peak load.
- In case of repairs / maintenance entire water supply needs to be stopped.

Use Cases

Pumping systems are commonly used in:

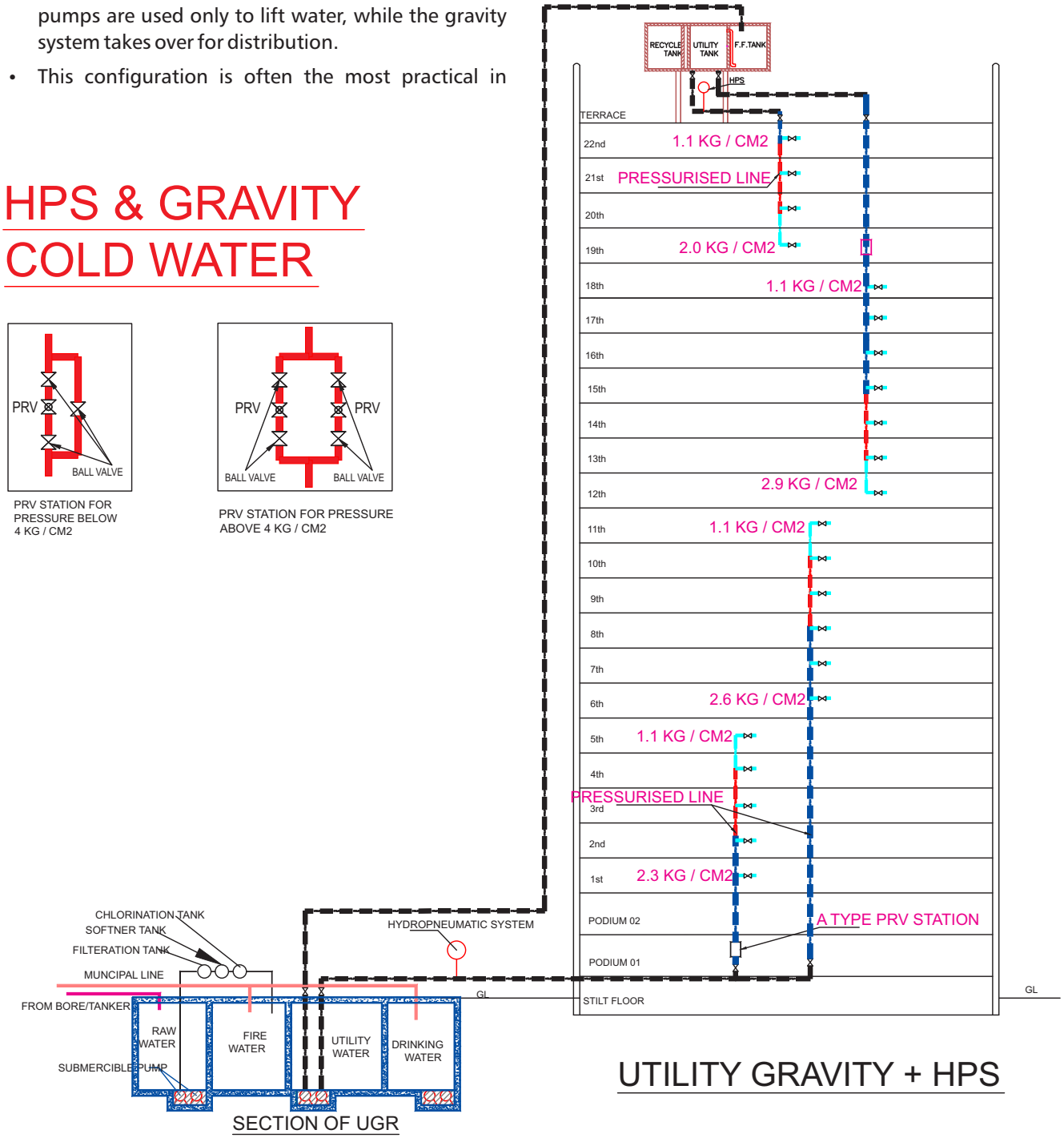
- Urban and industrial areas located on flat lands.
- Regions where the water source is below the distribution area.
- Emergency or supplemental systems in conjunction with gravity systems.



Combined Gravity and Pumping System

How It Works

- In this hybrid system, two zones are created namely upper and lower zone. Water is pumped to an elevated reservoir or overhead tank, and then distributed to consumers by gravity in upper zone. For the lower zone water is supplied by direct pumping system. This approach combines the strengths of both gravity and pumping systems. The pumps are used only to lift water, while the gravity system takes over for distribution.
- This configuration is often the most practical in modern cities, where continuous water pressure safety and reliability are essential.
- **Combination Zones:** Some buildings use a combination of up-feed and down-feed zones. In this kind of system, we divide the building into two sections. Bottom section is to be supplied by HPS installed at UGT and the upper section is provided by a gravity supply field from OHT.

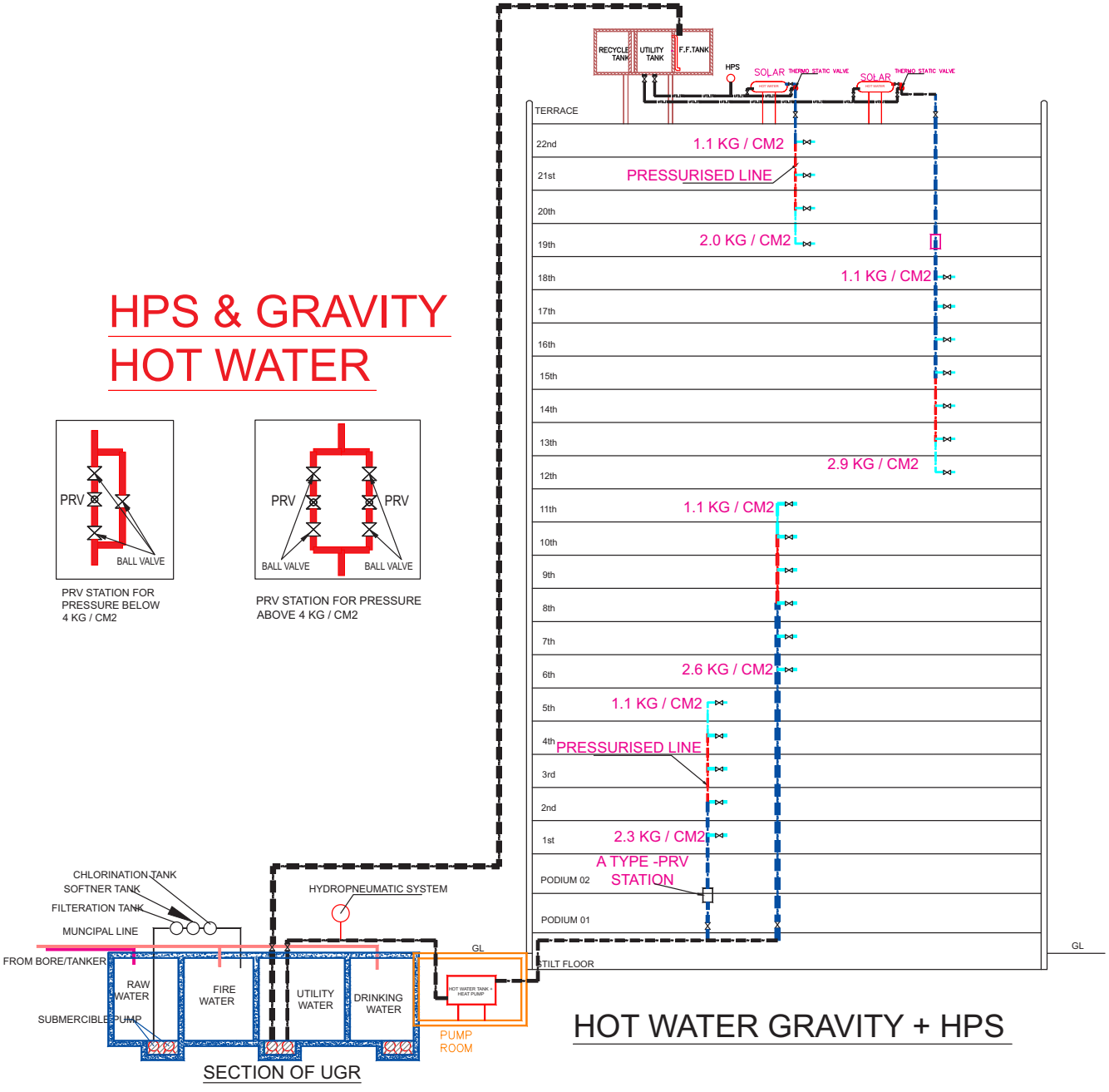


Advantages:

- **Most efficient:**- By integrating both Up- feed and Down-feed water supply system we can save on maintenance and repair expenses. Most cost effective as no duplications as in separate systems.
- **Safe:**- water pressures are always in safe pressure zones reducing any accidents.
- **Flexibility:**- Modification is easy due to combination of different water supply network systems.
- **Saves Space:**- space required in Ducts are lesser than individual separate water supply systems.

Disadvantages:

- Requires more space in the Pump room at UGR level / Basement. (Even space for centralised hot water system in basement or ground)
- Increases maintenance. (No of pumping systems are more)



Operational Considerations

To ensure long-term performance, pumping systems must be operated and maintained efficiently:

- Routine inspection and servicing of pumps and motors.
- Monitoring power consumption and flow rates.
- Managing pump startup and shutdown sequences to prevent water hammer.
- Keeping spare parts in stock and maintaining technical documentation.

Conclusion

Water distribution systems are the backbone of any functional and healthy society. Whether for domestic use, agriculture, industry, or firefighting, an efficient and reliable water supply network is essential. As explored in this write-up, there are various types of water distribution systems—gravity, pumping, and combined gravity-pumping systems—each with distinct advantages suited to different geographic and operational contexts.

Key Takeaways:

- Gravity systems are cost-effective and energy-efficient but depend on favourable topography.
- Pumping systems provide flexibility and are essential in flat or low-lying regions, though they require continuous energy input and technical maintenance.
- Combined systems leverage the strengths of both gravity and pumping methods, providing reliability and efficiency, especially in urban or mixed-terrain environments.

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Senior Consultant
Urjal Consultants Pvt. Ltd.

Nikhil Tambade possesses 13 years of Experience in Plumbing Design. He is working with Urjal Consultants Pvt Ltd, a piping and plumbing and water management consultancy firm based in Pune which has accomplished 1500+ consultancy projects. Nikhil Tambade possesses a B.E. (Mechanical) from Ahmednagar and a PG (Piping) from Pune. He can be reached on nikhil@urjalconsultants.com

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Water Infrastructure Management through Remote Monitoring System for Pumping Systems

- Shafik Shaikh

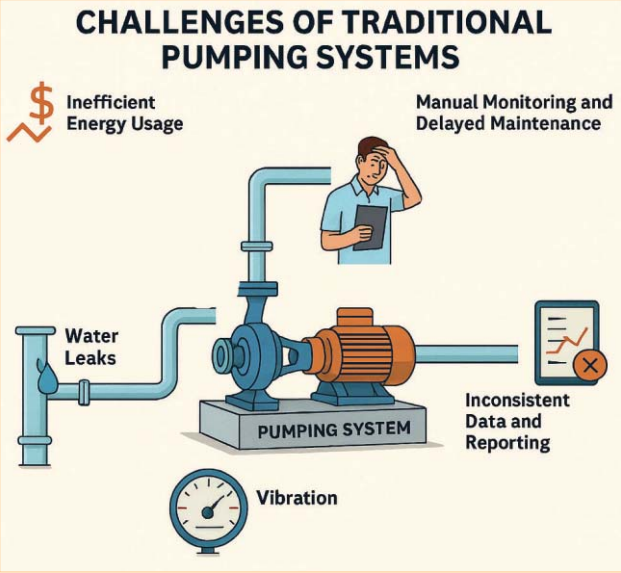
Defining the Problem

India's urban infrastructure is under increasing pressure due to rapid population growth and urbanization. Water distribution systems, particularly pumping systems, are critical to ensuring a reliable water supply in residential, commercial, and industrial sectors. However, these systems face numerous challenges.

The construction industry, being the second largest in India after agriculture, has witnessed a transformation in the scale and complexity of projects. Townships have evolved from small societies with 2–3 towers to vast developments comprising multiple societies, each with its own set of infrastructure. This expansion has made it increasingly difficult for facility managers to monitor and maintain pumping systems for plumbing, fire safety, HVAC, and drainage across these large areas.

Urban areas in India now account for nearly 50% of the country's domestic water consumption, despite housing only about 35% of the population. The average water consumption per person in Indian cities ranges from 135 to 200 litres per day. Approximately 50% of urban households rely on groundwater, and with over 10 million people added to urban populations annually, the pressure on water infrastructure is intensifying. Moreover, urban water systems suffer from 30–40% non-revenue water losses due to leakages, theft, and inefficient monitoring.

Traditional monitoring methods rely heavily on manual inspections and reactive maintenance, which are not only time-consuming but also prone to human error.



Challenges in Traditional Pump Monitoring:

1. Inefficient Energy Usage

- Pumps operate during low-demand periods or at inefficient speeds.
- High electricity bills due to over-pumping or poor scheduling.
- No visibility into energy consumption trends or opportunities for optimization.

2. Manual Monitoring and Delayed Maintenance

- Facility managers depend on physical inspections, which are labour-intensive, especially in large townships.
- Susceptible to human error and inconsistent record-keeping.
- Maintenance is reactive, leading to delays and increased wear and tear.

3. Inconsistent Data and Reporting

- Inaccurate or missing data on pump performance and energy usage.
- Difficulty generating reports for audits, compliance, or performance reviews.
- Lack of historical trends to support data-driven decision-making.

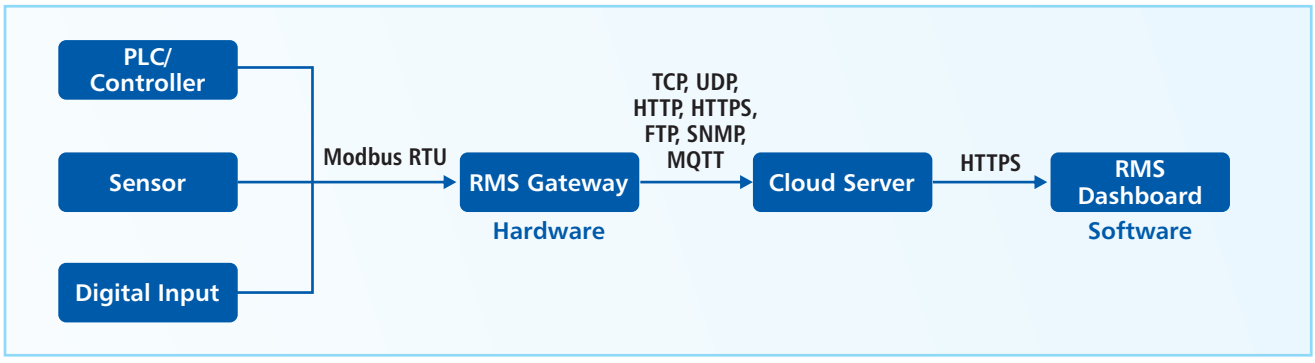
Introducing: A Smart Remote Monitoring Solution

A Remote Monitoring System (RMS) is designed specifically for the Indian plumbing and water management ecosystem. It integrates IoT, cloud computing, and AI to deliver a comprehensive solution for pump monitoring. RMS allows facility managers to monitor, analyses, and manage pump operations remotely, enhancing efficiency, reliability, and maintenance planning.

Why Remote Monitoring Systems?

A Remote Monitoring System addresses these challenges by offering a proactive, data-driven approach to pump management. Key benefits include:

- **Real-Time Data Access:** Operators can monitor pump performance, flow rates, pressure levels, and energy consumption from anywhere.
- **Predictive Maintenance:** RMS detects anomalies and alerts technicians before a failure occurs, reducing downtime and repair costs.
- **Operational Efficiency:** Analyzing usage patterns helps optimize pump schedules, reducing energy consumption and extending equipment life.
- **Water Conservation:** Early detection of leaks and inefficiencies minimizes water loss.
- **Compliance and Reporting:** Automated data logging simplifies regulatory compliance and performance reporting.



Block Diagram

Key Features

1. IoT-Enabled Sensors

- Monitors pressure, flow, current, pump on/off status, running hours, and energy consumption.
- Compatible with both new and legacy pump systems.

2. Cloud-Based Dashboard

- Real-time visualization of pump performance.
- Customizable alerts via SMS, email, or app notifications.

3. Predictive Analytics Engine

- Uses machine learning to forecast potential failures.
- Recommends maintenance schedules based on usage patterns.

4. Remote Control Capabilities

- Start/stop pumps remotely.
- Adjust operational parameters based on demand.

5. Mobile App Integration

- Access system data on-the-go.

6. Energy Optimization Module

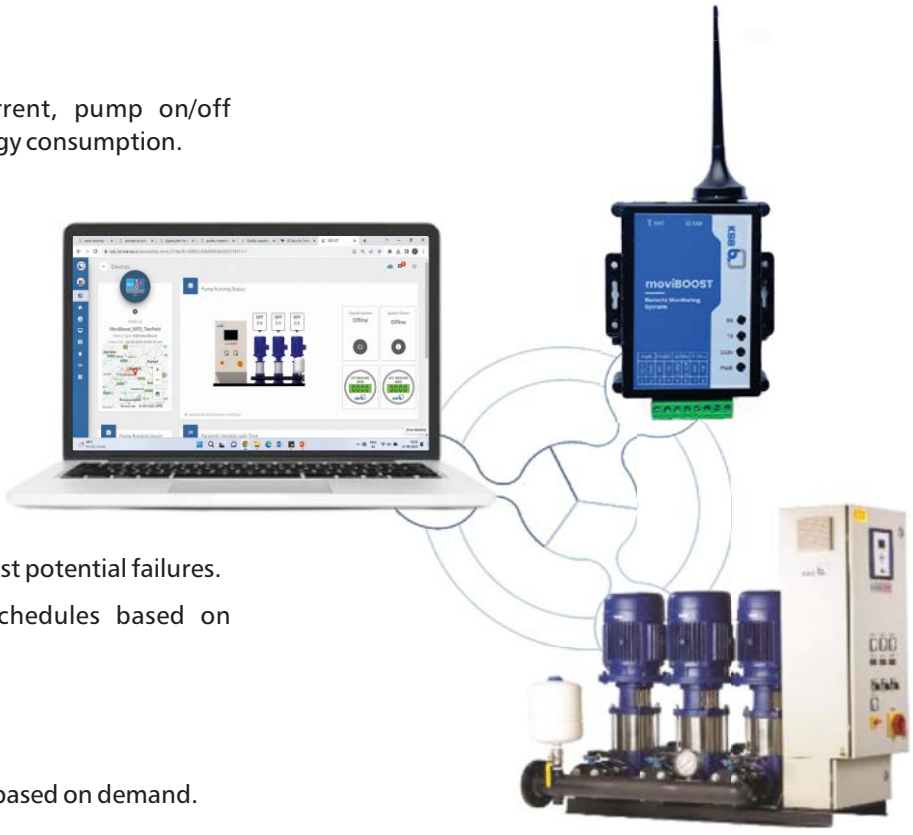
- Identifies inefficiencies and suggests corrective actions.
- Tracks energy savings and ROI over time.

7. Secure & Scalable Architecture

- End-to-end encryption for data security.
- Scalable from single-building setups to city-wide networks.
- Local backup for up to 17,000 records in case of network outages.

8. 24×7 Real-Time Monitoring

- Continuous monitoring ensures uninterrupted system performance.



Architecture Overview of a Remote Monitoring System (RMS)

A Remote Monitoring System comprises several interconnected layers that provide real-time visibility, control, and optimization of pumping infrastructure:

1. Sensing Layer (Field Devices)

- **IoT Sensors:** Measure parameters like pressure, flow, temperature, vibration, and energy usage.
- **Actuators & Controllers:** Enable remote control of pump operations.

2. Data Acquisition & Local Processing

- **Gateways:** Collect and process data from multiple sensors before transmitting to the cloud.
- **Local Storage:** Buffers data in case of network outages.

3. Communication Layer

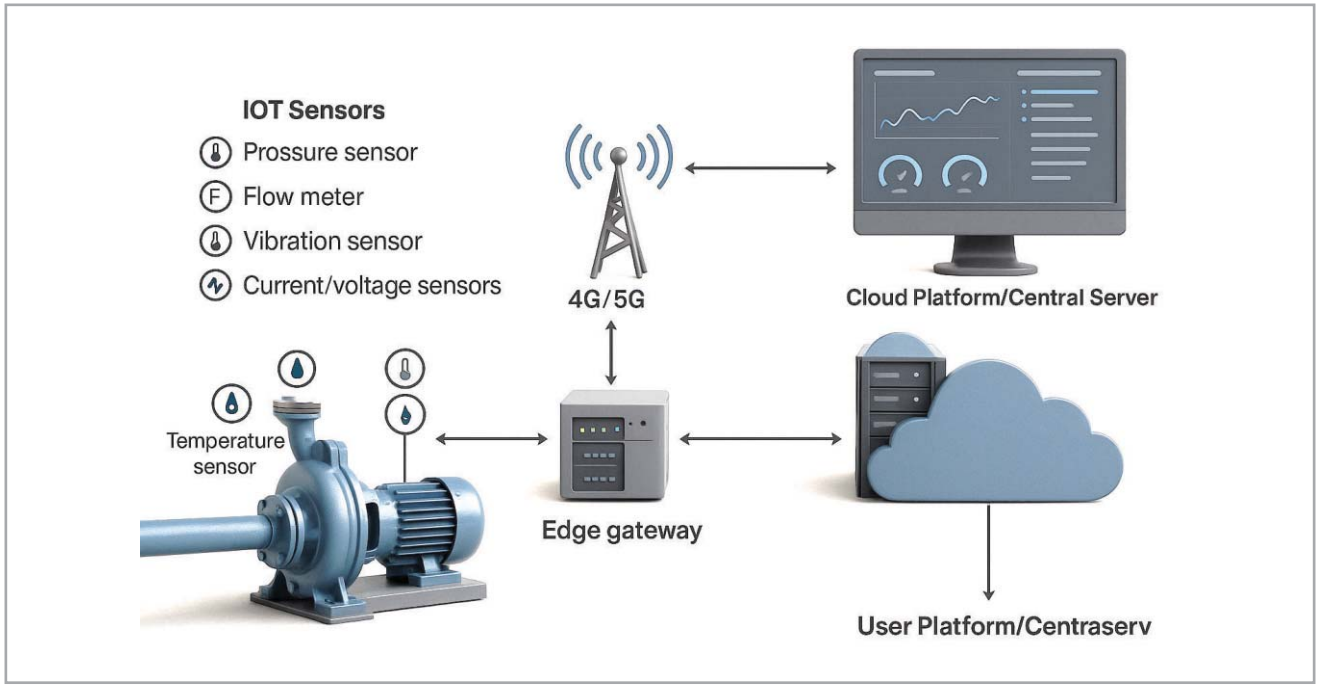
- **Connectivity:** Uses Wi-Fi, 4G/5G, LoRaWAN, or Ethernet to transmit data.
- **Security:** Encrypted channels ensure data integrity and privacy.

4. Cloud Layer (Data Management & Analytics)

- Centralized data storage and management.
- AI/ML-based analytics for performance optimization.
- APIs for integration with other systems.

5. Application Layer (User Interface & Control)

- **Web Dashboard:** Real-time visualization and control.
- **Mobile App:** On-the-go monitoring and alerts.
- **Reporting Tools:** Compliance reports and performance logs.



Architecture Overview of a Remote Monitoring System (RMS)

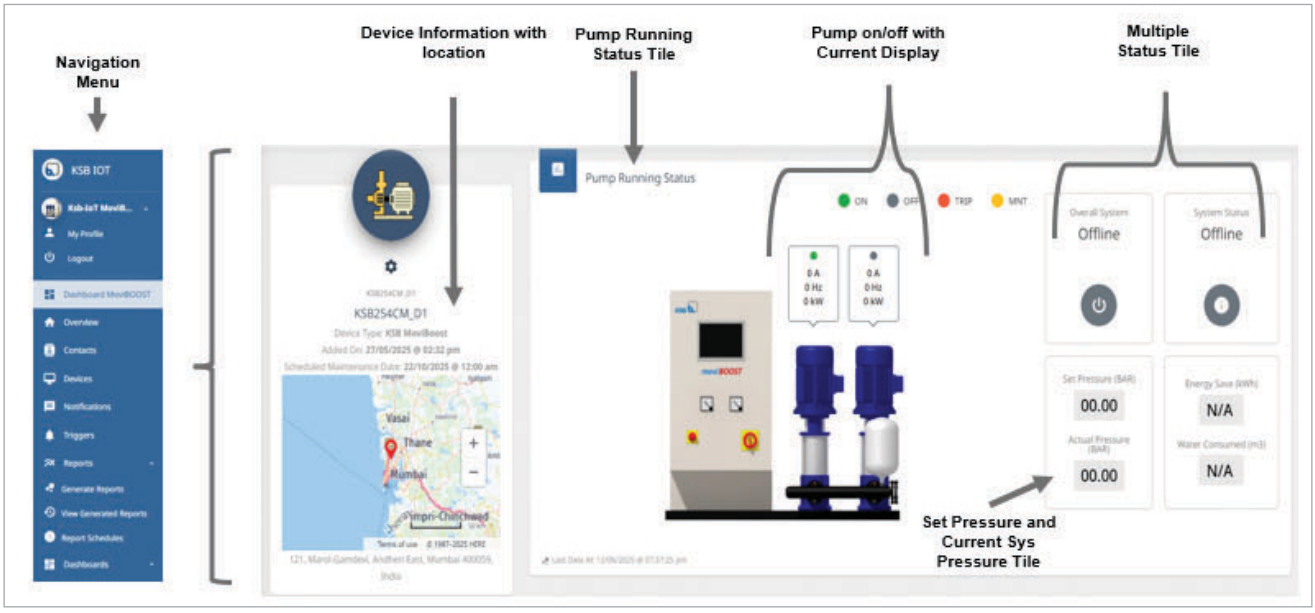
Components of RMS

1. Hardware: RMS Gateway

- Collects data from PLCs/controllers/sensors and transmits to the server.
- Physical Interfaces: 2 Power Supply Channels, 2 Modbus RS485 Channels, 2 Analog Input Channels (4-20mA).
- Protocols: Modbus RTU (RS485, TCP/IP), supporting up to 200 meters.
- Supports up to 4 pressure-boosting systems per gateway.
- Network Protocols: TCP, UDP, HTTP, HTTPS, FTP, SNMP, MQTT.
- Data Backup: Stores up to 17,000 records for 5 days at 30-second intervals.

2. Software: RMS Dashboard

o Displays key parameters: system status, flow, pressure, current, and location.



CONCLUSION

As India advances toward smart cities and sustainable infrastructure, the adoption of Remote Monitoring Systems (RMS) has become essential. By enhancing the reliability, efficiency, and transparency of pumping operations, RMS not only reduces operational costs but also aligns with the broader objectives of water conservation and intelligent urban growth.

More than just a monitoring tool, RMS transforms traditional pumping systems into intelligent, proactive infrastructure components. With capabilities ranging from real-time data access and predictive maintenance to energy optimization and compliance reporting, RMS is a powerful enabler of smarter water management.

In essence, RMS elevates pumping systems from reactive operations to proactive, intelligent infrastructure.

Shafik Shaikh
Manager, Business Development, KSB Limited

Shafik Shaikh has 14+ years of experience in Pumps Industry with a proven expertise in market analysis, strategic partnerships, driving business growth and innovation.

He holds an MBA (Business Development) and a bachelor's degree in mechanical engineering, from Pune University.

For more insights on this article please get in touch with him on shafik.shaikh@ksb.com

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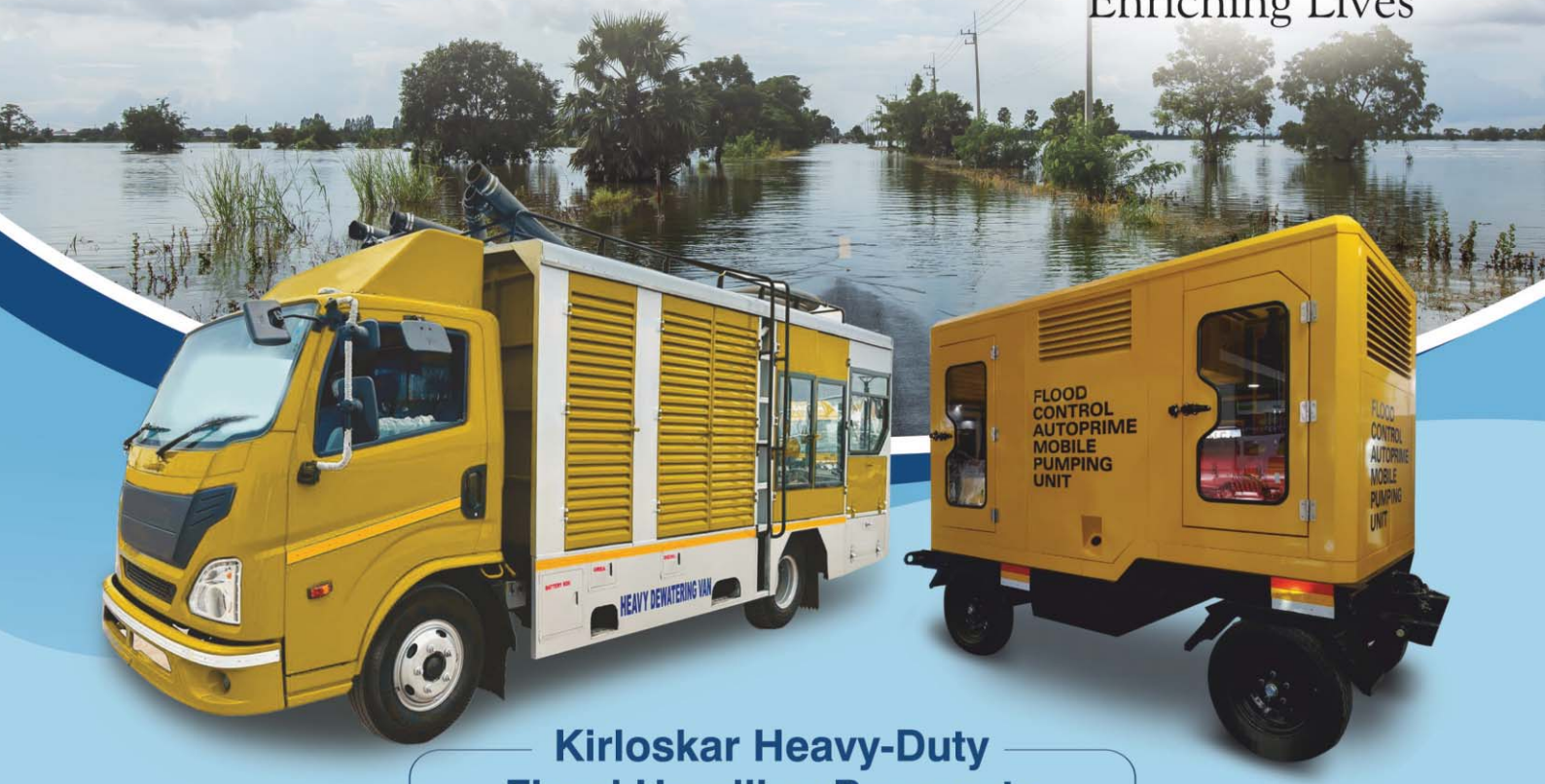

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Why It's Time to Rethink Wastewater Design in Commercial Buildings

-Krishna Kumar

A waste water system is not the most visible part of a building — but when it fails, everyone notices.

Walk into any modern commercial building—an office tower, a hospital, a luxury hotel—and you'll be struck by its polished aesthetics, the seamless design of its interior spaces, and the sophisticated technologies that run it. Everything appears to work in harmony. But hidden behind that visual perfection lies a system that most people never see and even fewer talk about: wastewater and drainage, that rarely make headlines, but they are foundational to hygiene, safety, and uninterrupted building operations. And too often, they simply don't function as well as they should.

When you speak with them, what many facility managers and engineers will tell you is the same thing: drainage issues are more common than they should be. Blocked pipes, malfunctioning pumps, odor complaints, flooded basements — they're all too familiar. And yet, when you trace these issues to their root cause, it's rarely about poor hardware. More often, the problem lies in the original system design.

Wastewater systems are too often treated as generic, low-priority installations. Designed late in the process and under intense cost pressure, they are often undersized, overly complex, or not engineered to reflect the building's actual load profile. As a result, these systems are prone to failure during peak loads,

particularly in buildings like hotels, hospitals, or mixed-use high-rises where wastewater flow fluctuates throughout the day.

The challenge isn't a lack of dedication from design teams. Architects and engineers do remarkable work despite tight constraints. The real missed opportunity comes when wastewater design is disconnected from the overall planning process. When treated as a routine detail instead of a critical system, its performance—and ultimately the building's reliability—suffers.

But this challenge also presents an opportunity.

Modern wastewater technology is undergoing a quiet revolution—one that focuses on smarter system design, adaptive performance, and long-term resilience. These new systems are not just functional—they're intelligent. Instead of generic pumps and oversimplified layouts, forward-thinking technologies emphasize adaptability, long-term reliability, and energy-conscious performance.

At the heart of this transformation is a rethinking of how pumps and drainage systems are built. Unlike clean water applications, wastewater must contend with solids, grease, and unpredictable flows. Systems are engineered to handle solid waste efficiently, adjust automatically to flow variations, and prevent common failure modes such as clogging or overheating. Early design collaboration—powered by intelligent planning tools and advanced modeling—helps prevent under- or oversized installations, ensuring optimal performance from day one.

In buildings with multiple drainage zones or tight mechanical spaces, tailored solutions now exist to meet specific architectural demands—whether it's a compact lifting station for retrofits or a pressurized drainage system that overcomes gravity challenges in dense urban settings. These aren't one-size-fits-all systems; they're engineered for the nuances of the building itself.

Crucially, these advances extend beyond hardware. Digital platforms and integrated controls allow facility managers to monitor systems remotely, identify inefficiencies, and perform predictive maintenance—shifting operations from reactive firefighting to proactive system stewardship. This not only improves uptime but also significantly reduces operational costs.

In a world grappling with climate unpredictability, rainwater collection is emerging as both a sustainable and protective strategy. By integrating systems that harvest and redistribute stormwater, buildings reduce their reliance on freshwater while guarding against flooding. With advanced pump technologies, smart monitoring, and energy-efficient engineering, wastewater infrastructure is becoming the backbone of climate-resilient urban design.

Ultimately, wastewater management should no longer be the overlooked sibling in building design. It's not glamorous, but it is vital. Making wastewater part of the core planning conversation—alongside energy, heating, and automation—ensures that the building performs as a whole, not just in parts.

When wastewater systems are designed with intelligence, resilience, and sustainability from the outset, the entire building benefits—owners, operators, and occupants alike. And so does the planet.

Krishna Kumar MBV
Regional Lead Application Manager - CBS Wastewater IMEA
Grundfos in Chennai, India

Krishna Kumar has a diverse background wastewater. He earned a Master's in Environmental Science & Technology in 2010 and an MBA in 2023. His professional journey began in 2010 as a process engineer, and he has held various roles at Grundfos since 2013.

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SCAN FOR MORE DETAILS

An Exclusive Conversation with Sandip Somany

Excerpts from an interview by
Nivedita Sharma
Sub Editor, Indian Plumbing Today

Sandip Somany, Chairman and Managing Director,Hindware Limited

IPT: The Indian sanitaryware and plumbing solutions industry is witnessing robust growth. What are the main factors driving this demand, and where do you see the biggest opportunities over the next 5–10 years?

Sandip Somany: While reports often highlight robust growth in the Indian sanitaryware and plumbing industry, the past two to three years have actually seen a more muted performance. This subdued consumer demand isn't unique to India; we have seen global economic headwinds impacting spending across various sectors, including home improvement and construction. The ongoing geopolitical uncertainties, from conflicts to trade tensions, have created a climate of instability that has further dampened consumer confidence worldwide. Here in India, the bathware sector experienced a noticeable slowdown during this period, affecting not just major metropolitan areas but also our Tier-2 and Tier-3 cities. This trend largely comes down to broader economic uncertainties hitting discretionary spending, with inflationary pressures squeezing consumer purchasing power and a fluctuating real estate market adding to the challenges.

However, I do believe the industry is poised for significant opportunities over the next 5-10 years. This resurgence will be driven primarily by India's overall economic growth and rising disposable incomes. We anticipate that Tier 2 and Tier 3 cities will be the major growth engines.

We also foresee substantial growth in the premium category. Consumers are increasingly viewing bathrooms as extensions of their living spaces, desiring aesthetically appealing, luxurious, and technologically advanced solutions. Bathrooms are no longer functional fixtures; they are becoming critical design elements. Coupled with continued growth in residential and commercial projects and a heightened focus on hygiene and wellness post-pandemic, these factors position the industry for a strong trajectory forward.

IPT: With growing awareness of sustainability and water efficiency, how is the industry adapting its product design and installation practices to support water conservation?

Sandip Somany: With growing awareness of sustainability and water efficiency, the Indian sanitaryware and plumbing industry is adapting its product design and installation practices to support water conservation.

A prime example is our early introduction of the dual-

flush system in sanitaryware to India. This innovation, which allows users to select between different flush volumes for liquid and solid waste, was a significant step towards water conservation in homes across the nation, saving thousands of litres annually per household. Indeed, dual-flush systems, like those we pioneered, are now a standard offering across the industry.

While touchless faucets are seeing increased demand, particularly post-COVID in commercial spaces and now extending into residential, this is an industry-wide trend driven by hygiene and convenience. Manufacturers are integrating advanced sensor technologies into faucets, urinals, and even intelligent water closets (IWCs) to ensure water flows only when needed.

IPT: Hindware has long been associated with product excellence and innovation. Could you share recent technological advancements or product lines that are redefining industry benchmarks?

Sandip Somany: Hindware has indeed maintained a strong association with product excellence and innovation, constantly striving to redefine industry benchmarks. We offer the largest range of star-rated and GreenPro certified faucets and sanitaryware in the country, underscoring our leadership in sustainable product design.

Our recent technological advancements and product lines are a testament to this commitment, focusing on smart solutions, water efficiency, and elevated aesthetics. We are at the forefront of bringing Intelligent Water Closets (IWCs) and smart toilets to the Indian market, offering automated flushing, remote control, in-bowl cleansing, seat temperature control, and integrated bidet functions for a truly intuitive and luxurious bathroom experience, thereby setting new standards for hygiene, convenience, and personalization in the Indian bathroom.

We have also innovated with tankless water closets in India, which save valuable bathroom space while ensuring 100% efficient flushing. Furthermore, our sanitaryware features superior flushing mechanisms like Vortex flushing and Aquasheet technology for powerful, water-efficient cleaning, alongside Easy Clean surfaces that promote better hygiene and easier maintenance. Beyond technology, we continue to lead in design through our premium brand Queo and mass premium brands Hindware Italian Collection, offering contemporary and luxurious aesthetics with unique finishes and diverse forms, ensuring our product lines are at the forefront of global bathroom trends and blend seamlessly with modern interiors.

Can you elaborate on Hindware's recent expansion initiatives—whether in terms of new IPT: facilities, product segments, or entry into untapped markets?

Sandip Somany: We are on a significant and focused multi-year expansion program, in strengthening our market presence and brand positioning.

Our core focus is on deepening our go-to-market approach. We're intensifying our efforts to build stronger loyalty among our existing distributors and dealers, while simultaneously targeting high-potential "white spaces" in untapped Tier 3 and Tier 4 towns across the country. Parallel to this, we are sharply refining our product strategy, specifically aiming to reinforce our premium and mass-premium brand positioning. This dual approach allows us to capture a larger share of both the essential core segments and the burgeoning aspirational consumer base.

To enhance the customer experience, we are launching a new generation of multi-functional experience centres in key metropolitan areas, which will be rebranded as 'Hindware Experience Centers'. Simultaneously, we are committed to significantly expanding our network of existing Brand Stores, making our products more accessible nationwide.

Our marketing and demand-generation efforts are equally comprehensive. Beyond impactful TV campaigns, we are deploying targeted, hyper-local digital campaigns designed to drive direct footfall into our stores. We are also reinforcing our invaluable plumber community and have a dedicated platform to deepen our engagement with architects and interior designers, particularly those focused on retail projects. Furthermore, a specialized sales force deployed across eight to ten priority cities will significantly enhance our reach within the crucial design and specification-based channels.

Underpinning this entire next-generation GTM program is a substantial investment in capability-building and data-driven engagement. This will lift productivity

across our sales teams and partner network. By seamlessly weaving together distribution excellence, premium product leadership, immersive retail experiences, and smart-tech integration, we are confident this comprehensive strategy will accelerate our future growth and reinforce Hindware's position at the forefront of India's evolving bathware market.

IPT: What are Hindware's immediate priorities when it comes to business growth—both in terms of geographic presence and product portfolio diversification?

Sandip Somany: Our immediate priorities for business growth at Hindware are dual-faceted. Geographically, we are focused on a multi-year program to deepen our go-to-market approach in high-potential Tier 3 and Tier 4 towns, while simultaneously expanding our network of Brand Stores in key metropolitan areas. In terms of product portfolio, our strategy is to sharpen our premium and mass-premium brand positioning to capture a larger share of both core and aspirational consumer segments, ensuring our offerings meet evolving demands for excellence and innovation.

IPT: Hindware has had a long-standing engagement with the Indian Plumbing Association (IPA). How has this collaboration contributed to advancing product standards, industry knowledge, or training initiatives?

Sandip Somany: Hindware has partnered with the Indian Plumbing Association (IPA) and the Water Management & Plumbing Skill Council (WMPSC) to elevate product standards, industry knowledge, and training initiatives nationwide. This collaboration allows us to actively contribute to bridging the skill gap in the plumbing sector. Through joint programs, we have enabled thousands of plumbers across India to receive training in modern techniques, sanitation practices, safety protocols, and the latest water-efficient technologies. This effort not only enhances their livelihoods and professionalism but also directly promotes the widespread adoption of higher product standards and sustainable installation practices, ultimately improving plumbing quality and advancing water conservation across the country.

IPT: From a building performance standpoint, how critical is quality plumbing—right from product selection to correct installation—in ensuring long-term safety, hygiene, and efficiency?

Sandip Somany: From a building performance standpoint, quality plumbing – encompassing both meticulous product selection and correct installation – is absolutely critical for ensuring long-term safety, hygiene, and efficiency. It's the unseen backbone of any structure.

When plumbing is done right, it actively prevents severe issues such as water damage, structural compromise, and electrical hazards, directly bolstering safety. For hygiene, it's paramount; it reliably delivers clean water, efficiently removes waste, proactively prevents mould, and effectively safeguards against cross-contamination – all vital for the well-being and health of occupants. For efficiency, high-quality plumbing significantly contributes to impressive water and energy conservation, drastically minimizes maintenance and repair costs, and consistently ensures optimal water pressure throughout the building, solidifying its role as a foundational element for a truly sustainable and high-performing structure.

Sandip Somany
Chairman & Managing Director, Somany Impresa Group

As the Chairman and Managing Director of Somany Impresa Group, Sandip Somany is overseeing major companies including Hindware Limited, Hindware Home Innovation Limited, and AGI Greenpac Limited. With over 35 years in the ceramics and glass industry, he has pioneered innovation and growth, establishing leading brands in sanitaryware and packaging. Mr. Somany is a past President of FICCI and PHDCCI, holds an engineering degree from the University of California, and is a recognized industry veteran and board member of several organizations.

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INNOVATIONS IN MUNICIPAL UTILITIES

ENABLING 24x7 WATER SUPPLY

- Aseem Vivek Masih

The Scenario: The enhancement of service delivery and improved management of water distribution can be achieved by upgrading the water supply system and improving the network. This will significantly reduce non-revenue water (NRW), conserve energy, improve the quality of water supply in underserved areas, and help meet the increasing demand for water in Delhi, which is putting tremendous pressure on its water supply infrastructure.

Delhi Jal Board selected a contracting firm (a consortium of SPML Infra Limited, Tahal Engineering, and Hagihon Water) for this project.

Challenge

"The old adage 'Bin Paani Sab Soona' (everything will finish without water) is becoming a reality although slowly. From abundance to scarcity in a few decades, water has become the topic of every discussion".

Mehrauli area, situated in the South of Delhi, has 16,500 house service connections. Vasant Vihar, located in the South-Western part of Delhi, is one of the upmarket and posh residential areas in the city, having 7,400 house service connections.

Old existing pumps in the area were low on efficiency & manually operated at constant speeds, resulting in energy loss and pressure surges were causing leakages in pipes, leading to water loss. The system has no feedback loop to aid in assessing the user's water consumption pattern and the need for preventive maintenance. For the day-to-day functioning of the pump house, there was a strong dependency on skilled labour. The adoption of a modularly designed pumping system was required for restoration of water supply due to a space constraint.

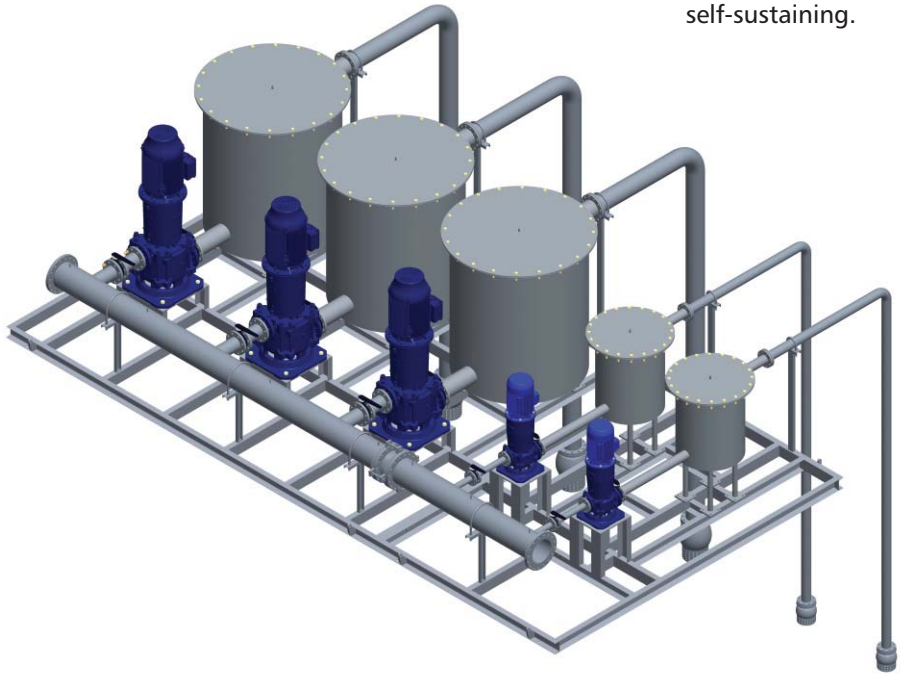
Image of earlier systems :-



Residents of the area have built large underground sump tank at their premises to store water, which is then pumped to the overhead tank for consumption. The excessive amount of water drawn was resulting in insufficient pressure and unequal distribution of water. The households located far from the main pump house experienced low pressure supplies, which worsened during times of water shortages, adding to the burden of piping reorientation and motorized valves for the safe operation of pumps under specified duty circumstances.

Solution

Introduction of new & advance, highly energy efficient DDPS (demand driven pumping system) 24 X 7 water supply pumping system.



Using Vertical multistage skid mounted system & variable frequency driven (SCADA enabled) control panels, (DDPS) targeting continuous & pressurized water supply. This reduced water loss and solved demand-driven water distribution challenge in NCT of Delhi.

Delhi Jal Board - Site actual set-up

The pumping system is programmed to select and run the pumps in combination to meet the peak and average demands in the day and controlled optimum flow during the night. The water distribution system is always under positive pressure to meet the 24X7 water supply. The entire distribution network is programmed as demand-driven resulting in optimal utilization of resources, better demand-supply management, and is self-sustaining.

Key Achievements

- The water supply increased from less than 2 hours per day to 24 hours per day.
- The distribution network was designed using the latest technology and software solutions to deliver water on a 24x7 basis, designed for the next thirty years.

Latest Images of 24X7 Pump system

- New technologically advanced pumping station installed for 24x7 water distribution.
- The technologically advanced and energy-efficient automated pumping system draws water from the reservoir and pump it into the distribution system as per the demand thus reducing energy consumption.
- The pumping system is programmed to run the pumps in combination to meet the peak and average demands in the day and controlled optimum flow during the night.
- Non-revenue water in the area is reduced from about 60% to under 10%.
- All borewells have been phased out smart.
- Water meters have been installed at each household.
- Consistent water pressure is provided eliminating individual pumps thus reducing electricity bills.
- Design of the pumping system is as such that, it completely removes the use of 'self-priming' pumps, which was earlier used.
- Receive data from pressure transmitters installed at key locations across the network, which will be utilized to monitor pressure through GPS/GPRS and control the system to maintain the required pressure at key spots (2 key pressure points for Anand Niketan & 1 key point for Shanti Niketan piping network.)

This case study has demonstrated the successful example of making a 24x7 water supply project and the same could be repeated not only in different other parts of Delhi but at any large city in India as it is clear that continuous water supply would deliver significant benefits for addressing water challenges in urban centers with sustainability."

Aseem Vivek Masih
Sr. Manager – Sales

Aseem Masih is an expert in managing sales operations for products and projects in the water and wastewater industry. With experience in designing and executing water and wastewater treatment projects at Ion Exchange India Ltd, he now leads sales operations for plumbing and fire application pump systems in the building and infrastructure sector at Xylem Water Solutions India Pvt Ltd.

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BACK TO BASICS

Centrifugal V/s Reciprocating Pump

-Rahul Dhadphale

We have learned about different types of pumps. Centrifugal and reciprocating are the main types as far as water pumps are concerned.

The pumps regularly used for water transfer or water supply with pressure are centrifugal pumps.

Centrifugal Pump

Reciprocating Pump

Let's understand the difference between these two types.

To understand this, let's check what are centrifugal pumps and how they work?

If I make a statement 'Centrifugal pumps do not create a pressure' you will not believe me, but it's true.

The correct statement is 'Centrifugal pumps overcome the resistance offered by the piping system'. It clearly means if a pump of say 50 meters is installed on a 12 storied building and you check whether its working at ground level without connecting to the main pipe pressure gauge will show hardly .1 or .2 Kg/cm2 on the pressure gauge as there is no resistance offered by the piping system. Resistance is either in the form of static head or frictional head. And every centrifugal pump has a maximum capacity for resistance to overcome what is known as the shut off head of the pump. This is the resistance where the pump is not delivering any water or discharge is 0.

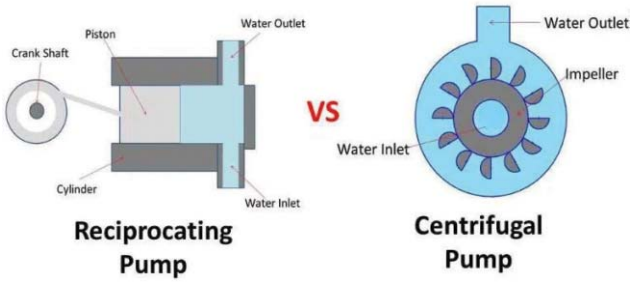
If we install a valve at the outlet of the pump, close it and start the pump, it will reach its shut off head and will not deliver water but at the same time electric energy of water will convert into heat energy and temperature of water will start increasing.

But at the same time if we close the valve at the outlet of reciprocating pump it will damage weak link in the system as in a reciprocating pump, piston physically displaces the water and piston pushes the same. And water is non compressible fluid either water will be pushed or forces will be generated which will damage anything in the system that is weak.

Let's understand the definitions.

Centrifugal Pump:

A **centrifugal pump** is a **dynamic pump** that uses a rotating impeller to impart velocity to the fluid, which is then converted into pressure energy as the fluid exits the impeller into a volute or diffuser casing.



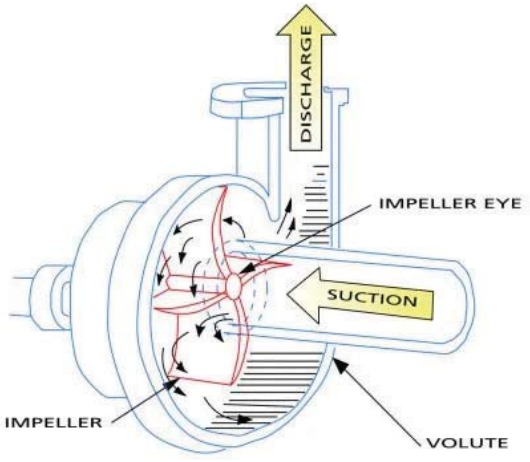
Reciprocating Pump:

A reciprocating pump is a positive displacement pump, which means it delivers a fixed volume of fluid for every cycle of operation. It achieves this through a back-and-forth (reciprocating) motion of a piston, plunger, or diaphragm within a cylinder.

Working Principle

Centrifugal pumps work by the centrifugal force generated by a rotating impeller.

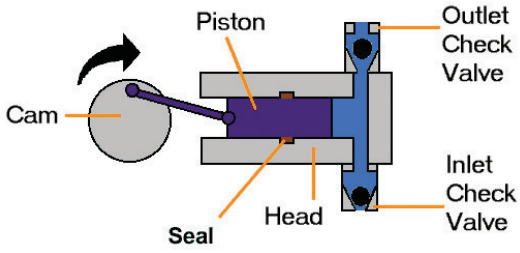
- Fluid enters the pump near the center of the impeller (eye).
- As the impeller spins, the fluid is thrown outward, gaining kinetic energy.
- The casing (volute) then converts this velocity into pressure energy, forcing the fluid out through the discharge pipe.



Centrifugal Pump

Reciprocating pumps operate on the principle of **suction and discharge** by a **piston or plunger** moving inside a cylinder.

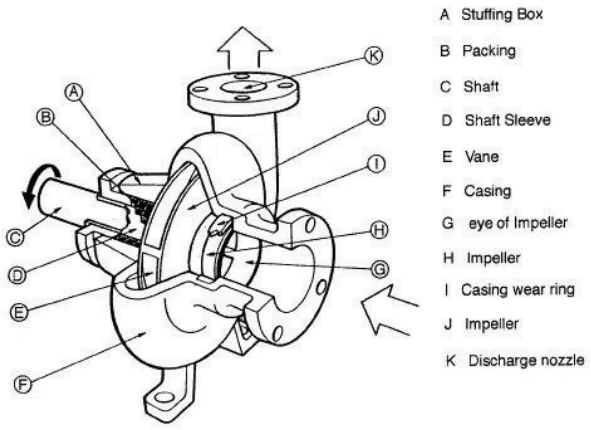
- **Suction Stroke:** The piston moves away from the cylinder head, creating a vacuum that opens the suction valve and draws fluid into the cylinder.
- **Delivery Stroke:** The piston moves back toward the cylinder head, compressing the fluid and pushing it through the delivery valve into the outlet pipe.



Reciprocating Pump

Components (Centrifugal Pumps)

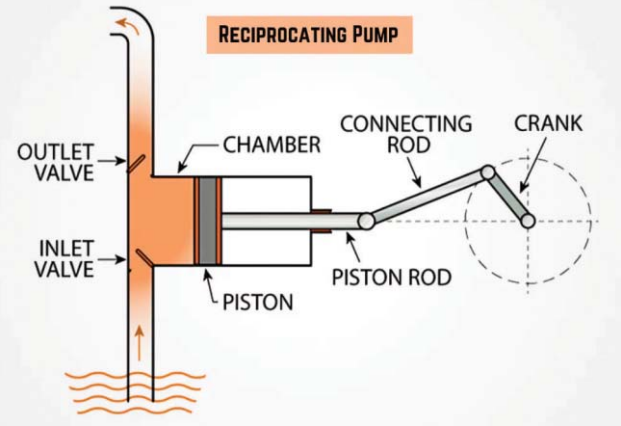
- **Impeller:** The rotating part that imparts velocity to the fluid.
- **Volute Casing:** Collects the fluid and converts velocity to pressure.
- **Shaft:** Connects the impeller to the motor.
- **Bearings & Seals:** Support and protect the rotating shaft.



Components in Centrifugal Pump

Components (Reciprocating Pumps)

- **Cylinder:** Where the piston moves.
- **Piston/Plunger:** Responsible for creating suction and discharge.
- **Crankshaft & Connecting Rod:** Converts rotary motion into reciprocating motion.
- **Valves:** Allow unidirectional fluid movement (suction and discharge).
- **Pump Casing:** Encloses all components.



Components in Reciprocating Pump

Types of Centrifugal Pumps

- **Single Stage:** One impeller; for low head applications.
- **Multi-stage:** Multiple impellers; for higher heads.
- **Axial Flow:** Fluid moves parallel to the shaft.
- **Radial Flow:** Fluid moves perpendicular to the shaft.
- **Mixed Flow:** Combination of axial and radial flow.

Types of Reciprocating Pumps

- **Single Acting:** Suction and delivery occur once per revolution.
- **Double Acting:** Both sides of the piston are used for suction and delivery.
- **Diaphragm Pump:** Uses a flexible diaphragm instead of a piston; suitable for corrosive or slurry fluids.

Flow Rate

- **Centrifugal Pump:**
  Provides **continuous, steady flow;** higher flow rate capacity.
- **Reciprocating Pump:**
  Delivers **pulsating flow** and relatively low discharge.

Pressure Handling

- **Centrifugal Pump:**
  Suitable for low to medium pressure, high-flow applications.
- **Reciprocating Pump:**
  Suitable for high-pressure, low-flow applications.

Maintenance

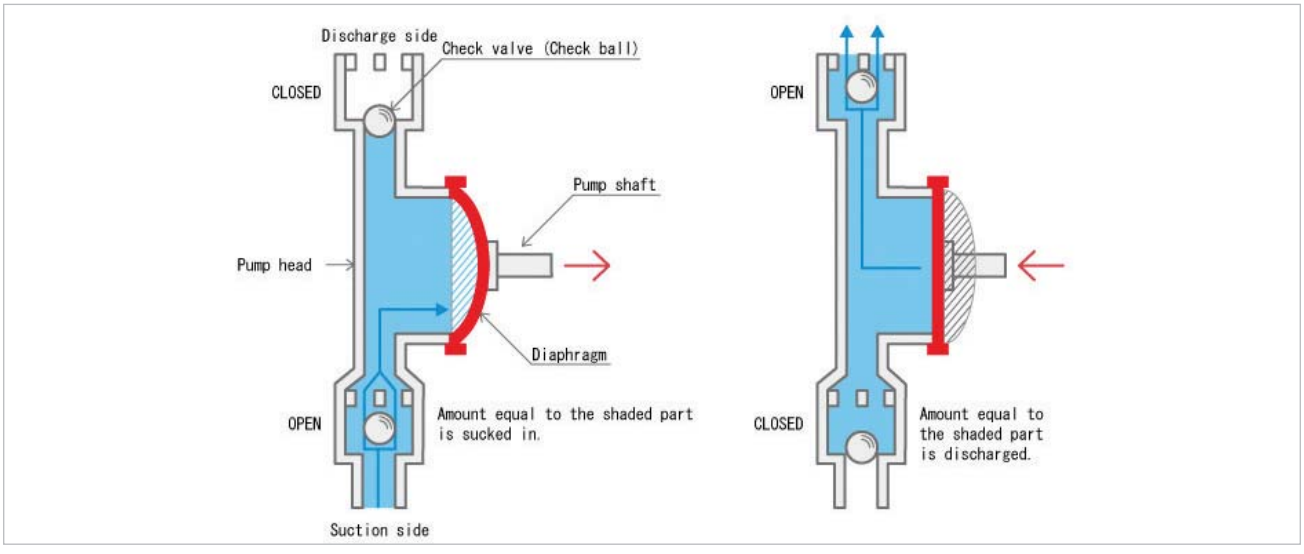
- **Centrifugal Pump:**
  Lower maintenance; fewer moving parts.
- **Reciprocating Pump:**
  Higher maintenance due to many moving parts and valves.

Noise and Vibration

- **Centrifugal Pump:**
  Smoother and quieter operation.
- **Reciprocating Pump:**
  Generally noisier with more vibration.

Efficiency and Power Consumption

- **Centrifugal Pump:**
  More efficient for large volume applications.
- **Reciprocating Pump:**
  More efficient at high pressures but consumes more power per unit of flow.



Diaphragm Pump

Applications

Reciprocating Pump	Centrifugal Pump
Hydraulic systems, high-pressure cleaning	Water supply, HVAC systems, irrigation
Chemical dosing, oil & gas (low flow, high head)	Fire fighting, sewage, general industrial use

Summary Table:

Feature	Reciprocating Pump	Centrifugal Pump
Type	Positive displacement	Dynamic
Flow Type	Pulsating	Continuous
Pressure	High	Low to Medium
Flow Rate	Low	High
Maintenance	High	Low
Suitable For	Precise, high-pressure apps	Large flow, low-pressure

Reciprocating Pump VS Centrifugal Pump – Detailed Comparison

Aspect	Reciprocating Pump	Centrifugal Pump
Working Principle	Positive displacement: A piston or plunger moves inside a cylinder, creating a vacuum to draw in liquid and then discharges it on the forward stroke.	Dynamic action: Uses a rotating impeller to transfer kinetic energy to fluid and converts it into pressure energy through a volute casing.
Flow Output	Delivers **intermittent, pulsating** flow.	Delivers **continuous, smooth** flow.
Discharge Pressure	Can generate **very high pressure**; suitable for high-head applications.	Generally limited to **medium or low pressure** applications.
Flow Rate (Discharge)	Designed for **low flow** applications; accurate volume control.	Ideal for **high flow** applications; not precise in volume control.
Suction Lift Capability	Better suction lift performance; can handle air or vapour in suction line (self-priming).	Poor suction lift capability; requires priming before operation.
Speed of Operation	Operates at **low speeds** (typically < 300 rpm).	Operates at **high speeds** (usually 1500–3000 rpm).
Mechanical Design	Complex design with piston, cylinder, crankshaft, valves, etc.	Simple design with impeller and casing.
Size & Footprint	Typically bulky and heavier due to robust construction.	Compact and lighter in size.
Valves	Requires **inlet and outlet check valves**.	**No valves** are required in operation.
Maintenance	Requires **frequent maintenance** due to moving parts and wear (piston, valves).	Requires **less maintenance**, easier to service.
Priming Requirement	Generally **self-priming**.	Needs **priming** before operation.
Handling of Fluids	Can handle **viscous, abrasive, or slurries** if designed for it.	Handles mostly **clean or slightly dirty liquids**; not ideal for slurries.
Efficiency	**High volumetric efficiency** at varying pressures.	Efficiency drops significantly at **off-design** conditions.

Aspect	Reciprocating Pump	Centrifugal Pump
Energy Consumption	Higher for large flows due to reciprocating action.	More energy-efficient for **large volume** transfer.
Vibration and Noise	Noisy and high vibration due to reciprocating motion.	Smoother, quieter operation.
Control over Discharge	Very precise and accurate; flow directly proportional to speed.	Less accurate; flow varies with pressure and head.
Types	- Single Acting - Double Acting - Diaphragm Pump - Plunger Pump	- Radial Flow - Axial Flow - Mixed Flow - Multistage Pump
Typical Applications	- High-pressure cleaning (Car or scooter washing) - Hydraulic systems - Oil & gas injection - Metering and dosing systems	- Water supply & irrigation - HVAC circulation - Firefighting systems - Sewage & slurry pumping

When to Use Which?

Use Reciprocating Pump when:

- You need **high pressure** with low flow.
- Accurate metering or dosing is required.
- You're dealing with **viscous fluids** or need **self-priming.**
- Application includes **hydraulics, oil injection, or high-head pumping.**

Use Centrifugal Pump when:

- You need to move **large volumes** of water or fluid.
- You require **smooth and continuous** operation.
- The system has **low to medium head** requirements.
- Simpler, low-maintenance solution is preferred.

Rahul Dhadphale
IPA Regional Director, South & Editorial Board Member
Director, Urjal Consultants Pvt. Ltd.

Rahul Dhadphale has done Post Graduate Diploma in Piping Design & Construction. Under his able leadership, Urjal Consultants has successfully completed more than 1000 Design projects all over India and abroad in last 30 years.

He is the Past National Secretary of Indian Plumbing Association and member of IPA Editorial Board. He can be reached on director@urjalconsultants.com

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Harsh Khandelwal
Director and HOD of Design
Climatech Aircon Engineers, Jaipur

"Treat IPPL as a learning platform. It's a great opportunity to grow, compete, and make a real difference."

Mayur Sondagar
Sr. Plumbing Design Manager
Jhaveri Associates, Ahmedabad

IPPL is more than just a competition — it's an opportunity to challenge yourself, learn from the best, and contribute to a sustainable future.

My advice: participate wholeheartedly, stay curious, and apply what you learn.

It will truly transform your approach to plumbing.

Sanjay Kumar
General Manager – Projects
Vamana Group, Chandigarh

Make the most of this opportunity—it's more than just a competition; it's a platform for real learning, growth, and professional transformation.

Srinivash D
Sr. Engineer 1
Sobha Limited, Bengaluru

IPPL participation means simply gaining the plumbing knowledge, industry connect and transforming into a confident plumbing designer.

Madane G
Sr. Chief Engineering Manager - Civil
L&T Construction, B&F-IC EDRCHealth, Public Space & Airports SBG, Chennai

IPPL is more than a competition—it's a platform to broaden your perspective. Engage with experts from different fields, stay curious, and embrace the learning.

The experience will sharpen your technical, teamwork, and problem-solving skills, helping you design smarter and more integrated solutions.

Shanmugapriya M
Senior Design Engineer – Structures
Design Collaborative, Puducherry

"Participating in IPPL is an investment in your professional growth and an opportunity to contribute meaningfully to the built environment. Don't miss out on the chance to enhance your expertise and make a real difference in your projects & career."

Prasad Arjun Godse
Quantity Surveyor,
Harsh Constructions Pvt. Ltd., Nashik

"Its a great platform to learn about the various aspects of plumbing and adopt the same things in professional life to progress."

Narendra K R
Engineer, **Sobha Limited**, Bengaluru

"Embrace the journey with an open mind and a commitment to learning. IPPL is more than a competition—it's a transformative experience that challenges you to innovate, collaborate, and grow. The knowledge, recognition, and connections you gain will serve as a strong foundation for your professional success.

Make the most of it, and let your work contribute to a smarter, more sustainable future."

S. Sanjeevi Kumar
Manager, MEP Design
Kalpataru Projects, Mumbai

"All engineers (no matter which stream) should attend such a course to have a basic as well as in depth knowledge of plumbing. I attended IPPL to gather basic knowledge of plumbing, so that my coordination with other services gets better. I am too happy to share that after attending this program, my planning has become stronger than before."

Sachin Prajapat
Senior Design Engineer,
Shreshtha Consultants, Jaipur

"Treat IPPL as a learning platform. It's a great opportunity to grow, compete, and make a real difference."

Dhirukumar Darji
Sr. Plumbing Design Manager
Jhaveri Associates, Ahmedabad

"IPPL isn't just about winning; it's about learning what textbooks won't teach you. Ask questions, attend every workshop, and dissect case studies you'll uncover practical gems. IPPL isn't just an event—it's the upgrade button for your career. Whether you're a technician, contractor, or designer, leave your mark. The plumbing industry is evolving—"be the one who shapes it".

Ansari Mohammad Asif
Deputy Manager, Senior Plumbing &
Firefighting Design Engineer, **Kalpataru Projects**, Mumbai

"IPPL is doing a very valuable job in the plumbing sector at the national level and due to this, you get to know the plumbing manufacturing companies of the world and get acquainted with the usefulness and quality of the new things that are coming out. Therefore, your confidence will increase and you can further advance your career and create your own unique identity in your management and set a record. I have no doubt that I will appeal to the newcomers to participate in IPPL.

Ajay Somnath Oval
Senior Supervisor PHE, **Kumar Realty**, Pune

"To future participants - take every session seriously, stay curious and don't be afraid to step out of your comfort zone. The effort you put in here will definitely pay off. The trainers are highly knowledgeable professionals, so it's important to ask every 'why' during the sessions. Don't hesitate to seek clarity and fully understand the reasoning behind each concept. Being trained by such experienced professionals and gaining access to extensive study material has been far more rewarding than simply winning a prize. The knowledge and mentorship you will receive will be invaluable to your professional growth.

Shweta Ramchandra Nale
Senior Engineer (Execution) at
Kumar Realty, Megapolis Hinjewadi

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CHAPTER NEWS

CHAPTER ELECTIONS

Hyderabad Chapter

Elections were held in IPA Hyderabad Chapter for the 3 years term 2025 – 28 on Saturday, 5th July 2025 with the General Body Meeting. All the candidates who filed nominations were elected unopposed and have been administered an oath of office by the Returning Officer.

Returning Officer: Dr. Saandeepani Vajje, IPA Hyderabad Chapter

Election Date: 5th July 2025

S. No.	Name of Candidate	Elected for the post
1.	P. Sravan Kumar	Chairman
2.	Thanu Kumar K.M.	Vice Chairman
3.	Padmaja Duggirala	Hon. Secretary
4.	V. Giridhar Rao	Hon. Joint Secretary
5.	B. Venkata Ramana	Hon. Treasurer
6.	T. Srinivasa Rao	Exe. Committee Member
7.	Piyush Lohia	Exe. Committee Member
8.	A. A. Sarma	Exe. Committee Member
9.	Chakradhar Majesty	Exe. Committee Member
10.	Hari Prasad Sukhavasi	Exe. Committee Member
11.	Bhaskar Katragadda	NEC Member
12.	Sanjay Laxman Bhilare	NEC Member

From Left to Right: Ar A Sarma, Chakradhar Majesty, Hari Prasad Sukhavasi, Bhaskar Katragadda, Sanjay Laxman Bhilare, P Sravan Kumar, Dr Saandeepani, Thanukumar V., Srinivas, V. Giridhar Rao, B. Venkata Ramana, Padmaja Duggirala

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Pune Chapter celebrates 20 years of Pride and Passion

On 4th July 2025, the IPA Pune Chapter proudly celebrated its 20th Anniversary at PYC Deccan Gymkhana, Pune. It was truly a night of pride, passion, and purpose, a celebration of a journey marked by vision, innovation, and service.

From modest beginnings in 2005, the IPA Pune Chapter has grown into one of the most dynamic and respected chapters of the Indian Plumbing Association. Over the last two decades, it has upheld the core values of pride, passion, and purpose, building a legacy of professionalism, collaboration, and knowledge sharing.

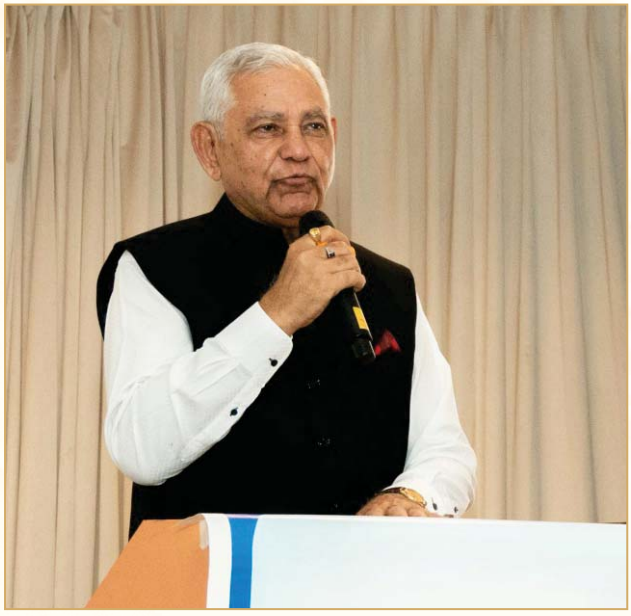
This grand celebration was a reflection of the Chapter's inspiring journey and a tribute to the many hands and hearts that shaped it.

Nilesh Gandhi, Chapter Chair, Pune Chapter invited Chandra Shekhar Gupta, IPA National Vice President to address the gathering. Chandra Shekhar Gupta congratulated the Pune Chapter members and, highlighted the remarkable achievements of the Pune Chapter over the past 20 years.

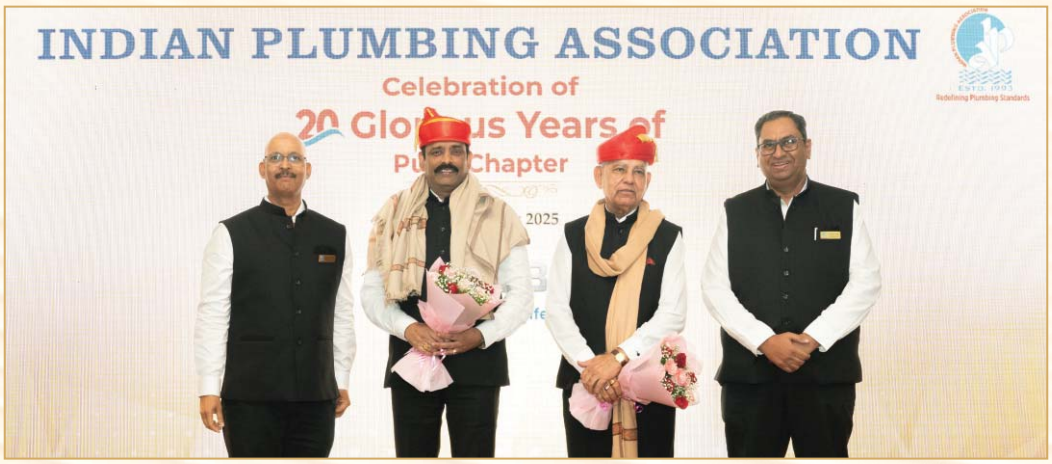
As Gurmit Singh Arora, IPA National President, was unable to attend the function, his inspirational message was read out by Nilesh Gandhi.

The Pune Chapter felicitated Chandra Shekhar Gupta, IPA National Vice President, and K. Bhaskar, IPA National Treasurer. They were honoured in true Puneri style by

Nilesh Gandhi - Chapter Chair, Pune Chapter welcoming all the Guests



Chandra Shekhar Gupta - National Vice President appreciating IPAPC for their various achievement over last 20 years



Felicitation of Chandra Shekhar Gupta, National Vice President and K. Bhaskar, National Treasurer of IPA

The celebration witnessed the enthusiastic participation of **over 150 delegates**, comprising IPA members, industry professionals, and well-wishers.

One of the most heartfelt moments of the evening was the felicitation of all past and present Committee Members. The Chapter acknowledged their tireless efforts through the presentation of a beautifully crafted 'Sanmanpatra' in Marathi, symbolizing gratitude, legacy, and cultural pride. From founding members to the current office bearers, every contribution was celebrated with dignity and respect.

Pune Chapter Executive Committee Team (Past & Present)

"The SanmanPatra"

In a creative twist to the usual presentations, the Chapter introduced an engaging and unique concept: Word Tambola. Instead of a conventional presentation, key words from the Chapter's journey were highlighted and printed on Tambola tickets. Delegates watched the presentation and marked the matching words, adding an element of fun and interaction to the celebration.

This creative concept, combining storytelling of Chapter's journey, with gamification, was a resounding success and led to 15 enthusiastic winners, adding a joyful edge to the celebration. The event was supported by KSB Limited.

The evening was not only a celebration of achievements but also a pledge for the future. With the continued support of its members and leadership, the IPA Pune Chapter aims to drive sustainable plumbing practices, foster technological innovation, and enhance community awareness.

Here's to the past that made us proud, the present that inspires us, and the future that awaits with open arms.

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IPA's contribution to climate change and conservation of mother earth

Bengaluru Chapter

45 trees planted by IPA Bengaluru Chapter on 20th July under Ek Ped Maa Ke Naam!

Trivandrum Chapter

50 trees planted by IPA Trivandrum Chapter at Santhinikethan School under Ek Ped Maa Ke Naam!

Trivandrum Chapter

"Rainwater Harvesting- Importance and Need" an awareness session for students at Santhinikethan School at Trivandrum, hosting 250 students.

College of Engineering (CET) being awarded IPA Institutional Membership becoming the sixth IPA Student Chapter under Trivandrum Chapter

Nagpur Chapter

"SWR-Water Drainage Ventilation Management" a Technical Talk by Dr. Shireesh Pankaj drawing participation from IPA, IIID, IIA, CREDAI, and NAREDCO members.

Visakhapatnam Chapter

I Save Water Mission, a live demonstration on water aerators was conducted at Panorama Hills, home to around 450 flat residents.

IPA Technical Committee Meeting

Left to right: Nivedita Sharma, Dr. S. Virapan, Chandra Shekhar Gupta, Minesh Shah, Sharat V. Rao, Mukesh Asija, Nilesh Gandhi, T. Manjula

TC meeting at IPAHQ to review IPPL and IAPL curriculum.

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Bengaluru Chapter

IPA Bengaluru Chapter hosted a technical evening at The Chancery Pavilion for the IPPL 2025 and IPA Neerathon Bengaluru an address by IPA Bangalore Chairman Balkrishna Mehta, and a technical presentation on "Valves in Plumbing" by Jitendra M, Vice President - Plumbing, Sobha Limited.

Hyderabad Chapter

IPA Hyderabad Chapter EC members visit to CREDAI Hyderabad office

Blood Donation Camp at IPA Visakhapatnam Chapter

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mastering **water**

Gurmit Singh Arora had a productive meeting with CIPHE in Chelmsford, UK, to establish a collaborative relationship between CIPHE UK—a distinguished organization with over 100 years of history—and IPA, focusing on various areas of knowledge dissemination.

Gurmit Singh Arora, IPA National President with **Kevin Wellman**, CEO, CIPHE and Deputy Chair, WPC at CIPHE office, Chelmsford UK.

MEP-F Coordination Training for Godrej Properties

Dr. S. Virapan Sivaprakasam, Chapter Chair, IPA Pune Chapter and IPPL Co-Convener introduced IPPL, during a two-day MEP-F Coordination training for Godrej Properties in Gurugram, encouraging site engineers and managers to adopt best practices in water, sanitation, and plumbing through team participation.

Indian Bath Fittings Manufacturers Association office bearers at IPA HQ with Chandra Shekhar Gupta, IPA National President.

All India Council for Technical Research

Dr. Sunil Luthra, Bureau Head and Director, Training and Learning Bureau, All India Council of Technical Education, AICTE (Ministry of Education) with Rohit Srivastava, IPA Manager-Outreach

Dr. Amit Dutta, Director (Policy), AICTE with Rohit Srivastava, IPA Manager-Outreach

IPA's participation at ISHRAE Vision to Action Event

Rohit Srivastava, IPA Manager-Outreach with Pramod Kumar Sharma, Vice Chair, IPA Delhi Chapter, at ISHRAE's 'Vision to Action – HVAC&R' session. Felicitated by Shri Jayanta Kumar Das, President, ISHRAE Society, at India Habitat Centre, New Delhi.

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IPA Neerathon

Festival Awareness Water - RUN FOR WATER

IPA Neerathon Chennai

14th September 2025

Venue

Island Ground,
Gate No. 6, Chennai

IPA Neerathon Bengaluru

12th October 2025

Venue

St. Joseph School,
Bengaluru

IPA Neerathon Delhi

30th November 2025

Venue

Jawahar Lal Nehru Stadium
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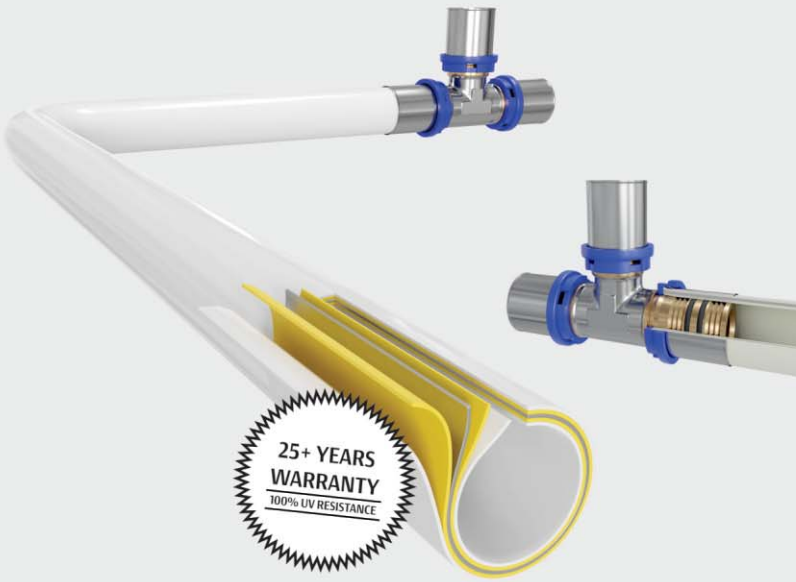

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