

# Indian Plumbing Today

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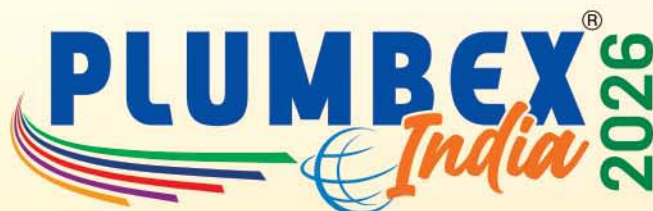


## CELEBRATING



## World Plumbing Day 11 March

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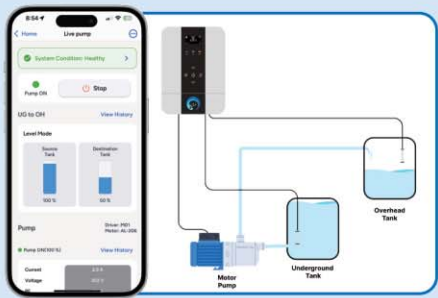
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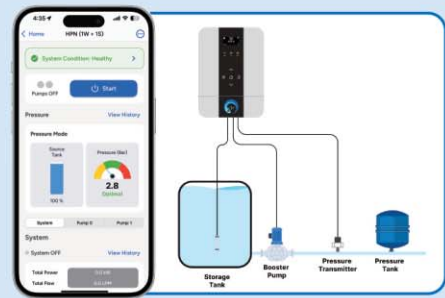
Submersible Pumps



## Applications



Water Level Automation



Pressure Automation



Hot Water Circulation

# MY PAGE

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Dear Readers,

At a time, when our world is racing ahead to advance Artificial Intelligence (AI) into every aspect of our life, India is also not lagging behind and the recently held AI Impact Summit at Delhi is a proof of its commitment in this direction. It is a well-established fact that Data Center's, an arm of AI, are extremely Water and Energy intensive. A typical large Data Center may consume several million litres of water per day, and this threatens fresh water supplies. The old adage "Every credit has a debit side" comes into play, alerting us that we have to be prepared well in advance for such an eventuality.

The only recourse is to aggressively follow water conservation techniques in all ventures and projects. The sensible approach is to make every development both in the private and public sector 'Water Positive.' Reducing consumption at source, recycling and reuse, and rain water harvesting can be a part of the solution. We need to put in a great amount of emphasis into getting our nation fully sewered and build Sewage Treatment Plants with 100% recycling facilities.

In line with this issue's theme, "**High Efficiency Heating Systems,**" it is important to recognize that heating systems consume significant water and energy. Adopting energy-efficient boilers, heat pumps, optimized systems, and better controls can reduce operational consumption and carbon footprint. Sustainable plumbing and heating design must move together as an integrated approach.

March is a month of reflection and celebration. On **International Women's Day**, I extend my heartfelt wishes to all the remarkable women contributing to our industry and society. World Plumbing Day, celebrated on 11th March, highlights the vital role plumbing plays in protecting public health and supporting sustainable development. Indian Plumbing Association has actively undertaken awareness and outreach activities to reaffirm its commitment to safe and sustainable plumbing practices across the nation.

I am delighted to share that **IPA Neerathon Delhi** is scheduled for **19th April 2026** in **Jawaharlal Nehru Stadium, New Delhi**.

**IPA PlumbexIndia** is scheduled from **16th–19th April 2026** at **Bangalore International Exhibition Centre, Bengaluru**, where leading brands, industry experts, and professionals from across the plumbing and allied sectors will come together to showcase innovations, exchange knowledge, and strengthen industry collaboration.

I look forward to meeting all of you there.

**Sharat V. Rao**

Managing Editor, Indian Plumbing Today  
National Joint Secretary, Indian Plumbing Association



**High-Efficiency Heating Systems**  
**Kshama Jain**



**Smart Bathroom products based on IoT, Automation & AI for Water Conservation**  
**Nirupam Sahay**



**High-Efficiency Heating Systems: Engineering Comfort with Energy Responsibility**  
**Aditi Mishra**



**Water Efficiency & Smart Plumbing Systems: Designing Buildings That Think - Part 2: Making Visibility Real – Metering, Reuse, and Trust**  
**Madhava Narasimha Murthy Nedunuri**



**World Plumbing Day: Good Plumbing Ensures Peace in Life**  
**Dr. Madhubanti Dutta**



**The 2 Decades of Foundation: Indian Plumbing Association (1993-2013)**



**Women in the Water, Sanitation and Plumbing Industry**



**An Exclusive Interview - Gorika Shyam**



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# HIGH-EFFICIENCY HEATING SYSTEMS

- Kshama Jain



**Energy-efficient heating technologies** now dominate both sectors. In homes, next-generation air-source heat pumps—especially cold-climate models—provide heating and cooling with efficiencies of 200-400% (producing 2-4 units of heat per unit of electricity), far surpassing traditional gas boilers' 90-94% efficiency. Commercial buildings favour variable refrigerant flow (VRF) systems, high-efficiency heat pumps, and energy recovery ventilators for precise control and reduced waste. Geothermal options offer unmatched stability but higher upfront costs.

**Heat pumps, boilers, and hybrid systems** each suit specific needs. Modern heat pumps excel in mild-to-moderate climates, with recent advancements enabling reliable operation down to -15°F and seasonal coefficients of performance averaging 2.9-4.3—up to three times more efficient than boilers. Gas boilers deliver quick, high-temperature heat but emit CO<sub>2</sub> and pollutants. Hybrids pair heat pumps for base loads (handling ~85% of needs efficiently) with backup boilers or furnaces for extreme cold, balancing reliability and savings while minimizing energy use.

**Design and implementation challenges** persist, particularly in retrofits. High upfront costs (often 2-4 times boilers), electrical infrastructure upgrades, and space constraints hinder adoption. In cold climates, older ductwork may require resizing, and high-temperature output mismatches legacy radiators. Installer shortages and training gaps slow deployment, while grid strain from electrification demands careful planning. Overcoming these requires incentives, workforce reskilling, and "one-stop" retrofit support.

**Smart controls, automation, and IoT** transform operations. Smart thermostats with AI learning, occupancy detection, and weather integration cut energy use by 10-20% or more. Zoned systems enable room-by-room precision, variable-speed inverters match output to demand, and IoT networks monitor real-time metrics for predictive maintenance—reducing downtime via early fault detection. AI-driven Model Predictive Control forecasts need using building thermal mass, while cloud platforms enable remote management and fleet analytics. Cybersecurity—encryption and secure authentication—now forms a core design element.



**Renewable integration** amplifies benefits. Heat pumps powered by solar PV, wind, or hydro slash emissions dramatically, especially with on-site solar direct powering or thermal storage buffering supply. Solar thermal supports hot water, biomass hybrids manage peaks, and thermal energy storage (buffer tanks, phase-change materials) decouples generation from demand. Smart grid demand response shifts load to low-price, low-carbon periods, while district heating scales renewables like large heat pumps and waste recovery for urban efficiency.

Overall, these systems yield substantial sustainability, carbon reduction, and cost savings. Heat pumps can lower operating costs 20-40% versus fossil fuels, with

payback accelerated by rebates and incentives. Predictive tools minimize service expenses, and grid-interactive features enhance resilience.



**Kshama Jain**  
Managing director, Kehems Technologies

Kshama Jain is the Managing Director of Kehems Technologies and the Immediate Past President (IPP) of the ISHRAE Indore Chapter. She has also been a part of the National Board of Governors (NBOG) of the APEX Indian Society.

A recipient of the prestigious Global Woman Business Award and recognized as Woman Entrepreneur of Madhya Pradesh, she is highly respected within the global fraternity. A visionary leader, she not only steered the organization successfully through the global COVID crisis but also set new industry benchmarks through her leadership and resilience.



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# Smart Bathroom products based on IoT, Automation & AI for Water Conservation

- Nirupam Sahay



Long before “smart bathrooms” became part of industry conversations, water conservation was already shaping bathroom innovation. This was never about adopting technology for its own sake. It came from a clear sense of responsibility—of designing products that help people use water more thoughtfully, without compromising on comfort, hygiene, or performance. The question we asked ourselves early on was simple: how can everyday bathroom experiences be both efficient and effortless?

That question becomes especially relevant in the Indian context. Unlike water-abundant markets, Indian households contend with intermittent supply, dependence on groundwater, dense urban living, and rising demand. These realities demand solutions that are practical, scalable, and grounded in real usage patterns. Products designed for other geographies cannot simply be replicated here. Innovation in India has to respond to how people actually live.

This long-term commitment shaped some of design decisions. Decades ago, there were 3-litre flush systems in a market where 6-litre usage was the norm. It reflected a clear belief: that well-engineered products can quietly but meaningfully influence consumption habits at scale. Over time, this thinking extended across categories, evolving into a portfolio of star-rated offerings that set new benchmarks for both efficiency and performance.

Today, that approach is visible across the entire bathroom ecosystem. From 3- and 4-star rated faucets with optimised aerators to low-flow mixers that maintain pressure while reducing output, every design choice is calibrated to save water without altering the user experience. The same philosophy applies to water

closets and showering solutions, where precision engineering ensures minimal consumption per use while delivering consistent performance. Together, these innovations reinforce a simple idea: conservation does not require behavioural compromise—it works best when efficiency is built seamlessly into the product itself.



As technology evolved, digital tools naturally became enablers of this thinking. IoT and automation have expanded the possibilities of water conservation by adding intelligence to efficient design. Today, smart bathroom solutions are less about novelty and more about precision—optimising flow, tracking usage, and reducing wastage in real time. Automation brings consistency, while data enables better decisions, both for manufacturers and for users.

This is visible in how everyday products are evolving. Smart toilets with touchless operation, automated flushing, and personalised settings enhance hygiene while ensuring water is used only when required. Sensor-based faucets do the same by eliminating unnecessary flow—an especially important

consideration in high-traffic residential and commercial environments where wastage often goes unnoticed.

Beyond usage, ease of maintenance has emerged as an important contributor to sustainability. Design features such as easy-clean countertop wash basins reduce dirt accumulation, simplify cleaning, and lower water and chemical use over the product's lifecycle. These may seem like incremental improvements, but together they make efficiency more durable and more practical in everyday use.



Attention has also shifted to point-of-use innovations that deliver immediate impact. Water-saving nozzles and flow regulators significantly reduce consumption while maintaining pressure and performance. By optimising how water exits the tap or shower, these

solutions ensure that conservation becomes seamless—almost invisible to the user.

At the same time, intelligence in bathroom products must remain intuitive. In a market like India, complexity can limit adoption. The most effective solutions are those that work quietly in the background, delivering efficiency without demanding constant user intervention. Whether through sensor-based fittings, automated flushing, or digitally managed flow control, the objective remains clear: maximise water efficiency while ensuring reliability and ease of use.

Equally important is how these products are made. Environmentally responsible manufacturing, conscious material choices, and efficient resource management are essential to embedding sustainability not just in product performance, but across the entire value chain.

Looking ahead, the future of smart bathrooms will not be defined by individual technologies, but by how effectively products, data, and user awareness come together to reduce water consumption at scale. For manufacturers, this means continued investment in design-led efficiency, digital capability, and India-specific innovation. For the industry as a whole, it means recognising that water stewardship is not a passing trend, but a long-term commitment that must shape how everyday spaces are designed and experienced.



**Nirupam Sahay**  
CEO, Hindware Limited



Nirupam Sahay is the Chief Executive Officer (CEO) at Hindware Limited. He has over 30 years of experience in sales, marketing, innovation, operations and general management roles.

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SCAN FOR MORE DETAILS

# High-Efficiency Heating Systems: Engineering Comfort with Energy Responsibility

- Aditi Mishra



Water heating is a fundamental service in buildings, supporting domestic, commercial, and institutional needs on a daily basis. Whether it is hot water for bathing, cleaning, healthcare, food service, or industrial use, water heating systems account for a significant share of overall energy consumption. As energy tariffs rise and sustainability targets become more stringent, improving the efficiency of water heating systems has emerged as a key priority for the plumbing sector.

Today, high-efficiency water heating solutions are no longer limited to niche or premium projects. They are becoming standard practice, driven by energy regulations, green building certifications, and long-term operational cost considerations. For plumbing professionals, this shift highlights the importance of system-level thinking, where equipment selection, distribution design, and control strategies work together to deliver reliable hot water with minimal energy waste.



## The Growing Importance of Water Heating Efficiency

Conventional water heating systems often suffer from excessive standby losses, inefficient heat generation, and poor control over temperature and demand. Oversized storage tanks, continuous recirculation, and inadequate pipe insulation can lead to substantial energy losses without improving user comfort.

High-efficiency water heating systems address these challenges by aligning heat production with actual demand, reducing losses during storage and distribution, and improving overall thermal performance. Key benefits include:

- Lower fuel or electricity consumption
- Reduced carbon emissions
- Improved temperature stability and user comfort
- Compliance with modern energy efficiency norms

As a result, water heating efficiency has become an essential design parameter in contemporary plumbing systems.

## Performance Indicators for Water Heating Systems

Water heating efficiency is evaluated using specific metrics that reflect real operating conditions rather than theoretical performance alone.

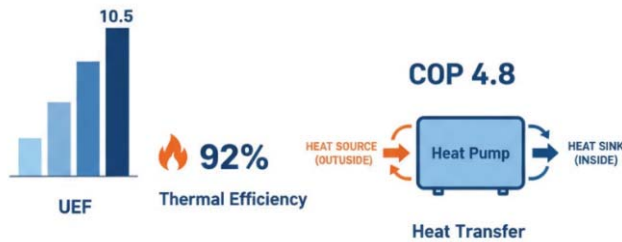
- **Uniform Energy Factor (UEF):**  
This rating accounts for recovery efficiency, standby losses, and cycling losses, providing a realistic measure of a water heater's performance.
- **Thermal Efficiency:**  
Commonly used for fuel-fired systems, this indicates how effectively input energy is converted into usable hot water.



- **Coefficient of Performance (COP):**

Used for heat pump water heaters, COP expresses the ratio of heat delivered to electrical energy consumed.

High-efficiency systems are designed to maintain strong performance across varying load profiles, including partial demand and intermittent usage.



### Condensing Water Heaters

Condensing water heaters represent a significant improvement over conventional gas-fired unit. These systems recover additional heat from exhaust gases by allowing water vapor in the flue to condense, capturing energy that would otherwise be lost.

By operating with lower exhaust temperatures, condensing water heaters can achieve efficiencies exceeding 90 percent. They are particularly suitable for:

- Centralized domestic hot water systems
- Hospitality and healthcare facilities
- Commercial buildings with continuous hot water demand

From a plumbing design perspective, these systems require appropriate condensate drainage arrangements, corrosion-resistant venting materials, and compatible piping components to ensure long-term reliability.

### Heat Pump Water Heaters

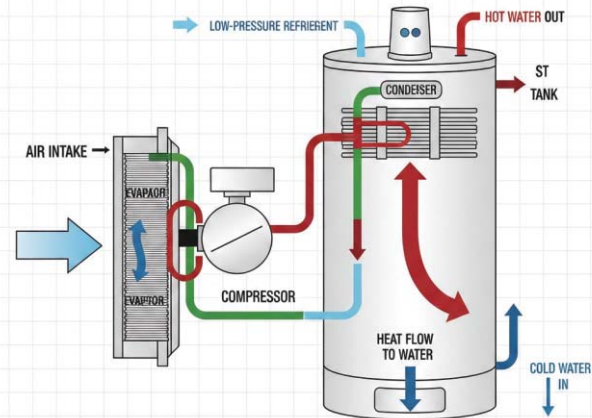
Heat pump water heaters operate on a fundamentally different principle by extracting heat from ambient air or water and transferring it to the stored water. Instead of generating heat directly, they move existing thermal energy, resulting in substantially lower energy consumption.

With COP values typically between 2.5 and 4.0, heat pump water heaters can deliver multiple units of heat for each unit of electricity consumed. They are well suited for:

- Residential and multi-family buildings
- Commercial facilities with predictable hot water demand

- Projects aiming to reduce dependence on fossil fuels
- Proper system sizing, adequate installation space, and consideration of ambient conditions are essential to achieve optimal performance.

### HEAT PUMP WATER HEATER: HOW IT WORKS



Drawing shows the basic components and heat transfer process.

### Centralized Hot Water Systems

Centralized water heating systems supply hot water from a single plant room to multiple fixtures or zones. When properly engineered, these systems can deliver higher efficiency through optimized equipment selection and reduced redundancy.

High-efficiency centralized systems may incorporate advanced water heaters, modular configurations, or integration with waste heat sources. However, distribution losses can significantly impact performance. Effective pipe insulation, hydraulic balancing, and controlled recirculation are critical to maintaining efficiency across the system.

### Solar Water Heating Integration

Solar thermal technology offers a renewable approach to water heating by using solar collectors to preheat or directly heat water. While solar systems may not provide full coverage throughout the year, they can substantially reduce energy input from conventional sources.

Successful solar water heating systems depend on:

- Correct collector orientation and capacity
- Adequate thermal storage solutions
- Seamless integration with backup heating systems

For plumbing engineers, careful coordination of



collectors, storage tanks, circulation loops, and safety devices is essential for dependable operation.

### Control Strategies for Efficient Water Heating

Controls play a vital role in determining how efficiently a water heating system performs in real-world conditions. Poorly managed systems can waste energy through overheating, continuous circulation, or unnecessary operation during low-demand periods.

Efficient control measures include:

- Demand-based temperature regulation
- Timed or sensor-controlled recirculation pumps
- Smart thermostatic control
- Integration with building management systems

These strategies help minimize energy losses while ensuring consistent hot water availability.

### Plumbing Design and Installation Considerations

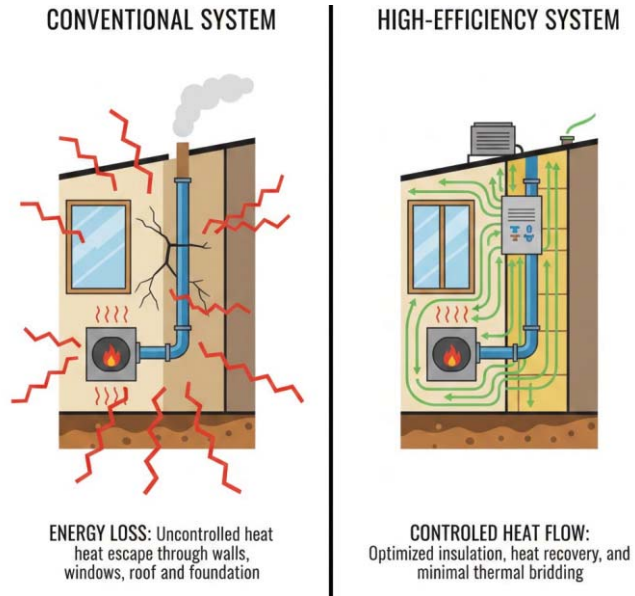
High-efficiency water heating systems place greater demands on plumbing design accuracy and installation quality. Important considerations include:

- Proper pipe sizing to reduce heat and pressure losses
- High-quality insulation for hot water and return lines
- Balanced recirculation systems to prevent temperature drop
- Selection of efficient pumps, valves, and fittings
- Compatibility with lower operating temperatures

Without well-executed plumbing infrastructure, even the most advanced water heating equipment cannot deliver its intended efficiency.

### Environmental and Economic Impact

Reducing energy consumption in water heating directly lowers greenhouse gas emissions and supports broader



sustainability goals. At the same time, efficient systems reduce operating costs, extend equipment lifespan, and lower maintenance requirements.

Although high-efficiency systems may involve higher upfront investment, long-term savings and improved reliability often result in favourable lifecycle economics.

### The Way Forward

As buildings evolve toward higher efficiency and lower environmental impact, water heating systems will play an increasingly important role in sustainable plumbing design. This transition calls for greater technical awareness, careful system integration, and adherence to best practices across design and installation.

By embracing high-efficiency technologies, intelligent controls, and robust plumbing engineering, the industry can deliver hot water solutions that meet modern performance expectations while responsibly managing energy and environmental resources.



**Aditi Mishra**  
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# Latest Plumbing Technologies

- Patel Manav Kunjanbhai

## Abstract

Plumbing systems are rapidly integrating digital sensing, trenchless rehabilitation, circular-water technologies and energy-efficient equipment to meet rising demands for resource conservation, resilience, and lower life-cycle costs. This paper reviews the latest plumbing technologies—trenchless pipe rehabilitation (CIPP and UV-cured liners), greywater recycling and compact in-building treatment, IoT-enabled leak detection and automated shutoff valves, low-flow and smart fixtures, recycled-material piping, and high-efficiency water heating (heat-pump and tankless systems). The review synthesizes industry reports, recent peer-reviewed studies, and commercial product developments (2024–2025), identifies knowledge gaps, and proposes a mixed-method research plan involving laboratory performance tests, life-cycle assessment (LCA), cost-benefit analysis, and an urban pilot study. Key findings indicate that trenchless methods can reduce disruption and embodied emissions compared with open-cut replacement; compact greywater treatment is now commercially viable for non-potable reuse in buildings; and IoT-based sensors plus smart shutoff devices substantially reduce water loss and property damage risk. The paper concludes with recommendations for policy, design standards, and future research directions to accelerate safe, equitable adoption.

## Introduction

Urban water systems face mounting pressure from population growth, aging infrastructure, and climate-driven water scarcity. Plumbing — the building-scale interface of potable- and wastewater systems — is pivotal for water conservation, energy efficiency, and public health. Recent innovations (2024–2025) show an industry shift toward minimally invasive pipe

rehabilitation, on-site water recycling, sensorised networks for leak detection, and smart fixtures that monitor and reduce consumption. This paper reviews these technologies, assesses their current maturity and barriers to adoption, and proposes a research methodology to quantify their performance in an Indian urban context.

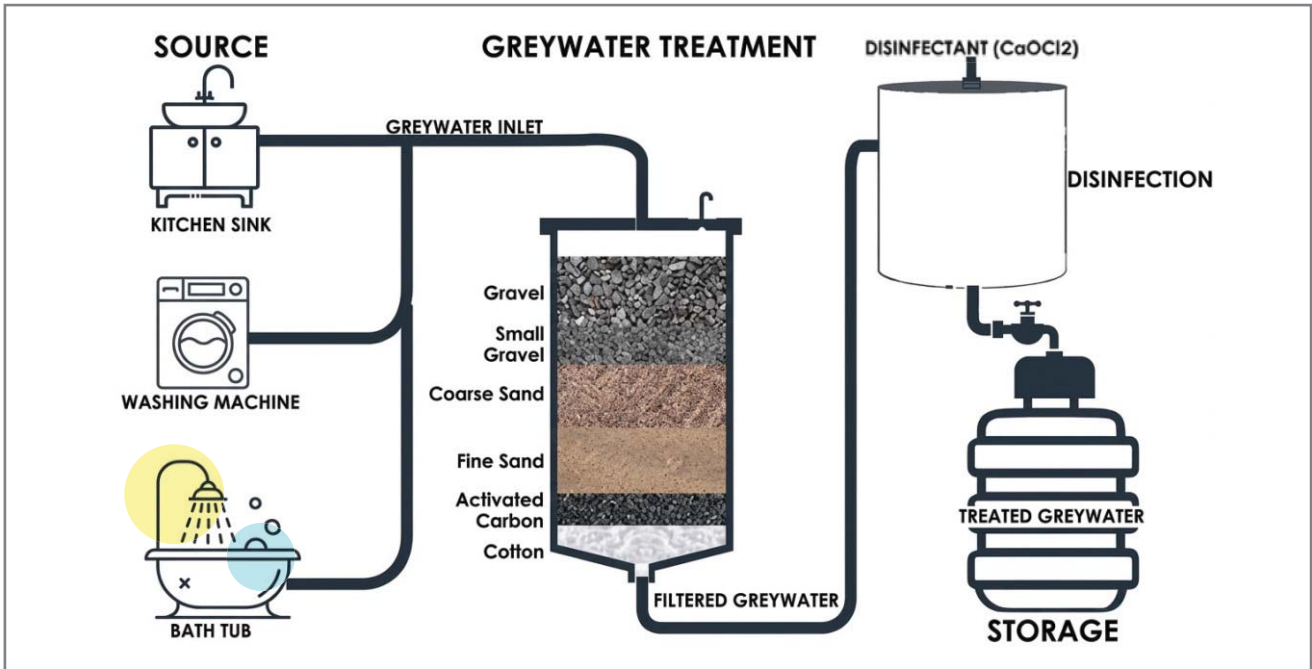
## Literature review

### Trenchless rehabilitation: CIPP and UV-cure liners

Cured-in-place pipe (CIPP) remains the dominant trenchless repair technology for both sewers and water mains, providing a resin-impregnated liner that cures in situ and forms a new inner surface without excavation. Recent research and industry reports (2024–2025) highlight improvements in resin chemistry, UV-cured liners, and low-emission cleaning/installation methods that reduce cure times and environmental footprint. UV-CIPP materials and improved liners increase



CIPP & UV-cure liners



installation speed and may widen applicability to potable-water mains when certified materials are used. Trenchless approaches reduce surface disruption, traffic impacts, and often show lower embodied carbon when compared to open-cut replacement, though long-term performance studies remain necessary.

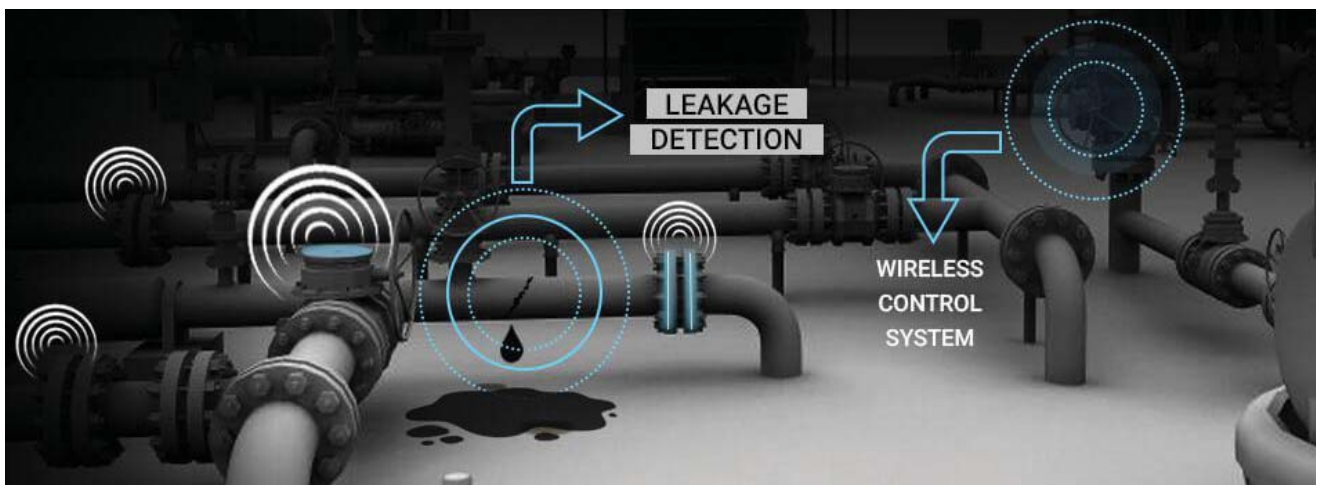
**On-site greywater recycling and compact treatment**

Greywater recycling has moved from pilot projects into compact, cabinet-sized systems suitable for single-family and multi-family buildings. Membrane filtration, biological compact reactors, and advanced disinfection have produced certified non-potable water for toilet flushing, irrigation, and laundry. Market analyses (2024–2025) report rapid uptake driven by drought risk

and building regulations encouraging water reuse. However, integration challenges include plumbing layout redesign, occupant acceptance, and operation/maintenance protocols.

**IoT-based leak detection and smart shutoff valves**

IoT sensors (flow, pressure, acoustic) plus edge/cloud analytics are transforming leak detection from reactive to proactive. Smart leak sensors, networked pressure monitors, and automated shutoff actuators (including Matter-compatible consumer devices) can detect anomalies and isolate leaks rapidly, reducing water loss and property damage. Recent product launches and reviews (2024) show improved interoperability through Matter and more affordable DIY-ready shutoff



actuators, enabling retrofit deployments in existing homes. Data privacy, sensor reliability in harsh conditions, and standards for plumbing interoperability remain open challenges.

### Water-efficient fixtures, smart showers and demand management

Low-flow fixtures (pressure-compensating aerators, dual-flush toilets) remain foundational. Beyond hardware, integrated smart showers and connected fixtures now provide real-time usage feedback and can be part of home-energy/water management ecosystems (e.g., Kohler–Samsung SmartThings integration). Such systems aim to change user behaviour while enabling utilities or building managers to optimize demand. Evidence on long-term behaviour change is emerging but mixed; costs and equity of access are concerns.

### Sustainable piping materials and circularity

New manufacturing processes allow higher-quality piping made from recycled plastics and metals. While early studies suggest acceptable durability for many applications, standards and certification pathways for recycled-material pipes must be strengthened before widespread potable-water use.

### Expected results

Based on reviewed literature, expected outcomes include:

- Trenchless (CIPP/UV) reduces surface disruption and may reduce embodied emissions vs full replacement

but LCA depends on liner lifespan and resin impacts.

- Greywater units can offset a significant fraction of non-potable demand (toilets, irrigation), but energy and maintenance trade-offs exist; certification and safe operation are critical.
- IoT leak detection combined with automated shutoff can substantially lower water loss and claim frequency; newer Matter-compatible actuators make retrofits easier and cheaper.

### Implementation challenges and policy implications

Key barriers: upfront cost, lack of local standards for recycled-material pipes and greywater reuse, skills gap in trenchless installation, data privacy and interoperability issues for IoT devices, and occupant acceptance. Policy recommendations: incentives for reuse systems, standardized certification for in-building greywater, mandatory leak-detection in high-risk buildings, and training programs for trenchless techniques.

### Conclusion

Recent plumbing technologies (2024–2025) are converging toward digital monitoring, circular water reuse, and less-disruptive rehabilitation. Combining field pilots, LCA, and stakeholder engagement will produce evidence to guide policy and design for sustainable urban plumbing. Rapid technology advances (IoT, UV-CIPP, compact biological membranes) make now an opportune time for targeted research and pilot deployment.



**Patel Manav Kunjanbhai**  
Civil Engineering Student  
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Patel Manav Kunjanbhai is a sixth-semester Civil Engineering student at CEPT University, Ahmedabad. He completed a Plumbing Design Studio in his fifth semester under the guidance of Dipsha Shah and Dipen Mehta, where he gained a strong foundation in plumbing system design, including water supply and drainage systems. His interests lie in building services and civil engineering, particularly in understanding how various building systems integrate within real-world construction projects and the practical application of modern engineering concepts in infrastructure development.

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# Water Efficiency & Smart Plumbing Systems: Designing Buildings That Think



## Part 2: Making Visibility Real – Metering, Reuse, and Trust

- Madhava Narasimha Murthy Nedunuri

### Introduction: From Insight to Action

In Part 1, we explored why water efficiency often fails despite good intentions. The root cause was not excessive consumption, but water blindness—systems operating without visibility into how water actually behaves once a township is occupied.

Visibility, however, is only the first step. For a plumbing system to become truly intelligent, insight must translate into action. That transition happens when measurement becomes meaningful, trusted, and operationally useful. In townships, this is achieved through a combination of smart metering, transparent reuse practices, and design decisions that acknowledge human behaviour alongside engineering performance.

This part examines how visibility is implemented on the ground, and why successful systems balance technology with trust.

### Smart Metering Is Not a Billing Tool

Smart metering is often introduced with a narrow objective: individual billing. While billing transparency is important, treating metering as a revenue or accounting mechanism significantly underutilises its real value.

In a township, smart metering serves three deeper purposes:

- It reveals how water actually moves through the system
- It stabilises operations by exposing abnormal patterns
- It reshapes user behaviour without enforcement

Effective metering begins at the source.

Source and Transfer Metering: Establishing the Baseline

Townships typically depend on multiple water sources—municipal supply, borewells, and tankers—each with different reliability and cost implications. Without source-level metering, management decisions are based on assumptions rather than facts.

Flow meters at each inlet establish a daily supply baseline. When combined with metering at underground sumps and



overhead tanks, they expose losses that are otherwise invisible—overflow, transfer inefficiencies, pump oversizing, or faulty level controls. Even small percentage losses at this stage can translate into significant annual wastage.

Once this baseline is visible, operational decisions shift from reaction to planning.

### Zonal Metering: Turning Intuition into Diagnosis

Between the source and the apartment, zonal or block-level meters play a critical role. These meters divide the township into identifiable hydraulic zones and answer questions that site teams struggle with daily.

Which blocks consume more water per household?

Where does night-time flow remain high?

Which zone behaves differently after pressure adjustments?

Zonal metering transforms intuition into diagnosis. Instead of responding to complaints generically, teams can isolate issues to specific zones and act decisively. This reduces downtime, avoids unnecessary pump operation, and shortens troubleshooting cycles.

### Flat-Level Smart Meters

At the household level, smart meters bring fairness and accountability. Residents pay for what they consume, which naturally discourages unnecessary wastage, such as overflowing overhead loft tanks, unattended garden hoses, or long-running taps. This is not about policing; it is about aligning responsibility with impact.

Smart metering also changes the relationship between residents and the system. In many townships, the absence of individual accountability leads to well-intentioned but careless behaviour, overhead loft tanks left open, hoses running longer than needed, and children playing with taps in parks. None of these actions feel harmful in the moment, but collectively they strain the system. When flat-level metering is introduced, people see their consumption patterns for the first time. Long showers, high-flow fixtures, or habitual overflow suddenly become visible and, because billing becomes transparent, behaviour naturally corrects itself. The change is not driven by restriction but by awareness. Most residents do not want to waste water; they simply never had the information to recognise it.

From an engineering perspective, metering is equally transformative. It provides load signatures that no consultant can predict during design. Weekday peaks

differ from weekend usage. The behaviour of towers with more working professionals differs from those with more senior citizens. Some clusters consume significantly more water per person because of lifestyle patterns, not plumbing inefficiency. Metered data helps operations teams tune pump schedules, balance pressure zones, and even plan future capacity with confidence. Over time, this visibility turns a complex distribution system into a predictable and manageable one.

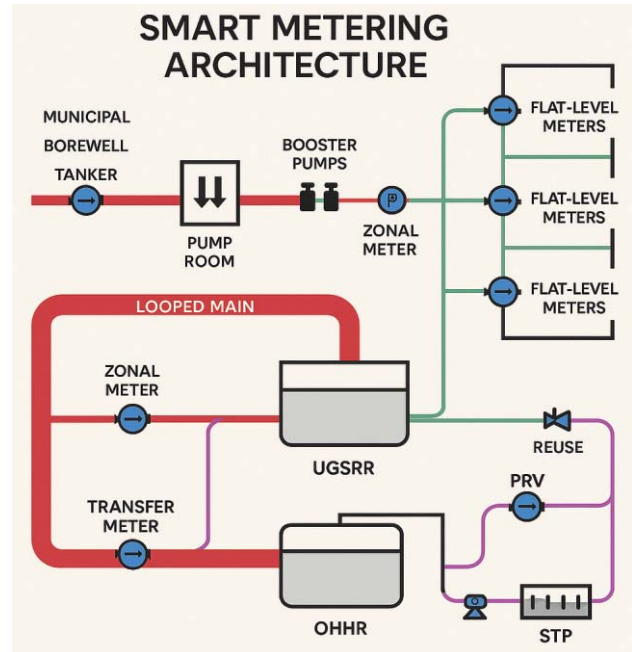


Fig 1: Smart Metering Architecture – Source, Zonal, Flat

STP Reuse: Technical System, Human Challenge

\*OHHR-Over Head High Rise Tank \*UGSR -Under Ground Sump

Modern MBR STPs can reliably produce clear, odour-free, low-turbidity water suitable for flushing and landscaping. Technically, well-designed plants meet and often exceed the quality needed for non-potable applications. Yet, acceptance is rarely decided by numbers alone.

Residents form opinions based on what they see, hear and experience:

- A badly maintained tank or foul odour in one corner of the site can erode confidence.
- Lack of communication about treatment stages creates fear.
- Absence of visible quality monitoring makes people



suspicious, even when the system is performing well.

For STP reuse to succeed, the engineering must be matched by communication:

- Displaying basic quality parameters on a common dashboard
- Using clear colour-coding and signage for reuse networks

- Conducting induction sessions for new residents and associations
- Demonstrating how reuse directly reduces dependency on external sources

When reuse is seen as controlled, consistent and transparent, it stops being a compromise and becomes a shared responsibility.

### Why Visibility Changes Operations:

When metering and reuse systems work together, the nature of operations changes quietly but fundamentally.

Pumps respond to actual demand rather than assumptions. Abnormal patterns surface early instead of escalating into failures. Billing disputes reduce because data is transparent. Maintenance teams spend less time firefighting and more time preventing issues.

Visibility does not add complexity. It removes uncertainty.



Fig: 2 Recycled Water Cycle & Communication

Part 3 will examine how long-term data transforms plumbing systems—enabling early leak detection, night-flow analysis, and calibrated operations as townships mature. It will conclude with practical design and operational principles for sustaining water efficiency over time.



**Madhava Narasimha Murthy Nedunuri**  
FIE, Senior MEP Leader

Madhava Narasimha Murthy Nedunuri, FIE, is a senior MEP leader who has spent two decades shaping complex building environments across India. His career spans leadership roles at Urbanac Infra Projects, IL&FS Engineering, Shapoorji Pallonji, and HCC, where he led delivery of high-rise residential towers, hospitals, malls, data centers, townships, and large commercial developments. A Fellow of The Institution of Engineers (India), Chartered Engineer, PMP®, PMI-RMP, and IGBC Accredited Professional, he is known for uniting technical clarity with execution reality. His approach emphasizes design-to-site alignment, lifecycle-focused decision-making, and building strong second-line leadership rather than dependence on individuals.

He can be reached at [madhu091@gmail.com](mailto:madhu091@gmail.com)



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# World Plumbing Day



## GOOD PLUMBING ENSURES PEACE IN LIFE

- Dr. Madhubanti Dutta

### PLUMBING: A CONCERN OF PAST, PRESENT & FUTURE

When was the last time you noticed your plumbing? Most of us don't—until a tap leaks, a pipe bursts, or a shower runs ice-cold. And suddenly, what was invisible becomes impossible to ignore. Yet it is this very invisibility that makes plumbing so powerful: the silent backbone of every comfortable home, every efficient workplace, every healthy community. Every year on **MARCH 11, WORLD PLUMBING DAY** reminds us that some of the strongest drivers of public health and national progress run quietly behind our walls and beneath our streets. In India's journey towards Viksit Bharat, water, sanitation, and plumbing are not merely support systems; they are core pillars of progress.

As Indian cities face rapid urbanisation, declining groundwater levels, and growing climate stress, the



How better plumbing knowledge saves you money

systems that carry water and waste are becoming as critical as roads and power networks. From ensuring safe drinking water in every home to building sanitation systems that protect dignity and health, plumbing infrastructure shapes how a nation lives, works, and grows. Clean water and hygienic, safe waste

management are the first line of defence against disease, the foundation of productive communities, and a critical enabler of economic growth.

**Know your home plumbing, avoid fines, and stop costly repairs before they start. A little awareness can save lakhs every year by keeping your pipes running smoothly, cut household costs, fix leaks, and save water.**

### PLUMBING: A PUBLIC HEALTH SHIELD

Since plumbing works silently and largely out of sight, it is often undervalued in policy and budgets—until failures turn into public health crises. One of the most direct reasons plumbing matters is its role in disease prevention. Waterborne illnesses such as diarrhoea, cholera, typhoid, and hepatitis thrive where water supply is unsafe and waste is poorly managed. Nearly 80% of preventable diseases start not in hospitals, but in the water flowing through our homes.

**For every rupee invested in clean water and sanitation, India saves ₹4 – ₹7 in health costs. Plumbing isn't just infrastructure—it's a shield against illness.**





**TABLE 1: WATER LOSS IN GROWING CITIES:**

City / Region	Water Supplied (Litres per 10 litres)	Water Lost to Leaks (Litres)	Percentage Lost	Key Insight
Delhi	10	3.5	35%	Nearly 1/3 of treated water never reaches taps
Mumbai	10	4	40%	High loss due to aging pipelines and leakages
Bengaluru	10	3	30%	Improved supply efficiency but still significant loss
Kolkata	10	3.2	32%	Urban expansion strains water infrastructure
Hyderabad	10	3.6	36%	Growing demand increases stress on pipelines

Source: Centre for Policy Research / ORF estimates on Non Revenue Water, Delhi non revenue water statistics, Urban water supply surveys & infrastructure reports

Note: Water loss figures are based on Non Revenue Water (NRW) estimates from urban water supply analyses and city water board reports, where treated water is lost before reaching billed consumers.

Secure pipelines, safe storage, and effective drainage systems break this chain of transmission. In practical terms, every protected water source and every safely managed sanitation system reduce the pressure on hospitals, protects children from repeated infections, and improves overall quality of life. Good plumbing, therefore, is not just infrastructure—it is a frontline public health intervention.

**Imagine a major city without running water for just 48 hours—hospitals stretched to the limit, schools forced to close, businesses grinding to a halt, and basic hygiene collapsing. In moments like these, it’s clear: plumbing is the thin line between order and chaos.**

Plumbing also matters because it shapes how efficiently a society uses its water. In a country facing increasing water stress, losses from leaks, inefficient fixtures, and poorly designed systems translate directly into wasted resources and higher costs. Modern plumbing systems make it possible to reduce wastage through better design, pressure management, reuse of greywater, rainwater harvesting, and efficient fixtures. National initiatives such as the Jal Jeevan Mission underline how plumbing infrastructure is the bridge between water policy and real improvements in household health and reliability of supply.

**Smart cities, booming tech, rising GDP—but billions still drink unsafe water. Efficient plumbing is no longer optional—it’s India’s lifeline, keeping taps running and saves rivers, reservoirs, and groundwater from running dry.**

The impact of plumbing extends beyond health and conservation into economic development. Reliable water and sanitation services are basic requirements for

agriculture, industry, tourism, healthcare, and education. Businesses cannot function without dependable water supply; schools and hospitals cannot operate safely without sanitation; households cannot remain productive when time and income are lost to illness or water collection. By improving reliability and reducing risk, plumbing infrastructure supports productivity, attracts investment, and lowers long-term public expenditure on health and emergency responses.

**We are not just leaking water—we are leaking wealth. Every drop of water lost is a rupee of national income gone: poor sanitation drains 6% of India’s GDP, proving that plumbing isn’t luxury—it’s a direct boost to productivity, resilience, and economic growth.**

### **WORLD PLUMBING DAY: MORE THAN A SYMBOLIC OBSERVANCE**

Plumbing is also deeply linked to social equity and dignity. Access to toilets, safe bathing spaces, and clean water within or near the home changes daily life, especially for women, children, the elderly, and persons with disabilities. It reduces the burden of unpaid labour, improves safety, supports school attendance, and enhances personal dignity. In this sense, plumbing is not only a technical system—it is a social equaliser that helps narrow gaps in opportunity and well-being.

Finally, plumbing is central to environmental protection and urban resilience. Poorly managed wastewater and stormwater pollute rivers, lakes, and groundwater, while overloaded or failing systems increase the risk of floods and public health emergencies. Well-planned plumbing and drainage systems, combined with wastewater treatment and reuse, help protect ecosystems and make cities more resilient to climate-related stresses.

## Plumbing as an Economic Engine



According to government estimates, India's urban population is projected to reach nearly 600 million by 2030, while many cities lose 30–50% of treated water through leaks and inefficiencies.

World Plumbing Day is therefore not merely a symbolic observance. It is a reminder that behind every functioning city and every healthy community lies a complex network of systems that must be planned, built, operated, and maintained with care. It also offers an opportunity to recognise the role of skilled professionals and institutions that keep these systems working and to renew public attention on water, sanitation, and hygiene as development priorities. As India accelerates its transformation, strengthening water and sanitation systems will remain central to building healthier communities, stronger cities, and a more sustainable future.

### CONCLUSION

Plumbing is often invisible in daily life, yet its impact is felt in every dimension of development—from public health and environmental protection to economic productivity and social dignity. As India continues to expand access to safe drinking water and sanitation, the focus must now increasingly shift from coverage alone

to quality, efficiency, reliability, and long-term system performance. Well-designed and well-maintained plumbing systems reduce disease, conserve scarce water resources, protect ecosystems, and strengthen the foundations of sustainable growth.

World Plumbing Day serves as an important reminder that behind every healthy community and every functional city lies a complex network of infrastructure and skilled professionals. Strengthening this ecosystem—through better standards, stronger institutions, skilled manpower, and responsible water use—is not a peripheral task, but a core development priority. On World Plumbing Day, we are reminded that plumbing is not just about pipes and fittings—it is a quiet but powerful backbone of modern society and a key driver of India's journey towards a healthier, more sustainable, and truly developed nation. On World Plumbing Day, we are reminded that the pipes we do not see are among the most important investments we can make in India's health, dignity, and sustainable future.

**A city's real strength is not in its skyline—it's in the pipes, pumps, and plumbing that keep it alive.**



**Dr. Madhubanti Dutta**  
Manager, Water Audit Council

Dr. Madhubanti Dutta is an Environmental Economist with over a decade of experience at the intersection of climate change, water sustainability, and policy. She is presently associated with the Water Audit Council, where she leads initiatives on water governance, efficiency, and net-zero water strategies. Previously, she has worked with NITI Aayog Gol, engaging in policy development on industrial decarbonization and resource efficiency, and with the World Energy Council India, where she directed research on sustainable energy transitions and net-zero strategies.

Her research genre lies in regenerative agriculture, climate adaptation, and sustainable development economics, with her PhD focusing on climate resilience and carbon sequestration. Dr. Dutta has an extensive publication record covering topics such as water use efficiency, green growth, and sustainable urban transitions, and has also served in leadership and teaching roles at institutions like IIM Ahmedabad and Gujarat University.

She can be reached at [info@wateraudit.in](mailto:info@wateraudit.in)

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# INDIAN PLUMBING ASSOCIATION

## Journey through 1993 - 2013



**On the occasion of  
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glimpses from the past,  
especially for the benefit of  
those who have joined us in  
the last few years.**

In the vast landscape of India's building boom of the 1990s, when towering skyscrapers rose alongside historical monuments and cities redefined their skylines, an unseen revolution was quietly underway. Not in steel or concrete, but in the heart of every building's infrastructure: plumbing. While most people take water and sanitation for granted, plumbing plays an indispensable role in health, hygiene, and quality of every human life and environment.

It was into this context that a visionary idea was born, one that would bring plumbers, engineers, architects, educators, manufacturers, and students together under one shared mission: to professionalize plumbing and raise awareness about its crucial role in modern India.

### **Where It All Began — 11th March 1993: Vision Becomes Reality**

In 1993, amidst rapid urban development and rising challenges in safe water and sanitation, a group of industry leaders led by Shri S. G. Deolalikar, presently the Chairman Emeritus, came together to address a glaring need, a national platform for plumbing professionals to share knowledge, expertise, and best practices. This was the foundation of the Indian Plumbing Association (IPA) formally registered as an NGO, spread across India, with the inspiring mission of **"Better Plumbing for Better Living."**

## The Inception of Indian Plumbing Today

In 2001, the Indian Plumbing Association took a visionary step toward knowledge sharing and professional empowerment with the launch of Indian Plumbing Today (IPT) - its official publication. Spearheaded under the stewardship of Shri S. G. Deolalikar as the Managing Editor, IPT was conceived as more than just a magazine; it was envisioned as a platform to inform, inspire, and unite the plumbing fraternity across India.

Initially introduced as a quarterly publication, IPT quickly gained recognition for its technical depth, industry insights, and thought leadership. Responding to growing readership and increasing engagement within the plumbing community, it transitioned into a bi-monthly edition in 2002, continuing in this format until June 2006.

As the industry evolved and the appetite for knowledge expanded, Indian Plumbing Today grew alongside it. Today, IPT proudly stands as a monthly publication, consistently reaching every member of the IPA family, as well as professionals and stakeholders from allied industries.



## The Beginning of the Indian Plumbing Conference

The journey of the Indian Plumbing Conference (IPC) began in 2003, when the 1st Indian Plumbing Conference was held in New Delhi under its earlier name - the National Conference on Plumbing.



## Plumbex — Elevating Indian Plumbing to the Global Stage

In its continuous pursuit of excellence and global integration, the Indian Plumbing Association conceptualized a landmark initiative in 2008- Plumbex India, the country's only international trade show dedicated exclusively to plumbing and allied products.

## Codes & Standards - Aligning with Global Excellence

Indian Plumbing Association took a decisive and visionary step toward standardization and global integration. To ensure that Indian plumbing practices could meet world-class expectations while still addressing local realities, IPA entered into a strategic agreement with the International Association of Plumbing and Mechanical Officials (IAPMO), USA.

Through this collaboration, IPA secured the rights to use, adopt, edit, and supplement the Uniform Plumbing Code (UPC). While preserving the fundamental principles and technical integrity of the original code, it was carefully adapted to suit Indian laws, climatic conditions, infrastructure realities, and accepted good engineering practices starting from 2008.



## India on the Global Plumbing Stage

Even before the Indian Plumbing Association was formally established in 1993, the spirit of international engagement was already taking shape. That very year, a distinguished delegation led by Shri S. G. Deolalikar, comprising six members, attended the World Plumbing Council (WPC) meeting in Hong Kong.

India's global presence strengthened further in 2005 when, during the World Plumbing Conference held in Auckland, Shri. Sudhakaran Nair, nominated by the IPA President was elected as a Member of the Executive Board of the World Plumbing Council.

Shri. Sudhakaran Nair's continued dedication and contribution to the international plumbing fraternity culminated in a historic achievement in 2013, when at the World Plumbing Conference held in New Delhi, he was elected as the Chairman of the World Plumbing Council.

This was a landmark moment Shri. Sudhakaran Nair became the first Indian and the first Asian to receive this distinguished honour, marking a proud chapter not only for IPA but for the entire Indian plumbing fraternity.



## Plumbing Labs - Nurturing the Next Generation of Professionals



With a clear vision to bridge the gap between theory and practical application, the Indian Plumbing Association resolved to establish a world-class plumbing laboratory equipped with advanced products and live working modules for the benefit of students and the plumbing and building fraternity.

On 1st September 2006, a significant milestone was achieved when a Memorandum of

Understanding (MoU) was signed between the Indian Institute of Plumbing (IIP) — an initiative of IPA, and the College of Engineering Pune (COEP) to conceptualize and develop a unique plumbing laboratory. This pioneering facility was formally inaugurated on 14th February, 2008 at COEP, in the esteemed presence of the Chairman of the World Plumbing Council, marking a proud moment for Indian plumbing education and industry collaboration.

Through these initiatives, IPA continues to invest in education, innovation, and capacity building ensuring that India's plumbing sector remains technically robust, globally aligned, and future-ready.

IPA takes immense pride in celebrating World Plumbing Day on 11th March, which started from 2010, a date that holds dual significance as it also marks the Founders' Day of the Indian Plumbing Association.

Today, the Indian Plumbing Association stands not just as a professional body, but as a movement, advocating water stewardship, safer sanitation, cleaner cities, and better lives for millions. From its humble beginnings in 1993 and first major milestone at the 2003 IPC, IPA has woven together a vibrant community that continues to innovate and elevate plumbing practices nationwide.

In a world increasingly focused on sustainability and infrastructure resilience, the IPA's journey reminds us that even the most invisible systems, like plumbing, are essential to building a healthier, more sustainable future.

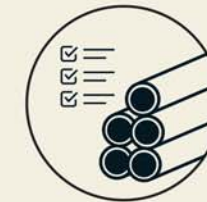
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# WOMEN

## IN THE WATER, SANITATION AND PLUMBING INDUSTRY



India's plumbing, water, and sanitation sector is quietly undergoing a transformative shift. What was once seen as a conventional technical domain is now being recognized as central to public health, safe water access, sanitation, sustainable urban development, and even the evolving AI-driven economy. Modern data centres, for instance, increasingly depend on advanced liquid-cooling systems, efficient water management, and precision piping infrastructure, making plumbing a future-critical skill. It is encouraging that women are steadily stepping into this space with competence, clarity, and conviction. From laboratories to lecture halls, from design studios to manufacturing floors, from research forums to boardrooms, women are influencing how water systems are conceptualized, managed, and improved. Their contribution is not symbolic; it is structural. Recognizing the importance of this sector, P&AP bureau, AICTE was instrumental in introducing a minor specialization in Plumbing with the objective of creating skilled professionals for this essential field. The inclusion of Plumbing (Water & Sanitation) within engineering curricula reflects a deeper understanding that this sector is foundational to nation-building. When education opens doors, industries transform; when institutions create pathways, leadership diversifies. On this Women's Day, my message to young women is clear: infrastructure is not only about steel and concrete—it is about systems that sustain life. Your ideas, technical rigor, and leadership will define how India conserves water, designs resilient cities, supports advanced industries, and builds equitable communities. The future of plumbing and water management will not be shaped by tradition alone, but by talent. And talent knows no gender!



**Dr. Mamta Rani Agarwal**  
Higher Education Policy Expert and  
Former Adviser-I, Policy and Academic Planning



# WOMEN

## IN THE WATER, SANITATION AND PLUMBING INDUSTRY



My journey in the water and wastewater treatment sector has reinforced my belief that technical excellence and leadership are gender neutral. Today, women are not only participating but leading complex infrastructure, sustainability, and resource recovery projects. From engineering innovation to circular economy-driven solutions, their contributions are reshaping plumbing, water and sanitation. As the sector advances toward water security and environmental resilience, greater inclusion of women in core engineering and entrepreneurship will strengthen community outcomes and accelerate sustainable development. The future of water management must be inclusive, collaborative, and driven by competence beyond gender.



**Minu Singh**  
Sr. Manager – Technology  
Ion Exchange (India) Limited

On this women's day, it's a great moment to reflect on incredible transformation within India's plumbing sector - an industry once known for its male dominance but gradually women have entered seamlessly into manufacturing, trading, skillsets in plumbing sector. Women are no longer just participants but decision makers, innovators, business owners too.

With growing support for women entrepreneurs from Indian government, many are stepping into roles that we could not think of before in plumbing sector.

As a woman manufacturer of plumbing valves, I have first hand experience of how this field is much more about problem solving, independence, creating homes, schools, hospitals and infrastructure for cities and villages. It's about building with purpose.

To the next generation of women: your ideas, courage, skills, energy, are essential to take this sector up and break all stereotypes, break all barriers to contribute to plumbing world.



**Nalini Mishra**  
Director  
VB Valves Pvt. Ltd.

As an engineer and entrepreneur in the field of Sustainability, I believe women are uniquely positioned to lead the blue revolution. Water has a profound, traditional connection to women, providing us with an intuitive understanding and when paired with technical expertise it drives a groundbreaking innovation in water management and sustainability. Our role includes bridging the gap between resource conservation and modern infrastructure. By championing net-zero goals and resilient plumbing technologies and design, we don't just build but we preserve life resource. I encourage more women to join the field and embrace their unique perspective to innovate, lead, and engineer a water-secure future for all.



**Dr. Saandeevani Vajje**  
CEO - Chinoy Design  
Chairperson IPA Amaravati



# WOMEN

## IN THE WATER, SANITATION AND PLUMBING INDUSTRY



On the occasion of International Women's Day, it is vital to reflect on the growing importance of women in the plumbing industry.

Women professionals in plumbing are not only contributing technical expertise but also reshaping the industry with perspectives rooted in sustainability, inclusivity, and innovation. Their involvement strengthens the sector's ability to address pressing challenges such as water conservation, sanitation, and climate resilience.

Encouraging more women to join and lead in plumbing is not just about equity—it is about unlocking the full potential of the industry. By mentoring young talent, creating supportive workplaces, and recognizing women's achievements, we can ensure that plumbing evolves into a truly diverse and future-ready profession.

This Women's Day, let us celebrate the women who are already making a difference, and commit to building pathways for many more to follow.



**Manjula Thavarekere**  
Director,  
Adithi MEP Consultants  
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As the world confronts intensifying climate realities, global platforms like United Nations Climate Change Conference continue to underscore water as one of the most urgent climate risks. In India's rapidly urbanizing cities, the crisis is no longer distant — groundwater depletion, erratic monsoons and stressed infrastructure are daily realities. Achieving United Nations Sustainable Development Goals — particularly SDG 6 on clean water and sanitation — demands a decisive shift in how we design, build and operate our built environment.

As plumbing professionals, we must move beyond compliance to leadership: designing for water sufficiency, net-zero water buildings, reuse and recharge, and driving implementation with energy-efficient optimization and lifecycle maintenance. Equally critical is building awareness across developers, architects and facility managers — creating a tribe of believers who see water as a finite asset.

On this Women's Day, we recognize that women — as engineers, designers, sustainability leaders and decision-makers — are uniquely positioned to champion innovation, leverage technology and become transformative changemakers for a water-secure urban India.



**Shobha Regunathan**  
Founder, The Build Ed  
Founder Member & Governing  
Council Member, WiREnet World



# Women Who Build the Flow of Change

- Ranjini Venugopal



This International Women's Day, we celebrate the women who are quietly yet powerfully transforming India's plumbing, water, and sanitation sectors. Once seen as a male-dominated trade, plumbing today is witnessing a steady rise in female participation not just as workers, but as leaders, entrepreneurs, and educators.

Women are no longer standing on the sidelines of infrastructure development. They are designing, installing, managing, and innovating the very systems that keep India healthy and moving forward.

As India urbanizes rapidly and infrastructure demand grows, the need for professionally trained plumbers is critical. Plumbing is not merely a trade, it is a specialized technical profession that directly impacts public health, water conservation, and environmental sustainability.

The future of India's water systems, sanitation networks, and infrastructure resilience depends on skilled hands and informed leadership regardless of gender.

As we celebrate Women's Day, let us commit to

expanding plumbing education, supporting women entrepreneurs, and building an industry where talent flows freely.

Because when women build the systems that carry water, they carry a nation forward.

Plumbing may not always appear in traditional career guidance sessions, yet it is one of the most important professions in modern society. Every safe home, every school washroom, every hospital water line depends on skilled plumbing systems. And India needs more trained professionals including young women to lead the future.

Through initiatives from Indian Plumbing Association, National Skill Development Corporation, young women can access structured vocational training, certification programs, and industry exposure. These programs are opening doors to careers that were once considered out of reach.

This Women's Day, consider a career that is practical, powerful, and full of opportunity.

**Girls , Pick up the wrench, Build your future, Let your success flow.**

**Ranjini Venugopal**

AECOM India

Associate Director

Public Health Engineering & Fire Protection Systems



Ranjini Venugopal is a graduate in Environmental Engineering, Environmental Law, and Environmental Management Systems from the National Law School of India University and the Indian Institute of Science. With over 20 years of experience, she specializes in sustainable Public Health and Fire Protection Engineering solutions across residential, commercial, IT parks, data centers, and hospitality projects. A certified trainer, she is actively engaged in plumbing education initiatives, working to bridge the industry skill gap and empower certified plumbers and engineers across India.



# Designing Water-Building Health-Protecting Future



“ I design water systems.  
I build health.  
I protect resources. ”

This is not just a statement.

It is a **vision**.



**IPA Vanita**, the women’s wing of the Indian Plumbing Association, envisions a future where young girls proudly step into the world of plumbing—not as helpers, not as exceptions—but as skilled professionals, designers, consultants, and entrepreneurs.

Plumbing is far more than pipes and fittings. It is the foundation of public health, safe sanitation, clean drinking water, wastewater management, and sustainable infrastructure. Every hospital that functions safely, every school that provides hygienic facilities, every rainwater harvesting system that recharges groundwater—depends on scientifically designed plumbing systems.

When women enter this profession, they bring precision, responsibility, and a deep understanding of water as a life-sustaining resource. They do not merely install systems; they strengthen communities.

Through structured skill development, school outreach, technical awareness programs, and leadership opportunities, IPA Vanita is encouraging women and young girls to see plumbing as a dignified, respected, and future-ready career. By aligning with national skilling initiatives and educational reforms, the mission is clear: create pathways where girls can move from learning the basics of water systems to leading sustainable infrastructure projects.

Empowering women in plumbing is not only about inclusion. It is about competence. It is about sustainability. It is about national development.

When a girl says, “*I design water systems. I build health. I protect resources,*” she is not just choosing a career—she is choosing to safeguard India’s water future.

And that future begins now.



**Meru Koipuram**  
National Convenor, IPA Vanita

Meru Koipuram is a passionate advocate of scientific plumbing, water conservation, and skill development. With over 30 years of experience in the plumbing field, she works to promote structured training and awareness programs that help young people understand the importance of water systems in everyday life. As the National Convenor of IPA Vanita, the women’s wing of the Indian Plumbing Association, she leads initiatives that encourage more women to enter the plumbing profession—not only in practice, but also in design, drafting, planning, and project execution.

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# An Exclusive Conversation with Gorika Shyam

Managing Director, Geberit Plumbing Technology India Pvt Ltd



An interview by  
IPT Editorial Team

**IPT: As a woman professional, what advice would you offer to other women aspiring to build a career in this field?**

**Gorika Shyam:** In an era where infrastructure, sustainability, and public health converge, the water and sanitation sector in India is experiencing a profound transformation. With rapid urbanization, climate pressures, and rising expectations for hygiene and efficiency, the industry has never been more dynamic—or more demanding. Amid this momentum, women leaders are shaping a new narrative grounded in innovation, resilience, and collaboration.

Success in this sector requires a blend of **technical competence, continuous learning, and interdisciplinary understanding for all women**. The ecosystem spans engineering, sustainability, public health, and infrastructure governance. Women who embrace this breadth gain a strong foothold in strategic decision-making roles. Hence from architects to plumbing consultants to sales, women workforce from the building industry continue to work towards influencing meaningful change.

**IPT: How would you rank the present state of water, sanitation, and plumbing practices in India at par with those of developed nations?**

**Gorika Shyam:** India has made significant strides in water and sanitation.

### Key Strengths

- Massive reduction in open defecation, with an estimated 450 million people gaining access to toilets since the launch of the Swachh Bharat Mission (SBM). This is one of the world's largest sanitation transformations. [[unicef.org](https://www.unicef.org)]
- Extensive investments in urban and rural sanitation such as the Jal Jeevan Mission and AMRUT, improving potable water access and basic urban infrastructure.

### Gaps That Still Exist

- Wastewater management and solid waste processing remain insufficient, with a need for stronger circularity and integration across supply chains.



**IPT: Innovation is a core pillar for Geberit globally. Can you share insights into how R&D and product innovation are driving efficiency, hygiene, and performance?**

**Gorika Shyam:** Geberit’s innovation strategy is a powerful combination of engineering excellence, user-centric design, and long-term sustainability thinking. By focusing on:

- Efficiency — easier installation, water & energy savings
- Hygiene — touchless tech, rimless designs, advanced materials
- Performance — durability, acoustics, hydraulic optimization

Geberit continues to lead the global sanitary industry with solutions that raise standards in buildings and enhance everyday living.

**IPT: What roles do exhibitions like PlumbexIndia, Indian Plumbing Professional League (IPPL), Indian Plumbing Conference (IPC) and publications like Indian Plumbing Today play in your strategy?**

**Gorika Shyam:** Participation in exhibitions like Plumbex India and other plumbing exhibitions enables us to showcase our latest innovations in concealed cisterns, piping systems, and sustainable bathroom solutions to a highly engaged professional audience. These exhibitions provide a powerful platform to demonstrate product performance, installation efficiency, and system reliability — qualities that define the Geberit brand worldwide.

These platforms strengthen collaboration across the plumbing ecosystem. For Geberit, they are not just marketing opportunities — they are strategic touchpoints that help us drive innovation, raise quality benchmarks, nurture professional skills, and contribute meaningfully to the advancement of India’s plumbing industry.

**IPT: How important are collaborations with industry bodies like the Indian Plumbing Association for Geberit’s growth?**

**Gorika Shyam:** Collaborations with the Indian Plumbing Association (IPA) are central to Geberit’s growth and long-term commitment to India. Our partnership is built on a shared vision — elevating industry standards, strengthening professional skills, and promoting sustainable plumbing practices.

Through technical knowledge-sharing, training initiatives, and industry forums, we contribute global expertise while aligning with India’s evolving regulatory and infrastructure needs. This collaboration enables deeper engagement with consultants, architects, and plumbing professionals, reinforcing system-based solutions that prioritize performance, durability, and water efficiency.

For Geberit, working with IPA is not just strategic — it reflects our responsibility toward advancing a more skilled, sustainable, and future-ready plumbing ecosystem in India.

**Gorika Shyam**

Managing Director, Geberit Plumbing Technology India Pvt Ltd

Gorika Shyam is the Managing Director of Geberit Plumbing Technology India Pvt Ltd. With over 25 years of experience in sales and marketing, she has led the India Sales Team for the past 15 years, driving strategic initiatives and consistent growth. Promoted to Managing Director in May 2025, she holds a BHM, an MBA, and has completed Strategic Leadership course from Indian Institute of Management Bangalore and one-year LEAD program from the University of St. Gallen, Switzerland.

# IPA Neerathon Pune 2026 – Water Awareness Festival, Run to Save Water.

The first edition of IPA Neerathon Pune 2026 – A Run to Save Water, was successfully organized on 15th February 2026 at BMCC Ground, Pune. The event brought together 950+ enthusiastic runners from across the city to promote awareness about water conservation while encouraging a healthy and active lifestyle. The initiative aimed to highlight the urgent need for responsible water usage and conservation in urban communities, especially in rapidly growing cities like Pune.

## Distinguished Presence and Leadership:

The event commenced with an inspiring inaugural ceremony graced by Honourable Member of Parliament, Dr. Medhatai Vishram Kulkarni, who served as the Chief Guest for the occasion. Her esteemed

presence added great significance to the IPA Neerathon and reinforced the importance of the cause.

In her address to the participants, Dr. Kulkarni emphasized the critical need for water conservation and the role citizens must play in safeguarding natural resources. She applauded the efforts of the IPA Pune Chapter for organizing a meaningful event that integrates public health awareness with environmental responsibility.

The presence of past and present office bearers of the IPA Pune Chapter added immense grace and distinction to the event. Their guidance, vision, and enthusiastic involvement played a pivotal role in making the occasion truly memorable, further reinforcing the Association's commitment to bringing professionals



Dr. Medhatai Vishram Kulkarni addressing the crowd

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and the public together under the shared vision of sustainable development.

Adding to the spirit of participation, IPA Vanita members — Manisha Shah, Shobha Javanjal, and Shilpa Gandhi, actively took part in the 3 km Fun Run and successfully completed it, reflecting both energy and solidarity in support of the cause.

### Sponsors And Partners:

The success of IPA Neerathon Pune 2026 was made possible through the generous support of sponsors and partners who share IPA's vision of a water-secure future:

- Trophy Sponsor: **Geberit Plumbing Technology**
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- Vendor Table Sponsor: **Astral Ltd.**
- Physio Partner: **Sancheti Group of Hospitals**
- Healthcare Partner: **MAEER's VishwaRaj Hospital**
- Nutrition Partner: **Hotel Tip Top International, Pune**



### Event highlights:

The central theme of the Neerathon — “A Run to Save Water”—was effectively communicated throughout the event. Awareness banners, informative displays, and public announcements highlighted simple yet impactful measures such as reducing water wastage, and mindful consumption. A special water saving live demo was showcased at the event. Most of the runners visited the demo and get the information about water saving with the help of PCA Aerator.

The collective efforts of these esteemed sponsors and partners significantly elevated the stature of IPA Neerathon Pune 2026. Their shared commitment to sustainability, healthcare, and community development played a pivotal role in transforming the event into a meaningful and impactful initiative dedicated to saving water and promoting healthy living.

A special highlight of the **Neerathon Pune** event was the remarkable support extended by various institutions and organizations. The **Student Chapters** demonstrated exceptional enthusiasm by registering **260 students** for the run. **AFMC** contributed significantly with **196 runners**, while **NCC** showed strong participation by registering **93 runners**.

### Recognition and Felicitation

Upon completion of the race, winners across various categories were felicitated with trophies and e-certificates in recognition of their outstanding performances. All participants were presented with participation medals as a token of appreciation for their enthusiastic involvement and support of the noble cause.

The prize distribution ceremony concluded the event on a celebratory note, acknowledging both competitive achievements and collective participation.



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L-R: Mukthesh Pathi,  
Dr. Abdul Matheen,  
Chandra Shekhar Gupta,  
Dr. K Chandrasekhar,  
Rohit Srivastava

Chandra Shekhar Gupta, IPA National Vice President along with Rohit Srivastava, IPA Manager – Outreach met Dr. K Chandrasekhar, Managing Director, IAPMO India, Dr. Abdul Matheen, Director of Certification / Mechanical, IAPMO India and Mukthesh Pathi, Director of Water Technology & Laboratory, IAPMO India at the IAPMO India Office, Bengaluru.



L-R: Chandra Shekhar Gupta, R.K. Oberoi, Gurmit Singh Arora, Rashmi B. Tandon, Rohit Srivastava

Gurmit Singh Arora, IPA National President, Chandra Shekhar Gupta, IPA National Vice President along with Rohit Srivastava, IPA Manager – Outreach met Prof. (Dr.) Rashmi B. Tandon, Deputy Director (TRC–COA), and R.K. Oberoi, Registrar, COA, on 12th February 2026, at the Council of Architecture (COA), NBCC Office, New Delhi.

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## Trivandrum Chapter



IPA Trivandrum Chapter honoured Ar. N. Mahesh (Founder chairman, IPA Kerala Chapter) in appreciation of 50 years of distinguished service in Architecture.

## Raipur Chapter



IPA Raipur Chapter successfully planted 13 saplings as part of the **“Ek Ped Maa Ke Naam”** initiative.



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### Kolhapur Chapter Elections

Elections were held in IPA Kolhapur Chapter for the 3 years term 2026 – 29 on Friday, 30th January 2026 with the General Body Meeting. All the candidates who filed nominations were elected unopposed and were administered the oath of office by the Returning Officer.

**Returning Officer:** Anantha Siva Iyer, IPA Zonal Director, West

**Election Date:** 30th January 2026

Sl. No.	Name of Candidate	Elected for the post	Election Mode
1.	Ravikant R Salunkhe	Chairman	Unopposed
2.	Kiran Vinayak Joshi	Vice Chairman	Unopposed
3.	Dr. Girish Shrinivas Kulkarni	Hon. Secretary	Unopposed
4.	Sheetal R Patil	Hon. Joint Secretary	Unopposed
5.	Devang R Sheth	Hon. Treasurer	Unopposed
6.	Sushant Anita Yeshwant Nangare	Exe. Committee Member	Unopposed



Sheetal R Patil – Hon. Joint Secretary; Kiran Joshi – Vice Chairman; Anantha Siva Iyer – Returning Officer; Ravikant R Salunkhe – Chairman; Sushant Anita Yeshwant Nangare – Exe. Committee Member; Devang R Sheth – Hon. Treasurer; Dr Girish Shrinivas Kulkarni – Hon. Secretary.

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# Know Your Chapter Chair



**Ravikant R. Salunkhe**

Chairman, IPA Kolhapur Chapter

Ravikant R. Salunkhe is the Director at Yashaada Engineering Services Pvt. Ltd., with over 12 years of experience, he has delivered healthcare, hospitality, residential, and commercial projects. He can be reached at [kolhapur@indianplumbing.org](mailto:kolhapur@indianplumbing.org)

## 1. How did your professional journey begin in the field of plumbing, water, and sanitation?

My academic foundation is in Electrical Engineering, having completed both a Diploma and a Bachelor's degree in the field. While working as an Electrical Design Engineer, I identified a significant shortage of technically trained professionals in plumbing. Recognizing this gap, I pursued postgraduate studies in MEP and subsequently transitioned into Plumbing Design Engineering.

## 2. As Chapter Chair, how do you balance plumbing excellence with water sustainability and sanitation goals?

I emphasize technically sound designs that integrate water efficiency, code compliance, and lifecycle performance. By promoting the best practices, training, and awareness, we strive to ensure plumbing excellence with sustainability goals, improved sanitation standards, and responsible water management objectives.

## 3. What pressing concerns do you see in India's plumbing and sanitation landscape today?

Key concerns include inadequate skill development, poor implementation of standards, water wastage, and lack of lifecycle thinking in plumbing systems. Strengthening technical training, improving regulatory enforcement, and enhancing awareness around water efficiency are essential to achieving sustainable, long-term impact.

## 4. How are IPA's programmes contributing to improved plumbing standards and responsible water use?

IPA's training programmes, technical seminars, and certification initiatives enhance professional competency and promote standardization. By disseminating updated codes and sustainability practices, IPA plays a crucial role in improving plumbing quality and advancing responsible water utilization nationwide.

## 5. What advice would you give to the next generation of professionals committed to water and sanitation?

Build strong technical fundamentals, develop a thorough understanding of codes and standards, and prioritize sustainability in every design decision. Continuous learning, ethical practice, and innovation in water conservation technologies will define the future leaders of plumbing and sanitation.

## 6. How do you envision IPA's role evolving in advancing sustainable plumbing and sanitation practices?

IPA's role will continue to evolve as a catalyst for sustainable plumbing and sanitation practices by strengthening industry-academia collaboration, expanding structured skill development initiatives, and promoting water-positive infrastructure approaches. By contributing to policy dialogue, encouraging innovation, and nurturing leadership within the sector, IPA can further elevate sustainable plumbing and sanitation standards across India.



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