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Indian Plumbing Today

Vol 07/ Issue 09/ December 2025 Annual Subscription: ₹ 240 Total no. of Pages: 70

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IPA Lifetime Achievement Award 2025 conferred upon Sh. Minesh Shah

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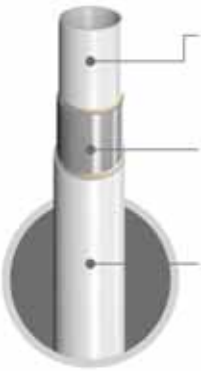

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Published by
Chandra Shekhar Gupta

Printed by
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On behalf of
Indian Plumbing Association

Printed at
Infinity Advertising Services Pvt. Ltd.,
Plot No. 171 & 172, Sector 58
Faridabad – 121 004. Haryana

Published from
Indian Plumbing Association
416, DLF Prime Tower
79 & 80, Okhla Phase 1
New Delhi – 110 020.

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Sharatchandra Venkat Rao

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MY PAGE

Dear Readers,

As we come to the close of another dynamic and rewarding year, it is a moment of pride to reflect on the significant progress made by the Indian Plumbing Association (IPA). The past twelve months have been marked by meaningful initiatives, impactful events, and a shared commitment to strengthening the plumbing and building-services ecosystem across the country.

Last month, we successfully hosted the **31st Indian Plumbing Conference and exhibition** on 13–15th November in Biswa Bangla Mela Prangan, Kolkata, based on the timely and thought-provoking theme **"Sustainable Smart Water Management."** The conference brought together leading experts and practitioners through three technical sessions, three panel discussions, and an inspiring motivational talk. This was followed by a packed audience on 15 November for the **National Grand Finale of the 9th Indian Plumbing Professionals League (IPPL)**. For those who could not be present, a detailed conference report is featured in this issue.

Looking back, 2025 has been a year of remarkable achievements. We began with the celebration of **World Plumbing Day** and **Founders' Day** on 11 March, setting the tone for a year of innovation and industry collaboration. The highly successful **PumbexIndia 2025 in Delhi** in April brought together stakeholders, manufacturers, and professionals from across India.

From August to October, the **IPPL** was held across nearly 16, witnessing outstanding participation from professionals, manufacturers and academicians who continue to elevate industry standards.

One of our most meaningful contributions this year was the nationwide implementation of **"Ek Ped Maa Ke Naam,"** an initiative inspired by our Hon'ble Prime Minister Shri Narendra Modi ji. Through the collective efforts of our chapters, we planted close to **4,000 trees** across India—an important step toward a greener future.

Additionally, our **IPA Neerathon** events in Bengaluru and Chennai saw close to **5,000 participants** running to advocate for water conservation. These large-scale public engagements underline our responsibility not only as industry professionals but also as custodians of this precious resource.

We are also delighted to share that we have launched — new **Student Chapters**, strengthening our connection with the next generation of plumbing and building-services professionals. Furthermore, IPA made history this year with the establishment of its **first-ever Sub-Chapter** in Villupuram, Tamil Nadu, under the Puducherry Chapter—an important milestone in our expansion journey.

Looking ahead, the outlook remains highly encouraging. India continues to demonstrate strong economic momentum, with GDP growth recorded at **8.2% in the second quarter**, as per recent data from the Ministry of Finance. This positive trajectory bodes well for the Construction and Plumbing industries, and we are optimistic that the coming year will bring further opportunities for advancement, innovation, and sustainability.

This edition of the magazine features the full report of the **31st Indian Plumbing Conference** along with thought-provoking technical articles, including *The Connect Between Catchments, The Hidden Water Goldmine in Your Bathroom*, and *Drainage Redefined.* I am confident that these contributions will enrich your knowledge and stimulate new ideas within our professional community.

As always, we welcome your feedback, suggestions, and insights. Your continued engagement helps us enhance the relevance and value of this magazine for all our readers.

Warm regards,

Rahul Dhadphale
IPA Regional Director, South
Editorial Board Member

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IPA Lifetime Achievement AWARD 2025

Conferred on **Sh. Minesh Shah**

The prestigious IPA Lifetime Achievement Award 2025 was conferred upon Sh. Minesh Shah, IPA National Honorary Secretary and former Chair of the IPA Ahmedabad Chapter. He is also the Director of Aqua Utility Designs and Management Pvt. Ltd. This honour celebrates and acknowledges Sh. Minesh Shah's exceptional and lasting contributions to the building fraternity, setting benchmarks of excellence for the industry.

The IPA Lifetime Achievement Award is the highest accolade presented by the Indian Plumbing Association (IPA) and it acknowledges the individuals who have made exemplary contributions to improving plumbing standards and practices across the country. Since its inception in 2003, this award has been bestowed upon notable figures who have significantly impacted the Indian plumbing industry.

A Trusted Pillar of IPA Leadership

On 20th November 2024, Sh. Minesh Shah ascended to one of the most esteemed positions within the Indian Plumbing Association, becoming a member of the National Executive Board as the National Honorary Secretary for a distinguished three-year term. His appointment reflects the deep trust, respect, and confidence the fraternity places in his leadership, vision, and unwavering commitment to the industry. He has also been honoured with the IPA Navratna Award for five consecutive years. Sh. Minesh Shah spearheaded the 29th Indian Plumbing Conference in Ahmedabad. Through his vision and tireless efforts, the conference earned rare distinction as it welcomed esteemed dignitaries of the highest stature. Under his leadership, the event was graced by the Hon'ble Chief Minister of Gujarat, Shri Bhupendra Bhai Patel, and the Hon'ble Minister of State, Shri Jagdish Bhai Vishwakarma, who attended as Chief Guest and Guest of Honour, respectively. By bringing such eminent leaders to the platform, he elevated the stature of the conference, reaffirming its importance and establishing Ahmedabad as a proud host of one of the most significant gatherings in the plumbing and building fraternity.

Foundations of a Visionary Civil Engineer

Sh. Minesh Shah is a highly respected member of the IPA's National Executive Board, past Chairman of IPA Ahmedabad Chapter. With over 20 years of experience in the building and plumbing industries, he has built a remarkable career in plumbing consultancy.

He is a Civil Engineer from L.E. College, Morbi, Sh. Minesh Shah brings with him over two decades of unwavering dedication to the building and plumbing industry. His journey began with humble yet determined steps as a Junior Site Engineer, entrusted with the construction of a bungalow for a renowned personality. Under the excellent mentorship of Sh. Dipen Mehta, Sh. Minesh Shah began his career as a Design Engineer in 2002, in a newly established plumbing design consultancy, where he played a pivotal role in shaping its growth. He scaled the firm into a respected and high-performing organization known for its innovative design solutions.

A Tribute to Excellence

The IPA Lifetime Achievement Award 2025 stands as a glowing acknowledgment of Sh. Minesh Shah's unwavering dedication, visionary leadership, and lifelong service to the building fraternity.

The IPA Lifetime Achievement Award 2025 was partnered by Wilo.

IPA NAVRATNA AWARDS

L-R: Sh. K. Bhaskar, Sh. Sharat V. Rao, Sh. Abhay Pasari, Sh.Sanjay Bhilare, Sh. Gurmit Singh Arora, Sh. Ganesh Bisen, Sh. Dipen Mehta, Sh. K. Nandakumar, Sh. Milind Shete, Sh. Shankar Ghime, Sh. Rahul Dhadphale, Dr. S. Virapan, Sh. Minesh Shah, Sh. Chandra Shekhar Gupta

The IPA Navratna Awards were conferred upon the nine eminent Ratnas of IPA in recognition of their exceptional contributions.

Sh. Abhay Pasari
Chairman
IPA Kolkata Chapter

Sh. K Nandakumar
Chairman
IPA Trivandrum Chapter

Dr. S Virapan
Chairman
IPA Chennai Chapter

Sh. Shankar Ghime
Chairman
IPA Nagpur Chapter

Sh. Sanjay Bhilare
IPA NEC Member
Hyderabad

Sh. Milind Shete
IPA NEC Member - Nashik Chapter
IPA Regional Director-
North East and Central Zone

Sh. Rahul Dhadphale
IPA NEC Member - Pune Chapter
IPA Regional Director – South Zone

Sh. Dipen Mehta
Member
IPT Editorial Board

Sh. Ganesh Bisen
Chairman
IPA Raipur Chapter

IPA Navratna Award 2025 was partnered by V.S. Fittings.

IPA Distinguished Service Award

Sh. Pradeep Chakravarti, Vice Chairman, IPA Kolkata Chapter, bestowed with the esteemed award.

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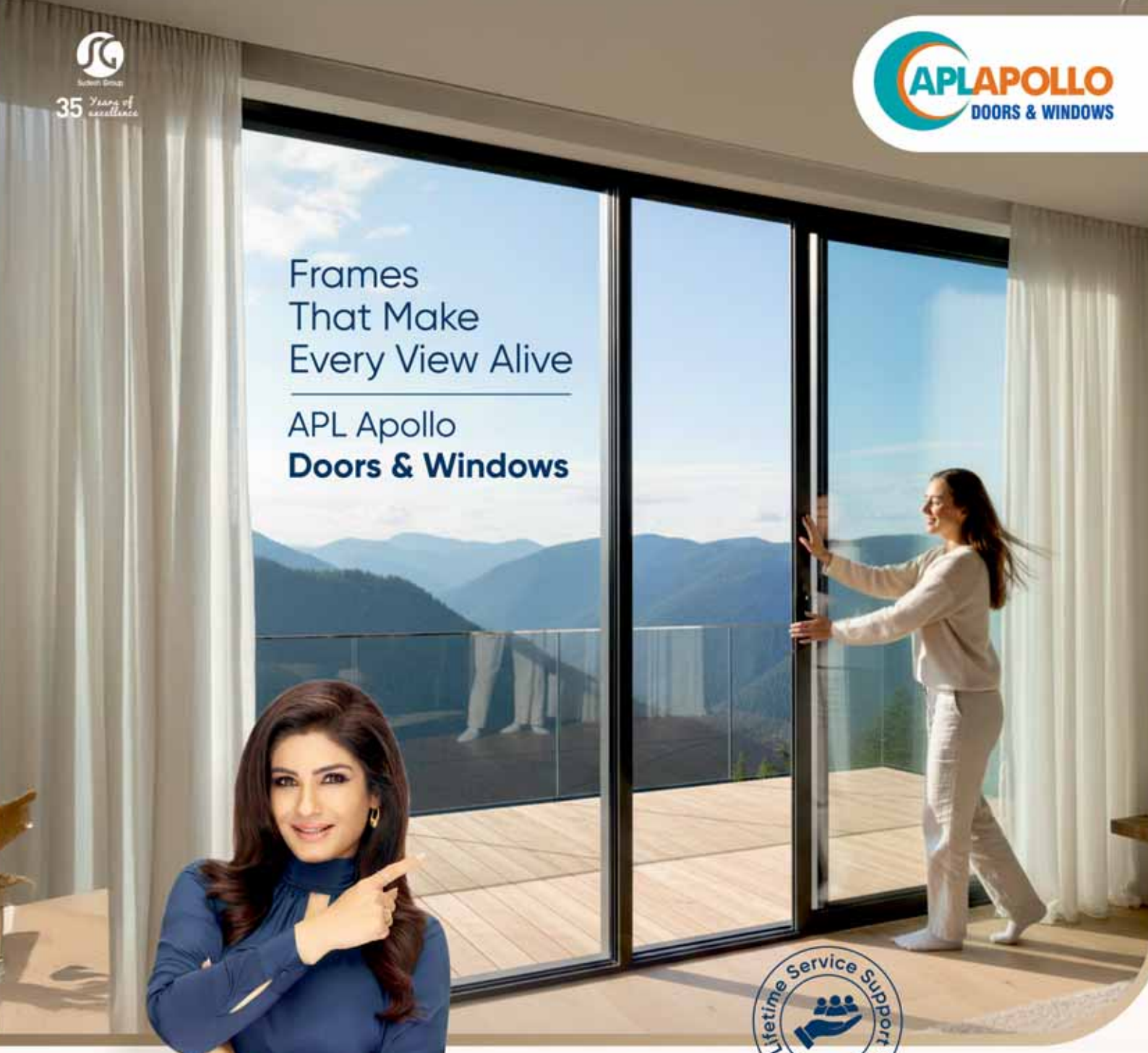

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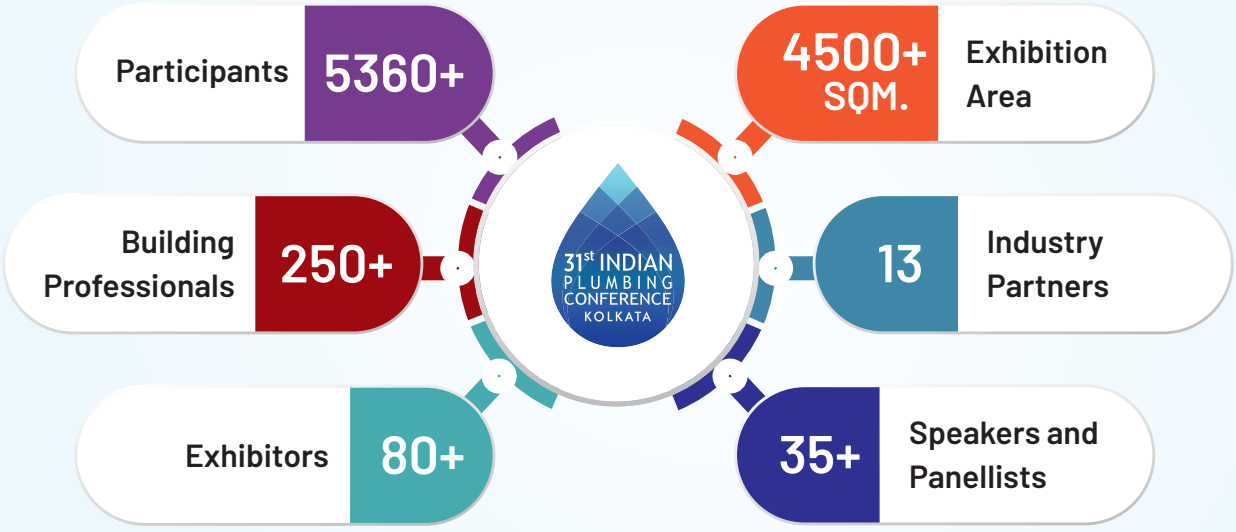
Indian Plumbing Association
Indian Plumbing Professional League
November 15, 2025 Kolkata

31st Indian Plumbing Conference

FACT SHEET



Spanning more than 4,500 sqm and featuring 80+ exhibitors, the concurrent exhibition highlighted a powerful showcase of next-generation technologies driving sustainable smart water management.

Welcome Address

Sh. Abhay Pasari
Chairman, IPA Kolkata Chapter

Sh. Abhay Pasari, Chairman of the IPA Kolkata Chapter, warmly welcomed all dignitaries, industry leaders, experts, and participants to the inaugural session of the 31st Indian Plumbing Conference. He highlighted the conference theme, "Sustainable Smart Water Management," stressing its urgency in today's rapidly urbanizing, climate-challenged world.

He emphasized the industry's responsibility to adopt sustainable, intelligent, and future-ready water solutions, inspiring attendees to embrace innovation and rethink conventional approaches. He expressed gratitude to the IPA NEB, sponsors, volunteers, chapter members, and speakers for their support in making the event possible, and encouraged everyone to collaborate, learn, and contribute toward building a smarter, more sustainable water future for the nation.

Presidential Address

Sh. Gurmit Singh Arora, IPA National President, warmly welcomed all dignitaries and expressed his pleasure in hosting the esteemed gathering in Kolkata, the city of joy. He emphasized that India is not just progressing but redefining its global position with confidence and clarity. He mentioned that the rise of Tier II and III cities, the surge in defence innovation, the expansion of digital payments, and the advancements in clean energy and water management collectively show a nation moving with unified strength.

He further highlighted that IPA is committed to supporting this momentum through smarter water systems, circular water economy, water audits, sustainable water infrastructure sustainable technologies, and future-ready infrastructure. Mr. Arora further said that together, these efforts are shaping the BHARAT that is stronger, greener, and ready to lead on the world stage.

Sh. Gurmit Singh Arora
IPA National President

India WE Stand CODE

WATER EFFICIENCY AND SANITATION STANDARD FOR THE BUILT ENVIRONMENT

A revised 2025 edition of the code - Water Efficiency And Sanitation Standard For The Built Environment (We Stand- India) was released on the inaugural day. The code has been jointly formulated by the Indian Plumbing Association (IPA) and the International Association of Plumbing and Mechanical Officials (IAPMO). IAPMO is a globally recognized body dedicated to developing safe and sustainable plumbing and mechanical codes and standards.

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SCAN FOR MORE DETAILS

The Hidden Water Goldmine in Your Bathroom

- Devang Shah

Most water sources today need some level of treatment before they are suitable for household use. Systems like softeners and RO units improve the quality, but they also produce reject water that gets wasted. As expectations shift toward RO-grade water for more daily applications, the amount of water being rejected continues to increase.

Where most homes today, water follows a predictable linear path: fresh water enters, we use it once, and it leaves the house through the drain. Shower water, which is relatively clean and carries only small amounts of soap and dissolved particles, is quickly mixed with toilet discharge and lost forever.

By integrating an intelligent greywater recycling system, both permeate and low-TDS reject are reused efficiently. Only the high-TDS portion is diverted for flushing.

This engineering approach can reduce a home's total fresh-water consumption by nearly 50% while still delivering RO-grade water for showers and basins.

Homes can now be converted into closed-loop water ecosystems where shower greywater is captured, treated, and reused with complete autonomy. This is not a behavioural shift, but an engineering upgrade—one that becomes seamless when homes are designed with the correct plumbing architecture.

Understanding Shower Greywater

For this system, greywater refers exclusively to water from showers. Unlike blackwater, shower greywater contains only mild dissolved impurities such as soap residues and fine suspended matter. TDS rises by only approx 30 to 50 ppm

which is easy to recover through compact domestic filtration

Because shower greywater is already close to its input quality, and sometimes highly better than available raw water in some areas. it becomes an ideal candidate for internal recycling.

Why Homes Need Separate Lines for Shower Greywater

A greywater recycling system works only when shower water remains separate from toilet discharge. In most homes today, both are mixed into a single drain line, making the water unrecoverable.

A technically correct, future-ready home requires three supply pipelines:

1. **A Dedicated Shower Greywater Line**

   This carries shower water to a Collection tank for filtration.

   No other outlet should mix with it.

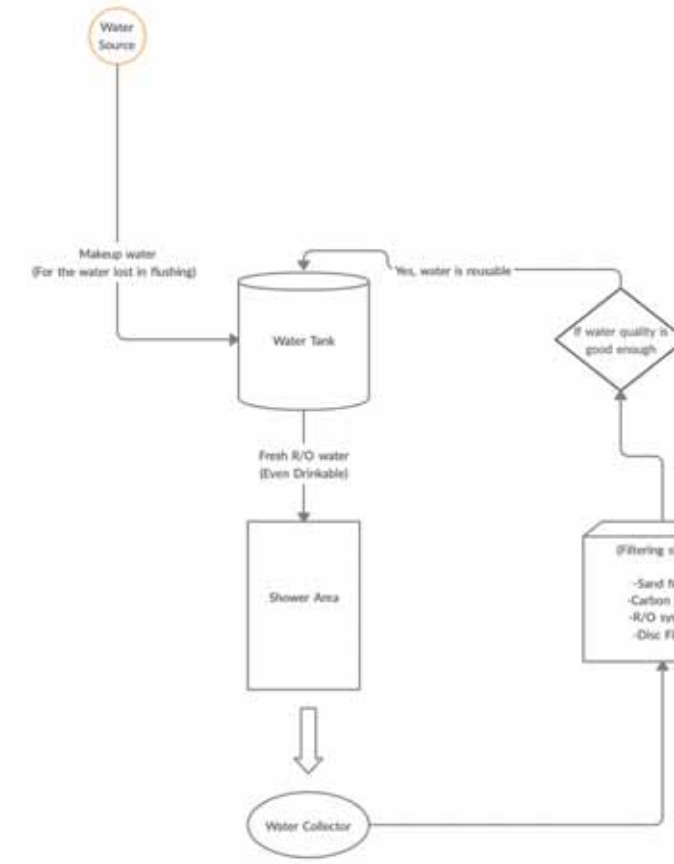
2. **A Blackwater Line**

   This handles toilets and kitchen waste and flows directly to sewage or an STP.

3. **A Flush-Water Return Line**

   This brings treated reject water back into toilet cisterns, preventing the wastage of purified water.

   With these three lines in place, a household becomes compatible with an intelligent recycling module.



How a Greywater Recycling System Actually Works

A modern domestic recycling system follows a structured, technical flow:

1. Collection and Pre-Filtration

Greywater enters a raw-water tank after passing through:

- Sand filters for sediment removal
- chlorination and aeration
- Carbon filters for organics and odour
- Ozone and UV treatment for disinfection

This prepares the water for membrane purification by removing particles and microorganisms.

2. Membrane Purification

The pre-treated greywater feeds into an RO or nano-filtration membrane.

The membrane produces two outputs:

- **Permeate** – low TDS (20–40 ppm), stored in a fresh-water tank
- **Reject water** – higher TDS, routed based on quality

Membrane purification is the heart of the system, ensuring consistent water quality suitable for showers and basins.

3. Intelligent Water Routing

A TDS sensor evaluates the reject stream:

- If TDS is below a set threshold, the water loops back to the raw-water tank for another purification cycle
- If it exceeds the threshold, it is diverted to the flush-water tank

This automated decision-making is handled through motor operated valves controlled by a microcontroller which reduces rejection and brings it up to 5-10% which can be used for flushing applications.

4. Monitoring and Data Generation

Flow sensors records:

- Input vs. recycled water (Water Saved)
- Filtration efficiency
- System performance over time

Through IoT integration, users can track system behaviour just like they track RO filter health on a drinking-water purifier.

Why This Should Become a Household Standard

This system requires no change in daily behaviour. The shower works exactly the same; the user feels no difference. What changes is the intelligence behind the plumbing and by which user gets the best water quality.

A home equipped with this recycling system reducing drain-out and minimising fresh-water draw. Most importantly, it addresses the long-standing inefficiency of wasting filtration and rejecting water.

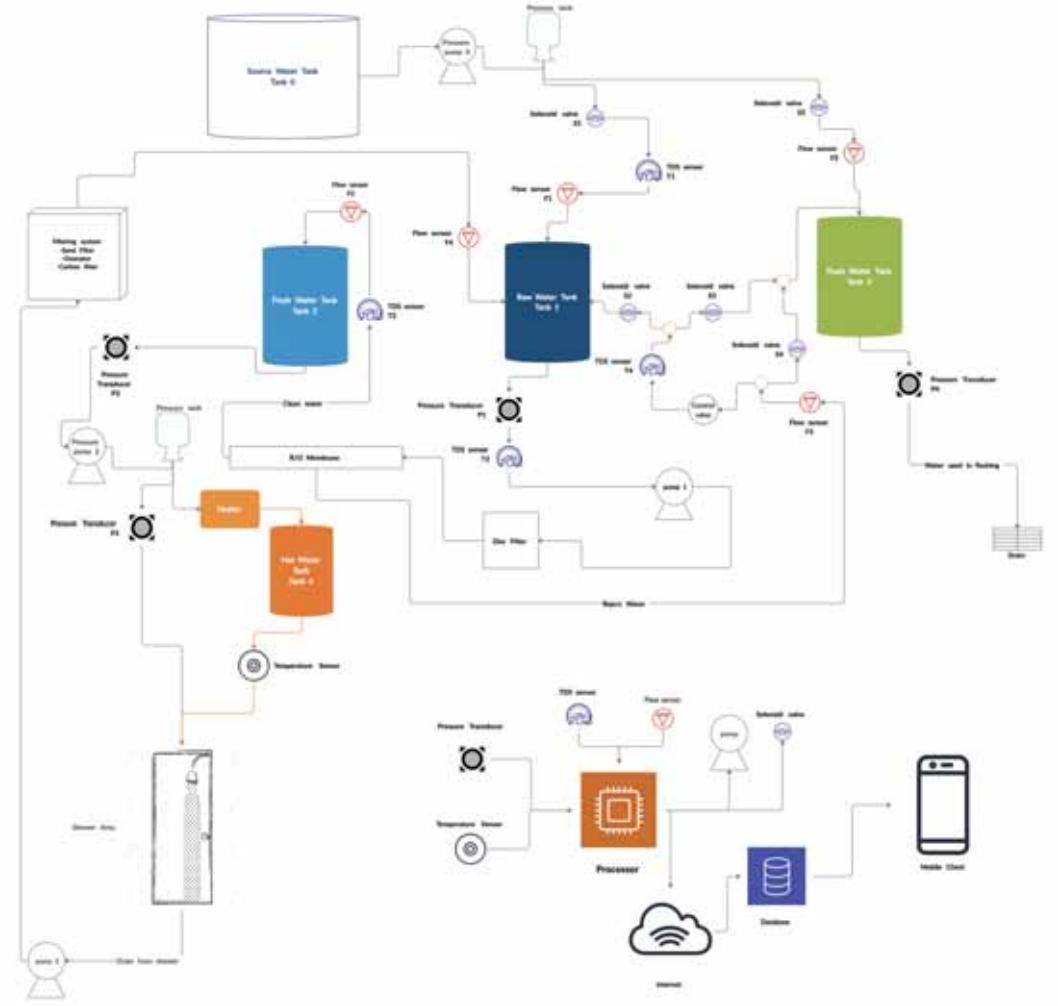
And at the core of this solution is technology. Sensors, TDS monitors, pressure transducers, and a microcontroller decide in real time how the system should behave. The logic engine operates solenoid valves automatically, choosing whether water should move to the fresh tank, return for reprocessing, or be

sent for flushing. This continuous decision-making is what transforms a simple filtration unit into a truly intelligent, self-regulating water ecosystem that modern homes can depend on.

The Future Blueprint

As architects, developers, and homeowners adapt to more advanced plumbing layouts, the greywater recycling system will shift from an "alternative solution" to a default feature of modern homes. The technology is already ready. The next step is to integrate the right drain paths, treatment units, and routing logic into everyday home design.

With the correct plumbing and a compact filtration module, any household can transition from a linear water consumer to an intelligent, closed-loop system.



Devang Shah
Director, Devyami Pumps

Devang Shah is the Director of Devyami Automatic Pumps & Controls Pvt. Ltd.; one stop water solution from Vadodara, Gujarat. He began his journey in 1996 with a strong engineering foundation. A pioneer in water technology, he introduced heat pump solutions for domestic use in India as early as 2006, earning a certificate from the Bureau of Energy Efficiency for this innovation. With a passion for R&D, he has developed multiple in-house solutions in both water and electronics technologies, driving practical and sustainable advancements in the industry. He can be reached on devang@devyami.com.

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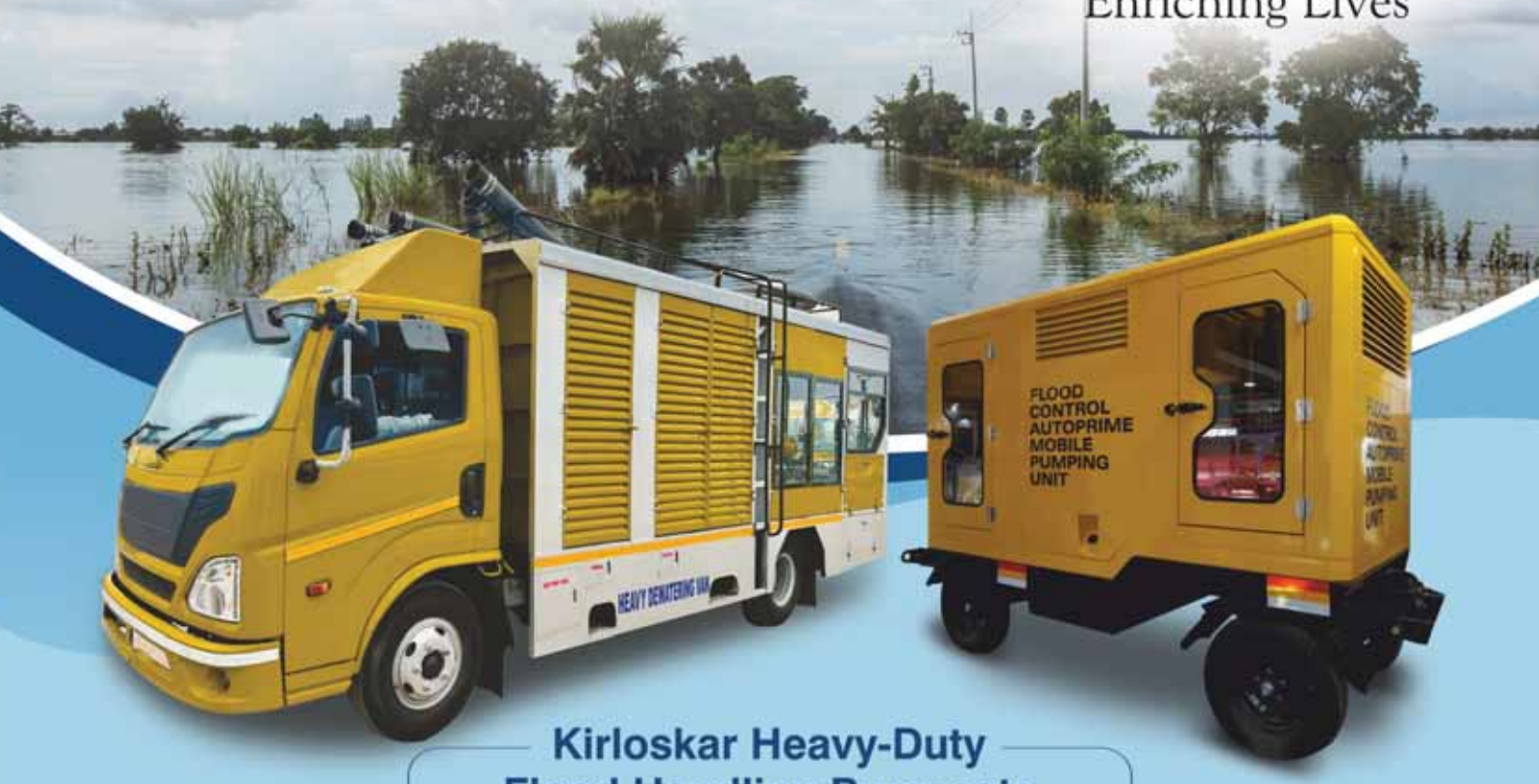

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PANEL DISCUSSION 1

Sustainable Smart Water Management

The opening session of the 31st Indian Plumbing Conference focused on the theme " Sustainable Smart Water Management". Sh. BO Prasanna Kumar, the moderator, focused on focused on introducing the core objectives of sustainable smart water management and framing the session's discussions around innovation, responsibility, and future-ready water practices.

Left-to-Right: Sadiq Divan, Apurva Salarpuria, BO Prasanna Kumar, Ar. Shakuntala Ghosh, Ar. Vivek Singh Rathore

Sh. Apurva Salarpuria
Executive Director, Salarpuria Group
President, CREDAI Kolkata

Sh. Apurva Salarpuria emphasized that water remains an undervalued resource, particularly in regions like Kolkata where the current availability of potable water masks long-term vulnerability. He highlighted that unrestricted, freely flowing supply leads to complacency and inefficient consumption, underscoring the need for a structured tariff model in which a basic quantum of water is provided at no cost, followed by consumption-based charges to encourage responsible usage.

Sh. Sadiq Divan underscored that smart water management today is driven by an ecosystem of advanced, affordable, and highly integrable technologies. He highlighted the growing use of low-cost smart meters, AI-enabled analytics, IoT-based sensors, and digital monitoring platforms that allow real-time data capture and predictive assessment. With digital controllers seamlessly linking water-usage data to Building Management Systems (BMS), he noted that implementation on the ground has become increasingly efficient and scalable.

Sh. Sadiq Divan
Senior Vice President
MEPF Services Phoenix Mills

Sh. BO Prasanna Kumar emphasized how modern water management has advanced far beyond the early methodologies of ancient civilizations, evolving into a highly data-driven, sustainable, and resilient system while still drawing critical learnings from historical practices. He further highlighted the pivotal role of IPA, as the only body in the country publishing a plumbing magazine—Indian Plumbing Today—and leads key initiatives such as the Water Audit Council, which supports water-auditing.

Sh. BO Prasanna Kumar
Jt. Managing Director
DesignTree Service Consultants Pvt Ltd

Ar. Shakuntala Ghosh emphasized that smartness in planning simply means building where water is available and not building where it shouldn't be—like floodplains or areas where water has to be pumped from hundreds of kilometers away. According to her, the solution has to be multi-pronged: right planning, involving every stakeholder, managing stormwater and wastewater, and finally creating a circular economy. That, she said, is how true sustainable water management begins.

Ar. Shakuntala Ghosh
Partner and Principal Architect
Ghosh, Bose & Associates (GBA)

Ar. Vivek Singh Rathore emphasized that the responsibility of smart and sustainable water management lies foremost with industry stakeholders—developers, owners, and MEP/MEPF consultants—who must proactively align with the Government of India's 2017 Net Zero framework rather than wait for external policy triggers. He asserted that only when green infrastructure overtakes grey systems will the industry truly achieve intelligent, resilient, and sustainable water-management outcomes.

Ar. Vivek Singh Rathore
Partner and Principal Architect
Salient

PANEL DISCUSSION 2

The Road to Water-Neutral Buildings: Tools, Certifications, and Best Practices

The Panel Discussion on "The Road to Water-Neutral Buildings: Tools, Certifications, and Best Practices" was moderated by Sh. Sharat V. Rao, who set the tone by outlining the principles, frameworks, and innovations essential for achieving true water neutrality.

Left-to-Right: Yashaswi Shroff, Anand Neotia, Avinash Mishra, Sharat V. Rao, Rakesh Bhatia, S. Karthikeyan

Sh. Sharat V. Rao
Convener, IPA Technical Committee;
Managing Director, ECPHC

Sh. Sharat V. Rao said that the need for water neutrality has never been more urgent than it is today. He emphasized that water—once considered an abundant resource—has increasingly become constrained due to exponential population growth and rapid urbanisation, with the current urban–rural distribution ratio of 40:50 expected to rise to nearly 60 in the coming years. He further highlighted climate variability as a critical aggravating factor, intensifying stress on already overburdened water systems.

Sh. Rakesh Bhatia
Senior Vice President
Ecofirst Services Limited- A TATA Enterprise

Sh. Rakesh Bhatia explained that a water-neutral building is one that balances its total water consumption through a comprehensive framework of efficiency measures—reducing demand, recycling and reusing water, and offsetting the remaining impact by replenishing the local ecosystem within the same watershed. He emphasised that certification plays a crucial role in establishing credibility, and true water neutrality can only be realised through rigorous adherence to proven best practices.

Sh. S Karthikeyan pointed out that verification of water neutrality — from a water-efficiency standpoint — must begin at the very design stage of a building. At this stage it is vital to integrate all planned water-efficiency measures, anticipate and assess the future generation of wastewater, and determine how that wastewater will be treated and reused. He described "alternative water" as water derived from non-conventional sources rather than relying solely on fresh potable water

Sh. S Karthikeyan
Dy Executive Director
CII-Indian Green Building Council (IGBC)

Sh. Avinash Mishra explained that the core ambition of water neutrality is to minimize reliance on fresh water resources while simultaneously cutting down wastewater generation. He emphasized that treated "black water" — the wastewater from toilets and sewage — can be processed on-site using appropriate treatment technologies, then reused for non-potable (grey-water) purposes. Moreover, treated wastewater can be integrated into systems that recover energy, thereby turning a waste stream into a resource.

Sh. Avinash Mishra
Chairman Water Audit Council
Former Adviser, NITI Aayog

Sh. Anand Neotia highlighted that the approach to water sustainability is rooted in the fundamental principles of reduce, recycle, and reuse — with "reduce" remaining the most crucial pillar. He stated that the first layer of reduction is achieved by integrating low-flow fixtures and faucets, supported by continuous user education to ensure efficient water use. He added that although individual-level wastewater treatment for recycling is still not widely practiced and effective measures can be adopted.

Sh. Anand Neotia
Director
Orbit Group

Sh. Yashaswi Shroff emphasized that responsible water management and a conscious reduction in daily water consumption are the immediate needs of the hour. He cited examples from his ongoing projects, where significant water savings have been achieved through systematic water-metering strategies. He also highlighted the installation of what is possibly one of the largest STPs in the region, enabling complete reuse of treated grey water for flushing and other non-potable applications, thereby cutting freshwater dependency.

Sh. Yashaswi Shroff
Executive & Marketing Director
Alcove Group

PANEL DISCUSSION 3

Challenges in Plumbing Design & Installation for High Rise buildings

The Panel Discussion on "Challenges in Plumbing Design & Installation for High Rise Buildings" was moderated by Sh. Sandeep Goel, who opened the conversation by highlighting the complexities, technical demands, and evolving best practices involved in designing and executing plumbing systems for modern vertical developments.

Left-to-Right: Pradeep Chakravarti, Sudip Das, Sandeep Goel, Ar. Sunil Maniramka, BO Prasanna Kumar, Ar. Debatosh Sahu

Sh. Sandeep Goel
Founder and Director
Proion Consultants

Sh. Sandeep Goel emphasized that India must return to its roots of frugal innovation—the traditional spirit of Jugaad that we seem to have drifted away from. While we have long been a nation that knows how to "fix and run," he stressed the need to "fix and forget," creating solutions that last. The aim, he noted, should be to learn, unlearn, and rerun as we build smarter, more sustainable systems.

Ar. Debatosh Sahu
Principal Architect
Espace

Ar. Debatosh Sahu mentioned that the private sector approaches architects mainly for high-rise projects, unlike the government. While architects do provide space for essential services, every project operates within a financial model, and clients may not agree to the recommended provisions. As a result, they may consult another MEP team for alternative solutions. He emphasized that this dynamic often complicates coordination and highlights why a strong understanding of services is crucial for successful high-rise execution.

Sh. Pradeep Chakraborty shared that he has come across many architects who lack adequate knowledge of plumbing, electrical systems, and HVAC. He stressed that architects must be well-versed in these essential services, because only then can high-rise buildings be designed, coordinated, and executed properly. Without this technical understanding, seamless installation and long-term efficiency become difficult to achieve.

Sh. Pradeep Chakravarti
Partner
Imperial PHE Services LLP

Ar. Sunil Maniramka highlighted that we often fail to truly listen to our plumbing consultants, despite hiring them for their expertise. When consultants present a problem and its solution, their guidance can lead to more sustainable systems and long-term practices. Yet, these insights are frequently overlooked. He stressed the importance of hearing them out to ensure smarter, more efficient, and genuinely sustainable outcomes.

Ar. Sunil Maniramka
Principal Architect
Maniramka & Associates

Sh. Sudip Das mentioned that for smaller buildings, manpower circulation remains limited, but as the height increases, the logistical complexity multiplies. High-rise construction demands specialized planning for vertical material movement, including hoists, tower cranes, and dedicated lift arrangements to ensure safe and efficient transport of materials and labour. These vertical logistics significantly escalate both cost and time. Labour transport, material handling, and equipment deployment all become more intensive as the structure rises, directly impacting project timelines and budgets.

Sh. Sudip Das
Business Unit Head
Sanitary Syndicate Pvt Ltd

Sh. BO Prasanna Kumar noted that MEP consultants begin the crucial coordination work by fixing the building's bone marrow—its essential structural and service framework. Once this foundation is set, systems follow in sequence: HVAC, then gadgets and electricals, then fire systems, and finally plumbing. Yet, these critical steps are often forgotten or overlooked. He stressed that acknowledging and adhering to this process is vital for creating a well-integrated, efficient, and future-ready building.

Sh. BO Prasanna Kumar
Jt. Managing Director
DesignTree Service Consultants Pvt Ltd

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TECHNICAL SESSION 1

Transforming Water Supply with Real-Time Data –through AI & IoT in Water Management

Technical Session 1 on "Transforming Water Supply with Real-Time Data through AI & IoT in Water Management," chaired by Sh. Avinash Mishra, explored how cutting-edge technologies are reshaping the future of water systems.

Left-to-Right: Ganesh Shankar, Dr. Asis Mazumdar, M. K. Sinha, Avinash Mishra, Rohit Kakkar, Shreya Khurana

Sh. Avinash Mishra
Chairman, Water Audit Council
Former Adviser, NITI Aayog

Sh. Avinash Mishra noted that India's urban water crisis is worsening, with per-capita availability falling below 1,486 m^3 and cities losing 30–45% of water as NRW through leaks and theft. He emphasized that real-time data, AI and IoT are now indispensable for ensuring reliability, efficiency, quality, revenue protection and public trust in urban water systems. He explained that smart water architecture and comprehensive citywide water audits offer full visibility—from source to losses to reuse.

Sh. Rohit Kakkar
Deputy Adviser
CPHEEO, Ministry of Housing and Urban Affairs (MoHUA)

Sh. Rohit Kakkar emphasized that achieving "Viksit Bharat" requires Smart and Efficient Water Management leveraging AI and IoT to transform water supply with real-time data. He highlighted the need to overcome challenges like aging infrastructure and incomplete network maps to deliver 24×7 "Direct from Tap" access. His objectives align with national priorities such as the Jal Jeevan Mission and the National Water Policy (2012), ensuring safe and adequate water for all.

Dr. M.K. Sinha, Former Chairman of the Central Water Commission, calls for Smart & Efficient Water Management using AI & IoT to achieve the vision of "Viksit Bharat" achieving 24x7 water supply and "Direct from Tap" access is critical for India. This initiative is challenged by issues like ageing infrastructure and a lack of network maps but is crucial, as continuous supply actually saves water by preventing leakage.

Dr. M. K. Sinha
Former Chairman
Central Water Commission

Ms. Shreya Khurana explained how IoT functions as the digital nervous system for real-time sensing and AI serves as the intelligent brain that analyses data, predicts leaks and floods, and automates decisions in urban water systems. She highlighted Puri's achievement as India's first city to deliver 24×7 'Drink from Tap' water of IS 10500 standards, enabled by a strong smart water management framework that reduced NRW from 47% in 2015 to 12%.

Ms. Shreya Khurana
Programme Associate, Water & Environment
National Institute of Urban Affairs (NIUA)

Sh. Ganesh Shankar showcased how end-to-end water intelligence platform brings complete transparency to industrial and commercial water use through real-time monitoring, analytics and alerts. He explained that their AI+IoT solutions can pinpoint leakages, wastage and excessive consumption, enabling industries to cut water use by 19–50% and save billions of litres. He introduced AquaGPT, a Gen-AI layer that allows users to instantly query operational and sustainability data for faster, more informed decision-making toward water positivity.

Sh. Ganesh Shankar
Founder and CEO
Fluxgen

Dr. Asis Mazumdar highlighted how AI and IoT are driving a transition from reactive to predictive water management, enabling utilities to optimise systems in real time and cut losses by up to 30%. He noted that rising urban demand, climate uncertainty and aging infrastructure make data-driven management essential for reliability and resilience. With IoT sensors, smart meters and real-time quality monitoring, water networks are becoming intelligent systems capable of detecting leaks, forecasting demand and ensuring safe supply.

Dr. Asis Mazumdar
Professor
Jadavpur University

TECHNICAL SESSION 2

From Drain to Gain: Innovations in Wastewater Treatment and Water Circularity

Technical Session 2 on "From Drain to Gain: Innovations in Wastewater Treatment and Water Circularity," chaired by Sh. Sandeep Talaulicar, explored pioneering solutions that are transforming wastewater into a valuable resource.

Left-to-Right:Prasanna Venkatesh, HC Vinayaka, Milind Deore, Sandeep Talaulicar, Prem Thakur, Ar. Ayan Sen

Sh. Sandeep Talaulicar
MD
Jackson Hospitality

Sh. Sandeep Talaulicar emphasized that achieving water circularity is impossible without precise, routine water metering. For every facility operator—whether in hospitality, commercial buildings, or large developments—continuous monitoring of water consumption, recycling efficiency, and system performance is essential. He stressed that such measurement practices form the backbone of water positivity and Net Zero Water frameworks, enabling buildings to maintain a balanced water cycle and reduce dependence on external freshwater sources.

Sh. Milind Deore
Secretary
Bureau of Energy Efficiency, Ministry of Power

Sh. Milind Deore emphasized how AI and IoT are reshaping Urban Water Management, with IoT acting as the digital nervous system for real-time sensing and AI serving as the intelligent brain for leak prediction, pump optimization, and flood forecasting. He highlighted Puri's achievement as India's first city to deliver 24×7 'Drink from Tap' water meeting IS 10500 standards, enabled by a smart water management framework, which also reduced Non-Revenue Water from 47% in 2015 to 12.

Ar. Ayan Sen highlighted how AI and IoT are transforming Urban Water Management, with IoT functioning as the digital nervous system for real-time sensing and AI as the intelligent brain driving prediction and automated decisions. He showcased Puri's success as India's first city to deliver 24×7 'Drink from Tap' water of IS 10500 standards, supported by a strong smart water system that reduced NRW from 47% in 2015 to 12% by 2024.

Ar. Ayan Sen
Principal Architect
Ayan Sen Architects

Sh. Prasanna Venkatesh highlighted that India is nearing critical water scarcity, with 600 million people already facing high to extreme stress and per-capita freshwater availability projected to fall to 1,367 m^3 by 2031. He pointed out the massive treatment gap, as only 28% of wastewater is treated, leaving 70% of surface water polluted. He emphasized that adopting a Circular Water Economy could cut freshwater use by up to 40%, compared to the national reuse level of under 10%.

Sh. Prasanna Venkatesh
Executive VP- Plumbing, Fire and Environment
Sobha Limited

Sh. Prem Thakur highlighted that over 65% of the domestic hotel portfolio lies in High or Extremely High Water-Stress zones, making water stewardship a strategic priority. He noted the strong progress in recycling—rising from 27% in FY 2021-22 to 48% in FY 2023-24—with a clear target of achieving 50% in FY 2024-25. He emphasized that 36 hotels are undertaking major STP/ETP upgrades this year, expected to save nearly 7 lakh KL of freshwater.

Sh. Prem Thakur
Vice President and Head, Design and Technical Services
IHCL, Taj Group

Sh. HC Vinayaka highlighted how several projects extract large volumes of groundwater yet label themselves as Net Zero Water, which is misleading. He pointed out that true Net Zero Water systems must balance total water consumption with water generated, recycled, or replenished on-site. He then shared an alternative idea: harvesting atmospheric moisture to generate water, offering a more sustainable and innovative approach to reducing dependency on groundwater.

Sh. HC Vinayaka
Vice President, Technical, EHS & Sustainability
ITC Hotels, ITC

TECHNICAL SESSION 3

Smart Solutions for Wastewater and Stormwater Management

Technical Session 3 on "Smart Solutions for Wastewater and Stormwater Management," chaired by Sh. Pradeep Chakravarti, focused on innovative technologies and integrated approaches designed to manage water challenges in urban environments.

Left–Right: Dr. Madhubanti Dutta, Prof. Dr. Arunabha Majumdar, Pradeep Chakravarti, Dr. Nilangshu Bhusan Basu, Arjun Bhattacharyya

Sh. Pradeep Chakravarti
Partner
Imperial PHE Services LLP

Sh. Pradeep Chakravarti stressed that rapid urbanisation, unplanned growth, and climate change are escalating stormwater challenges, resulting in frequent urban flooding across Indian cities. He emphasized that smart solutions must remain simple, economical, and easy to maintain so that even common users—not just experts—can operate them effectively. He highlighted the need for a combination of partial on-site treatment and strong centralized systems to ensure wastewater is safely routed to common STPs before discharge.

Sh. Arjun Bhattacharya noted that India's fast-expanding urban segment now requires over 35,000 MLD of quality water services—far beyond the capacity of existing infrastructure. He highlighted how smart water technologies such as AI, digital twins, unified data platforms and real-time monitoring can narrow this gap by enhancing efficiency, compliance and reuse. He explained Ion Exchange's vision of a Digital Water Exchange that connects households, industries and treatment plants to enable data-verified trading and reuse of treated water.

Sh. Arjun Bhattacharyya
Chief Technology Officer & Chief Digital Officer
Ion Exchange (India) Ltd.

Dr Madhubanti Dutta highlighted that there is the urgent need for smart, technology-driven wastewater and stormwater management to build climate-resilient Indian cities. Anchored in national missions such as AMRUT 2.0, Mission LiFE, Jal Jeevan Mission, and India's Net Zero 2070 commitment, the talk showcased how digital transformation is reshaping the country's water infrastructure. Global best practices from Singapore and the Netherlands, demonstrated the power of IoT, digital twins, and nature-based solutions.

Dr. Madhubanti Dutta
Former Consultant (Water Division)
NITI Aayog, Govt. of India

Dr. Nilangshu Bhusan Basu spoke about the need for adopting smart solutions for wastewater and stormwater management in legacy, rapidly growing cities like Kolkata. He discussed flood precipitation patterns and the ground realities associated with urban flooding, highlighting both civic and political responses. He stressed the importance of broader, forward-looking perspectives, reflecting on colonial-era engineering practices, the early drainage systems they created, and the significant challenges these outdated systems face in meeting today's urban demands.

Dr. Nilangshu Bhusan Basu
Member
State Environment Impact Assessment Authority (SEIAA), West Bengal

Dr. Arunabha Majumder highlighted that India treats less than 40% of its urban wastewater, posing serious environmental and public-health risks due to unchecked discharge into rivers and water bodies. He stressed that sustainable wastewater management must integrate proper collection, treatment, recycling and reuse, ensuring compliance with NGT standards for safe discharge. He emphasized the importance of decentralized treatment and resource recovery—water, energy and nutrients—to build a circular, low-waste sanitation economy.

Prof. Dr Arunabha Majumder
Professor
Emeritus Fellow, School of Water Resources Engineering, Jadavpur

MOTIVATIONAL SESSION

By Ar. Gaurav Shorey, Co- Founder, 5waraj

"Recreating Sone Ki Chidiya"

Through Smart Water Management

31st Indian Plumbing Conference held in Kolkata had a powerful and thought-provoking motivational session titled "Recreating Sone Ki Chidiya," by Ar. Gaurav Shorey invited the audience to pause, reflect, and remember who we truly are.

He opened with a compelling reminder that, in our pursuit of modernity, we often forget our own identity—we sometimes miss what is right in front of us because we are too focused on what we are searching for. Touching upon the hegemony of global standards and the overwhelming influence of international sustainable frameworks, he highlighted how Indians have gradually drifted away from their own cultural roots. This reflection seamlessly connected to the overarching theme of the 31st IPC—Sustainable Water Management. He delved deep into the origins of water, drawing references from ancient scriptures across diverse faiths—Bhavishya Puran, the Holy Quran, the Bible, the Guru Granth Sahib, and several others. Across all these texts, water is not described as a resource but as a creator. He emphasized that our ancestors believed water gave birth to life; we did not create water—water created us. Calling water "Amrit", he urged everyone to stop treating it as an abundant and endlessly available commodity. Highlighting the hidden and often ignored areas of water consumption—ranging from manufacturing processes to the massive water requirements of data centres—Gaurav shed light on how deeply water is embedded in every layer of modern life. His message was clear: sustainability begins long before conservation. Instead of only focusing on how to treat greywater, he questioned why we are creating so much greywater in the first place. He encouraged returning to centuries-old practices that aligned with nature, such as the use of natural, Ayurvedic soaps that do not pollute water systems. If water is not polluted, the need for excessive treatment reduces drastically. He stressed that true water conservation begins at the individual level. Tribal and ancestral practices offer countless lessons in natural resource management, many of which we have forgotten. He urged everyone to revive those traditions and lead by example—approaching the government not with demands, but with sustainable practices already in motion. The session concluded with a profound reminder: to rebuild the Sone Ki Chidiya, we must reclaim our identity, respect our roots, and restore our relationship with water—the very essence of life.

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IPA Felicitations

During every Indian Plumbing Conference, the Indian Plumbing Association (IPA) presents the *IPA Felicitation Awards* - a prestigious recognition bestowed upon distinguished professionals from the region, including leading Architects, Academicians, Plumbing Contractors, Plumbing Consultants, and Manufacturers/Real Estate Developers. These awards honour individuals who have made noteworthy contributions to the advancement and growth of the plumbing industry in their respective geographical areas.

The ensuing visuals present an elegant portrayal of the Felicitations, encapsulating the spirit and stature of the honours bestowed.

PLUMBING ENGINEER
Debashis Mondal

Debashis Mondal, a hardcore project personnel stepped into the world of plumbing in the year 2006 when he joined Sanitary Syndicate Pvt Ltd as site supervisor. Since then, he had handled many projects from high-rise residentials like South City Projects, Urbana, hotels like ITC Royal, Marriott, corporate buildings like TCE and many more. He has been promoted to Sr Project Manager by the organization and has continued to serve for last 19 years.

PLUMBING ENGINEER
Pradipta Bhattacharya

Pradipta Bhattacharya is a Mechanical Engineer with over 15 years of experience in plumbing, water, and wastewater management systems. He currently serves as Manager–Design & Cost Optimization at Salarpuria Properties Pvt. Ltd. A Life Member of the Indian Plumbing Association and IGBC-trained Green Building Professional.

PLUMBING CONTRACTOR
Shibaji Dutta Gupta

Shibaji Dutta Gupta, based in Kolkata, his company Bdcon Engineers Pvt. Ltd, established in 1989, is a seasoned professional with extensive experience in plumbing design, project execution, and sustainable water management. A dedicated Life Member of the Indian Plumbing Association (IPA), he has actively contributed to promoting best practices and technical excellence in the industry.

IPA Felicitations

REAL ESTATE DEVELOPER
Yashaswi Shroff

Yashaswi Shroff is the Executive and Marketing Director at Alcove Realty, a leading Kolkata-based real estate developer known for iconic projects like The 42 and New Kolkata. A third-generation entrepreneur and St. Xavier's College alumnus with prior experience at Ernst & Young, he combines analytical and creative insight to drive marketing and strategy. Author of "18 Unknown Sutras You Must Know Before Buying Your Dream Home," he champions innovation, transparency, and customer engagement in real estate.

ACADEMICIAN
Prof. Dr. Arunabha Majumder

Prof. Dr. Arunabha Majumder is a renowned Civil and Environmental Engineer with academic training from Jadavpur University, the International Institute of Hydraulics and Environment, Delft (Netherlands), and Loughborough University, UK. With over 45 years of experience, he served as Director-Professor and Head, Department of Sanitary Engineering, AIIHPH, Government of India. Currently, he is Professor-Emeritus at the School of Water Resources Engineering, Jadavpur University, and President of the Institute of Public Health Engineers, India.

ARCHITECT
Ar. Debatosh Sahu

Ar. Debatosh Sahu, a graduate in Architecture from BE College, Shibpur, and a Master in Urban Design from Jadavpur University, is the Founder Partner and Principal Architect of "ESPACE." A recipient of several awards, he is a visiting lecturer, jury member, and currently serves as Council Member, Region IV – International Union of Architects (UIA).

PLUMBING CONSULTANT
Sh. Raja Gopal Bhattacharyya

Sh. Raja Gopal Bhattacharyya is a highly experienced Public Health Engineering (PHE) Consultant and Proprietor of R.G. Solutions, Kolkata, with over 30 years of expertise in sanitary and plumbing design, detailing, and execution. A Diploma and B.Tech. Civil Engineer, he began his career in 1994 and has worked with reputed organizations such as Spectral Services, Dulal Mukherjee & Associates, and ACME Consultants.

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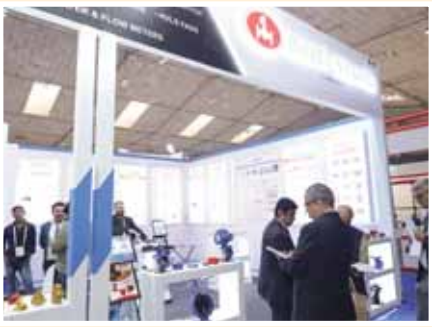

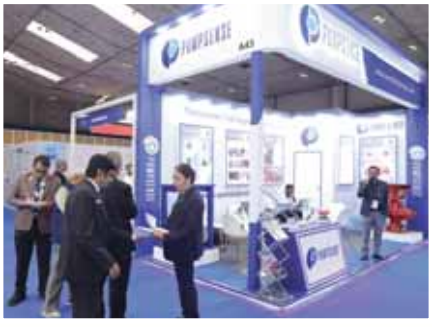

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L-R: Chandra Shekhar Gupta, Minesh Shah, Sandip Kumar Roy Choudhary, Madhubanti Dutta, Dipankar Halder, Sunil Kumar, Umesh Kumar, Sushanta Sinha, Rohit Srivastava, Parul Aggarwal, Rachna Kaushal, Aditi Mishra, Gaurav Dutta, Samiran Banik, K. Bhaskar

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INDIAN PLUMBING PROFESSIONALS LEAGUE 2025

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GRAND FINALE

15th November'25

Celebrating Learning, Knowledge & Skill Future of Plumbing In India

The Indian Plumbing Association (IPA), now an approved Training Partner of the National Skill Development Corporation (NSDC), has further elevated its commitment to nation-building through skill empowerment. With this milestone, every qualified IPPL candidate will now receive an NSDC co-branded Certificate—an endorsement that adds national credibility, enhances employability and reinforces IPPL's growing stature as India's premier plumbing skill competition.

The Indian Plumbing Professionals League (IPPL), instituted by IPA in 2017, has steadily transformed the plumbing landscape of India. Conceived as a platform to educate and inspire building-industry professionals on best plumbing practices, IPPL has evolved into a benchmark for technical excellence, knowledge enhancement and professional pride. What began as an initiative to promote better plumbing standards has now grown into a movement that unites and uplifts an entire industry.

IPPL is a uniquely inclusive platform, bringing together a diverse community of professionals from the building and construction ecosystem—architects, interior designers, real estate developers, MEP consultants, contractors, academicians, manufacturers and more. This wide representation creates a rich environment for exchange of ideas, fostering innovation and strengthening professional collaboration. Over nine editions, IPPL has become synonymous with credibility, skill mastery and sustainable thinking.

IPPL 2025 Across 16 Cities

The 9th Edition of IPPL—IPPL 2025—set new benchmarks in participation, enthusiasm and nationwide engagement. Conducted across 16 major cities—Ahmedabad, Bengaluru, Chennai, Delhi, Hyderabad, Indore, Kochi, Lucknow, Mumbai, Nagpur, Nashik, Puducherry, Pune, Raipur, Trivandrum and Chandigarh—the event drew an exceptional response from professionals across the country.

A total of 609 participants (304.5 teams) competed, each demonstrating high levels of proficiency, readiness to learn and dedication to professional excellence. This widespread participation reflects the trust IPPL has earned over the years and highlights the growing recognition of skilled plumbing as a crucial pillar of India's sustainable development.

IPPL 2025 - Semi Finale

The winning teams from all 16 chapters advanced to the Semi-Finale on 14th November 2025, held during the prestigious 31st Indian Plumbing Conference & Exhibition in Kolkata. The environment was charged with anticipation as the nation's most competent teams battled for a coveted entry into the Grand-Finale.

After a challenging and intellectually stimulating contest, six exceptional teams emerged as finalists:

- Chennai - T Sathiyanathan and V B Vijaykumar - L&T Construction
- Puducherry - K. Shanmugapriya and Kota Dhivya Charis - Design Collaborative Pvt Ltd
- Delhi - Amol Savant and Himanshu Palariya - Godrej Properties Ltd, North
- Hyderabad- P Sai Krishna and K Kiran Kumar - Designtree Service Consultants Pvt Ltd.
- Kochi - Jyothi Sankar. P. R and Nisha. A. S - Nss College Of Engineering, Palakkad
- Nashik - Roshani Kalamkar and Sagar Akolkar - Abh Developers, Nashik

These teams represented the pinnacle of plumbing expertise and demonstrated exceptional teamwork, strategy and technical knowledge.

IPPL 2025 - Grand Finale

The Grand-Finale of IPPL 2025, held on 15th November 2025 at the iconic Biswa Bangla Mela Prangan (Milan Mela), Kolkata, was the highlight of the concluding day of the Indian Plumbing Conference. Hundreds of delegates, exhibitors, academicians and students gathered to witness this highly anticipated knowledge battle.

The competition was conducted by **Mr. Dinesh Shah**, National Co-Convener of IPPL and NEC Member, IPA Pune Chapter, who served as the **Quiz Master**. His energetic anchoring, quick wit and engaging style kept the audience fully engrossed, adding excitement and suspense to every round.

Left to Right: **First Runner- Up**: Hyderabad, **Winner:** Puducherry, **Second Runner-up-** Chennai

IPPL National Winner 2025

SL NO.	CHAPTER	NAME	REMARKS
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Wat-er View

COLUMN 25

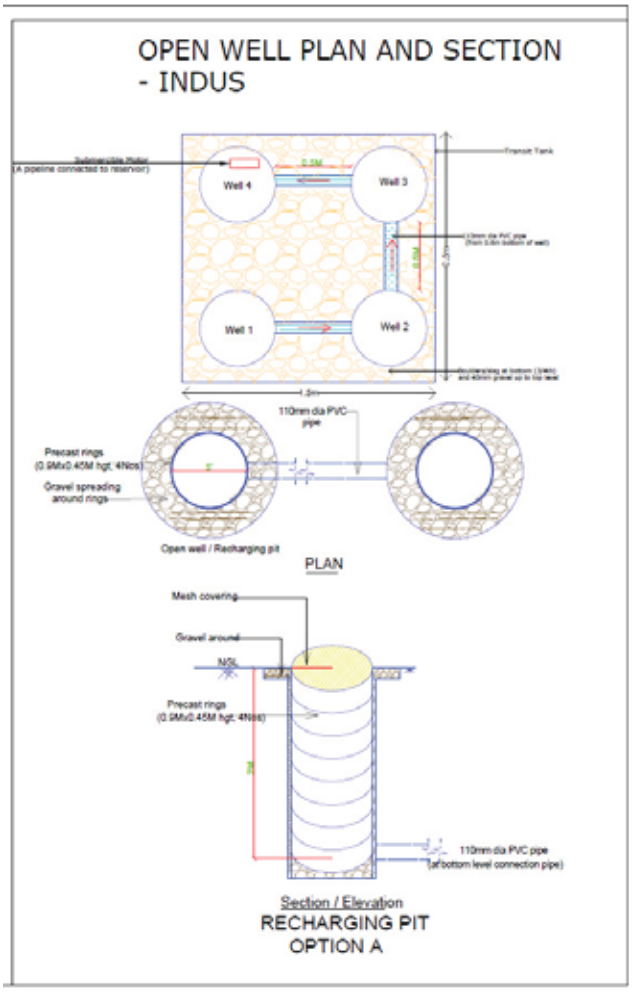
The Connect Between Catchment, Collection and Consumption

- Chandrashekhar Hariharan

As plumbing professionals, we spend our time and learning on creating infrastructure for drawing water into pipes and eventually discharging them as waste water. For a professional, the discipline has not demanded much as thought that goes into what happens to the water after we use, or where the water initially is secured. There is some stirring among MEP professionals on how they can bring economy in the design of systems for storage or for treatment, with the arithmetic on demand and consumption being worked out. Most of us, as MEP professionals, stick to the norms set down in the NBC as guidelines, and even if the Code is known to be changing LPCD to 90 litres of water-use from 135 litres we have been designing for years, there is little effort that is being made to change the way we orient our framework, especially among younger MEP designers, to the new norm.

We need to be reminded that when a facility with, say, 5000 occupants is being designed for 135 LPCD or 675 KLD to a home, the builder could easily be counselled into accepting 450 KLD. That delta of 225 KLD costs the builder a hefty 50 lac more on the water infrastructure, or a 35% increase in capital cost—wasteful, hurting natural resources, and has the promoter paying for ignorance. Plus, this greater water-use on a daily basis—amounting to nearly 100 million litres a year—is drawn insensitively from some deep aquifers by some tanker-vendor of water. Many of us have been witness to such indiscriminate infrastructure spending, with designers sticking to norms that have long become irrelevant. And companies, big builder brands, in the country, are at the receiving end of such inefficiency.

How do we as plumbing professionals ensure that we shape the future of STPs, for example, in a way to that



we offer sludge-free microbial wastewater treatment, reduce the multiple steps of regular conventional STPs that employ SBRs, MBRs or MBBRs, and avoid activated sludge? How can we therefore have systems that reduce use of operating energy and cost?

Should we conscientiously ask, what the source of water is, what are we designing the plumbing system for a facility to be? What are the new ways of looking at source, storage, distribution and disposal? Most facilities have storage at ground-level and as overhead tanks, that are barely enough for two days of demand of the facility. They are almost always not designed for harvesting and holding rainwater, since the myopic view on the cost of additional storage or the fact that 'there is no space' for any more storage, overrules all other considerations. The head of facilities at a large IT company remarked, "Many of the solutions that are offered need more space. We are open to solutions that are sustainable but they recognize these challenges that facilities offer." And so they continue to employ solutions that really do little to treat waste water, barring the display of pumps and much as churning for little or no effect. These systems blend black and grey water, do no segregate solids, and only add to the challenge of cities on managing wastewater. Odour remains a challenge in nearly all such reactor based systems that go under the label of batch reactors.

Ask most residents, and you will see them not making the connect between the water they get to use, and the source of water. Kids in schools say it with a winning smile, "From tankers, uncle!" Probe a little more as to where the tanker gets water from, and you draw a blank. When asked if it is good to drink borewell water, one teacher at a school responded, with disarming innocence, "But sir, tell me why drinking borewell water is not good. It has so many minerals, and it should therefore be good for our health."

If you trace that water trail, for borewells, for lakes, for rivers we will go eventually to the source of these in the forests and hills that serve all water bodies with rains that depend on the dense tree line for its own life.

If you live in an apartment with 600 other families, it is hardly likely you bother to understand the mechanics of water. You open your taps and showers and you have water, and the times you do not have, you express consternation and raise a holler. And someone does something to get the water flowing back in those taps and showers at home.

How do we get the regular water-user to begin to be responsible? To learn to relate the water they use, to its ultimate source and the threats to that source. Such connects go well beyond water. For example, China manufactures for the US, but American users will not share the guilt for the environmental degradation. In turn, China will not bother about the energy and material it gets from countries in Africa, or Laos or Vietnam. And as consumers we will not ask or seek to know what the source is, of the power that storage of your files on cloud need at data centres, of the massive quantum of energy AI-led Data needs into the future, and how all of these centrally lead to use of water for the generation of power.

What is this connect between catchment, collection of water and its consumption? For example, the new buzz phrase in 'green energy' is pump storage energy. These are projects for power generation that strike deep into the few forest zones that are left in the country? Why is there an unseemly hurry to secure EIA clearances for these pump storage projects which destroy massive tracts of forests for creating reservoirs of water that are pumped up to a higher elevation to gain the advantage

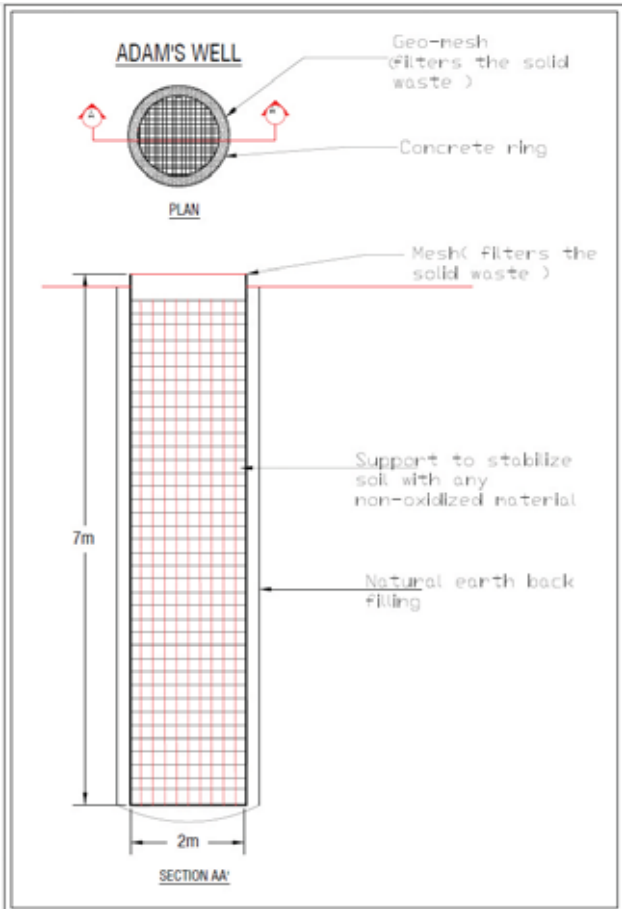
of turbine-based power they can generate? Or what are those hydel projects doing in eco-sensitive and seismically vulnerable zones of Arunachal Pradesh or the Western Himalaya.

What are India's own equivalent of the 3 Red Lines that China has adopted right across the country with no exception? How can we ensure that any new project for water or for energy is developed proactively, based on the long history of such projects elsewhere in India or the world. Has the DPR for the project taken into account the lessons from such earlier projects?

The conflict between growing urban demand and the massive abuse of natural resources with water ecosystems at the centre of them all, has to be stopped. The threat to Water Towers, or the very source of water for streams, rivers and the cascade of lakes and water systems that emanate from such forests will spell doom a few decades into the future. There has to be an honest assessment by administrators and engineers who draw up plans that bring large scale decimation of core zones of forests. Such engineers have to reflect on what they are leaving as a trail of wreaking that will forever destroy ecosystems.

How do we ensure, going forward, that we secure fresh, scientifically rigorous, and legally compliant assessment—one that genuinely evaluates alternatives, respects ecological limits, and upholds the statutory protection of sanctuaries, eco-sensitive zones, rivers, and heritage sites. How do we also ensure that MEP designers look at concerns of water at the Start-of-pipe as well as at the End-of-pipe? And how do water-users begin to see the connect between water they use, where it comes from? How can users and designers be conscious of the damage caused by solutions that damage deep aquifers, or that hurt first order catchments deep in forests?

Can plumbing designers see this connect to consumption through all the upstream linkages from borewells, to shallow aquifers, to rivers and their source ecosystems that are fragile, sensitive water towers? If across the spectrum from plumbing designers to ecologists to administrators to end-users we carried this consciousness of how we are responsible in the chain of generation and use, we will then make the world a better place to live in.



Chandrashekar Hariharan

The writer is founder-trustee at AltTech Foundation and Prem Jain Memorial Trust, and a Senior Fellow at CII IGBC. As a green building pioneer and a Net Zero exponent, he currently mentors startups to harvest over 5 billion litres of low-carbon, low-TDS water every year for a variety of commercial and industrial projects. He can be reached at Hariharan@AltTech.Foundation.

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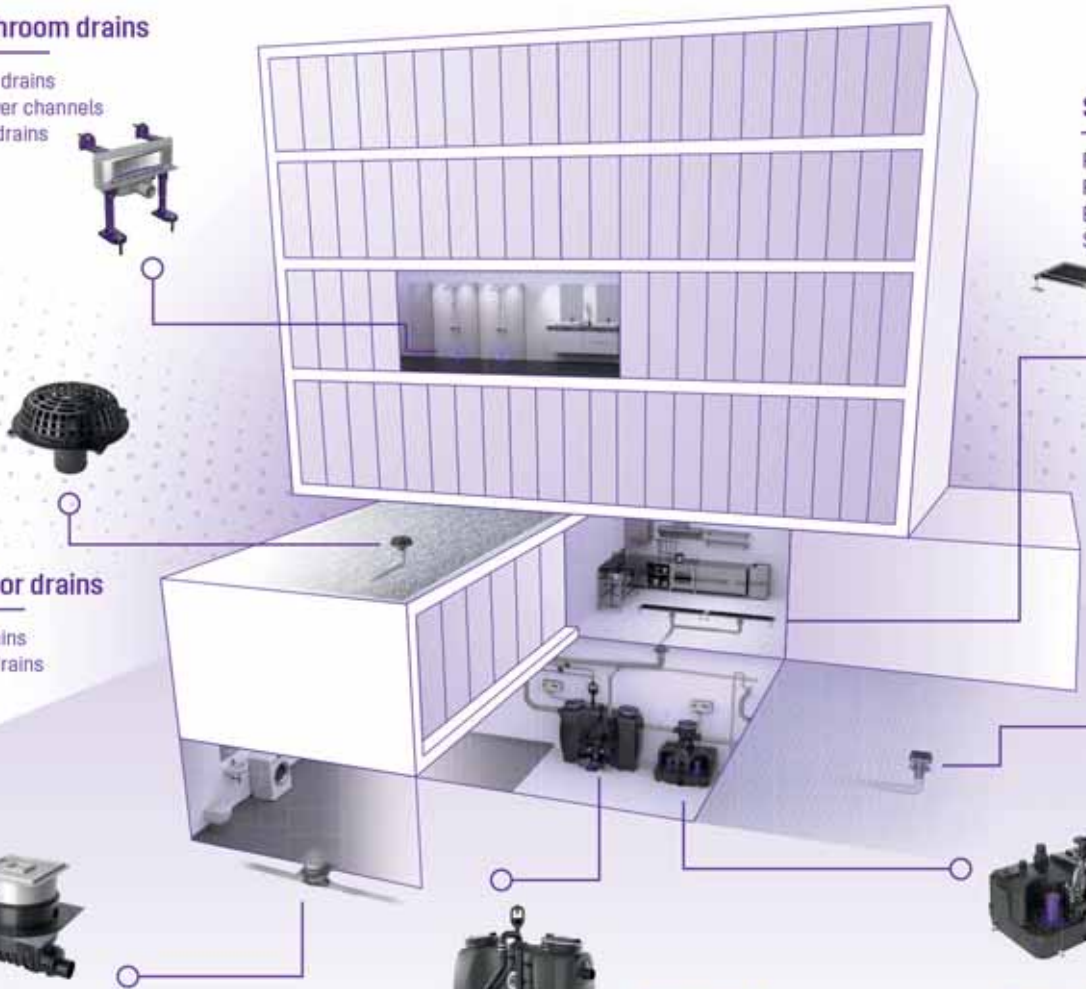

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IPA at Big 5 Global Exhibition, Dubai

The Indian Plumbing Association partnered with the Big 5 Global Exhibition in Dubai—one of the world's leading exhibitions for construction and building services, as the Official Supporting Association for this edition. The National Executive Board (NEB) of IPA visited the exhibition along with two IPA HQ members and below are the glimpses.

IPA at Big 5 Global Exhibition, Dubai

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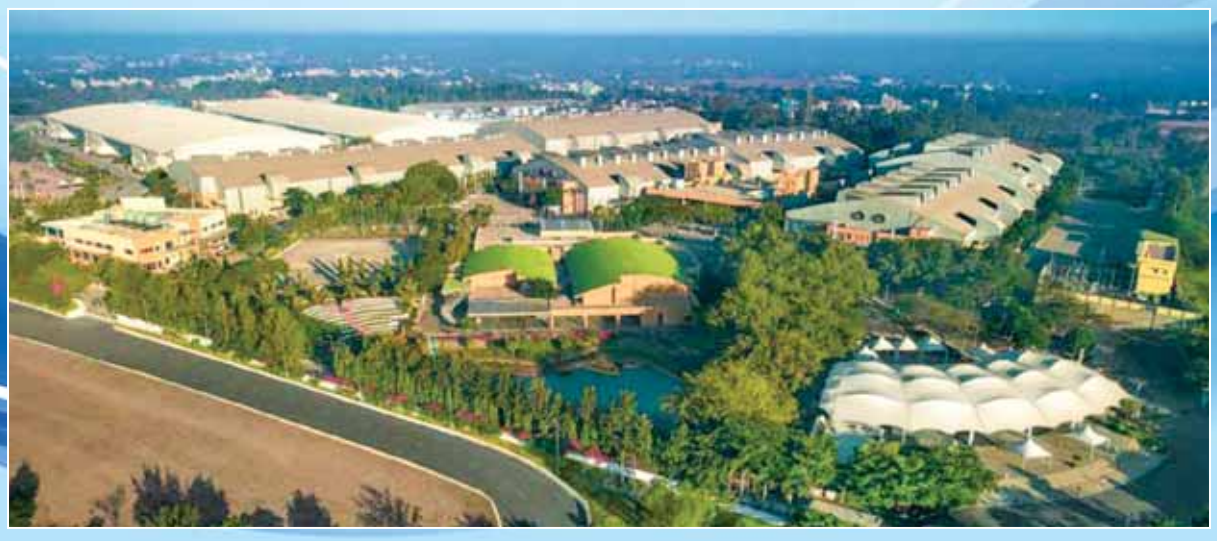

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RNI Registration No. DELENG/2019/79105 | ₹ 20 per copy | English - Monthly
Postal Registration No. DL(S)-17/3585/24-26 | Date of Publication: 15th of Every Month
Date of Posting 20th of Every Month | Posted at Lodi Road PO, New Delhi – 110003
If undelivered, return to: 416 Prime Towers, F 79 & 80, Okhla Phase – I, New Delhi – 110 020