



BUILDING, MOVING IN, OR RENOVATING? SAFEGUARD YOUR HEALTH WITH THESE 5 ESSENTIAL PIPE CHECKS

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source, but during transportation through outdated, corroded, or poorly designed piping systems. Compounding this risk is the fact that most conventional pipes are not hygienic and lack antimicrobial properties, allowing biofilm and pathogens to thrive within the network. This compromises water quality before it reaches households and poses heightened health risks, especially for children and other vulnerable family members.

As homeowners rebuild and reimagine their living spaces, it is worth pausing to ask: are the pipes inside your home protecting your health, or compromising it?

Here are five checks every homeowner should consider before sealing the walls shut.

water systems increasingly rely on 100% food-grade virgin plastic that are lead-free, non-toxic, and compliant with BIS standards, ensuring they do not react with water or degrade under regular use.

Equally important is hygiene inside the pipe. Certain well-known CPVC and UPVC pipe brands engineered with built-in antimicrobial properties actively inhibit the growth of bacteria, fungi, algae and viruses on internal surfaces, reducing the risk of contamination, odour and biofilm formation within the plumbing network itself thus making the water safe for consumption.

When pipes protect water quality throughout its journey, safety doesn't stop at the tap, it begins behind the walls.

2. What's Growing Inside Your Pipes?

Conventional piping systems are vulnerable to corrosion, scaling and sediment build-up over time. This gradually narrows the internal diameter of pipes, disrupts water flow, reduces pressure, and creates conditions that encourage microbial growth, directly impacting household hygiene. Modern CPVC and UPVC potable piping systems are engineered to withstand these challenges, as they do not react with water, thereby preserving its purity and ensuring safe delivery. This helps maintain consistent flow, stable pressure and cleaner water over the long term.

In multi-storey buildings and high-rise homes, where stagnation and pressure variation are common, clean internal pipe surfaces are not just a performance feature, they are a necessary health safeguard.

Clean pipes on the inside mean water reaches the tap as clean as it was intended to be.

When people renovate or move into their new homes, the focus is almost always on what is visible—floors, fittings, finishes and aesthetics. What often goes unnoticed are the pipes concealed behind walls and under floors, quietly carrying the water we consume every day for drinking, cooking, cleaning, bathing, etc. Thus, making them a hidden yet critical determinant of household health, as any contamination within these pipes directly affects the safety and quality of the water reaching our homes.

The quality of household plumbing has a direct bearing on the family's health. Even as piped water access expands across India, water contamination within homes remains a concern, often caused not at the

1. Are Your Pipes Truly Safe, Hygienic, and Safeguarding Your Family's Health?

Safe drinking water depends not just on RO purification at the source, but on what carries it inside the home, every day, every drop. Every day, a family (of four people) consumes about 1,000 litres of water, of which at max 50 litres is used for drinking, which is treated using RO or filtration — yet we only worry about those 50 and not the rest of 950 litres, which is directly or indirectly consumed by us.

Older metal pipes and substandard plastic used in pipes can corrode or release harmful substances, respectively in the water over time. Modern potable

3. Are Hidden Leaks and Pests Putting Your Home at Risk?

Not all damage announces itself immediately. Micro-leaks behind walls, often caused by poor jointing or incompatible fittings, can lead to dampness, mould growth and contamination long before they are visible.

Equally overlooked is the role of rat damage, especially in drainage and sewerage systems. Rodents gnawing through pipes can cause blockages, leaks and exposure to wastewater, posing serious home hygiene and disease risks.

Using durable piping systems with reliable fittings reduces leakage risks. For drainage applications, rodent-resistant pipes add a critical layer of protection in areas most vulnerable to infestation and damage.

In plumbing, what you don't see can affect the health of your pipes the most.

4. Do Your Pipes Match Indian Living Conditions and Usage?

Indian homes place unique demands on plumbing: high overhead tank pressures, hot water from geysers and solar heaters, seasonal temperature swings, and frequent daily use.

CPVC & UPVC pipes made with 100% foodgrade

virgin plastic. CPCV pipes are designed for hot water applications and UPVC pipes are designed for cold water applications. CPVC pipes are engineered to withstand high temperatures and pressure fluctuations without deforming or weakening over time. Selecting pipes rated and made specifically for Indian conditions ensures long-term durability, reduced leakage and maintenance, better hygiene, and peace of mind for everyday household use.

Infrastructure that performs quietly in the background is often the most dependable, and the healthiest.

5. Is Your Plumbing Designed for Long-Term Safety—and Water Discipline?

A home is a long-term investment, and should be designed to last for years to come. Pipes that fail early force homeowners into disruptive repairs, breaking finished walls and floors, often re-exposing the household to contamination risks and additional expenditures.

Durable UPVC and CPVC piping systems are designed for decades of service with minimal maintenance, reducing repeated exposure to leaks, stagnation and hygiene failures.

Equally important is correct separation of water systems. Modern homes increasingly use distinctively coloured drainage and recycled-water pipes, ensuring clear visual identification & preventing

cross-contamination between potable & non-potable water lines, a subtle but critical hygiene safeguard.

A well-chosen pipe is one you never have to think about again.

The Bigger Picture

Water safety is not only about access, it is about integrity across the entire journey, from source to storage to supply. As India continues to modernise its housing stock, the quality of plumbing inside homes will play a decisive role in protecting public health.

Renovation offers a rare opportunity to get this right. Pipes may remain hidden, but their impact is felt every single day.

Because a truly modern home is one that protects health as quietly as it delivers comfort.

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