

# Products in Plumbing Systems

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Features, Quality & Their 'Out-of-the-box' Uses

- Abbas Lehry,

Managing Director – Lehry Group of Companies.

# *India's Water & Plumbing Crisis*

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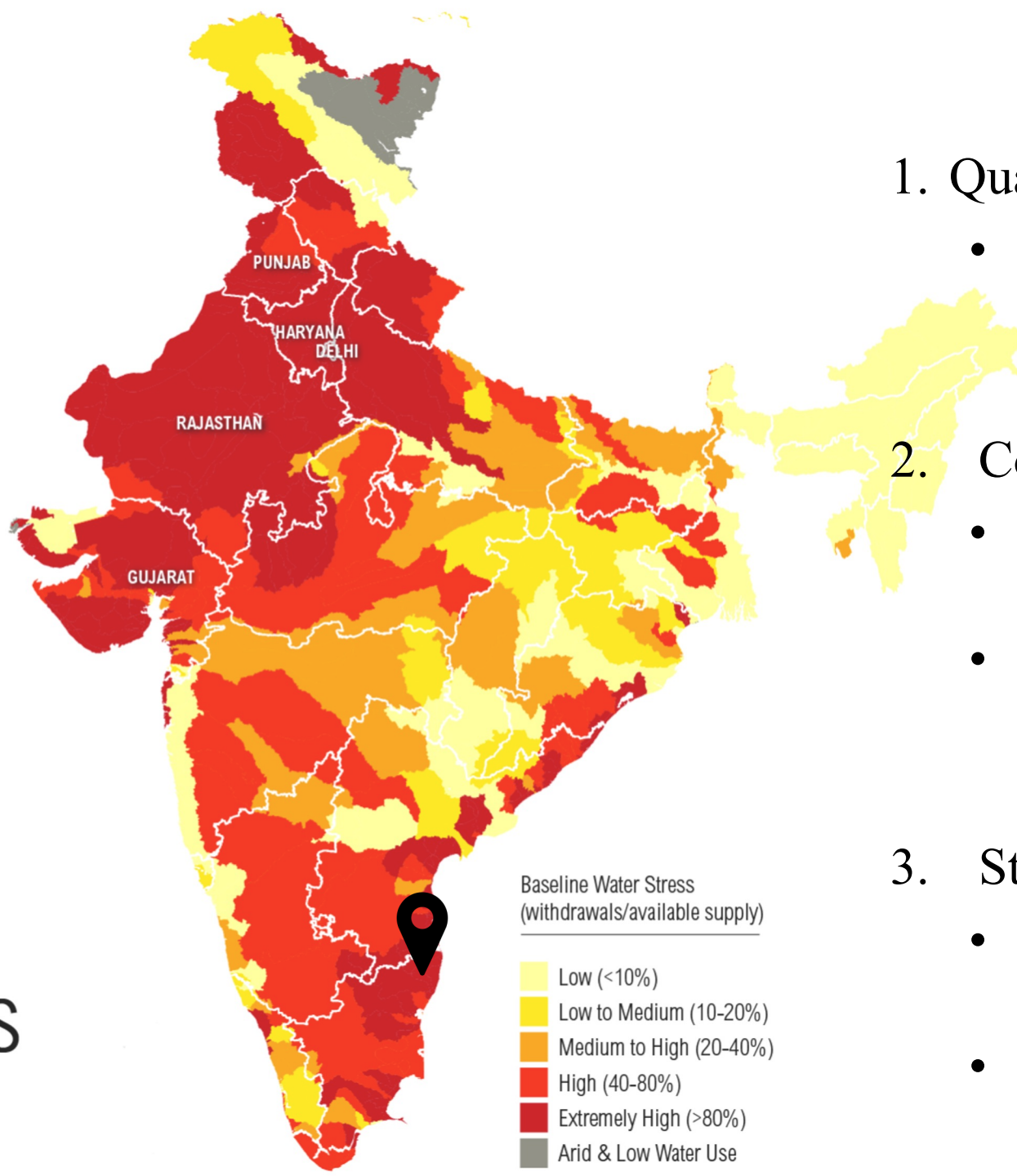
## 1. The Challenges in Plumbing Profession

- Plumbing – Unseen, Unheard. A neglected perception of Plumbing as a Profession.
- Missing Pieces in Plumbing Education – A lack of Syllabus.
- A Gaping Hole – Scarcity of Skilled & Certified Plumbers.

## 2. Complexities of Modern Plumbing

- Complexity Amid Population Surge.
- India: Leading in Population, Urbanization Struggles.
- Nowhere but up? – Vertical Growth to Optimize Limited Space.
- Valves – Vital for Towering Structures.

**54%**  
of India  
Faces  
**High to  
Extremely  
High**  
Water Stress



1. Quality, Quantity, & Scarcity.

- Water & Valves – Quality Meets Scarcity

2. Conserving Drops in an Ocean.

- Global Freshwater – A precious 1%
- India's Dilemma – People > Water.

3. Standards: Equation Balancing

- Standards in an Evolving Indian Landscape.
- Global Meets Local

# *Smart Water Management*

*Ways to Mitigate Water Wastage*

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Pressure Reducing Valves

*Tackling a Major Blindspot in  
Water Wastage*



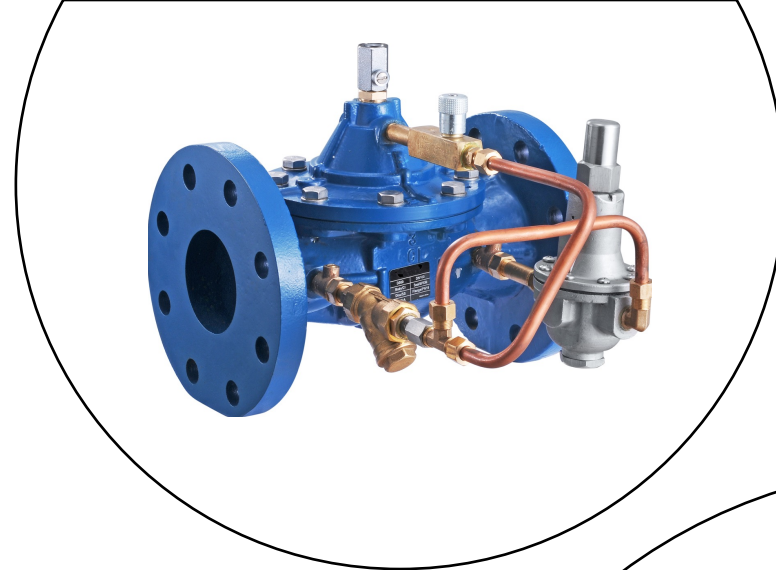
Smart Water Metering Systems

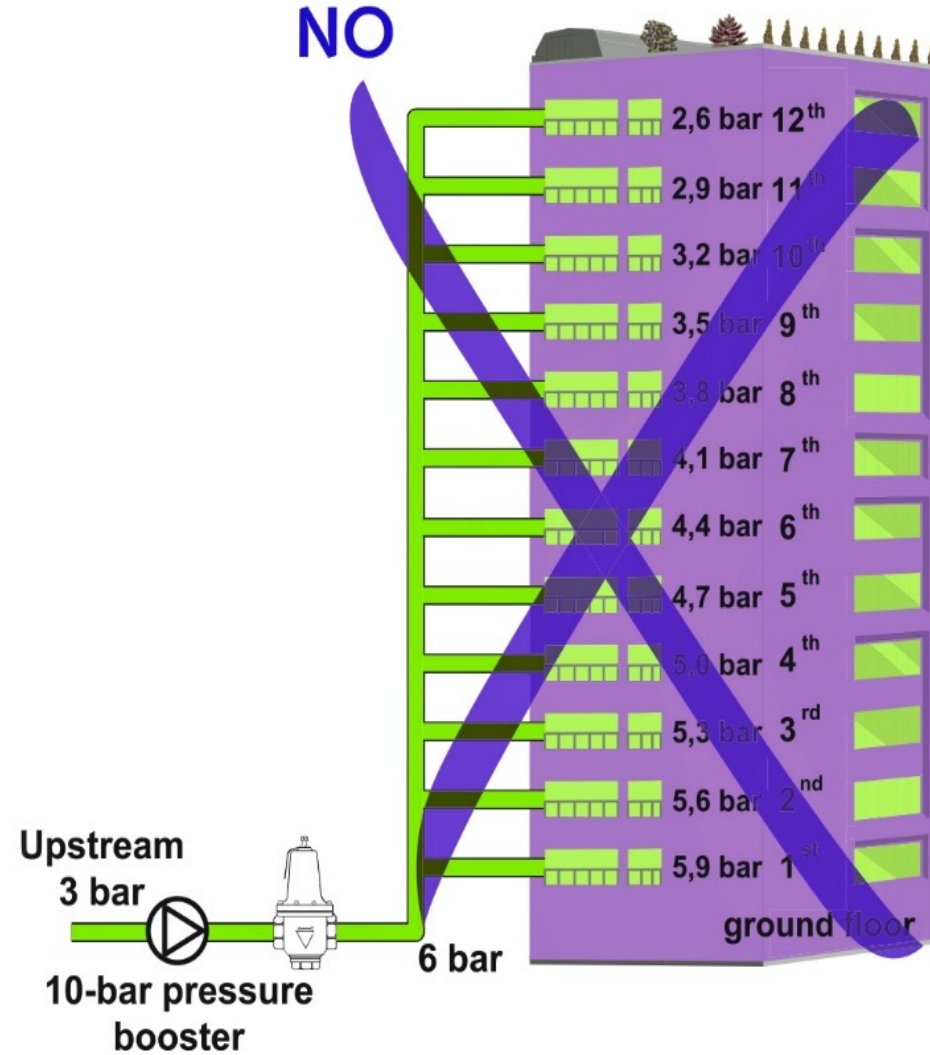
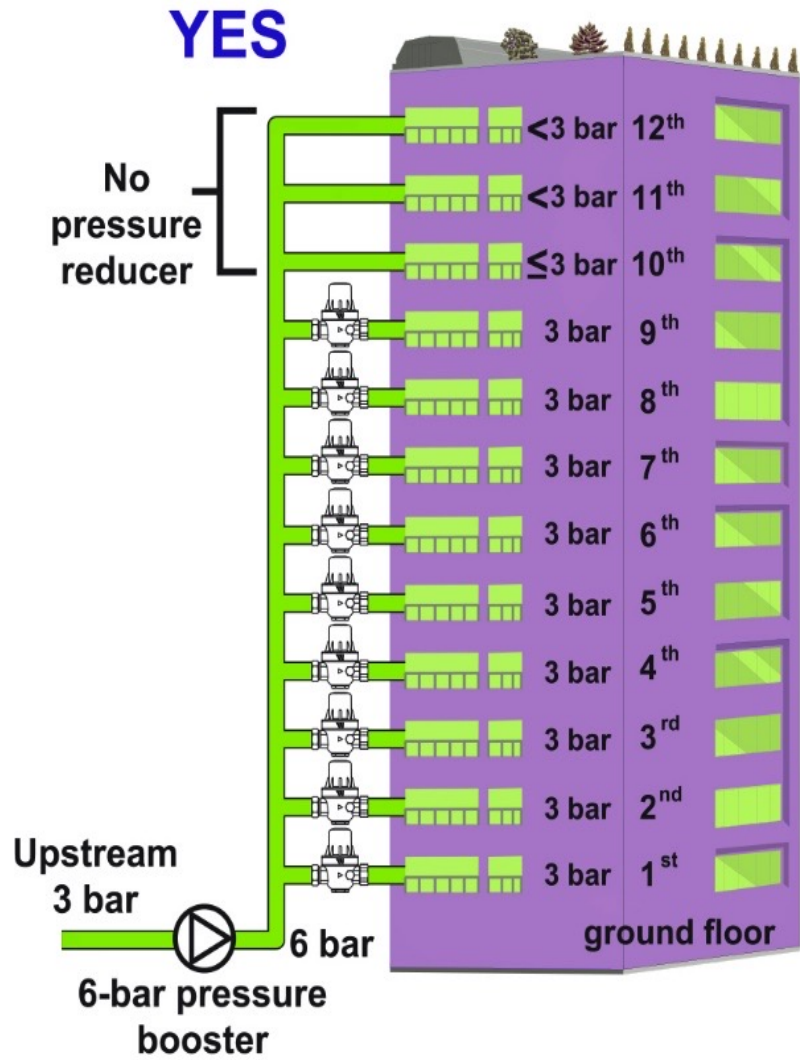
*Conservation begins at Monitoring!*

# *A Fix - Pressure Reducing Valves*

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- Uniform pressure distributions.
- Optimum comfort levels.
- Serviceability despite varying demand rates.





# Pressure Vs Wastage



Supply Pressure	Wasted Water	Water flow
50 psi	-	30 gal
65 psi	6 gal	36 gal
80 psi	10 gal	40 gal
100 psi	15 gal	45 gal
150 psi	26 gal	56 gal

\* 10 mins running time on a 2lps flow rate faucet

# *Smart Water Metering Systems*





# WHY IS WATER METERING RECOMMENDED??

- When the water usage is not properly monitored, either the customer is undercharged or over charged.
- Thus, in conjunction with volumetric pricing it provides an incentive for water conservation
- Also, it helps to detect water leaks in the distribution network, thus providing a basis for reducing the amount of non-revenue water.
- It is a precondition for quantity-targeting of water.
- Allows to track, monitor, analyze and control the water usage.
- Improved accuracy for billing as well as enhanced cash flow.
- Figure out specific timings for water usage and demand.
- A lot of water could be saved because whenever water being used is continuously measured and an accurately charged as per the usage

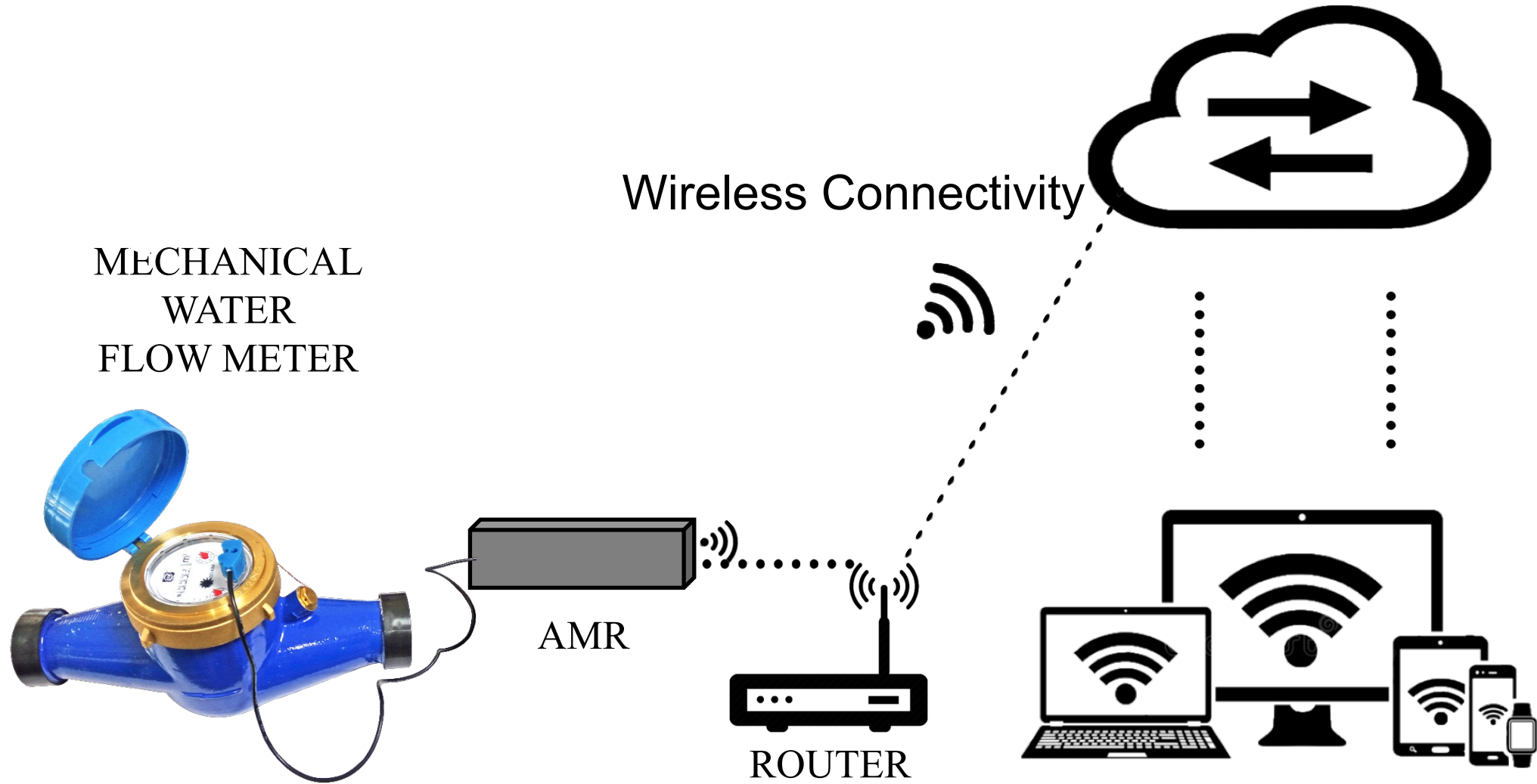




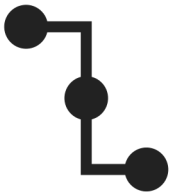
# *Smart Water Metering solutions*

- Incentive to water conservation.
- Leak detection and isolation.
- Improved billing.
- Reduced un-accounted for water.
- Reduced on-site meter reading costs.
- Precondition to quantity targeting.

# Functional Working



# Thank You!



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**Questions?**

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