



A GUIDE FOR HOMES, FACILITIES & COMMUNITIES

The Water Solutions & Plumbing Guide

How to get water supply, drainage, treatment and waterproofing that stay leak-free and reliable — instead of chasing recurring problems.

By ITIHAS Engineering Services

Certified EPC & Fit-Out authority · CEng · BEE · IGBC · ECBC · ISO 45001 *"Building Trust. Delivering Value."*

What our water scope covers

Water is where hidden shortcuts cause the most visible damage. Proper design, quality fittings and real waterproofing prevent years of trouble. Our scope:

- **Water supply & distribution**

Pipe sizing, pumps, pressure and reliable distribution across the building.

- **Drainage & sewerage**

Correctly graded drainage, traps and venting to prevent blockages and odour.

- **Sanitary installation**

Quality sanitaryware and fittings, installed and pressure-tested.

- **RO, WTP & STP**

Water treatment, RO plants and sewage treatment sized to demand.

- **Waterproofing**

Terrace, bathroom, tank and basement waterproofing that actually holds.

- **Pumps, tanks & rainwater**

Storage, pumping and rainwater harvesting for reliable supply.

Designed, installed and pressure-tested — not patched.

Quality fittings and real waterproofing prevent years of leaks.

How reliable plumbing is done

Most plumbing failures trace to sizing, slope or waterproofing skipped at the start.

1**Requirement & design**

Demand, pressure and drainage designed for the actual building.

2**Itemised BOQ**

Pipes, fittings and equipment specified with a locked price.

3**Quality material approval**

ISI-grade pipes and fittings approved before installation.

4**Installation & supervision**

Correct sizing, slope and support, supervised throughout.

5**Pressure & leak testing**

Lines tested under pressure before concealing or handover.

6**Waterproofing & handover**

Waterproofing applied and checked; warranties provided.

6 plumbing mistakes to avoid

These are the shortcuts that turn into leaks, damp and recurring repairs.



Wrong pipe sizing

Under-sized lines cause low pressure, noise and premature failure.



Incorrect drainage slope

Poor grading means blockages, backflow and odour.



Cheap fittings & valves

Low-grade fittings leak at joints within months.



No pressure testing

Concealing untested lines guarantees a wall you'll reopen.



Skimped waterproofing

The most expensive shortcut — damp, seepage and structural damage.



No accountable supervision

Unsupervised plumbing is where hidden defects are born.

Water systems that stay dry.

Designed and installed by an accountable team.

Every ITIHAS project is personally overseen by a Managing Partner who holds the credentials most firms in this space simply don't. One firm. One accountable engineer. What we commit, we deliver.

- ✓ Chartered Engineer (CEng)
- ✓ BEE Certified Energy Auditor
- ✓ IGBC Accredited Professional
- ✓ ECBC Professional
- ✓ ISO 45001:2018 Certified
- ✓ NISM-CRISIL ESG Risk Analyst

Price locked upfront

A transparent, itemised BOQ before any work starts.

What we commit, we deliver

Approved scope & materials — zero substitutions.

Supervised every day

A dedicated engineer owns quality at every stage.

Committed handover

A milestone schedule and a handover date we keep.

Before you award plumbing work

Ask any plumbing contractor these questions. The right partner answers all in writing.

- ☐ Is pipe sizing designed for actual demand and pressure?
- ☐ Are pipes and fittings specified to ISI grade in writing?
- ☐ Is drainage graded and vented correctly?
- ☐ Are lines pressure-tested before concealing?
- ☐ What waterproofing system and warranty is included?
- ☐ Who supervises the installation on site?
- ☐ Is treatment (RO / WTP / STP) sized to our demand?

Planning water, plumbing or waterproofing?

Get a free site visit and a transparent, itemised quotation.

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