



A FACILITY OWNER'S GUIDE

# The MEP, Kitchen & AMC Guide

How to get electrical, HVAC, plumbing and kitchen systems designed, installed and maintained — safely, to code, and without breakdowns.

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By ITIHAS Engineering Services

Certified EPC & Fit-Out authority · CEng · BEE · IGBC · ECBC · ISO 45001

*"Building Trust. Delivering Value."*

# What MEP really covers

MEP is the hidden engineering that makes a building actually work. Done well it is invisible; done badly it is the source of every breakdown and safety risk. Here is the full scope ITIHAS delivers:

- **Electrical systems**

Load design, DBs and panels, wiring, earthing, LT works and energy-efficient fittings.

- **HVAC & ventilation**

Air-conditioning, fresh-air, exhaust and kitchen ventilation, sized and balanced.

- **Plumbing & firefighting**

Water supply, drainage, sanitary, pumps and basic fire-safety provisions.

- **Commercial kitchen equipment**

Design, supply and installation of SS kitchen equipment, hoods and utilities.

- **Automation & controls**

BMS, DG/UPS integration, metering and safe, monitored operation.

- **Annual maintenance (AMC)**

Scheduled preventive maintenance, breakdown response and compliance upkeep.

**One contract. One accountable engineer. Design to maintenance.**

No juggling separate electrical, HVAC, plumbing and kitchen vendors.

# How a proper MEP project runs

MEP failures almost always start on paper. A disciplined sequence prevents costly rework later.

**1****Load & requirement study**

Actual loads, usage and site conditions assessed before any design.

**2****Design & itemised BOQ**

Drawings, equipment schedules and a transparent, locked price.

**3****Approved procurement**

Rated cables, panels and equipment sourced — no under-spec substitutions.

**4****Installation & supervision**

Correct sequencing, safe workmanship, supervised daily by an engineer.

**5****Testing & commissioning**

Earthing, insulation, load and safety tests before you switch on.

**6****Handover & AMC**

As-built drawings, warranties and an optional maintenance contract.

## 6 costly MEP mistakes

These are the errors that cause breakdowns, safety incidents and inflated running costs.



### **Under-sized cables & panels**

Cutting corners on ratings causes overheating, tripping and fire risk.



### **Poor or missing earthing**

The single most common — and most dangerous — electrical shortcut.



### **No load or diversity design**

Guesswork loads lead to nuisance tripping and equipment damage.



### **Cheapest equipment wins**

Low-grade panels and fittings fail early and cost more over time.



### **No testing before handover**

Skipping insulation and load tests hides faults until they trip in use.



### **No maintenance plan**

Without an AMC, small issues become expensive emergency breakdowns.

# MEP that simply works.

## Engineered and maintained by a certified 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 MEP work

Ask any MEP contractor these questions. The right partner answers all of them in writing.

- ☐ Is the design based on an actual load study, not guesswork?
- ☐ Are cable, panel and equipment ratings specified in writing?
- ☐ Is earthing designed and tested to standard?
- ☐ Who is the accountable engineer, and will they supervise site?
- ☐ Are insulation, load and safety tests done before handover?
- ☐ What warranties and as-built documents do I receive?
- ☐ Is an AMC available, and what response time does it guarantee?

### Need MEP done right — and kept running?

Get a free site assessment and a transparent, itemised quotation from a certified team.

**Call / WhatsApp +91 98499 08842**

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