

Executed Right. Ready for Production.

Business Objective

A data centre operator required full low-side MEP electrical implementation across two sites , a 600 kW facility in Lucknow (95 racks) and a 180 kW facility in Hyderabad with dual-source power cabling, earthing, CCTV trunking, and complete testing and handover to production standard.



BUSINESS NEED

Execute Dual-Source Power Cabling for 95 Racks

- Lay and terminate Source A and Source B power cables from PDUs to all 95 rack locations with correct segregation and routing.

Install Compliant Earthing & Bonding System

- Implement H-tap earthing across all racks, PDUs, trays, and trunking to meet IS, IEC, and client standards.

Deliver Fully Tested, Labelled & Documented Installation

- Complete insulation resistance testing, socket testing, ferruling, and as-built documentation for full client handover.

SOLUTION & IMPACT

95 Racks Fully Powered. Zero Single Points of Failure

- Dual-source A and B installation across all racks with full hot and cold aisle segregation.

100% Earth Continuity Verified

- IS/IEC-compliant H-tap earthing tested and confirmed at every rack and PDU location across both sites.

Full Handover Package Delivered

- As-builts, test reports and ferruling schedules submitted at project close, giving an audit-ready installation record.

Conclusion

Technavious delivered a precise, standard-compliant MEP electrical implementation across two live data centre sites simultaneously. From dual-source cable laying through H-tap earthing, socket testing, and full documentation handover, every rack was brought to production readiness on time giving the operator a safe, reliable, and fully traceable electrical infrastructure built to serve for years.