

 Cleantech certified electrical engineers inspecting commercial LT switchgear panel with multimeter in corporate facility

Mission-Critical Power Reliability, Preventative Safety & Uptime Assurance.

Unscheduled power disruptions, overheating busbars, and latent electrical hazards endanger staff safety and stall operations. Cleantech provides licensed HT/LT panel maintenance, DG set synchronisation, thermographic auditing, and comprehensive breakdown support across corporate tech parks, hospitals, commercial towers, and industrial plants across India.

Core Electrical Maintenance Solutions

HT & LT Switchgear Servicing

ACB and VCB servicing, busbar torque audits, contact lubrication, insulation resistance megger testing, and secondary injection tests.

DG Sets & AMF Automation

Preventive A/B/C/D maintenance drills, fuel filtration, battery load tests, and auto-mains failure synchronisation to guarantee zero changeover delays.

Infrared Thermography Audits

Non-contact FLIR thermal imaging to diagnose micro-arcing, loose lug terminations, overload phases, and hidden fire risks under operational load.

Distribution Board & Circuit Balancing

Phase-load balancing, MCB/RCCB trip testing, wire dressing, and neutral-to-earth voltage stabilization across all floor panels.

Earthing & Lightning Protection

Earth pit resistance dissipation testing, chemical compound recharging, grid continuity mapping, and rooftop lightning arrestor certification.

Server Room & UPS Power Upkeep

Static transfer switch diagnostics, battery bank conductance checks, harmonic filtering, and emergency power distribution monitoring.

99.9%
POWER UPTIME

100%
LICENSED WIREMEN

< 15m
RAPID RESPONSE

CEA/IS
SAFETY COMPLIANT

Electrical Audit & Maintenance Frequency

System / Equipment	Audit Cycle	Testing Methodology & Engineering Scope
Main LT Panels & Breakers	Monthly Inspection	Thermal scan, busbar temperature check, ACB contact drop test, and trip mechanism clearance.
DG Synchronization Units	Weekly Test Run	Full off-load and on-load failover drills, coolant pH verification, and governor control validation.
Floor Distribution Boards	Bi-Weekly	Infrared hot spot scan, terminal tightening, RCD/RCCB leakage sensitivity trip checks.
Earth Pit Resistance	Quarterly / Pre-Monsoon	Digital earth clamp meter testing ensuring impedance remains strictly under 1.0 Ohm.
Transformer & Substation	Bi-Annual	Oil breakdown voltage (BDV) dielectric testing, silica gel inspection, and tap changer check.
Data Rack & UPS Feeders	Weekly / Monthly	Battery bank cell voltage logging, ripple voltage analysis, and static switch bypass checks.

Specialized Field Diagnostics & Operations



Cleantech electricians testing distribution panel breakers with insulated screwdrivers and meters

Distribution Board Maintenance



Engineers servicing substation HT breaker panel in high voltage transformer room

Substation & HT Panel Servicing



Technicians inspecting server room power distribution unit and UPS battery banks

UPS & Critical Power Racks

Licensed Technicians

Staff holding state electrical supervisor and wireman licenses, trained in NFPA 70E safety compliance.

Calibrated Instruments

Utilizing certified Fluke multimeters, Megger insulation testers, power quality analyzers, and thermal cameras.

24/7 Breakdown Crew

Round-the-clock emergency escalation protocol with ready stock of critical switchgear consumables.

Schedule a Thermal & Electrical Safety Audit

Complimentary preliminary load assessment and customized electrical AMC proposals.

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