



CISCO BGL-14 CX Lab Upgradation

Critical Power Infrastructure Deployment

Project Snapshot

Client: CISCO Systems Pvt. Ltd.

**Power Solutions & Systems Integration
Partner:**

ESCON Gensets Pvt. Ltd.

Location: Cessna Business Park, Bengaluru

Project Type: Mission-Critical Power Upgrade
for CX Lab

Commissioning Date: 12 August 2024

Warranty: 24 Months

Executive Summary

CISCO operates some of the world's most critical technology and customer experience laboratories, governed by stringent global engineering standards. Traditionally, CISCO does not source Caterpillar DG systems across its global facilities, relying on a tightly controlled list of approved power technologies.

For the BGL-14 CX Lab upgrade, ESCON was invited as a technical challenger. Impressed by ESCON's value engineering approach, system optimization capability, and execution depth, CISCO presented the project as a challenge opportunity—to design, deploy, and commission a CAT-based mission-critical DG solution aligned with CISCO's global benchmarks.

ESCON successfully delivered the project, opening the gates for Caterpillar DG systems to be considered within CISCO's ecosystem.

Project Scope

Component	Specs / Quantity
DG sets	2 × 2000 kVA, 11kV
Acoustic Enclosures	Custom-built, 75 dB(A) @ 1m compliance
HT Panels & Control Systems	IP-42 CRCA construction
Exhaust Fans	Nicotra ADTA-F 560
Fire Suppression	Novec 1230 Clean-Agent System
Power Cables	Polycab A2XFY, 3C × 300 sq.mm

Key Challenges & Mitigation

- **DG movement to Lower Basement-2:** Custom rigging & sectional movement
- **Synchronizing with existing DG set** of different make & configuration.
- **Fuel line works in live DG zone:** Approved method statements & safety audits
- **Fire system integration:** Joint technical workshops & aligned schedules

Escon's Role

- DG Assembler & OEM Integration Partner
- Engineering, acoustic design, manufacturing & supply
- End-to-end mechanical, electrical & fire integration
- Testing, commissioning & client approval support
- Execution Excellence & Value Delivered

Solutions Implemented

- Re-engineered layouts for confined basement installation
- Phased execution minimizing disruption
- Weekly technical reviews with CISCO & PMC
- Zero-incident safety execution following CISCO EHS protocols

Certifications & Compliance

- ISO 9001:2008
- BIS & CPCB norms
- NFPA compliance
- Factory Acceptance Tests

Outcomes & Strategic Impact

- Mission-critical CX Lab protected from power disruptions
- Seamless integration of electrical, mechanical & fire systems
- Delivered in line with CISCO's global quality benchmarks
- Established confidence in CAT DG systems within CISCO's ecosystem

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