

Prepared for Certification. Ready to Operate

Business Objective

A national critical infrastructure data centre in India urgently needed to upgrade its colocation capacity to support 70 server racks, 20 high-density at 15 kW and 50 medium-density at 6 kW with N+1 redundancy, structural floor strengthening, and full technical compliance, all under significant time pressure.



BUSINESS NEED

Deliver 70-Rack High & Medium Density Colocation Capacity

- Urgently execute a full revamp to support 20 racks at 15 kW and 50 racks at 6 kW, enabling colocation customers to continue critical operations.

Eliminate Multiple Single Points of Failure

- Identify and resolve all power, cooling, and cabling single points of failure across the existing 5 DCs before the revamped facility went live.

Strengthen Structural & Connectivity Infrastructure

- Increase floor bearing capacity, resolve ODU installation constraints, and provision additional ISPs to meet new capacity demands.

SOLUTION & IMPACT

70 Racks Deployed. Two Density Profiles.

- 20 racks at 15 kW and 50 at 6 kW delivered with N+1 redundancy under urgent time pressure.

All Single Points of Failure Eliminated

- Every power, cooling and cabling SPF across 5 DCs remediated, fragile estate made resilient.

Structural Compliance and Thermal Risk Resolved

- Floor capacity upgraded and ODU short-cycling eliminated before high-density racks went live.

Conclusion

Technavious executed a complex, time-critical DC revamp for one of India's national critical infrastructure operators delivering 70 racks of mixed-density colocation capacity under urgent conditions. By combining a thorough multi-DC audit with structural engineering, cooling redesign, and power distribution upgrades, the facility was transformed to meet immediate demand and positioned for long-term operational resilience.