

Scaling Infrastructure. Delivering Confidence.



Business Objective

One of India's oldest and largest stock exchanges operated a captive data centre offering colocation services to its members. An immediate infrastructure upgrade was needed to meet surging customer demand for high-capacity colocation requiring additional rack capacity, structural strengthening, and compliance delivery, all within an existing live premises.

BUSINESS NEED

Double Rack Capacity Within Existing Premises

- Identify and deploy additional colocation capacity through intelligent redesign of the existing facility footprint without expanding the physical site.

Achieve Multi-Standard Compliance

- Ensure all design and execution met IEEE, ASHRAE and other global certification standards to satisfy regulatory and enterprise client requirements.

Deliver Full Execution Within 4 Months

- Complete design, engineering, commissioning, and compliance handover within an aggressive 4-month timeline with zero disruption to live exchange operations.

SOLUTION & IMPACT

120 Additional Racks Delivered Within Existing Premises

- Intelligent redesign and structural load redistribution doubled colocation capacity without a single square foot of new construction.

Multi-Standard Rated 3 Compliance Achieved

- Full multi-standard sign-off across Rated 3, IEEE and ASHRAE, meeting institutional client and regulatory requirements.

Full Execution in 4 Months. Zero Disruption

- Design through compliance handover completed on time with live exchange operations unaffected throughout.

Conclusion

Technavious delivered one of India's most commercially high-stakes data centre upgrades doubling rack capacity within a live stock exchange facility in just 4 months. Through integrated MEP design, structural engineering, CFD-validated cooling, and Rated 3 compliance, the exchange unlocked new colocation revenue, met member demand, and achieved the international infrastructure credibility its position in India's financial markets demands.