

Comfort and efficiency

Trane building systems knowledge helped the state-of-the-art Logix Cyber Park software technology campus design efficient, effective HVAC systems that will save significant installation and operating costs. Logix Cyber Park will be a next-generation home to more than 10,000 information technology professionals.

Challenge

The Logix Cyber Park developers had challenging expectations from HVAC systems manufacturers in terms of energy efficiency and indoor air quality (IAQ). The specifications required a maximum power consumption of 0.65 kilowatt per ton of air conditioning capacity. The campus' IAQ had to be maintained according to ASHRAE Standard 62-2004 and maintain an indoor temperature of 22 degrees centigrade, plus or minus two degrees and with 55 percent relative humidity. HVAC suppliers also had to provide a no down-time guarantee to meet the 24/7 operations of building occupants. In addition, building space was a prime consideration-any HVAC system that could 'free up' valuable floor area would be well received.

Solution

After thoroughly studying the developer's requirements the Trane team proposed a Trane Integrated Comfort™ systems package. By reducing the total number of



Logix Cyber Park, Noida

Building Specifications

- Project Type:** Software Technology Park consisting of four towers, 325,000 Square Feet each.
- Total Site Area:** 1,300,000 Square Foot Area
- Total Project Cost:** Approximately \$ 44 Million (U.S.)
- Project Team:**
 - Joint Venture: Logix Group & Citi Property Investors
 - Architects: Design Forum of Architects (DFA)
 - Trane India



LOGIX CYBER PARK

Integrated Comfort™ Systems - Noida, India

Trane has helped us achieve our vision of a state-of-the-art Information Technology Park with world class systems and services- Shakti Nath, Chairman and Managing Director, Logix Group

chillers from seven to five, Trane saved approximately \$70,000 (U.S.) in installation cost and delivered superior energy efficiency of only 0.60 Kilowatt per ton. The use of larger 1000-ton chillers with better than specified efficiency also reduced the number of pumps required and minimized floor space occupied by HVAC systems while maximizing floor space for occupant operations. The use of Trane factory engineered controls and variable frequency drives on air handling units made for quick, trouble-free installation and commissioning. The entire HVAC system is monitored and controlled by a Trane Tracer Summit™ building management system. The Tracer Summit system optimizes the HVAC

system for most efficient and effective operation while providing extensive operating reports.

Results

Logix Cyber Park will be benefiting from maximum system efficiency, simplified maintenance, single-source responsibility and lower overall operating costs, which would result in fast payback and return on investment. Shakti Nath, Chairman and MD, Logix Group, said "Our vision is to make Logix Cyber Park the best in the country by providing professional international class facilities under one roof with most efficient and superior design and aesthetics. Trane has helped us achieve this vision with their world class systems and services."

CASE STUDY

Systems Installed



- Five Trane Model CVGF Centrifugal Chillers of 1000 tons capacity each
- 174 Trane Air Handling Units with factory engineered controls and Variable Frequency drives
- Trane Tracer Summit™ building management system

About Logix Cyber Park™ and Trane India

About Logix Cyber Park™

Located near New Delhi, India's National Capital, Logix Cyber Park is being developed as an Information Technology hub to accommodate more than 100 software units.

About Trane India

Trane's business in India was established in 1993 with distribution headquarters in Mumbai and three sales offices in Delhi, Bangalore and Chennai. Trane provides Integrated Comfort™ Systems including equipment, controls, services, comprehensive maintenance, and parts.

Tracer Summit™ Building Automation System



www.trane.com

For more information, contact your local Trane office or e-mail us at comfort@trane.com

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Stocking Location Electronic Only

Trane has a policy of continuous product and product data improvement and reserves the right to change design and specifications without notice.