

Optimized water leak detection for India-based data center

PROJECT DETAILS

Contractor:	JCI
Rep / partner name:	Johnson Controls / Saini Electronics Security Systems
Location:	India
Industry / type of plant:	Commercial
Application:	Water Leak Detection System (WLDS)
Scope of work:	Supply of WLDS including all accessories
Project start-end date:	2018-2020



KEY CHALLENGES

The major challenge for this project lay in providing a reliable leak detection solution within the client's planned budget.

We faced significant competition but were able to differentiate our offering thanks to our optimized design, specification and supply process, in addition to a proven track record of performance and approvals from internationally accredited agencies, including UL, FM and API.

Throughout the project we maintained an open dialogue with all stakeholders and quickly provided the requested technical data, along with complete specifications for standards and approvals.

SOLUTION

An nVent RAYCHEM TraceTek system utilizing cable-based sensing technology was selected due to its high performance capabilities.

Overall, nVent installed 1.7 km of TT-1000 OHP sensing cables, capable of providing distributed water leak detection and location over a wide area.

An nVent RAYCHEM TTDM 128 control panel and SIM modules were also chosen thanks to their ability to directly monitor and control up to 1,500 m (5,000 ft) of sensor cable and a network of up to 128 remote TraceTek modules.

BENEFITS

The nVent RAYCHEM TraceTek WLDS offers a complete UL and FM approved leak protection solution, while nVent's turnkey design, supply and installation service provides contractors with end-to-end project support. The system's ability to precisely locate the site of a water leak allows for the effective protection of essential hardware in critical facilities serving financial institutions, data centers and fuel storages sites.

Additional benefits include:

1. Fast acting, accurate leak detection - the nVent RAYCHEM TraceTek leak detection system utilizes innovative sensing cable technology and fast acting probes to quickly pinpoint the location of a leak to within +/- 1 meter.
2. 24/7 protection - the nVent RAYCHEM TraceTek leak detection system offers continuous circuit integrity monitoring via its connections with the main control panel. In case of a system error, the control panel's self-diagnostic tools automatically identify the issue and generate incident reports, allowing for faster maintenance and fault resolution.
3. An established, trusted solution - since the 1980s, nVent RAYCHEM TraceTek systems have safeguarded hundreds of facilities around the world, including the Middle East and India.
4. Local knowledge, extensive expertise - nVent's long-established presence in India, along with its network of expertly trained and fully certified local partners, provide a complete turnkey leak detection solution - from project management to aftermarket services and support.

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