

CONNECT AND PROTECT

Complete water and fuel leak detection system for Asia's largest and world's second largest tier IV data center

PROJECT DETAILS

Contractor:	Schneider
Rep/partner name:	Saini Electronics Security Systems
Location:	India - Navi Mumbai
Industry/type of plant:	Data center/Commercial
Application:	nVent RAYCHEM TraceTek Water Leak Detection (WLDS) & Fuel Leak Detection System (FLDS)
Scope of work:	Supply of WLDS and FLDS system with all the accessories
Project start-end date:	2019-2021



KEY CHALLENGES

The project in question called for the installation of over 10 km of detection cabling, comprising both water and fuel leak monitoring networks. An nVent RAYCHEM WLDS and FLDS solution was chosen due to nVent's long established record of specifying and delivering large-scale infrastructure projects, as well as its ability to support consultants every step of the way. The successful completion of the project in accordance with strict deadlines opens up the potential for future collaborations with the customer.

SOLUTION

An nVent RAYCHEM TraceTek system was selected thanks to its proven track record of performance and approvals from various internationally accredited agencies, including UL, FM, and API.

For the water leak detection circuit, nVent installed 10km of TT-1100 OHP sensing cables along with 65 nos of TT flat water leak probes, which offer the ability to pinpoint the location of a leak to within +/- 1 meter. The fuel leak detection network required 2.5 km of TT-5000 sensing cable, in addition to 4 TTFS to provide accurate leak location data.

A TS-12 panel and advanced SIM modules were also installed to deliver advanced control and monitoring functions for both circuits.

Overall, nVent met the tight deadlines specified by the contractor, while maintaining effective communication with all stakeholders to ensure the smooth running of the project

BENEFITS

The nVent RAYCHEM TraceTek WLDS and FLDS offer 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 or fuel leak allows for the effective protection of essential hardware against fluid damage and fire 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 precise location of a leak to within +/- 1 meter.
3. 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.
4. 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.
5. 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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