Case Study

Raychem

Complete Water and Fuel Leak Detection System for Asia's Largest and World's Second Largest Tier IV Data Center



PROJECT DETAILS

Applications:
Raychem TraceTek Water Leak Detection (WLDS) & Fuel Leak Detection System (FLDS)

Contractor:
Schneider

Location:
India - Navi Mumbai

Date:
2019-2021

Contract Scope:
Supply of WLDS and FLDS system with all the accessories

Rep / Partner Name:
Saini Electronics Security Systems

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 Raychem WLDS and FLDS solution was chosen due to Chemelex'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 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, Chemelex 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, Chemelex 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 Raychem TraceTek WLDS and FLDS offer a complete UL and FM approved leak protection solution, while Raychem'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 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 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, Raychem TraceTek systems have safeguarded hundreds of facilities around the world, including the Middle East and India.
5. Local knowledge, extensive expertise - Chemelex'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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