

# CASE STUDY: OIL & GAS

## IOCL ENNORE LNG TERMINAL, INDIA



IOCL Ennore is the first LNG import terminal on the east coast of India and expected to promote industrial growth in the region. Regasified LNG from the terminal will be distributed to power and fertilizer plants, as well as other industrial sites. The LNG will also be made available for city gas distribution and used within the transport and commercial sectors, and domestic use for cooking via piped natural gas.

### Background

IOCL was looking to detect perimeter intrusions (cutting and climbing) along the terminal's 3km perimeter which comprised a brick fence topped with barbed wire. The customer required the perimeter intrusion detection solution to integrate with the existing video management system server (Honeywell EBI) which controlled CCTV on site. The closest CCTV camera to events would be used to visually verify intrusion alarms along the perimeter wall.

### Requirements

- ✓ Intrusion detection of climbing and cutting
- ✓ Suitable for brick perimeter fence topped with barbed wire
- ✓ Integration with VMS (Honeywell EBI) controlling all CCTV
- ✓ High detection combined with Low Nuisance Alarms
- ✓ Cost effective for both installation and ongoing maintenance
- ✓ Low environmental nuisance alarms
- ✓ Intrinsically safe - no power in the field
- ✓ Immune to RFI/EMI and lightning



### Our Solution

FFT Secure Point dual channel controlled was installed to restrict intrusions on the terminal perimeter. Both channels were utilised on the barbed wire wall top to monitor for climbing over or cutting of the fence structure itself. As a cost-effective solution for smaller perimeters, FFT Secure Fence was proven to be very effective on this site. The perimeter intrusion detection solution could be seamlessly integrated with the Honeywell EBI server which controlled CCTV on the perimeter.

### Customer Response

To test the effectiveness of the perimeter intrusion detection solution, IOCL undertook rigorous Site Acceptance Testing during which random intrusions were conducted along the perimeter wall. In the event of an intrusion in any zone, the closest CCTV camera pre-set in the Honeywell EBI server would be triggered to verify the alarm and track the intruder as they made their way inside the refinery grounds. FFT Secure Point successfully detected all intrusions and seamlessly communicated the information to the VMS.



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