

CASE STUDY

Implementation of Intrusion Detection Solution at the Electric - sub station

PROJECT OBJECTIVES

Following were the key objectives of this project. The customer was facing several Intrusion related issues. Given the high voltage present inside the premises, it is extremely important that no un-authorized person enters the premise without proper permissions

- To provide 24x7 intrusion alerts around the substation
- To integrate the solution with the existing VMS
- To maintain minimum nuisance and false alarm rate

SOLUTIONS

We carried out a thorough site survey of the substation. It has a solid wall. On top of the wall, Y-shaped irons are erected. In these angled irons, barbed and concertina wire is laid to ensure that the intruders are not able to climb the wall and jump over inside the Premises.

TWO LAYERS WAS DESIGNED

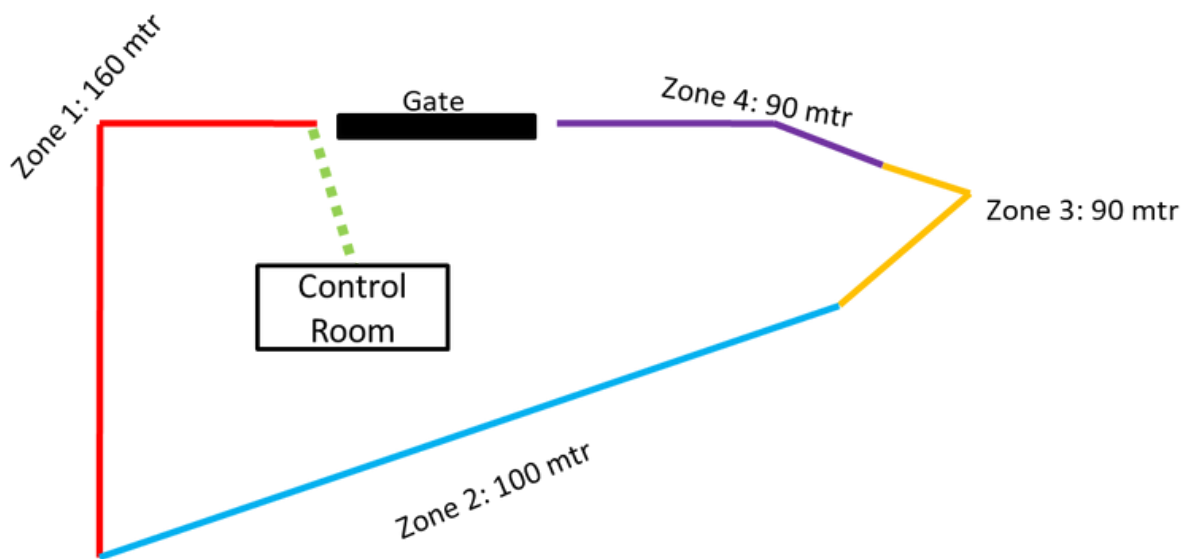
- One layer of Fiber cable on top of the wall, installed and secured to the concertina wire
- The second layer of fiber cable was clamped to the wall. This would detect any attempts to break the wall and gain entry to the premises
- All 4 sides of the substation were converted to 4 zones to make sure that the Security personnel knew the exact side from which the intrusion was taking place



Site Photo

LAYOUT: FIBER OPTIC PERIMETER INTRUSION DETECTION SYSTEM (FO-PIDS)

Perimeter: 440 metres
No. of Zones: 4



ABOUT US

Fiber Optic Sensing Solutions Pvt Ltd (FOSS) is one of the subsidiaries of TVS Sensing Solutions. We manufacture fiber optic cable-based Interrogators for Distributed Acoustic Sensing (DAS) , Distributed Temperature Sensing (DTS) and Distributed Strain and Temperature Sensing applications. All products are manufactured At Madurai-based factory.

Fiber optic cable has many benefits which make it technically attractive to be deployed as a sensing element. It does not need power in the field, is immune to EMI/RFI and long distances can be covered using a single Controller.