



# Powering a Future-Ready Learning Environment with Zyxel Nebula Solution

## Overview

Set against the legacy of Bedford School UK and shaped for a modern Indian academic environment, Bedford School Mohali is designed to deliver an elevated learning experience rooted in excellence, confidence, and a global outlook. As the campus grew to include academic blocks, boarding facilities, playground areas, hostels, corridors, and staff accommodation, the school needed more than basic connectivity; it required a network that could match that ambition with always-on performance, simplified management, and room to scale.

That is where Zyxel Networks made the difference. In collaboration with Viking Solutions, Bedford School Mohali rolled out a unified wired and wireless network infrastructure built on WiFi 7, and WiFi 6 access points, smart managed switches, and the Nebula cloud networking solution, giving the IT team a smarter way to run the network while creating a consistently connected experience across the campus.

## Challenges

For Bedford School Mohali, the challenge was not just coverage. The school needed dependable connectivity across a large multi-zone campus that included teaching spaces, boarding blocks, hostels, staff quarters, and common movement areas, all while supporting a smart-classroom model that depends on stable digital access everywhere.

The IT team also needed a network solution that was easy to manage without unnecessary complexity. A fragmented setup would slow response time and make scaling harder, so the requirement was clear: one reliable management platform for wireless, switching, and centralized network visibility.

### Customer

Bedford School

### Industry

Education

### Location

Mohali, Chandigarh, India

### Partner

Viking Solutions

## Customer Background

Founded in 1552 under England's storied spires, Bedford School UK has shaped generations of learners through its tradition of academic excellence. That legacy now continues at Bedford School Mohali, where world-class facilities, a global curriculum and the richness of Indian culture come together. In this inspiring setting, the girls are encouraged to grow with confidence, compassion, and purpose, ready to lead and make a difference.



**Managing a large campus network used to be complex. With Zyxel Networks Nebula solution and Viking Solutions deployment, we now have single-pane visibility across WiFi 7, WiFi 6 access points, and GS1920v2 series switches. This gives our small IT team enterprise-grade control without the headaches.**

**Charanjeet Singh Mann, Director**  
Bedford School

### Solutions

From classrooms to corridors, Zyxel Networks connected every corner with purpose. Working with Viking Solutions, Bedford School Mohali deployed a layered Zyxel Network architecture that combined high-speed wireless, resilient switching, and cloud-based control in a single infrastructure. This approach gave the school the performance needed for smart learning, the network reach required for a distributed campus, and the simplicity needed for day-to-day IT operations.

At the heart of the deployment were twenty-seven NWA110BE WiFi 7 access points, used to deliver high-capacity wireless coverage across major campus zones where strong performance and future-ready connectivity were essential. For additional wireless coverage in supporting areas, the school deployed six NWA50AX WiFi 6 and two NWA110AX WiFi 6 access points, helping extend reliable connectivity across corridors and other campus spaces while maintaining a smooth user experience for students, staff, and administrators.

To support the wired backbone behind this wireless experience, Zyxel Networks supplied twelve GS1920-24HPv2 smart managed PoE switches, four GS1920-24v2 smart managed switches, three GS1920-8HPv2 smart managed PoE switches, and one GS1915-8 smart managed switch. These switches helped connect access points and campus devices efficiently, while PoE capability simplified installation in areas where powering edge devices directly through the switch reduced deployment complexity.

For longer-distance connectivity across the campus layout, the deployment also included eighteen SFP LX 10 modules, strengthening fiber uplinks between network segments and helping maintain stable communication across dispersed buildings and usage zones. To unify management, the entire setup was onboarded to the Nebula cloud management platform, giving the IT team one pane of glass for monitoring, control, and easier scaling as campus needs evolve.

### Results

The deployment gave Bedford School Mohali a stronger digital foundation for both learning and operations. Instead of treating connectivity as a utility, the school now has a campus-wide platform that supports smart classrooms, staff productivity, residential connectivity, and a more consistent user experience across everyday academic life. Just as important, Nebula introduced a more agile management model. With switching and wireless infrastructure visible through one cloud platform, the IT team can manage the environment more efficiently and scale the network with greater confidence as the school continues to grow.

### Product List



- NWA110BE WiFi 7 Access Point
- NWA50AX WiFi 6 Access Point
- NWA110AX WiFi 6 Access Point



- GS1920-8HPv2/24HPv2 Smart Managed PoE Switch
- GS1920-24v2 Smart Managed Switch
- GS1915-8 Smart Managed Switch
- 1G SFP LX 10 Module



- Nebula Base Pack License

