

## ENHANCED CARE, GREATER CAPACITY



*The Kalinga Group of Organizations comprise healthcare, academic and higher educational businesses. Healthcare is represented by KIMS (Kalinga Institute of Medical Science), academia by KISS University (Kalinga Institute of Social Studies), and higher education by KIIT University (Kalinga Institute of Industrial Technology).*

*KIMS is a medical campus with over 2,000 staff and 2,000 beds with education facilities for both undergraduate and postgraduate medical students. A new hospital block has been commissioned for 2020, targeting private patients, supporting 500 new beds, with a vision to expand to more than 800 beds in the longer term.*

### THE CHALLENGE

Across the Kalinga campuses several cabling issues had been identified. Much of the cabling was old and fragile providing poor connectivity, additionally there was no color coding to identify and differentiate voice, data and video channels. A lack of space in the communication racks had also created damage to many of the fiber patch cords. There were also issues around building to building connectivity and limited data rates supported. And finally, because of the voltage current rating in the old Cat 6 cable, the cable was shorting, and this was affecting some active components.

### THE SOLUTION

Molex were identified and brought on board by the Kalinga group to resolve many of the challenges the organization had with their communications. The Molex Technical Team conducted a complete network survey, and recommendations were mapped out, based on best practice

### CUSTOMER PROFILE

#### COMPANY

Kalinga Group of Organizations, Bhubaneswar, India

#### TECHNOLOGY PARTNERS

M/s Sonatech Infosolutions Pvt. Ltd

#### INDUSTRY

Education / Healthcare

#### PRODUCT NAME

PowerCat 6A U/FTP, PowerCat 6 LSZH & Fiber OM4 Solutions.

#### SOLUTION FEATURES

Molex's PowerCat solutions have been developed with the highest performing capabilities in mind, with improved data transmission over higher frequencies and enhanced noise suppression. Cat 6 cables have a maximum length of 55 meters when used for 10GBASE-T, Molex Cat 6A cable offers enhanced alien crosstalk characteristics, allowing 10GBASE-T to be run for the same 100 meter maximum distance.

## CASE STUDY

cabling solutions and installation techniques.

Specifically, colored, low-smoke Cat 6 was recommended (red for IP phones, orange for CCTV, grey for the backbone, blue for data), patch cords, and shuttered I/O for proper identification of network services and greater network security. Higher bandwidth connectivity between buildings upto 500m apart was required, with Molex recommending the use of OM4 with 10G speeds, while data Center connectivity would be improved through the use of Cat 6A and OM4.

Molex further advised on the use of Cat 6 outdoor cable for CCTV purposes, and the provision of the Molex termination tool for best installation practice. The Cat 6A cabling also has the advantage of being low-smoke, ensuring minimized inhalation danger in the event of a fire.

## THE BENEFITS

**Minimising down time  
maximising performance.**

Alongside the collaboration work of the project team, Molex senior management met with KIMS executives to field strategic questions. Regular progress meetings were convened to ensure full communication and sharing of information between all parties. One of the most significant outcomes of this consultation was the agreement that the hospital installation should be carried out during 6-hour overnight windows to minimize disruption to staff and patients.

**Amulya Bindhani, Head of IT networks at KIMS, comments: "Working alongside Molex has seen true network efficiencies across the KIMS Campus. The technology is reliable and easy to install, as well as providing a faster and safer solution"**



For more information on how Molex Connected Enterprise Solutions can improve the efficiency and physical security of your IT system, please visit us at [www.molexc.es.com](http://www.molexc.es.com)