NILSEN

PROJECT FACT SHEET

Customer: Watpac Construction

Project: Queensland Institute of Medical Research (QIMR) Brisbane
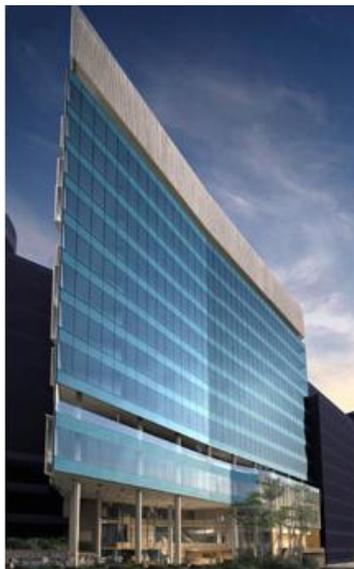
Project Profile:

Nilsen completed a contract for Watpac for the Electrical, Communications, Audio Visual and Security packages at the **QIMR Smart State Medical Research Centre** project on the outskirts of the Brisbane CBD in Herston.

Located on the site of the old Queensland Radium Institute (QRI) beside Royal Brisbane Hospital, the new QIMR facility features 15 levels purpose built research laboratories, making it the largest fully integrated biomedical research and development centre in Australia.

Specific work carried out by Nilsen included:

- 2 x 1500 kVa Transformers
- 3 x Main Switchboards
- 1 x Generator Switchboard
- 1 x 1500 kVa Generator with Bulk Underground Fuel System
- UPS Systems
- Busduct Systems for Mains and Riser Reticulation
- Extensive Audio Visual Package
- Lightning Protection
- Access Control and CCTV
- LED Lighting for Art Wall and Overhead Walkways
- Lighting Control for Specialty Lighting
- Cat6A Structured Communications Infrastructure

Construction of this state-of-the-art research facility saw the Nilsen team installing complex lighting and power scenarios. PC3/QC3 laboratories were one such area, with these labs to contain animals, they were fit out with time-scheduled lighting, fixed dimmers and red luminaries with a manual switch control to provide sufficient lighting to operate when the main lighting is off.

Dark Rooms and Insectaries were another unique aspect. The lighting within the Insect rooms was to be controlled by a dedicated lighting control panel to simulate a typical day. The lighting levels slowly ramp up in the morning to simulate dawn and ramp down in the evening with each room essentially having its own "daylight cycle".

Not only did Nilsen expand their knowledge and experience within the Health sector, the team further developed their staging and planning techniques which were crucial in the execution of this diverse project.