COMPUTER SCIENCES CHILLER STATION UPGRADE ST LUCIA

Consideration:

ISC have approved funding to upgrade the chillers located on Level 1 of the Computer Sciences Building. These chillers supply chilled water to the Computer Sciences, John Hines, Priestley, Prentice, Physiology, JD Story and Brian Wilson Chancellery buildings. The Computer Sciences Chiller Precinct is critical to the effective operation of the St Lucia Campus. The existing chiller system is old and becoming very unreliable and continues to fail in periods of high ambient temperatures. ISC have also approved for addition space adjacent to the existing chillers to be allocated to accommodate the new chillers and ancillary equipment.

Description:

Associated building works will see the conversion of an external glass wall into a solid wall and plant room doors on Level 1 of the courtyard side of the Computer Sciences Building. An additional cooling tower will also be installed on the roof of the building that will have some visibility from ground level. The alterations will have minimal aesthetic impact on the external façade of the building.

The walls of the lower level plant room are acoustically treated with few windows and included is one double glazed window for students to look into the plant room for interest. The wall panels are Vitrabond Aluminium faced composite panel system with expressed vertical and horizontal joints. This panel system provides a maintenance free clean smooth finish with colour fast equal to Powder coating techniques.

The colours used for the lower level would be equal to Dulux “Western Mayall”. This colour has been selected because it best reflects the colour of the existing tinted glass walls. The doors have not been highlighted and the same colour has been used for all surfaces to give the appearance of the original glass reflectivity. The cooling towers on the roof are a lighter grey, neutral, with low gloss level.
New Chiller Room and Roof Mounted Plant Equipment to Building 69

The University of Queensland
New Chiller Room and Roof Mounted Plant Equipment to Building 69 – Existing Roof

Note: Existing Cooling towers will be 1 metre higher
New Chiller Room and Roof Mounted Plant Equipment to Building 69 – Perspectives
New Chiller Room and Roof Mounted Plant Equipment to Building 69 – Existing Building
New Chiller Room and Roof Mounted Plant Equipment to Building 69 – Perspectives
Note: Drawings are not to scale
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