



CASE STUDY:

Coomabah Sewage Treatment Plant

Location

Gold Coast, QLD

Description

Motor Control Centre for a sewage treatment plant centrifuge system in Gold Coast Queensland. This project was part of a \$150 million upgrade. The upgrade will expand on the existing plant and include new Preliminary Treatment Facilities, bioreactors and secondary clarifiers, disinfection system, water sludge thickening and dewatering.

Features

ABB ACS880 VSD's, 55kW and 22kW
Form 3b enclosure,
B&R 15.6 HMI,
Remote IO panel

Plinth:

75x50x6 Galvabond Steel
Powdercoated X15 Orange

Scope

Design, construction

Design Specifications:

- IP54
- Indoor installation
- Rated Operating Voltage (Ue): 400VAC
- Current Rating (In): 125A
- Operating Frequency (Fn): 50Hz
- Rated Insulation Voltage (Ui): 600V
- Short Circuit Rating: 10kA
- Earthing System: TN-S
- Form Rating: FORM 3b/4a
- Design Temp: 0-40°C

Enclosure Specifications:

- External material: 2.0mm zincannel
- Mounting Panel Material: 1.6mm zincannel
- Powdercoated: X15 Orange
- Escutcheon Colour: Gloss White
- Door Hinges: 316 SS Lift of pintle hinge
- Door & Escutcheon Lock: 8mm 316 stainless steel quarter turn square drives
- Cable Entry: Top Entry/Top Exit
- Gland Plate Material: 6.0mm Aluminium Plate
- Document Holder: A4 size on distribution door

