

CASE STUDY: DARLING RIVER MEATS.



Contrast Electrics P/L was awarded the contract for the engineering design, manufacturing and installation of a fully automated control system and electrical hardware for the complete plant cooling system for the newly constructed small Stock Abattoirs in Bourke NSW, This project presented several challenges as the location of the site was in a remote part of Australia with little to no local assistance with materials or labour.

All major components for this project were manufactured at Contrast Electrics P/L workshop in Laverton Nth and freighted to site. The most confronting challenge was the extreme weather with weeks on end over 40 Deg C and constant desert dust storms, despite the challenges presented on site Contrast Electrics Delivered the system on time and to the complete satisfaction of the Customer.

Project requirements.

Design, build and install 2000A Form 4 MCC.

Installation of wiring and controls for the following plant.

3 of Mycom 250L Compressors.

Pumped liquid ammonia system.

2 of BAC condensers.

1 of Ammonia / glycol flooded plate heat exchanger with duty standby recirculation pumps.

Glycol tempering loop.

Cooling system for all production areas.

Deep chilling and holding rooms.

Mechanical ventilation and fresh air system.

Ammonia and CO2 gas detection system.

Allen Bradley Compact Logix PLC system,

Ignition SCADA system.

Engineering and programming solution.

Design complete electrical and automation system,

Instrumentation control loops design and calibration

Produce Electrical Schematics with Auto Cad Electrical.

Program PLC system.

Program Ignition SCADA system.

On site commissioning.























