

BOGGABRI EXPANSION



PROJECT DETAILS

PROJECT LOCATION:
Boggabri, NSW

COMMENCEMENT DATE:
July 2014

COMPLETION DATE:
March 2015

TYPE OF CONTRACT:
Construct

CONTRACT VALUE:
\$14 Million +

PROJECT MANAGER:
Anthony Greenaway

E&I MANAGER:
Phil Tilden

OVERVIEW TRADE PACKAGE

The Boggabri open cut coalmine is located 17 kilometres north east of Boggabri in north-west NSW. Boggabri Coal is expanding the annual production to 6.9Mtpa from 1.5Mtpa. The Thiess Sedgman Joint venture was award a \$186 million contract to construct a Coal Handling and Preparation Plant for Boggabri Coal.

Upon the successful delivery of the HV installation package, Star was awarded the E&I package for the CHPP and associated conveyors.

In summary the project expanded the mines output from 3.2MTPA up to 6.9MTPA and consisted of a 1,800 tonne per-hour Bypass Stream, a 500 tonne per-hour Wash Plant Stream, a 300,000 tonne stockpile and 4,750 tonne per-hour reclaim tunnel and trainload out facility.

COMMERCIAL FACTORS

- Design, supply, fabricate & installation of heavy duty cable ladder and associated cover Hot Dipped Galvanised throughout conveyors and stations and Stainless Steel throughout wash press plant;
- Design, supply, fabricate & Installation of brackets, stands and frames for electrical equipment and instruments;
- Design, supply, fabricate & Installation of local control stations, marshalling enclosures and local isolators;
- Supply, installation & termination of all LV, Instrumentation and Communication cables;

- Supply, installation & termination of instrumentation including speed switches, conveyor pull switches, flow switched, level switches, pressure switches, level probes, sirens, gas detectors, ultra-sonic sensors, etc;
- Design, supply, installation & termination of conveyor, washplant and station normal and emergency lighting complete with poles allowing maintenance without use of ladders;
- Design, supply, installation & termination ROM and stockpile tower lighting complete with poles allowing maintenance without use of EWPs;
- Supply, installation & termination of CCTV Cameras complete with poles allowing maintenance without use of ladders;
- Supply, installation, termination & inspection of Hazardous Area installation throughout the Reclaim Tunnel comprising of specialised equipment ensuring compliance with Australian Standards;
- Supply, installation & termination of dedicated redundant Fibre Network for SCADA and Communications;
- Supply, installation & termination of lightning protection system;
- Test, pre-commission and commissioning of the LV, instrumentation and fibre optic systems.

PROJECT CHALLENGES

- Interaction with numerous external statutory controllers, contractors, subcontractors and end users
- Short project time frames and long procurement lead time items
- One month accelerated delivery of project inline with Clients requirements
- Environmentally sensitive flora and fauna located through work area
- Working alongside an operating coal handling facility
- Interface with existing 15 year old equipment

PROJECT SPECIFICS

- Mobilise over 120 personnel involving training, medicals, inductions, accommodation, flights, buses, travel, etc
- Coordinate over 90 personnel on site
- Over 100,000 hours LTI free
- Over 155km of cables installed
- Over 6,500 terminations
- Over 15,500 quality assurance checks complete
- 550m long Hazardous Area Reclaim Tunnel
- Over 500 hazardous area items
- Over 750 light fittings
- Installation of over 2,600 electrical items

