FORTESCUE METALS GROUP LTD

IRON BRIDGE WET PROCESS PLANT CONSTRUCTION



Project	**Iron Bridge Wet Process Plant**
Location	**Pilbara, WA**
SIMPEC Scope	**SMP & E&I Installation**
Value	**$283 Million**
Duration	**26 Months**
Completion	**Q3 2023**

Project Overview

SIMPEC's scope of work includes the structural & mechanical, module installation including complexing and hook-up of all prefabricated modules. The works also include installation of Principal supplied Items such as piping, electrical and instrumentation/controls activities associated with the Project.

Our works also include the supply, construction, installation, construction and verification of non-modular "stick built" structural, mechanical, piping, electrical and instrumentation works for the entirety of the Wet Process Plant.

Client Overview

Fortescue's wholly owned and fully integrated operations in the Pilbara include the Chichester and Solomon mining hubs, the Western Hub, home to the Eliwana mine. The new Iron Bridge Mine comprises the North Star, Eastern Limb and Glacier Valley magnetite iron ore deposits located in the Pilbara region of Western Australia.

This project will include the construction of a process plant, non-process infrastructure, slurry and return water pipelines, a raw water pipeline and port infrastructure to enable 22 wmtpa production.

Scope of Work

Mechanical/Structural/Piping Installation Works

- Installation of 226 modules weighing up to 100 Tonnes each

Mechanical –468 Items:

- Approximately 63 items including Tanks, Bins and LFCU
- Tower Mills
- Three 74-meter diameter tails thickeners'
- Over 240 items including Pumps, motors, agitators, and samplers

Steel & Pipework:

- 794 Tonnes of Structural Steel Erection
- 13.7 kilometres of Pipework (C/S, Rubber lined and HDPE)
- Weld/Bolt up – 6234 ea.

Electrical & Instrumentation

- Installation of 280 kilometres of cable with more than 11,784 terminations
- Installation of 32 kilometres of conduit and cable trays
- Installation and commissioning of 1,684 pieces of instrumentation and equipment

Key Facts

- 650 personnel mobilised at peak of project
- Total 1,950,000 manhours worked