



engenium
smart project delivery

Lang Hancock Rail Project Design, Procurement and Construction Management

Client

Rio Tinto Iron Ore

Project Location

Pilbara Region, Western Australia.

Project Summary

Engenium, through its Rail Project Delivery vehicle Calibre Engenium Joint Venture, was engaged by Rio Tinto Iron Ore to manage the Design, Procurement and Construction Management of a new railway servicing Rio Tinto Iron Ore and Hancock Prospecting's 30 Mtpa Hope Downs mine site. Engenium were involved from initial concept level through to construction, commissioning and handover.

Due to environmental and approvals restrictions, the Project Team had to progress the development of the project through to tender stage without being able to conduct any ground disturbing activities and relied on existing knowledge and experience of Pilbara geology to develop the design.

One of the challenging conditions that the Design and Construction Teams had to deal with was karst geohazard (caverns below the finished rail level), which had the potential to undermine the railway.

The project scope included the 58 km Lang Hancock Railway, a 29 km sealed access road, three new sidings on the existing mainline, implementation of full signalling and communications systems, and a permanent accommodation village supplemented by a temporary construction camp.

The project was fast-tracked and completed ahead of time and below budget with an excellent safety result. In addition, the quality of the environmental management was recognised by the project being awarded a Certificate of Merit at the prestigious Golden Gecko Awards for environmental excellence.

Engenium divested its interest in Calibre Engenium Joint Venture in 2010.

Want To Know More?

For more information please contact our Perth office on +61 (0)8 6460 0300, email info@engenium.com.au, or visit our website engenium.com.au.

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