



COSOL CASE STUDY

Asia Iron Australia
Extension Hill Pty Ltd
West Australia
Magnetite Mine

ADVISORY SOLUTIONS

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Background

Extension Hill Pty Ltd (EHPL) is a Greenfield Magnetite mine in the feasibility stage. As part of the transition into operations, working alongside the Project Management Contractor (PMC), COSOL was engaged to deliver a comprehensive, integrated Decision Support System (DSS) as part of an implementation study to provide operational and commercial business solutions to meet the ongoing needs of the business and deliver an effective cost outcome.

Worley Parsons focused on the front-end engineering and specific baselines for management and control of the construction phase of the project. At the same time, COSOL defined the DSS implementation study that included technology platforms, business and technical applications and a wide range of supporting services. The implementation study covered the technical scope, capital cost, schedule and execution plans for construction.

Challenges

Expert design, timing of requirement and selection of technology and information systems, along with concise and practical project scheduling and accurate costing was vital for EHPL. EHPL required an experienced partner with the necessary practical knowledge to provide strategic, long-term solutions seen as imperative for this section of the implementation study.

COSOL Solution

It was imperative for EHPL to provide an early and accurate works program involving procurement of long lead equipment and services, along with completion of the site establishment works necessary to match the aggressive construction timetable.

To deliver the EHPL defined goals and strategies, the implementation study report required specific mining and IT experience. EHPL enlisted COSOL to drive this critical element of the project to cost and manage the efficiency and technical integrity of the design.

COSOL Delivery

COSOL provided the solution set (quoted to a +/- 15% variation) including: all systems, specialised solutions, production management and commercial solutions, IT infrastructure, communications, and support requirements. The solutions suggested covered the mining and geological processes, pumping solutions through a 260km pipeline, port solutions (shipping) and corporate requirements.

Development of an implementation schedule, starting with the Enterprise Resource Planning (ERP) solution and project management software, including dependencies was developed by COSOL and provided to Worley Parsons and EHPL. The necessary system selection, planning information, costing and next steps were delivered within the required time frame and format.

Project Summary

By engaging COSOL, the client was able to take advantage of broad IT knowledge and vast mining related IT exposure and experience. COSOL were able to expertly:

- Design and select fit for purpose IT systems
- Produce delivery plans
- Outline the budget required to implement the suggested operational and commercial business solutions that fulfil the on-going needs of the business.
- Assist in the planning and scheduling of administrative support functions (contracting, camp management, etc)

Utilising COSOL's experience, EHPL are certain of a fully integrated IT environment. Such an environment will effectively manage operations with electronic support systems and integrated operational systems from pit to port, and from order to delivery.