

**Client:**

Karara Mining Limited

**Project:**

Karara Iron Ore Project

**Project Location:**

Midwest Region, WA

**Project Value:**

AUD 1.7B (2008)

**Services:**

- Initial feasibility studies and supervision of testwork
- Bankable Feasibility Study
- FEED (Front end

## 1. Project Overview

Karara Mining Limited is a joint venture between Gindalbie Metals Ltd and AnSteel.

Gindalbie Metals Ltd (Gindalbie) is an Australian iron ore company with a portfolio of magnetite and hematite production assets, located within the Mid West region of WA.

The company's growth strategy is centred around the delivery of diversified iron products including hematite, high grade magnetite concentrates and blast furnace quality pellets.

The Karara Iron Ore Project is focused on delivering production by 2011. The scope of work for the Karara Magnetite Project is based upon the mining of 20 Mt/a of raw magnetite ore followed by a concentration process to produce 8 Mt/a of 68% Fe concentrate.

## 2. Scope of Work

The Karara Magnetite Project consists of:

- Open pit mining at 20 Mt/a
- 8 Mt/a concentrator plant located at Karara

The base case process design includes:

- Three stages of grinding
- Magnetic separation
- Froth (reverse) flotation for final grade control and recovery
- Transport of concentrate via rail to the Geraldton Port
- Loader at Berth 6 for concentrate transfer to the Port of Yingkou in Northern China
- The annual power consumption required for the project is 620,000 MWh/a. Power supply for the port of Geraldton of approximately 2 MW supplied from the local grid at Geraldton
- 6.6 GL/a project make up water

ProMet has had extensive involvement in the project since the early metallurgical test work undertaken at ProMet's direction and the initial feasibility studies through the definitive feasibility study work which led to Austeel's investment in the project.

ProMet is currently responsible for development of the front end engineering design for the wet section of the concentrator plant which covers the following:

- High pressure grinding rolls
- Rougher magnetic separation (RMS)
- Primary milling
- Intermediate magnetic separation (IMS)
- Multideck screening
- Cleaner magnetic separation (CMS)
- Secondary milling
- Reverse flotation
- Scavenger milling

## 3. Project Schedule

- Front end engineering design 2008/9
- Anticipated detailed design completion 2010
- Anticipated commissioning 2011

