

Client:
Karara Management Services

Project:
Karara Magnetite Project

Project Location:
Midwest Region, WA

Project Value:
AUD 1.7bn

Services:
Bankable Feasibility Study
Reimbursable

1. Project Overview

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 Magnetite Project is focused on delivering production by 2010. The scope of work for the Karara Magnetite Project is based upon the mining of 20 Mtpa of raw magnetite ore followed by a concentration process to produce 8 Mtpa of 68% Fe concentrate.

2. Scope of Work

The Karara Magnetite Project consists of:

- Open pit mining at 20 Mtpa
- 8 Mtpa 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 620,000MWh/pa. Power supply for the port of Geraldton of approximately 2 MW supplied from the local grid at Geraldton
- 6.6 GLpa project make up water

The Karara process plant includes the following:

- Primary gyratory crusher with capacity 3,400tph peaking to 4,500tph
- Ore handling
- Stockpiling
- Secondary crushing
- High pressure grinding rolls (HPGR)
- Rougher magnetic separation (RMS)
- Reverse flotation
- Grinding
- Concentrate thickening
- Filtering
- Transportation via rail
- Stockyard
- Vessel loading facilities
- Utilities
- Infrastructure

3. Project Schedule

- Pre-feasibility study Dec 04
- Option review phase Mar 07
- Bankable feasibility study Aug 07
- Front end engineering design Sept 07
- Anticipated detail design Jan 08

