

Client:

Australian Ferroalloys Pty Ltd

Project:

North West Ferroalloys Project

Project Location:

Port Hedland, WA

Project Value:

AUD 192M

Services:

Preparation of Feasibility Study

1. Project Overview

The Project would supply ferroalloys to the international market with an initial focus on ferrochrome, the high carbon ferrochrome plant capacity being 164 kt/a. The plant design was suitable for production of both ferromanganese and silico-manganese alloys. Ferrochrome is primarily consumed in the production of stainless steel, with China being a key market within relatively close proximity to the Project.

The Pilbara region has the advantages of:

- The availability of natural gas for the generation of internationally competitive electrical power
- Commercially available deposits of the primary raw material chromite
- Commercially available deposits of secondary raw materials
- Favourable logistics
- Significant existing infrastructure

The Project envisaged taking advantage of increasing worldwide demand for ferrochrome in stainless steelmaking. Local and imported chromite ore would be processed in an

integrated ferroalloy processing plant consisting of the following principal components:

- Raw materials receipt, handling and storage areas
- Pre-treatment area for the ores
- A ferroalloy production building including the main furnace, casting floor, furnace offgas and dust handling systems, electrical systems and control room
- Liquid metal handling, storage and dispatch
- Slag handling, storage and disposal system
- Water and gas supply lines

2. Scope of Work

ProMet supplied the following services:

- Engaged industry market analyst
- Process plant and infrastructure design
- Tendering of turnkey furnace suppliers
- Overall project execution schedule
- Preparation of CAPEX and OPEX estimates
- Financial analysis

3. Schedule

- FS completed Jan 2002

