

MADAGASCAR ALUMINA FEASIBILITY STUDY ESTIMATE



The Client



Study for bauxite mine and alumina refinery in Madagascar

The Project

Conceive project for bauxite mine and alumina refinery in Southern Eastern Madagascar:

- Develop bauxite haulage concepts - road and rail
- Mine infrastructure
- Alumina refinery sites
- Export port options
- Modular construction technique
- Concept level estimates and schedules

The Challenge

- Very little project specific information was available; most collected from public domain
- Limited time and budget for study
- Account for difficult project development conditions: huge east coast seas, routine cyclones, densely vegetated and rugged terrain, paucity of country infrastructure, sovereign risk
- Produce project concept suitable for shareholder value ranking amongst portfolio of capital development opportunities
- Work within multi-national team located around the world to produce integrated solution



The Outcome

- Conception and quantification of the various options
- Road suitable for high volume bauxite haulage to refinery, and mobilisation of mine heavy equipment including:
 - 7 bridges
 - Refinery modular construction
 - Rail connection refinery to port
 - Power station
 - Local export port option
- Class 5 estimate and schedule for each
- Study report completed on time and within budget



'experience makes a difference'