MADAGASCAR ALUMINA FEASIBLITY STUDY ESTIMATE



The Client

Study for bauxite mine and alumina refinery in Madagascar



The Project

Conceive a 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



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