



Mba Delta Ironsands BFS, Detailed Design, Contracting & Procurement

Client Amex Resources Limited

Project Location

Northwest of Viti Levu, the main island within the Fiji Island Group, covering an area of more than 132 km² at the mouth of the Ba River.

Project Value AU\$80 Million

Scope

Engenium was engaged to conduct a bankable feasibility study for the Mba Delta Ironsands project which included a dredge in the inter-tidal delta, a floating concentrator, barging to the port washing and storage facility and ship loading. Following completion of the bankable feasibility study, Engenium was appointed to undertake the detailed design, contracting and procurement for the port washing and storage facility. The landside facility included a barge unloading reclaiming, filtration plant, product storage shed, conveyor system, ship loader and process water tanks. The project team tendered and evaluated eleven procurement contracts and six construction contracts.

Business Objective

The bankable feasibility study was carried out to confirm a viable and profitable project to justify project funding. The objective of the detailed design and contracting phase was to ensure the final outcome was within the tightly constrained capital budget.

engenium

smart project delivery

Demonstrated Capabilities

- Delivery of a bankable feasibility study, detailed design, contracting and procurement for an iron sands project in Fiji.
- Experience in developing international iron sands projects in the Asia Pacific Region.
- Knowledge of Fiji, its landscapes and coastal areas.
- Ability to work to a tight capital budget and continue delivering value to the client.

Challenges to Overcome

The port washing and storage facility was located on reclaimed land which presented challenging ground conditions. The project's capital budget was also a critical factor requiring tight control.

Smarts

Engenium worked intelligently to ensure the low capex requirements of the project were addressed during the bankable feasibility study, detailed design and tendering phases. Engenium also worked closely with a geotechnical consultant to solve geotechnical issues and develop and test potential solutions. Quantity tracking was undertaken several times throughout the design to enable close monitoring of the estimate progress. Weekly design review meetings were held with the client to ensure the design met their requirements and stayed within the project's capital budget.

Project Outcome

Detailed design has been completed, suppliers selected and the project was advanced such that project finance was obtained by the client for construction.

Want To Know More?

For more information please contact our Perth office on +61 (0)8 6460 0300, email info@engenium.com.au, or visit our website www.engenium.com.au.

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