

Lihir - Radial Stacker

MTK-0000-FCT-QA-0012 Engineering & Design Fact Sheet

CLIENT:

NEWCREST

PROJECT OWNER:

NEWCREST

PROJECT VALUE:

\$30M+

LOCATION:

LIHIR, PAPUA NEW GUINEA

DATE COMPLETED:

2023 – 2024

Key Project Components

- Engineering Management, Project Management and Project Controls
- SMP Engineering and Design
- DEM Modelling
- Electrical Engineering and Design
- Control and Communication Systems
- Shop Detailing
- Procurement and Fabrication Support
- Factory Acceptance Testing
- Construction Engineering Support
- Handover and Ongoing Support

Project Overview

EMtek were engaged by Newcrest Mining to complete the feasibility phase and detailed design and engineering to IFC status of all works for the replacement radial stackers at Lihir.

The 70m long replacement radial stackers were designed specifically to suit the harsh and demanding operating conditions, with an increased capacity to 2,250 tonnes per hour whilst improving reliability and boosting productivity.

EMtek was able to complete the detailed engineering and design of the radial stacker with no disruption to the critical path of the project schedule or budget. The intelligent design and precision engineering allowed for trouble free installation, minimising downtime and maximising efficiency.

Major Works Included

- 70m long Radial Stacker including tie-ins to existing system
- Detailed design including throughput increase
- Electrical and Instrumentation design including drawings, calculations, datasheets and schedules
- E&I included Control Systems and Communications
- Technical Bid Evaluations for all Procured Equipment
- Temporary Works Engineering
- Staged Modelling of Construction Sequence