

ROM 4

MTK-0000-FCT-QA-0015 Engineering & Design Fact Sheet

CLIENT:

ROY HILL

PROJECT OWNER:

ROY HILL

PROJECT VALUE:

\$150M

LOCATION:

PILBARA, WA

DATE COMPLETED:

2023

Key Project Components

- Engineering Management, Project Management and Project Controls
- SMP Engineering and Design
- DEM Modelling
- Civil Engineering and Design
- Electrical Engineering and Design
- Control Systems, including Communication Systems
- Shop Detailing
- Procurement Support of Long Lead Items
- Completions, FAT, SAT and Commissioning
- Handover and Ongoing Support

Project Overview

EMtek, in partnership with NEPEAN, completed the Roy Hill ROM4 project as an EPC.

EMtek's scope included the detailed engineering, design, and shop detailing for the mechanical, structural, concrete, electrical and control systems from concept to completion, including construction support and commissioning onsite.

The Conveyors, 2.3km and 6.8km respective, use an innovative and cost effective 2-pulley design, with an optimised low-level module and footing design.

The conveyors incorporate an active tail end take-up, loading points, belt splicing & reeling stations, run of conveyor, river crossings, main road crossing (400 meters), head end assemblies, process & fire water systems, process control system and communications systems.

The ROM 4 Project is capable of delivering 65MTPa.

Major Works Included

- Engineering Management
- Overland Conveyor engineering and design, including horizontal curves.
- Transfer stations, including fast change-out rotatable chutes.
- Marble Bar Road Crossing, Heavy vehicle, Light vehicle, and infrastructure crossing of the Marble Bar Road to link the eastern pits with the current mine and process plant.
- Power delivery to the area via a new overhead power line, including two new HV, MV and LV Switchrooms
- Associated NPI, Fire systems, Water systems, etc.