

Karara Mining Limited

Standard Scope of Work

CH039 Modification from Moving head chute to Fixed Central chute

04-Nov-2025

KARARA MINING LIMITED

CH039 MODIFICATION FROM MOVING HEAD CHUTE TO FIXED CENTRAL CHUTE

SYNOPSIS

Disclaimer

“This document has been prepared by Karara Mining Limited for exclusive use on the Karara Iron Ore Project (“the Purpose”). Use of this document other than for the Purpose is not permitted.”

CH039 MODIFICATION FROM MOVING HEAD CHUTE TO FIXED CENTRAL CHUTE

REV	DESCRIPTION	ORIG	REVIEW	APPROVED	DATE
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1. INTRODUCTION

In summary, this document covers the scope of work for the:

- Design, supply, fabrication, works testing, corrosion protection, packaging, delivery to site, commissioning and operational support

2. GLOSSARY

Wherever the words “Company, Purchaser or Buyer” are used, it shall mean Karara Mining Limited,

Wherever the words “Contractor, Supplier” are used it shall mean the person so named in the Contract (and its successors and permitted assigns).

Wherever the words “Company’s Representative, Purchaser’s Representative or Buyer’s Representative” are used, it shall mean the person so named in the Contract (and its successors and permitted assigns).

Term	Definition
CDRL	Contractor Data and Document Requirements List.
Company’s Project Requirements	Has the meaning ascribed to it in the Contract
Contract	The agreement between the Company and the Contractor to which this Scope of Work pertains.
Equipment	Means the goods to be supplied or supplied by the Supplier.
KIOP	Karara Iron Ore Project.
Mine site	The location of the KIOP mine at Karara in the Mid-West Region of Western Australia, approximately 215 km East of Geraldton and 320 km North-North East of Perth.
SoW	Scope of Work.
Work	Includes the supply of Equipment.

3. SCOPE OF WORK

3.1 Work Included

3.1.1 General

The successful Contractor shall be required to:

- Supply special installation and commissioning spares.
- Supply spare parts sufficient for two years operation of The Equipment.
- Supply any required special installation and commissioning tools.
- Supply any required special maintenance tools.
- Supply any items, tools or equipment required for handling The Equipment during installation, commissioning or maintenance.
- Fabricate the Equipment in accordance with this document.
- Corrosion protect the Equipment in accordance with Specification 1300-GE-SPC-1002, system B process plant – dry area, with colour of external structures light box grey..
- Package and deliver the Equipment in accordance with this document and the Technical Specification CORP-GE-SPC-1002, OR Package the Equipment for pick up by the Company in accordance with this document and the Technical Specification CORP-GE-SPC-1002
- Commission the Equipment and conduct performance tests .
- Number the Equipment, and all ancillary equipment, as specified in the attached data sheet(s) in accordance with the Plant numbering system as detailed in the Plant Numbering System document no.1000-AD-FRM-1007.
- The Contractor must ensure that Equipment is suitable for the duty.
- The Contractor must ensure that the Equipment is supplied complete and operational, with all the necessary accessories and ancillary equipment.

In addition to the foregoing, the following specific requirements are included as part of the scope of work:

3.1.2 Mechanical

The contractor/supplier shall supply the following:

- 3D Scan of Existing CH039: Conduct a detailed 3D scan of the existing CH039 chute to verify all critical dimensions, ensuring alignment with the design specifications and identifying any potential issues in the current setup
- Redesign CH039: Develop a design for converting the chute from a movable system to a fixed central chute. Ensure the new chute design allows even material distribution into both trousers.
- DEM Modeling and Validation: Perform Discrete Element Method (DEM) modeling to simulate the material handling process and validate the redesigned chute. Share the results with KML for thorough review and obtain approval for design modifications.
- Prepare Chute Drawings and Engineering Reports: Develop detailed General Arrangement (GA) drawings for the redesigned chute system, including structural details, assembly instructions, and material specifications. Include comprehensive engineering calculation reports, such as structural integrity assessments, lifting lug capacity calculations, wear analysis, and fatigue life predictions.
- Chute Fabrication: Fabricate the chute system in accordance with KML's technical specifications and Australian engineering standards, ensuring the structural components comply with Australian design codes. Vendor should provide the workshop fabrication drawings.
- Supply and Installation of Liners: Supply liners made from approved wear-resistant materials.
- Installation and Commissioning Support: Provide on-site technical support for chute installation and commissioning, ensuring correct alignment, structural integrity, and operational efficiency. Perform a pre-commissioning inspection and final system testing to confirm optimal performance.
- As-Built Drawings and Final Documentation: Submit all final as-built drawings and technical documentation to KML, including any design changes made during fabrication or installation. Provide an updated MDR (Manufacturer Data Report) to KML for project closure.
- Supply of wear resistant liner plates.
- Right of use of drawing for manufacture of spare parts.
- Full size templates for non-rectangular liner plates.

3.1.3 Structural

- Include comprehensive engineering calculation report of structural integrity assessment with extra redesign chute weight.

3.1.4 Commissioning

- The Company's Representative will witness all stages of commissioning
- The Contractor shall be responsible for the hand-over of successfully commissioned Equipment.

3.1.5 Drawings and Documentation

- The Contractor shall furnish all drawings and data as required by the CDRL and in accordance with the Contract requirements, including the requirements of 00-0000-AD-SPC-1002.
- The general arrangement drawing requested in the CDRL shall include all main dimensions and shall indicate the total mass, required clearances around the Equipment for maintenance and repair, foundation requirements and holding down and/or connecting bolt details.
- The Company's Representative reserves the right to request any additional information necessary to clarify the installation, operation and maintenance of The Equipment.

3.2 Work Excluded

The above is a general outline of the requirements, but it is the Contractor's responsibility to provide all equipment and services required to obtain the chute ready to operate, except for specific exclusions detailed below.

3.2.1 General

- Site erection and installation of equipment.
- Unloading and storage on site.

3.2.2 Mechanical

- Interconnecting pipe work and valves.
- Dust suppression and extraction systems.
- Pipe work and isolation valves outside of the battery limits.

3.2.3 Structural

Supporting steelwork, access ladders and walkways, platforms and superstructure.

4. HEALTH SAFETY AND ENVIRONMENT MANAGEMENT

All work must comply with the requirements of document CORP-HS-PLN-1001 Occupational Health and Safety Plan and document CORP-EN-PLN-1001 Construction Environmental Management Plan.

The ~~EP~~ Contractor will be required to include in all site based tender documents the above documents and have all successful contractors prepare a Project Specific Health Safety and Environment Management Plan that aligns with project requirements prior to mobilization to site.

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STANDARD SCOPE OF WORK TEMPLATE

Appendix A. Reference Document List

Document Number	Description
CORP-AD-FRM-1002	Document & Revision Numbering System
CORP-GE-PLN-1002	Document & Data Management Plan
CORP-GE-BOD-1001	Basis of Design
CORP-GE-SPC-1001	Equipment Labeling Specification
CORP-GE-SPC-1002	Specification for Packing, Marking and Documentation Specification
CORP-HS-PLN-1001	Occupational Health and Safety Management Plan
CORP-EN-PLN-1020	Operational Environmental Management Plan
	For Contractor Packages (CDRL)
CORP-AD-SPC-1002	Contractor Data Instruction Specification
CORP-QA-SPC-1003	Contractor Quality Requirements Specification
CORP-GE-MAN-1001	CAD Manual