

Karara Mining Limited

Scope of Work TK035 Design, Fabrication and Supply

4-11-2025



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TK035 DESIGN, FABRICATION AND SUPPLY OF SCOPE OF WORK

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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 support.



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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
Authorities	Any statutory, public, municipal, governmental or administrative department, commission, authority, agency or entity with jurisdiction in connection with the WUC.
BoD	Basis of Design.
CCIWA	Chamber of Commerce and Industry Western Australia.
CDRL	Contractor Data and Document Requirements List.
Company's Project Requirements	Has the meaning ascribed to it in the Contract
Company's Representative's nominee	Means an individual appointed in writing by the Company's Representative under the Contract.
Contract	The agreement between the Company and the Contractor to which this Scope of Work pertains.
DSO	Direct Shipping Ore.
Execution Date	Means the date on which the Formal Instrument of Agreement is signed by the Company.
Equipment	Means the goods to be supplied or supplied by the Supplier.
FAT	Factory Acceptance Testing.
FEED	Front End Engineering Design.
GPA	Geraldton Port Authority.
HAZOP	Hazard and Operability Review.
HME	Heavy Mining Equipment.
HSEC	Health, Safety, Environment and Community.
HV	High Voltage.
IFC	Issued For Construction.
KIOP	Karara Iron Ore Project.



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Term	Definition
kW	Kilowatt.
LV	Low Voltage.
MCC	Motor Control Centre
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.
MIS	Management Information Systems.
MTOs	Material Take Offs.
MV	Medium Voltage
P&IDs	Piping and Instrumentation Diagrams.
PCS	Process Control System
PEP	Project Execution Plan.
PFDs	Process Flow Diagrams.
PMC	Project Management Contracting
PLC	Programmable Logic Controller
Port Site	Geraldton Port
SCADA	System Control and Data Acquisition.
SDRL	Supplier Data and Document Requirements List.
SoW	Scope of Work.
SWIN	South West Interconnected Networks.
Supplementary Requirements	Specifications, standards, regulations and codes of practice set out at Section 4 of this SoW.
Tenderer	Means a person who lodges a tender for the Work.
Work	Includes the supply of Equipment.
WUC	Means the whole of the Work to be carried out under the contract.



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SCOPE OF WORK

3.1 Work Included

3.1.1 General

The successful Contractor shall be required to:

- Design or provide the Equipment in accordance with this document and the Technical Specification 1300-ME-BOD-1002 Engineering Design Criteria (Mechanical).
- Supply the Equipment in accordance with this document and the Technical Specification 1300-ME-SPC-1049 Steel Tanks Specification.
- 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 and the Technical Specification 1300-ST-SPC-1007 Technical Specification for Fabrication of Platework-Chinese Supply and 1300-ST-SPC-1008 Technical Specification for Structural Steelwork Fabrication-Chinese Supply
- Corrosion protect the Equipment in accordance with Specification CORP-GE-SPC-1004 Specification for Surface Treatment of Structural Steelwork and Pipework, system P4, Colour Light Box Grey.
- Package and deliver the Equipment in accordance with this document and the Technical Specification CORP-GE-SPC-1002 Specification for packing, marking and documentation requirements.
- Supervise the erection of the Equipment on site.
- Supply operation and maintenance manuals and other documentation as specified in Specification CORP-AD-SPC-1001 Supplier Data Instruction Specification.
- The Contractor must ensure that Equipment is suitable for the duty and fit for purpose as specified in the attached data sheet(s).
- The Contractor must ensure that the Equipment is supplied complete and operational, with all the necessary accessories and ancillary equipment except as specifically excluded in Section 3.2.



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

3.1.2 Free Issue and Preferred Equipment

N/A

3.1.3 Mechanical

The contractor/supplier shall supply the following:

- The existing tank is only connected to one pump. The redesigned tank must accommodate two pumps to increase the system contingency.
- The internal lining of the tank is often damaged, and the new design allows the liner to be replaced easily.
- The new design includes a drainage pipeline to facilitate material removal during maintenance.
- Provide full engineering design for TK35, including 3D modelling and design documentation.
- Finite element stress and deflection analysis of the Equipment under all loading conditions.
- Supply of wear resistant liner plates.
- Prepare and submit detailed fabrication and assembly drawings.
- Conduct on-site 3D scanning of the existing installation to ensure dimensional accuracy.
- Lifting lug calculation report
- Manufacture and supply the complete TK35 tank according to approved design and specifications.
- Provide all necessary accessories, fittings, and instrumentation required for full operation.
- Provide technical assistance during installation, including supervision and coordination with our site team.
- Match marking of the Equipment. Such match marking numbering will also appear on all detail drawings.
- Right of use of drawing for manufacture of spare parts.
- Full size templates for non-rectangular liner plates.
- 100% MPI on the lifting lug weld.



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3.1.4 Electrical

N/A

3.1.5 Instrumentation and Controls System

N/A

3.1.6 Civils

• Contractor shall review and redesign all the existing civil structures. Report and drawings must be sent to KML to seek the approval.

3.1.7 Structural

• Perform and provide structural calculations, including all relevant load and stress analyses.

3.1.8 Utilities

N/A

3.1.9 Erection

- The Equipment will be erected and installed by others. The Equipment Contractor shall provide suitably qualified erection supervision staff to oversee installation, and approve acceptability of installation.
- The Contractor shall provide detailed erection manuals to facilitate erection by others. Manuals shall include erection drawings, sequencing, handling, lifting and slinging precautions, torque, tension and all other erection data.
- Shop assembled modules, which were disassembled for shipping, shall be match marked and similar match marks shown on the erection documentation.

3.1.10 Commissioning

- The Equipment Contractor shall submit detailed commissioning procedures for approval by the Company's Representative.
- The Company's Representative will witness all stages of commissioning and reject results that do not comply with the approved procedures in accordance with the Contract.
- The Contractor shall be responsible for the hand-over of successfully commissioned Equipment.



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3.1.11 Drawings and Documentation

- The Contractor shall furnish all drawings and data as required by the SDRL and in accordance
 with the Contract requirements, including the requirements of CORP-AD-SPC-1001 Supplier Data
 Instruction Specification, CORP-QA-SPC-1001 Supplier Quality Requirements Specification,
 CORP-QA-SPC-1002 Requirements for Compilation of Manufacturers Data Report (MDR) by
 contractors.
- The general arrangement drawing requested in the SDRL 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.
- Full 3D design files and drawings (in native format and PDF).
- Calculation reports for structure and tank design.
- · Lifting lug calculation report.
- WPS, PQR and welder qualification certificate.
- Material certificates and quality documentation.
- Installation and commissioning procedures.
- IOM and MDR

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 a mill 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.

3.2.3 Electrical

N/A



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3.2.4	Instrume	entation	and	Controls	:
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N/A

3.2.5 Civils

- Foundations.
- Supply of cast in items.
- Grouting.

3.2.6 Structural

N/A

3.2.7 Utilities

N/A

3.3 Battery Limits

3.3.1 Process

N/A

3.3.2 Mechanical

N/A

3.3.3 Electrical

N/A

3.3.4 Instrumentation and Control Systems

N/A

3.3.5 Civils

Mounting bases with holes for locating on foundation bolts (by others).



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3.3.6 Structural

N/A

3.3.7 Utilities

N/A



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.



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-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
CORP-AD-SPC-1001	Supplier Instruction Specification
CORP-QA-SPC-1001	Supplier Quality Requirements Specification
CORP-QA-SPC-1002	Requirements for Compilation of Manufacturers Data Report (MDR) by Contractors
1300-ME-BOD-1002	Engineering Design Criteria (Mechanical)
1300-ME-SPC-1049	Steel Tank Specification
1300-ST-SPC-1007	Technical Specification for Fabrication of Platework-Chinese Supply
1300-ST-SPC-1008	Technical Specification for Structural Steelwork Fabrication
CORP-GE-SPC-1004	Specification for Surface Treatment of Structural Steelwork and Pipework
CORP-GE-SPC-1002	Specification for packing, marking and document requirement



Appendix B. - Scope of Supply



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	Sc	ope of Supply	ANSTEEL KARARA MINING
Purchaser	Karara Mining Limited	Purchaser	
Supplier		Order No: Rev:	

Item No.	Commodity/Tag	Size 1	Size 2	Description	Prev Qty	Rev Qty	Total Qty	UOM	Account Code
				Insert more rows as required					