



# Sierra Gorda SCM

Webinar, "Región de Antofagasta, Chile: Oportunidades para empresas extranjeras en el mercado minero y energético"

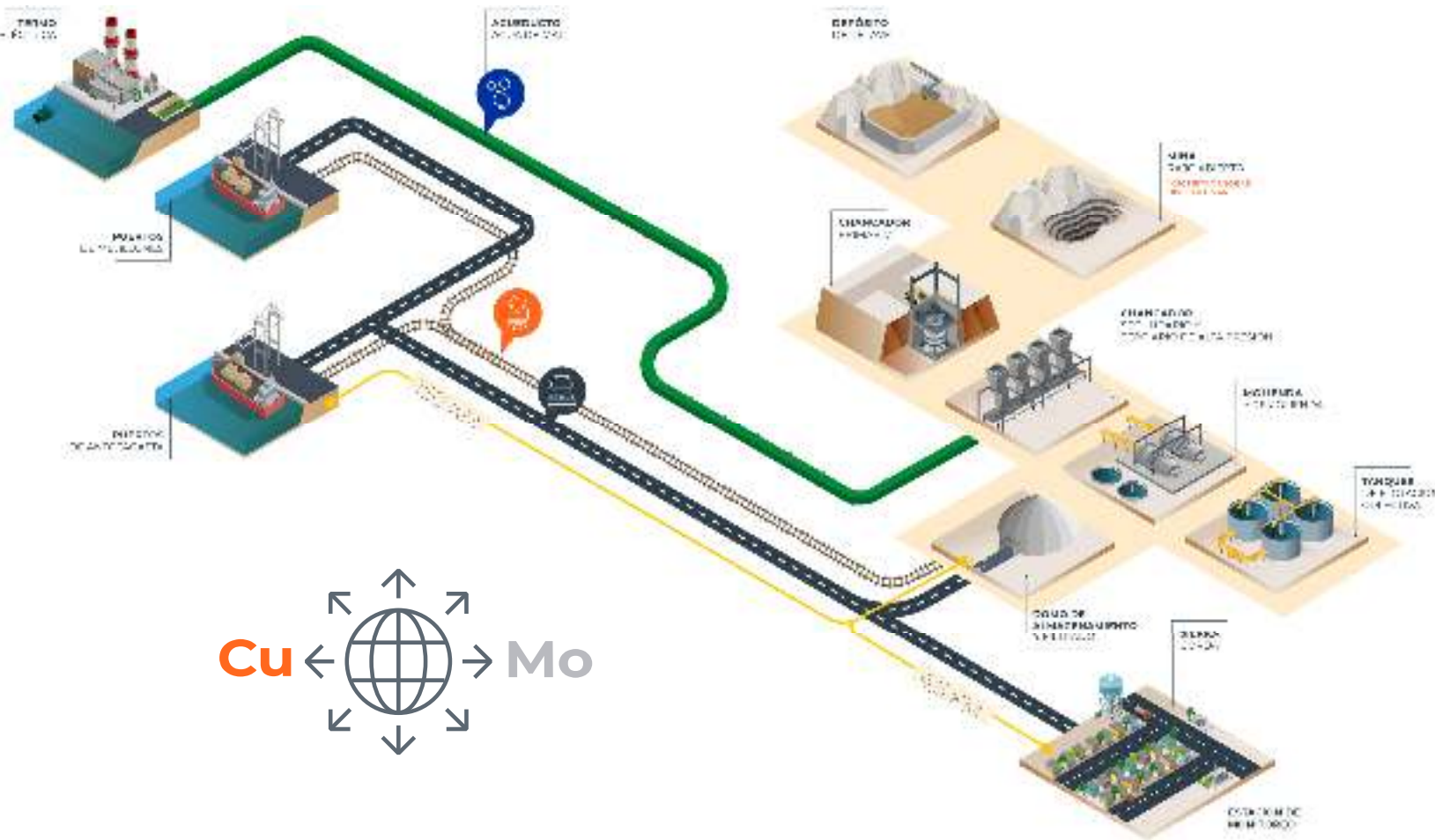
# SIERRA GORDA SCM AT A GLANCE



We started our productive activity in 2014.  
The plant has an approved capacity of 230,000 metric tons per day (TPD).



# OUR OPERATION

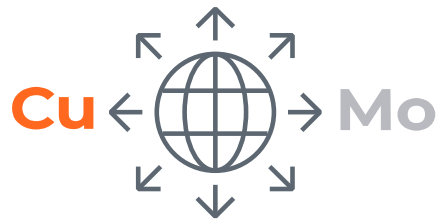


Our facilities in the **mine** and processing plant are located at **1,626 meters altitude**.

The mine is a conventional **open pit operation**.

The main facilities of the **sulfide plant** include: a primary crushing, conveyor belts, ore storage dome, secondary crushing, high-pressure grinding rolls (HPGR), grinding, collective flotation, and re-grind.

The **copper and molybdenum concentrate** is transported by land to the unloading and shipping facilities in authorized ports in the Antofagasta Region.



# VALUES THAT INSPIRE US



To be the safest and most efficient low-grade “green copper” mining company in the world.



Supply “green copper” to the world, generating value for humanity, the community and shareholders.



In our **Vision**, we want to establish the aspiration to be the most efficient copper mine, in the category of sustainable and low-grade mining.

In our **Mission**, we want to motivate our people to produce more copper with a low carbon and water footprint required by humanity for the energy transition, as well as remind them to act for the benefit of the local community and shareholders.



**Cultura Única**



# STRATEGIC FOCUS



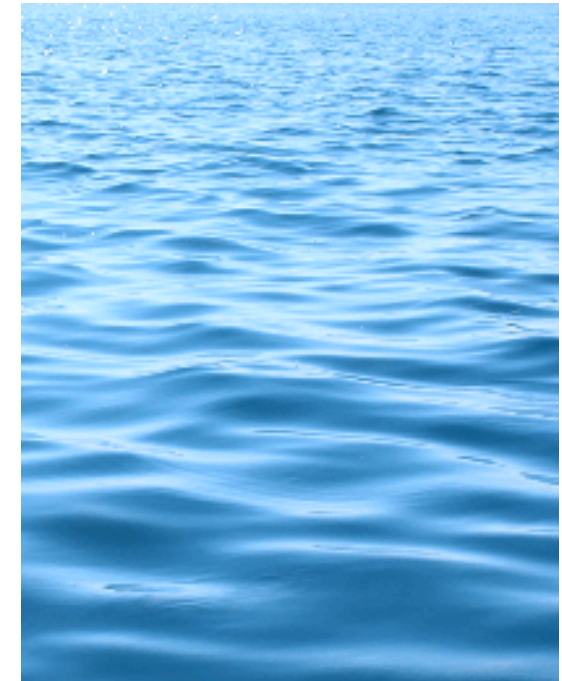
**UNIQUE  
CULTURE**

**EXCELLENCE  
AND GROWTH**

**GREEN  
COPPER**

## 100% SEAWATER

- From the beginning of our operation we have used 100% of sea water throughout the production process. We do not use continental waters.
- We propel seawater from a Mejillones thermoelectric plant, preventing hot water from being returned to the sea.
- Through an aqueduct of 140 kilometers we transport about 100 thousand cubic meters per day. The approximate consumption is 0.6 cubic meters of water per ton of processed mineral.
- We do not generate waste brine, nor the usual waste from desalination plants.
- ***We do not compete with the community for the scarce freshwater resources in the desert.***



Cobre Verde

## 100% SEAWATER

## ADDITIONAL BENEFITS

- The use of seawater generates a saline crust that naturally coats the tailings reservoir and minimizes contamination.
- At the end of the project, no additional coatings will be required to control potential emissions of unconsolidated material on the tailings deposit surface.
- ***This is our great contribution to the sustainability of the industry. Sierra Gorda SCM is the first and only mining company in Chile and the world to implement this type of technology.***



Cobre Verde

## 100% RENEWABLE ENERGIES

- 100% clean energy in our operations since the 1st of January 2023.
- The approximate annual consumption of the operation is 1,317 GWh, which can be compared to the total energy consumption of Antofagasta.
- *The use of renewable energy will displace more than 1 million tons of CO2 per year.*



Cobre Verde



# OUR INNOVATIONS



## **High Pressure Grinding Roller**

*We are the only floor plan concentrator in the country that use High-Pressure Grinding Roller (HPGR) mills, a grinding mill that minimizes the use of energy, being a state-of-the-art technology in Chile.*

HPGR mills consume between 15% and 20% less electricity per ton of ore processed, compared to other traditional methods (SAG Mills).



## **Energy saving thanks to seawater**

A desalination plant has a specific consumption between 3 to 4 kWh/m<sup>3</sup>, so the annual energy consumption that we avoid by not desalting water in our operation averages 140,000 MWh.

Without mentioning the cost of building a desalination plant.



**Excelencia y crecimiento**

# OUR INNOVATIONS



## SierraBot

*A robotic operator that performs a "Cycle Count" with the exact location of each material.*  
Unique tool in Latin America in mining, which reduces working time from 12 to 1 hour. The system improves operational continuity, inventory control and movements in real-time, in addition to freeing up hours for operators and assigning them to other processes.



## Mining 4.0

*Since 2023 we will have three PitViper-351 drills that operate autonomously.*  
An automation project called "Aawatiri" (pastor in Aymara language) that allows to improve security performance and obtain increased productivity from our processes.



**Excelencia y crecimiento**

The logo for Sierra Gorda SCM, featuring a stylized white wave graphic above the text "Sierra Gorda" in a bold sans-serif font, with "SCM" in a smaller font to the right.

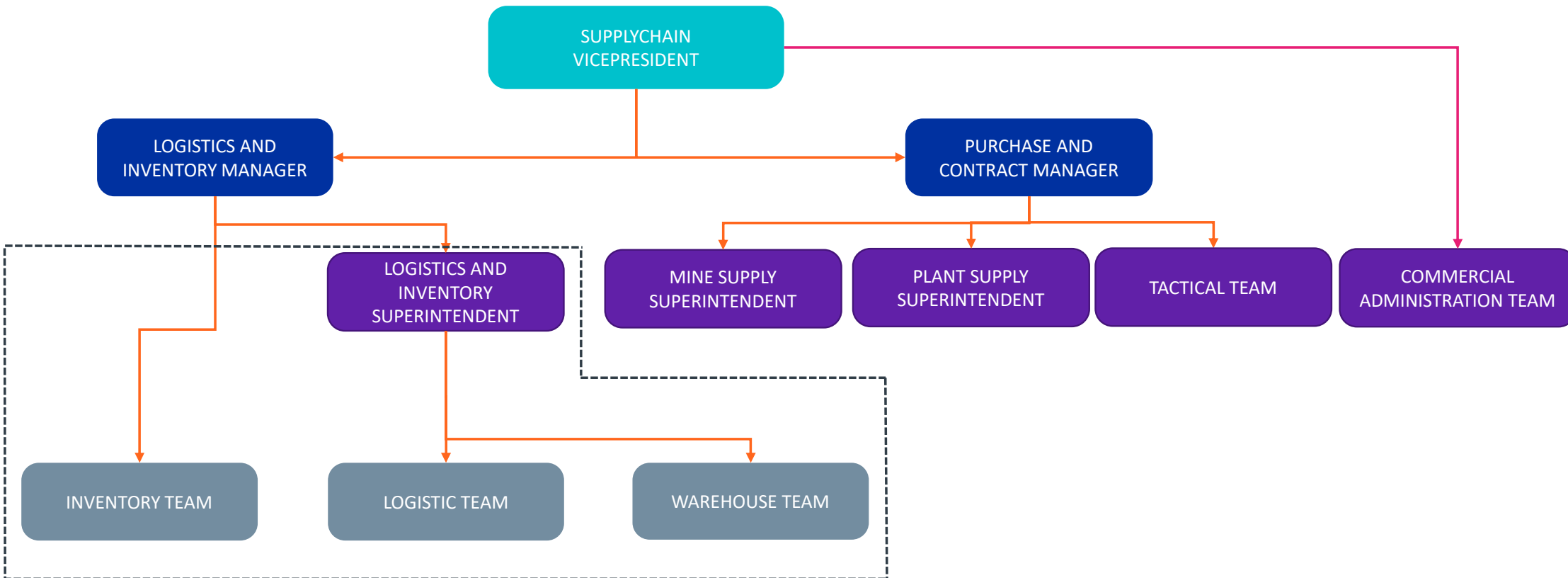
Sierra Gorda<sub>SCM</sub>

# Supplychain Vice-presidency, Structure, Milestones

Sierra Gorda SCM

# Organigram

## Supplychain Vice-Presidency



# Supplychain Vice-Presidency

## Sierra Gorda SCM



### *Vision*

Vision: lead with operational excellence supply and logistics of goods and services, promoting a responsible and sustainable production of green copper.



### *Mission*

To be an efficient, innovative and benchmark supply chain in the mining industry, contributing to the generation of green copper.

### Our Focus:



Financial



Productivity



Continuous Improvement



Safety



# Milestones of our Supplychain Vice-Presidency

## Logistic and Inventory Management



### *Sale of Scrap Material*

In 2023 we had a challenge to sell MUSD 1 of alienable materials as a company by management of the Logistics and Inventory Management with all areas of SGSCM through the service provided by the company Recysteel, this goal we have exceeded considerably in a constant and collaborative work with our users reaching to date with the sum of MUSD 1.101 with focus on increasing this value until the end of this year.



### *Use of truck Sider type and increase use of m3*

This service that has evolved since 2018 by working together with a logistics provider, through tests and implementation of learning to reach a historical record of adherence of 100% on August 2023 with an average until September 2023 of 89% accumulated for this current year. In addition, this efficiency impact also the optimization of cargo transfer per trip, therefore, sustainability due to less CO2 emissions and associated costs.



### *Obsolescence Sales*

In 2019, the sale of obsolete spare parts and equipment decommissioned by operation was implemented with the aim of recovering the highest % of the book value with which SG acquired the goods. This type of sale is part of the operational routine of the Inventory area which has worked on its continuous improvement such as the creation of the sale transaction in JDE for control and monitoring.

In 2023 we accumulated a total sales of MUSD 0.5 with an average 44% recovery of the book value and historical total 1.8 MUSD



# Milestones of our Supplychain Vice-Presidency

## **Purchase and Contract Management**



### ***RPA Service Purchase Order***

During 2023, an RPA was implemented for the generation of Direct Assignment Service Purchase Orders for less than 50 KUSD as value contract. With this implementation, we seek to provide a better service to our customers regarding the generation happens as a maximum of 48 hours after the approval of the requirement. In addition, the BOTSIGN, as it was named internally, will deliver free HH, allowing them to spend more time on other activities of the Purchasing and Contracts management.



### ***Launch Tire Supply Tender***

During October 2023, the Tire supply tender will be activated to carry out a identification of the total volume of tires required by the operation in order to award supply contracts on consignment for 5 years from 2026. There will be a bridge award contract just for supply of tire R63 for 2025 in order to equalize the term of the main supply contract. The award decision must be in June 2024.



### ***Launch Conveyor Belt Supply Tender***

The process will start on November 2023 to award a new conveyor belt supplier to start the supply in 2026 for a period of 5 years, it is expected to award this process in May 2024.



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Sierra Gorda<sub>SCM</sub>

# Opportunities and challenges

Supplychain Vice-Presidency

Sierra Gorda SCM

# ROAD MAP 2024-2026

## Bidding Process



**x** Activation date

|          | 2024 |     |     |     |     |     |     |     |     |     |     |     | 2025 |     |     |     |     |     |     |     |     |     |     |     | 2026 |      |      |      |      |      |      |      |       |      |      |      |  |
|----------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|-------|------|------|------|--|
|          | Jan  | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan  | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | ene. | feb. | mar. | abr. | may. | jun. | jul. | ago. | sept. | oct. | nov. | dic. |  |
| SI Mine  | 1    |     | 2   |     | 3   |     | 4   | 5   |     |     |     |     |      |     |     | 6   | 7   | 9   |     |     | 11  |     |     |     |      |      |      | 13   |      |      |      |      | 14    |      |      |      |  |
| SI Plant | 15   |     | 17  | 19  |     | 22  | 23  | 24  | 27  | 28  |     |     | 29   | 30  | 31  |     |     |     |     | 33  | 34  |     | 35  |     |      | 36   | 37   |      |      | 38   |      |      | 39    |      |      | 40   |  |
| Tactic   |      |     |     | 41  |     |     |     | 42  |     |     |     |     |      |     |     | 43  | 44  |     |     |     | 45  | 46  |     |     |      |      |      | 47   |      |      |      |      | 48    |      |      |      |  |

- |  |  |  |
|--|--|--|
| <ul style="list-style-type: none"> <li>1) Suministro Neumáticos CAEX, equipos de apoyo, otros</li> <li>2) Suministro consignación repuestos flota Equipos de apoyo Komatsu</li> <li>3) Repuestos Equipos Mina Komatsu (FPA)</li> <li>4) Servicio de Mantenimiento y Reparación Pala P&amp;H 4100</li> <li>5) Servicio Integral de mantenimiento y Reparación de Neumático, aros y Cadenas</li> <li>6) Servicio y suministro Lubricación Equipos Mina y Planta</li> <li>7) Servicio de mantenimiento y climatización de Eq. Minero y Aire acondicionado</li> <li>8) Servicio de Operación Logística de Materiales</li> <li>9) Repuestos Equipos Mina Epiroc</li> <li>10) Servicio de mantenimiento y reparación palas CAT</li> <li>11) Contrato de Reparaciones de baldes y tolvas 930E</li> <li>12) Repuestos equipos Mina Finning</li> <li>13) Servicio de reparación y mantención de equipos mineros CAEX</li> <li>14) Servicio arriendo y operación de grúas spot</li> <li>15) Suministro Supresor de Polvo</li> <li>16) Consignación de correas planta</li> <li>17) Servicio de reparación de Excitatrices</li> <li>18) Servicio de reparación de Harneros</li> <li>19) Servicio de reparación de Bombas de proceso</li> </ul> | <ul style="list-style-type: none"> <li>20) Servicio de reparación de Bombas de pulpa</li> <li>21) Servicio de reparación de Postes</li> <li>22) Servicio de reparación de Reductores moventas</li> <li>23) Servicio de reparación de Reductores 300 y 271</li> <li>24) Servicio de reparación de Rodillos filtro larox</li> <li>25) Servicio de reparación de Centrales hidráulicas y cilindros</li> <li>26) Servicio de reparación de Cilindros HPGR</li> <li>27) Servicio de reparación de Poleas</li> <li>28) Servicio de reparación de Cabezas</li> <li>29) Servicio de reparación de Contra ejes</li> <li>30) Servicio de reparación de Bombas verticales y horizontales Ruhrpumpen</li> <li>31) Suministros Bombas Warman</li> <li>32) Servicio de reparación de Reductores planetarios</li> <li>33) Suministro Soda Caustica y Metabisulfito</li> <li>34) Suministro Floculante para Relaves</li> <li>35) Servicio de Mantenimiento y Reparación Correas Planta (Permanente)</li> <li>36) Insumos Correas Transportadoras</li> <li>37) Servicio de Mantenimiento Planta Spot (9)</li> <li>38) Servicio de Mantenimiento y Reparación Correas Planta (Spot)</li> </ul> | <ul style="list-style-type: none"> <li>39) Suministro de Sulfhidrato de Sodio NaSH al 42%</li> <li>40) Servicio Integral de Mantenimiento Puentes Grúas, Grúas Pórticos y Tecles Eléctricos y Manuales</li> <li>41) Servicio Ingeniería TSF</li> <li>42) Arriendo y Operación de equipos Spot</li> <li>43) Plataforma de licitaciones y licencias asociadas</li> <li>44) Contratos Marco de Obras civiles para distintas áreas</li> <li>45) Servicio integral de asesoría y gestión de riesgos operaciones e higiene y salud</li> <li>46) Servicio de Taxi en Antofagasta, calama y mejillones</li> <li>47) Suministro de Instrumentación</li> <li>48) Servicio de lavado de alta tensión</li> </ul> |
|--|--|--|

# Platforms

Sierra Gorda SCM





# Our Platforms

## Sierra Gorda SCM



**SAP Ariba**, is the Integrated Business Management System of Sierra Gorda SCM and covers the following aspects:



**SAP Ariba Sourcing**  
**Contract Management**  
**Ariba Network**

- Collaboratively management of the process of requisitioning goods and services
- Invite Registered Suppliers (SICEP, Ariba Network)
- Quotation
- Payment management
- Electronic Invoicing

- ✓ Currently the **HSE** evaluations of our processes are carried out through the use of the **SICEP** prequalifier.
- ✓ Purchases of cataloged materials are made with **Unilink**.

# Our Platforms

## Sierra Gorda SCM



### “Listado de Oportunidades” SICEP

[Cambiar contraseña](#) [Salir del sistema](#)  
 Usuario: **Claudio Rojas**  
 Mantente Ingresado

[USUARIO](#) [HERRAMIENTAS](#)

### LISTADO DE OPORTUNIDADES

PUBLICACIONES

[Filtros](#)

Mostrando registros del 1 al 10 de un total de 124 registros

| ID  | ID Interno   | Título  | Categoría                              | Publicación | Cierre     | Origen (pro)                | Tipo                   | Estado     | Interesados |
|-----|--------------|---|--|-------------|------------|-----------------------------|------------------------|------------|-------------|
| 605 | no aplica    | Suministro de Alambres para conexión de conductores | Conexión Integrada: línea y accesorios | 26-07-2023  | 06-10-2023 | Financiero Díaz Sanfuentes  | Licitación             | Publicada  | 18          |
| 651 | WS4209334319 | PRIMA HIDRÁULICA PARA CAÑON DE OBRAS                | Equipos Mineros                        | 19-08-2023  | 20-09-2023 | Ignacio Nieto Inguera       | Oportunidad de negocio | Finalizada | 4           |
| 600 |              | Suministro de mantos y conexos para conductores     | Línea de transmisión y/o secundario    | 14-07-2023  | 24-09-2023 | Javier Andrés Maga Wladimir | Licitación             | Finalizada | 13          |
| 609 | -            | Suministro de Cal. xline                            | Cal. xline                             | 14-08-2023  | 20-09-2023 | Javier Andrés Maga Wladimir | Licitación             | Finalizada | 7           |

- [Crear publicación](#)
- [Detalles publicación](#)
- [Exportar publicaciones](#)
- [Exportar publicaciones con interesados](#)

# Our Platforms

## Sierra Gorda SCM



[www.sgscm.cl](http://www.sgscm.cl) > Proveedores

Nosotros

Nuestra Operación

Trabaja con Nosotros

**Proveedores**

Contacto

### Portal Proveedores

Bienvenidos al Portal de Proveedores de Sierra Gorda SCM, donde podrá acceder a toda la información relacionada con nuestros procesos de registro, gestión y pago de bienes y servicios.

#### Información General Proveedores

Este documento contiene información sobre los procedimientos en los cuales administramos nuestros procesos de abastecimiento, que le permitirá estar disponible para ser proveedor de Sierra Gorda SCM.

#### Registro de Proveedores para procesos de Licitación

Le invitamos a ingresar y actualizar la información de su empresa en la base de datos de Sierra Gorda Sociedad Contractual Minera, indicando la categoría de sus bienes y servicios que ofrece su empresa.

#### Portal Facturación Proveedores

Habilitamos este portal para que nuestros proveedores consulten de manera autónoma el estado de facturas emitidas a Sierra Gorda SCM. También podrán

Aimed at those who want to be part of the companies that work with our company



Background information is provided for help companies to register on the SGSCM supplier platform

Allows autonomous consultation of the status of invoices issued to SGSCM

Para ingresar al **formulario de registro de proveedores**: <https://sistemas.sgscm.cl/SistemaRegistroProveedores/Presentacion/frmIngresoProveedorExterno.aspx>

# Our Platforms

## Sierra Gorda SCM



**Datos del Proveedor** 3.1

1. Rut empresa
2. Nombre Empresa
3. Web Empresa

**Datos de Contacto** 3.2

1. Rut Contacto
2. Nombre Contacto
3. Cargo Contacto
4. Categoría Principal
5. Sub Categoría
6. Teléfono de contacto
7. Email
8. Comentarios
9. Adjuntar Documentos

**Datos del Plataformas** 3.3

1. Sicep
2. Ariba Network
3. Código Ariba Network

**Captcha** 3.4

1. Marcar Captcha
2. Guardar
3. Código Ariba Network

Para ingresar al **formulario de registro de proveedores**: <https://sistemas.sgscm.cl/SistemaRegistroProveedores/Presentacion/frmlIngresoProveedorExterno.aspx>



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