

Mineral Processing Plants



"When You're Finished Mining....We're Just Beginning...."

## INFORMATION MEMORANDUM:

### NEW 50HZ, 2.6 MW SAG & 4.6MW BALL MILL

*Under Instructions from CBH Resources Limited*

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The industry standard for professional project marketing



## CONTENTS:

1.0	INTRODUCTION .....	3
2.0	GENERAL INFORMATION.....	3
3.0	SCOPE OF EQUIPMENT.....	4
4.0	INSPECTION.....	5
5.0	OFFERS .....	5
6.0	DISMANTLING, PACKING AND SHIPPING .....	6
7.0	ATTACHMENT – SCOPE OF EQUIPMENT.....	7



Information Memorandum

## 1.0 INTRODUCTION

This Information Memorandum has been prepared by Minasco Australia Pty Ltd (Minasco) in its capacity as agents for the vendors, CBH Resources Limited (CBH).

The Memorandum is provided as a guide for prospective purchasers providing background information and technical details relating to the new 2.6MW SAG and 4.6MW Ball Mill assets offered for sale and currently stored in Perth, Australia and other manufacturers premises, at various locations worldwide, in readiness for delivery. Its content and descriptions **do not form any part of subsequent documentation that would arise from purchase of the plant and other assets.**

Whilst every care has been taken in preparation of the Memorandum, it is the responsibility of intending purchasers to ensure to their own satisfaction, by on site inspection and verification, the accuracy of the information provided. No responsibility or liability is accepted by the vendors, Minasco or their staff for the accuracy of the information provided.

Inspecting parties will be offered every assistance at inspection and access to all relevant documentation that may assist in their evaluation of the equipment. We would be pleased to provide answers to any queries that may arise.

## 2.0 GENERAL INFORMATION

CBH is offering the following new SAG and Ball Mills to the market as a package or individual mills for removal, with immediate delivery available on an “as is where is” basis (except where noted below):

- **NEW Outotec SAG Mill** - 6.7m dia x 3.2m EGL (22' x 10'6") complete with 2600KW, 50Hz, motor.
- **NEW Outotec Overflow Ball Mill** - 5.5m dia x 8.4m EGL (18' x 27'6") complete with 4600KW, 50Hz, motor.

This equipment formed part of the process plant equipment procured by CBH for installation at their Sulphur Springs Project in Australia. Due to project changes these SAG and Ball Mills have now been deemed surplus to requirements and are no longer required for the project. The mills are unused and in the final stages of manufacture or packed and crated in storage as follows:

Component Description:	Delivery Location:	Anticipated Delivery Date:
SAG Mill Heads	Germany, ex. suppliers works or local storage location	End July 2009



Information Memorandum

Ball Mill Heads	Brisbane or Melbourne, Australia, ex. suppliers works or local storage location	End July 2009
SAG and Ball Mill Shells	South Africa, ex. suppliers works or local storage location	End August 2009
All remaining SAG and Ball Mill Components	Perth, Australia, ex. CBH Storage facility	Available for delivery now

Potential purchasers will have an adequate due diligence period to assess the mills suitability for their project under consideration. Full OEM technical and engineering documentation/drawings, OEM manuals and packing lists form part of the package, providing considerable time cost benefits.

Minasco are currently assessing pre-emptive options for shipping and relocation of equipment, these works will be required to be completed by the purchaser. Details for provision of logistical support and services, in relocation of equipment from site and/or international shipping, are available on request through Minasco.

Copies of full equipment specifications for the SAG and Ball Mills are available on request from Minasco. It should also be noted that Outotec, the major equipment manufacturer, is able to service the buyer of the equipment in respect to any current warranties, technical and commissioning assistance and supply of spare parts, as required.

The scope of the equipment available provides potential buyers with major grinding circuit components in new condition, for development of a process circuit or plant on a timely, cost effective basis. The location of the equipment in secure storage areas close to port facilities will allow for ease of re-transportation and provide considerable time cost benefits.

### 3.0 SCOPE OF EQUIPMENT

A detailed scope of equipment and supply, from the manufacturer, is provided as an attachment to this document.

The scope of intellectual property available will assist buyers with time cost saving benefits in project installation. All **available** OEM engineering documentation and drawings, operation and maintenance manuals, maintenance procedures and other intellectual property (relevant to the design, shipping, installation, maintenance and operation of the equipment) are available to be included as part of the sale. Potential buyers should note that all intellectual property, provided as part of the sale, will be subject to indemnification of CBH under the Terms and Conditions of Agreement.

General arrangement drawings and technical documentation (including plan, foundation layout, supplier's specification, etc) are provided as an attachment to this document. Please note the



Information Memorandum

OEM manuals are currently being finalised by Outotec as part of their supply to CBH, this information should be available to enquiring parties towards the end of August 2009 when delivery is expected to be finalised.

#### 4.0 INSPECTION

Inspection is **strictly by appointment only through Minasco** due to ongoing operations and restricted entry to the storage areas in Germany, South Africa and Australia. A mutually convenient time for inspection will be arranged to ensure appropriate personnel are available to facilitate your inspection requirements. Any queries arising from equipment inspection should be directed to Minasco.

#### 5.0 OFFERS

Offers are invited for purchase of the SAG and Ball Mills as a **complete package** or **single parcel lots** and should be forwarded to Minasco for consideration.

The assets are offered in condition "as is where is" for removal from site and a complete logistical package can be provided for an international destination. All costs associated with shipping and relocation are to the purchaser's expense and shall be carried out in accordance with the terms and conditions of Agreement, statutory legislation and regulations and the policies and procedures of CBH.

This procedure is not a tender and parties making offers to purchase the assets will have the opportunity to negotiate their offer to a level acceptable to the vendors.

Parties who have inspected the equipment and intend to submit an offer should consider the following points when structuring and presenting their offer:

1. The offer should provide a lump sum price, **in Australian Dollars exclusive of any taxes**, to purchase the assets specified in this documentation.
2. The offer submitted should be done so on a "best and final price" basis. We advise that a party submitting an offer at a level acceptable to both Minasco and CBH will be given first right to negotiate a position to purchase the assets.
3. The offer should detail any discrepancies observed in relation to the scope of equipment on offer, any terms and conditions the purchase may be subject to and an anticipated timeframe for removal of the equipment from its current location. In assessing offers consideration will be given to the terms of offer in addition to the offered price.
4. The payment terms relating to sale would be based on the following:
  - Payment of a non-refundable 20% deposit upon acceptance of offer and signing of a Purchase Agreement.
  - Payment of the remaining 80% prior to commencing any works associated with removal of equipment from the storage sites or 1 month from signing of a Purchase Agreement, whichever is earlier.



Information Memorandum

5. Upon receipt of payment in full of the purchase price by CBH, ownership and property in the assets would pass from CBH to the purchaser. At such time all risk and liability in the assets, including any ongoing cost of storage, would transfer to the purchaser.
6. All offers should be made in writing (on company letterhead and signed by the appropriate authority) and submitted by fax, email or courier to:

**CBH Resources Limited**  
**RE: New 50Hz, 2.6MW SAG & 4.6MW Ball Mill**  
C/- Minasco Australia Pty Ltd  
PO Box 20 ( 69 Evans St )  
Sunbury, 3429  
Victoria, Australia

AND an original forwarded as above.

**Minasco Australia Contacts:**

Sales and Marketing: **Geoff Fields**                      Mobile: +61-419-377 939  
[Geoff.Fields@minasco.com.au](mailto:Geoff.Fields@minasco.com.au)

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Information relating to this project is also available on our website at: [www.Minasco.com.au](http://www.Minasco.com.au).

## 6.0 DISMANTLING, PACKING AND SHIPPING

The location of the equipment near international port facilities will allow for ease of shipment with regular services to international ports as well as the opportunity of part charters to other destinations worldwide. Minasco can assist with all aspects of relocation, dependant on buyer's individual requirements.

Ongoing arrangements for storage of the equipment at its current location is available to the purchaser, however, any ongoing storage costs would be to the purchasers account. Detailed shipping packing lists, detailing container contents and break bulk items, are available on request from Minasco. In addition CBH have expressed their commitment to provide the buyer assistance with export documentation and removal works to ensure smooth delivery of equipment from the site.



## 7.0 ATTACHMENT – SCOPE OF EQUIPMENT

The scope of equipment and supply comprises the following:

Scope of Equipment and Supply:	Notes:
<b>SAG Mill</b>	
<p><b><u>(1) Outotec 6.7m DIA x 3.2m EGL (22' x 10.5') Grate Discharge SAG Mill with 2,600kW, 50Hz Drive Motor</u></b></p> <p>Including:</p> <ul style="list-style-type: none"> <li>• New/unused condition, packed and crated.</li> <li>• Single piece fabricated mill shell with rubber backing, no manholes.</li> <li>• Two piece mill heads in nodular iron with integral cast trunnions and rubber backing. Mill heads split into 2 pieces to facilitate transport and use of smaller casting pit to expedite delivery.</li> <li>• One speed reducer, high-speed coupling and low speed coupling.</li> <li>• One electromechanical inching unit with reducer, coupling, motor and brake with proximity switches installed on the barring gear coupling to detect coupling engagement.</li> <li>• Oil lubrication system for gear reducers including stand by pumps, air to oil cooler etc with a lubrication oil conditioning system using a constant flow through to the heat exchanger and oil temperature controlled by water flow.</li> <li>• Temperature sensors (RTDs) included on all bearings in the drive train and main bearings.</li> <li>• All drive train base plates.</li> <li>• Spherical roller trunnion bearings and housings.</li> <li>• Grease lubrication system spherical roller bearings.</li> <li>• All necessary guards.</li> <li>• Installation cradle and mill jacking system.</li> <li>• Set of solid steel liners, pulp lifters and discharge grate fitted with 75x100mm pebble ports.</li> <li>• Feed chute with replaceable hardened steel liners and trolley.</li> <li>• Discharge trunnion liner with replaceable steel wear liners.</li> <li>• Feed trunnion opening large enough to accommodate a 1000kg capacity RME liner handler.</li> <li>• Mild steel fabricated trommel with replaceable rubber/polyurethane panels.</li> <li>• Mill load sensing system via load cells under the feed end bearing housing.</li> <li>• Reversible helical ring gear in nodular iron with forged steel pinion, grease lubricated pinion bearings and housings.</li> <li>• 2,600kW, 11kV, 50Hz Induction Motor.</li> <li>• Variable speed Liquid Resistance Starter to control the SAG mill within 65 -77% of critical mill speed.</li> <li>• Sensing devices and instrumentation for safe operation.</li> <li>• One fully automated Lincoln based ring gear and pinion grease spray system.</li> <li>• Pneumatic automated seal grease system for the bearing housings seals.</li> <li>• OEM manuals, specification and drawings.</li> </ul>	



## Ball Mill

### **(1) Outotec 5.5m DIA x 8.38m EGL (18' x 27.5') Overflow Ball Mill with 4600kW, 50Hz, Drive Motor**

Including:

- New/unused condition, packed and crated.
- Two piece (cans) fabricated mill shell with rubber backing, no manholes, split to facilitate transport.
- Single piece mill heads in nodular iron with integral cast trunnions and rubber backing.
- One speed reducer, high-speed coupling and low speed coupling.
- Temperature sensors (RTDs) included on all bearings in the drive train and main bearings.
- One electromechanical inching unit with reducer, coupling, motor and brake with proximity switches installed on the barring gear coupling to detect coupling engagement.
- Oil lubrication system for gear reducers including stand by pumps, air to oil cooler etc with a lubrication oil conditioning system using a constant flow through to the heat exchanger and oil temperature controlled by water flow.
- All drive train base plates.
- Hydrostatic trunnion bearings and housings.
- One complete oil lubrication system for hydrostatic bearings, including standby pumps, 10 micron (absolute) duplex filters, piping, valve, accumulators and oil/air cooler.
- All necessary guards.
- Installation cradle and mill jacking system.
- Ball mill with rubber liners in mill internals and discharge trunnion liner.
- Feed chute in solid cast NiHard and trolley.
- Mild steel fabricated trommel with replaceable rubber/polyurethane panels.
- Mill load sensing system via load cells under the feed end bearing housing.
- Reversible helical ring gear in nodular iron with forged steel pinion, grease lubricated pinion bearings and housings.
- 4,600kW, 11kV, 50Hz Induction Motor.
- Fixed speed Liquid Resistance Starter for starting only (no variable speed).
- Sensing devices and instrumentation for safe operation.
- One fully automated Lincoln based ring gear and pinion grease spray system.
- Pneumatic automated seal grease system for the bearing housings seals.
- OEM manuals, specification and drawings.