

## Production Winder Package Description (P001)

*This Scope of Supply sets out the requirements for the selection, design, supply, manufacture, inspection, testing, quality control, quality assurance, protection, packaging, insurances, statutory compliance, certification, delivery, commissioning and acceptance testing for one (1) off complete Friction Hoist to be installed at the OZ Minerals Prominent Hill mine.*

*The Shaft Hoisting System shall be supplied complete, including all necessary supply for complete and proper operation of the equipment.*

*The Scope of Supply includes, but is not necessarily limited to, the following:*

*1. One (1) Friction Hoist and associated equipment, including:*

*Production Winder (including all associated mechanical, electrical and controls equipment) - 1 off*

*Hoisting 11kV Switch room - 1 off*

*Winder Building 11kV Switchboard - 1 off*

*Winder House LV MCC - 1 off*

*2. The Friction (Koepe) Hoist shall include:*

*a. Friction winder drum assembly, including drum, rope friction inserts, brake discs, shaft, bearing assemblies, shaft speed encoder, bearing sole plates and hold down bolts.*

*b. Friction winder mechanical disc brakes, including hydraulic callipers, brake stands, hydraulic powerpacks, hydraulic control systems, protective brake covers and hold down bolts for brake stands.*

*c. Friction winder drum bearing lubrication system, including reservoirs, pumps, filters, cooling units and instrumentation (flow, pressure, temperature and level)*

*d. Two (2) head sheave assemblies, including sheaves, rope inserts, shaft, bearing assemblies and shaft speed encoders.*

*e. Main friction winder drive motor including slide rails and sole plates.*

*f. Drive and motor cooling equipment.*

*g. Associated electrical infrastructure.*

*h. Hoisting system control and safety systems including all required field devices. The control system shall be suitable for interface with the Principal's PLC/SCADA control system for the purpose of remote automatic operation and operational data acquisition. All functional safety and verification of design shall be completed by the Supplier.*

*i. Hoisting management system including all necessary programming.*

*j. Eight (8) off shaft side control panels.*

*k. Control interfaces with the loading station and tipping station.*

*l. Communications device from the skips to the hoisting system (i.e., shaft communications system).*

*m. Pony drive system on the friction winder drum, suitable for connection to a diesel generator.*

*n. Diesel generator suitable for operation of the winder pony drive.*

*o. Special tools.*