

	<b>Specification</b>	<b>Kusile Power Station</b>
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Title: **Supply and Delivery of  
Conveyor Belt Control Spares**

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## **1. Introduction**

Kusile Power Station Maintenance Management intends to establish a partnership with a suitably qualified, experienced and well-established *Contractor* for the Supply & Delivery of Conveyor Belt Control Spares in operating units, associated BOP. This document describes the details of the requirements, standards, scope of work and the terms and conditions of the maintenance partnership.

## **2. Supporting Clauses**

### **2.1 Scope**

The scope of work (SOW) specifies the required spares to be supplied by the Supplier on an as and when required basis and conditions for acceptance. The scope included here does not substitute procurement procedures that will be followed during the procurement process.

#### **2.1.1 Purpose**

The purpose of this document is to provide scope of work and technical information for the purchase of Supply & Delivery of Conveyor Belt Control Spares which Kusile Power Station is procuring, are correct.

#### **2.1.2 Applicability**

This document is applicable to Kusile Power Station Generation.

#### **2.1.3 Effective date**

This document is effective from the date of authorisation (last signature) until its succeeding document has been authorised.

### **2.2 Normative/Informative References**

Parties using this document shall apply the most recent edition of the documents listed in the following paragraphs.

#### **2.2.1 Normative**

Latest revisions of the following documents applies:

- [1] ISO 9001 Quality Management Systems
- [2] 36-681 Generation Plant Safety Regulations
- [3] 32-727 SHEQ Policy
- [4] 240-83797737 In- Service monitoring of Lubricating oils and Hydraulic fluids
- [5] 240-84513751: Material Specification and Certification Guideline for Power Generation Plant

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- [6] 240-86546783: Procurement Standard for Material Certification Requirements Applicable to Metallic Products Used on Low and Medium Pressure Applications
- [7] 240-54820279: Receive Materials
- [8] BS EN 10204 (2004) - Metallic products -Types of Inspection Documents
- [9] Table 2 – List of Standards applicable for use

### **2.2.2 Informative**

N/A

## **2.3 Definitions**

<b>Abbreviation</b>	<b>Explanation</b>
Contractor	Service provider contracted to provide a specific spares & documentation to Kusile Power Station. Referred to as the Supplier on this document.
Employer	Kusile Power Station

### **2.3.1 Document:**

Controlled Disclosure: Controlled Disclosure to external parties (either enforced by law, or discretionary).

## **2.4 Abbreviations**

<b>Abbreviation</b>	<b>Description</b>
<b>ISO</b>	<b>International Organisation for Standardisation</b>
<b>KPI</b>	<b>Key Performance Indicator</b>
<b>OEM</b>	<b>Original Equipment Manufacturer</b>
<b>OHS</b>	<b>Occupational Health &amp; Safety</b>
<b>PSR</b>	<b>Plant Safety Regulations</b>
<b>SHEQ</b>	<b>Safety, Health, Environmental &amp; Quality</b>
<b>SOW</b>	<b>Scope Of Work</b>

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## 2.5 Roles and Responsibilities

All parties concerned in this SOW “shall act as stated in this contract and in a spirit of mutual trust and cooperation”

### 2.5.1 Employer

- a) The *Employer* shall identify required spares for the plant
- b) The *Employer* shall compile spares specifications and load Data Capture Forms.
- c) Compiles and submit scope of work with technical specifications.
- d) The *Employer* shall performs Quality Control of all spares on delivery at the *Employer* premises.
- e) Initiate the repairs process all the time an actuator requires repairs.
- f) Ensure repaired actuators are classified clearly

### 2.5.2 Contractor

- a) The *Contractor* shall deliver as per specified information from the *Employer*.
- b) The *Contractor* shall advise if further information is required
- c) The *Contractor* shall honour the delivery dates committed on.
- d) Communicate extended lead times where necessary/required.
- e) Always deliver in the Kusile Power Station Stores and obtain a signed delivery note.
- f) Provide training on equipment installed and perform inspections on all conveyor belt control spares
- g) The contractor shall deliver same spare as installed in Kusule power station with the data sheet from the OEM of the equipment.

## 2.6 Process for Monitoring

This document will be a once-off document to state the scope of work to Supply & Delivery of Conveyor Belt Control Spares from Original Equipment Manufacturer (OEM) Spares contract.

## 2.7 Related/Supporting Documents

N/A

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### 3. Document Content

To Supply & Delivery of Conveyor Belt Control Spares from Original Equipment Manufacturer (OEM) Spares Scope of Work.

#### 3.1 Supply & Delivery of Conveyor Belt Control Spares

All Conveyor Belt Control Spares and accessories delivered must be complete instrument, ready for installation. Conveyor Belt Control Spares must meet the specifications of Kusile Power Station Conveyor Field Control Instrumentation. All deliveries must only occur after the receipt of an official order. All Conveyor Belt Control Spares must be Quality Checked by an approved QC nominee from the End-User list of spares inspectors. No Conveyor Belt Control Spare or accessory shall be accepted without prior inspection and specification verification. All costs prior to delivery associated with complete spare shall be handled by the supplier concerned.

#### 3.2 Description of the works

The works is to Supply & Delivery of Conveyor Belt Control Spares from Original Equipment Manufacturer (OEM).The spares are listed in Table 1.

**Table 1: Conveyor Belt Control Spares**

Detailed Spare Description & Specification	OEM	OEM No.	Part	SAP Material No.
Block Chute Tilt Switch TSCS-901	ELT			0643073
Combo Extd, Intellignet Pullkey, IP65	ELT			0643060
Scanbelt 0.75mm 6 Core Blue Line Cable	ELT			0643074
Scanbelt Dual Misalignment Unit, c/w T-Frame Extd	ELT			0643062
Scanbelt Slack Rope Rip Detector Combo Extd	ELT			0643059
Pre-Start 120dB Alarm, 220/24V, EN54-3 Complaint Nexus 105 Sounder Beacon (Part #: BUZ08   PNC-0001) Nexus 120 Sounder Beacon (Part #: BUZ09   18-980546) Current: 120-550mA & 250mA, IP66, Operating Temp: -25C - 70C, Weight: 2kg	ELT			0646325
Scanbelt Speed Switch CBSM100 24VDC c/w Proxy Extd	ELT			0643058
IBC100 Intellegent Belt Controller, 10 Optically Isolated Digital Inputs 4 Analog Inputs (4-20mA), 5 Voltage Free Relay Contacts Led mimic for all digital inputs and outputs reflecting the particular function Line LCD display provide system information and feedback 4 push button keypad, Ethernet, Profibus, TCP/IP Modbus or Modbus RTU Supply Voltage: 24DC, Supply Current: 1A, Operating Temp: 0C - 60C	ELT			0579192
Electrotron - 3mm/5mm Bold Red Plastic Coated Steel Wire Rope	ELT			0581490
4 CHANNEL 4-20mA ANALOG ISOLATION MODULE 3000VDC Isolation Voltage, Operating Temp: -45C - 85C, Vin: 32V Frequency response: 20ms	ELT			0611111
SCANBELT Combo Control Unit 24VDC, 35mA Max, Weight: 1kg, IP66, Operating Temp: -10C - 60C Inputs: 2x NC Voltage Free Contacts	ELT			0646322

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Detailed Spare Description & Specification	OEM	OEM No.	Part	SAP Material No.
Input Voltage: 24VDC, Output Contact: 12V-240V 1A Max IP66, Operating Temp: -10C - 60C	ELT			0642432
24VDC, 0.5A, Operating Temp: 0C - 60C 4 Button Keypad with LCD and LED indicators Outputs: 2x Voltage Free Contacts	ELT			0583444
Blue Line Termination Kit	ELT			0642519
Scanbelt IBTD 100 Tear Detector c/w T-Frame Extd	ELT			0645923
6A Circuit Breaker	ELT			0645964
Surge Suppressor, Phoenix VAL-EM 335-2880419	ELT			0642493
2A Circuit Breaker	ELT			0645963
24VDC Power Supply , PS01-DR-75-24, Single Output Din Rail Power Supply	ELT			0611879
Analog Isolation Module	ELT			0611111
OMRON Hardwire Relay	ELT			0594923
ISLR2 - Intelligent Safel - line Relay	ELT			0583444
IBC100 Intelligent Belt Controller	ELT			0579192
Emergency Stop Switch	ELT			0645922
Reset Switch	ELT			0649686
Interposing Relay, Phoenix Contact PLC Relay	ELT			0581493
SCANBELT Intelligent Pullkey	ELT			0643060
SCANBELT Standard Pullkey	ELT			0643061
SCANBELT Dual Alignment Detector	ELT			0643062
SCANBELT Combo Control Unit Without Reset	ELT			0645921
Proximity Switch	ELT			0583441
SCANBELT Under Speed Switch Control Unit	ELT			0594043
SCANBELT 6 Core Blue Line Cable	ELT			0643074
SCANBELT Slack Rope Rip Detector	ELT			0643059
SCANBELT Tear Detector	ELT			0645923
Mean Well 24VDC Power Supply,	ELT			0528528
SCANBELT Tail End Audio Visual Alarm	ELT			0646325
Plastic Coated Steel Wire Rope	ELT			0581490
Block Chute Tilt Switch	ELT			0643073
SCANBELT Pullkey Controller Motherboard	ELT			0650076
Limit Switch XCKJ390559H29EX	ELT			0643068
Omron 24VDC Relay + Relay Base PTF14E	ELT			0645966
24VDC Quint Power Supply	ELT			0579199

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Detailed Spare Description & Specification	OEM	OEM No.	Part	SAP Material No.
Steel Wire Termination Kit	ELT			0645965
EU01-Termination Unit	ELT			0611112
Datalogic Proximity Switch IS-30-A0-03	ELT			0642494
Cable Conduit with Caddy Clamps	ELT			0645919
Tail End Pre-Start Module	ELT			0642432
Schneider a9f64106 Miniature Circuit Breaker	ELT			0642431
Blue Line Termination Kit	ELT			0642519
Single Turn Pigtail	ELT			0650112
Posigrip Compression Gland Ex	ELT			0645970
Single Feed Through Terminal Block	ELT			0645967
Tail End Pre-Start Control Unit	ELT			0645920
CCG Posigrip Gland	ELT			0645969
CCG Posigrip Gland	ELT			0645968
Nexus 105 Sounder Audion Visual Alarm	ELT			0643070
Combo Misalignment Control Unit	ELT			0646322
BSD	ELT			0643058

#### 4. Acceptance

This document has been seen and accepted by:

#### 5. Revisions

Date	Rev.	Compiler	Remarks
January 2022	01		First Issue

#### 6. Development Team

The following people were involved in the development of this document:

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## 7. Acknowledgements

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## Appendix A – Eskom Document Hierarchy

### A.1 Document Hierarchy

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