

	<b>Scope of Work</b>	<b>Arnot Power Station</b>
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Title:	<b>Supply and delivery of Control and Instrumentation Spares at Arnot Power Station</b>	Unique Identifier:	<b>AEAP</b>
		Alternative Reference Number:	<b>N/A</b>
		Area of Applicability:	<b>Eskom Holdings SOC Ltd</b>
		Functional Area:	<b>Engineering</b>
		Revision:	<b>1</b>
		Total Pages:	<b>5</b>
		Next Review Date:	<b>N/A</b>
		Disclosure Classification:	<b>CONTROLLED DISCLOSURE</b>

<b>Compiled by</b>	<b>Functional Responsibility</b>	<b>Accepted by:</b>
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27.03.2025	28-03-2025	
<u>Date</u> .....	<u>Date</u> .....	<u>Date</u> .....

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## 1. INTRODUCTION

This document defines the scope of supply and delivery of Control and Instrumentation (C&I) spares. This supply is critical to ensure the continuous and efficient operation of equipment at the power station and to minimize downtime due to component failures. The scope outlines the responsibilities, deliverables, standards, and quality assurance requirements for the supplier to ensure successful and timely delivery

## 2. OBJECTIVE

The objective of this document is to establish the requirements for the procurement of high-quality, reliable C&I spares. These spares must meet the specified technical and operational requirements to support maintenance and operational needs. Ultimately, this procurement aims to:

- Ensure the continuous and efficient operation of power station equipment.
- Minimize downtime due to component failures.
- Facilitate timely and effective maintenance activities.
- Secure a reliable supply of essential C&I components

## 3. STANDARDS AND COMPLIANCE

All supplied C&I spares must comply with relevant international and industry-specific standards. These standards are essential to guarantee the quality, compatibility, safety, and performance of the procured equipment. The supplier is responsible for providing comprehensive documentation demonstrating compliance, including but not limited to:

- IEC 61010 (Safety requirements for electrical equipment for measurement, control, and laboratory use)
- Occupational Health and Safety (OHS) regulations
- IEC 61326 (ensure that electronic modules don't emit excessive electromagnetic interference)
- RoHS (Restriction of Hazardous Substances) directives limit the use of hazardous materials in electronic equipment.
- IEC 61508 (Functional safety of electrical/electronic/programmable electronic safety-related systems)
- ISO 9001 (Quality management systems)

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#### 4. QUALITY ASSUARANCE

A robust quality assurance program is essential to ensure the reliability and longevity of the supplied C&I spares. The supplier must implement a quality management system that covers all stages of the supply process, from material procurement and manufacturing to testing and delivery. This system must include rigorous inspection and testing procedures to verify compliance with specified technical requirements and performance criteria. The supplier shall provide detailed quality assurance documentation to demonstrate adherence to the required quality standards.

#### 5. CONTROL AND INSTRUMENTATION SPARES LIST

Below is the C&I Spares list:

Item nr	Description	Unit	Quantity	Stock Number
1	TRANSDUCER:SU-1625 MAGNETIC SUPPORT	Each	20	0719935
2	MODULE: II 3 G EX EC IIC T4 GC;I/P 24 VDC	Each	10	0750830
3	MODULE:EN 61131-2 TYPE 3;I/P 24 VDC;142	Each	10	0750833
4	MODULE:1/3;I/P 24 VDC;O/P 100 MA;24 VDC	Each	10	0750835
5	MODULE:1/3;I/P 24 VDC;O/P 0-20 MA;24 VDC	Each	10	0750834
6	MODULE:SENSOR CARD;I/P 0-10 VDC;O/P 0-10	Each	10	0687076

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7	SWITCH LMT:250 VAC;10 A;SPDT;1NO;RESIN	Each	20	0574450
8	ACTUATOR PNEUM:WD 174 X LG 424 X HT 238	Each	40	0594848
9	VALVE SLND:1/4 IN;3 WAY;220 VAC;1-10 BAR	Each	20	0062411
10	VALVE BALL:3/8 IN;10 BAR;150 DEG C;SW	Each	100	0670845
11	VALVE BALL:G1/2 IN;0.05 MPA;40 DEG C;STL	Each	50	0671152
12	TRANSMITTER TEMP:-40 TO 12 DEG C;230 VAC	Each	25	0572268

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