

	<p align="center"><b>Scope Of Work</b></p>	<p align="center"><b>Generation</b></p>
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<p><b>C Mathebula</b> <b>Senior Advisor</b></p>	<p><b>Thabitha Mpoyi</b> <b>Manager Occupational Health and Safety</b></p>	<p><b>R Maahlo</b> <b>Middle Manager Risk and Assurance</b></p>
<p>Date: 30/07/25.....</p>	<p>Date: .....</p>	<p>Date: .....</p>

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## **1. INTRODUCTION**

Kriel Power Station has P10 - ENERGY SAVER LED display board installed at the main entrance used to communicate safety stats, plant performance and any other information the Employer deems necessary to share and that which is required by Republic of South African's legislation. Therefore, the availability and correct operation of the screen is crucial to and as part of Kriel Power Station operation.

## **2. SUPPORTING CLAUSES**

### **2.1 SCOPE**

SOW for the Maintenance & Servicing of the electronics notice board.

#### **2.1.1 PURPOSE**

The purpose of the document is to provide a scope of work for the Maintenance & Servicing of the electronics notice board establishing an NEC TSC contract.

#### **2.1.2 APPLICABILITY**

This document is applicable to Kriel Power Station.

### **2.2 NORMATIVE/INFORMATIVE REFERENCES**

#### **2.2.1 NORMATIVE**

- [1] ISO 9001: Quality Management Systems
- [2] Occupational Health and Safety Act (OHS ACT)
- [3] 240- 165222175: Records Retention Matrix

#### **2.2.2 INFORMATIVE**

Not applicable.

### **2.3 DEFINITIONS**

None.

#### **2.3.1 DISCLOSURE CLASSIFICATION**

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

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## 2.4 ABBREVIATIONS

Abbreviations	Description
LED	Light Emitting Diode
LMO	Lifting Machinery Operations
QC	Quality Control
SOW	Scope Of Work
TSC	Term Service Contract
OHS ACT	Occupational Health and Safety Act

## 2.5 ROLES AND RESPONSIBILITIES

Roles and responsibilities are as follows:

Manager/End User:

- To ensure that the SOW is executed by the contractor in ensuring availability and correct functioning of the electronic boards.
- Ensure that potential risks associated with the contracts are mitigated and manage administer the contract.

## 2.6 PROCESS FOR MONITORING

Quality control of the work done will be signed off by the on Manager/End User/Contract Manager or any person duly or delegated appointed by the Manager/End User/Contract Manager before, during and after the work is done.

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### 3. SCOPE

#### 3.1 BACKGROUND

Kriel Power Station has P10 - ENERGY SAVER LED display board installed at the main entrance used to communicate safety stats, plant performance and any other information the Employer deems necessary to share and that which is required by Republic of South African's legislation. Therefore, the availability and correct operation of the screen is crucial to and as part of Kriel Power Station operation.

#### 3.2 DESCRIPTION OF THE SCOPE

For the provision of Maintenance & Servicing of the electronics notice board over 36 Months.

##### Maintenance & Service includes but not limited to:

- Cleaning of all parts of the screen using contact electronics contact cleaner and another electronics cleaning products.
- Tighten all power supplies, sub-modules, cards and terminals blocks screws.
- Cleaning and inspecting all Ribbon cables and sub-modules if there is any rust or moisture on it.
- Inspection, Troubleshooting and Replacement of all Faulty screen parts.
- Cleaning of the screen front.
- The screen must always remain in functional mode.
- Monthly Report.

#### 3.2.1 TECHNICAL SPECIFICATION

<b>Technical Parameters - P10 - ENERGY SAVER</b>		<b>LANDSCAPE 4m x 2.88m/P10</b>			
<b>LED Parameters: ULTRA HIGH QUALITY</b>		Screen Resolution: <b>400 x 288</b>			
<b>No</b>	<b>Item</b>	<b>Luminous Intensity</b>	<b>Viewing Angle (H/V)</b>	<b>Wavelength</b>	<b>Test Condition</b>
1	<b>RED LED</b>	600 - 800nm	140°/70°	620 - 630nm	25°C, 20mA
2	<b>GREEN LED</b>	1800 - 2000nm	140°/70°	520 - 535nm	25°C, 20mA
3	<b>BLUE LED</b>	450 - 500nm	140°/70°	465 - 475nm	25°C, 20mA
<b>Module Specifications:</b>					
1		<b>Pixel Pitch</b>		10mm	
2		<b>Pixel Configuration</b>		1R, 1PG, 1PB	
3		<b>Module Resolution</b>		16 Dots x 16 Dots	
4		<b>Module Pixels</b>		256	
5		<b>Module Size</b>		160mm x 160mm	
<b>Cabinet Specifications:</b>					
1		<b>Cabinet Size</b>		800mm(L) x 960mm(H) x +/- 130mm(D)	
2		<b>Cabinet Resolution</b>		80 x 96 Pixels	
3		<b>Module Quantity</b>		30 Pieces	
4		<b>Cabinet Pixels</b>		7 680 Dots	
5		<b>Pixel Density</b>		10 000 Dots/m <sup>2</sup>	
6		<b>Max Power Consumption</b>		350W/m <sup>2</sup>	
7		<b>Ave Power Consumption</b>		105W/m <sup>2</sup>	

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8	<b>Material</b>	Mild Steel
9	<b>Cabinet Weight</b>	50kg/m <sup>2</sup>
<b>Screen Parameters:</b>		
1	<b>Complete Screen Size</b>	4m x 2.88m = <b>11.52m<sup>2</sup></b>
2	<b>Cabinet Quantity</b>	15 Piece
3	<b>Brightness</b>	>7000 mcd/m <sup>2</sup>
4	<b>Brightness (Max/Min)</b>	1.2:1
5	<b>Driving Method</b>	1/4 Scanning
6	<b>Viewing Angle</b>	Horizontal @ 140° & Vertical @ 70°
7	<b>Optimal Viewing Distance</b>	8m
8	<b>Brightness Control</b>	Red, Green & Blue - 256 Grade/Each
9	<b>Refresh Frequency</b>	>1000HZ
10	<b>Frame Frequency</b>	60Hz
11	<b>Input Voltage</b>	220VAC/50Hz
12	<b>Defects Rate</b>	<0.00001
13	<b>Power Consumption</b>	Max: 4kW & Ave: 1.2kW
14	<b>MTBF</b>	>10 000 Hours
15	<b>Life Span</b>	>100 000 Hours
16	<b>Module Display Brightness Uniformity</b>	<1%
17	<b>Earth Leakage Current</b>	<2mA
18	<b>Protective Grade</b>	IP65 Front & IP54 Back
19	<b>Operating Ambient Temperature</b>	-20°C~+60°C
20	<b>Operating Ambient Humidity</b>	10%~95%RH
21	<b>Control System</b>	LINSN
22	<b>Operating System</b>	Windows 2000/NT/XP/W8/7/8/10

### **3.2.2 DOCUMENTATION SUBMISSION AND RECORDING**

Necessary documentation shall include service reports, invoices and quotes; all to be retained in line with Eskom Kriel Power Station retention matrix.

### **3.3 PERFORMANCE GUARANTEES**

The Service Provider must have traceable maintenance history of work in the same field and system inclusive of guarantees on new work (modifications) and work done.

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### 3.4 STANDARDS, SPECIFICATIONS AND PROCEDURES

#### Relevant Standards and Codes

Document Number	Title
<b>General Standards</b>	
ISO 9001	Quality Management Systems.
240- 165222175	Records Retention Matrix

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#### **4. AUTHORISATION**

This document has been seen and accepted by:

<b>Name</b>	<b>Designation</b>
R Maahlo	Middle Manager Risk and Assurance
Thabitha Mpoyi	Manager Occupational Health and Safety
Gift Mamize	SHE office

#### **5. REVISIONS**

<b>Date</b>	<b>Rev.</b>	<b>Compiler</b>	<b>Remarks</b>
July 2025	1	C Mathebula	Developed the SOW

#### **6. DEVELOPMENT TEAM**

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

- Collen Mathebula

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