

Title: **Tender Technical Evaluation  
Strategy for Kriel Power Station  
Medium Voltage (MV) and Low  
Voltage (LV) Outage Contract  
Scope of Work**

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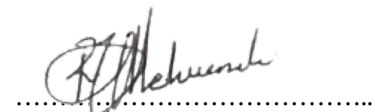
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## **I. INTRODUCTION**

Kriel Power Station (PS) is one of Eskom's coal fired power stations in the coal fleet. The station consists of six units and generates approximately 3000 MW to the Eskom national grid. The station has been in operation since 1979. Each generator is rated 550MVA. The generators have two pole rotors excited from a static excitation system. The static excitation system uses the generator's stator 18kV output voltage, which is then stepped down to 680V AC via three single-phase excitation transformers. The 680V AC then goes through four parallel thyristor bridge converters where it is converted to direct current (DC) which is fed to the rotor slip rings via carbon brushes.

This Tender Technical Evaluation Strategy (TTES) consolidates all the mandatory and qualitative technical tender requirements for the maintenance of all Medium Voltage (MV) and Low Voltage (LV) switchgear for a five (5) years term of service contract that entails the electrical maintenance services required during outages (general overhaul (GO) and mini general overhaul (MGO)) as detailed in the maintenance strategy.

240-48929482: Tender Technical Evaluation Procedure will be followed as the governing process.

## **2. SUPPORTING CLAUSES**

### **2.1 SCOPE**

#### **2.1.1 Overview**

The scope of this document is to establish a TTES for the maintenance of all Medium Voltage (MV) and Low Voltage (LV) switchgear for a five (5) years term of service contract that entails the electrical maintenance services required during outages (general overhaul (GO) and mini general overhaul (MGO)) as detailed in the maintenance strategy.

#### **2.1.2 Purpose**

The purpose of this tender technical evaluation strategy is to define the Mandatory Evaluation Criteria, Qualitative Evaluation Criteria and tender evaluation team (TET) member responsibilities for tender technical evaluation. The technical evaluation strategy serves as basis for the tender technical evaluation process.

#### **2.1.3 Applicability**

This document will be applicable to Kriel PS.

### **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**

240-48929482	Tender Technical Evaluation Procedure
555-EEP2109	MV and LV Switchgear Maintenance Service Outage Contract on an as and when required basis for period of five years
OHSA	Occupational Health and Safety Act 85 of 1993
240-56355754	Field Instrument Installation Standard
240-56227443	Requirements for Control & Power Cables for Power stations Standard
240-56356396	Earthing and Lightning Protection
240-56357424	MV and LV Switchgear Protection Standard

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240-56227573	AC Metal Enclosed (Metal clad) and Control Gear for voltages above 1kV up to 52kV Standard
ISO 9001	Quality Management Systems
SANS 62271-100	

## 2.2.2 Informative

240-53113685	Design Review Procedure
240-53114002	Engineering Change Management Procedure
240-53114026	Project Engineering Change Management Procedure
240-76992014	Project/Plant Specific Technical Documents and Records Management Work Instruction.
SHEQ	Eskom SHEQ Policy

## 2.3 DEFINITIONS

<b>Assembly</b>	A combination of one or more low voltage switching devices together with associated control, measuring, signalling, protective, regulating equipment, etc., completely assembled under the responsibility of the manufacturer with all the internal electrical and mechanical interconnections and structural part.
<b>Capability</b>	Capability is the ability of a resource to achieve its objectives quantified as the sum of expertise and capacity.
<b>Classification</b>	Controlled disclosure: controlled disclosure to external parties (either enforced by law, or discretionary).
<b>Corrective Maintenance</b>	Is the maintenance carried out after a failure has occurred and is intended to restore
<b>Planned Maintenance</b>	Is the work performed during a planned (scheduled) outage of the specific plant or generating unit in question.
<b>Preventive Maintenance</b>	Is the maintenance carried out at pre-determined intervals, or corresponding to prescribed criteria, and intended to reduce the probability of failure, or the performance degradation of an item.
<b>Primary Plant</b>	Equipment directly associated with the transmission and distribution of electricity operating at high and extra high voltage. This equipment that is typically segregated in a high voltage yard or building, and includes inter alia transformers, circuit breakers, instrument transformers, isolators, shunt reactors, shunt capacitors and post insulators
<b>Secondary Plant</b>	Low voltage equipment for control, monitoring and protection of primary plant. Interface between this equipment and primary equipment is by means of instrument transformers.
<b>Contractor</b>	The party appointed by the <i>Employer</i> to "Provide the works".
<b>Design Engineer/Designer</b>	The person responsible in terms of the "Occupational Health and Safety Act and Regulations" for the <i>Employer</i> from time to time to act in the capacity and notified, by name and in writing by the <i>Employer</i> to the <i>Contractor</i> , as required. He/she shall be ECSA accredited as a professional Engineer/Technologist. All communication to the design engineer shall be done via the Project Manager.
<b>Employer</b>	The party for whom the works are to be executed and, in this standard, means Eskom (Transmission, Distribution, Technology, Power Delivery Projects) and where applicable,

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	includes Eskom's appointed successor in title but not, except with the written content of the Contractor, any assignee of Eskom.
<b>Eskom Site Representative</b>	The person appointed by the <i>Employer</i> from time to time to act in the capacity and notified, by name and in writing by the <i>Employer</i> to the <i>Contractor</i> , as required in "The NEC Engineering and Construction Contract", FIDIC or any applicable contract.
<b>Project Manager</b>	Appointed by the <i>Employer</i> under Act 16.2 & Sect 4h (5) of CR as the client's Agent to act as his/her representative. The person responsible for coordinating all aspects of a project. All communication must be channelled via the Project Manager.
<b>Lands</b>	Refers to cultivated land or land set aside for exclusive use.
<b>Design Engineer</b>	Engineers, as practitioners of engineering, are professionals who invent, design, analyse, build and test machines, complex systems, structures, gadgets and materials to fulfil functional objectives and requirements while considering the limitations imposed by practicality, regulation, safety and cost.
<b>Routine Maintenance</b>	Is time based maintenance work that is performed with the plant either ON or OFF load.
<b>General Overhaul</b>	A declared outage when a Generating unit is taken off-line. During this outage all plant having no redundancy is overhauled to ensure reliable and safe operation.
<b>Mini General Overhaul</b>	During this outage, only the following interventions will be attended to: - Those plant items with no redundancy and which will not remain reliable up to the next General Overhaul. Inspections of suspect plant items.

### 2.3.1 Classification

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

### 2.4 ABBREVIATIONS

<b>Abbreviations</b>	<b>Description</b>
AKZ	Anlagen Kenn Zeichnungs
BOQ	Bill of Quantities
CoE	Centre of Excellence
PTM	Protection, Testing and Metering
EMD	Electrical Maintenance Department
EOD	Electrical Operating Desk
HAZOP	Hazard and Operability Analysis
LAR	Limited Access Register

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LV	Low Voltage
NDT	Non-Destructive Testing
OHSА	Occupational Health and Safety Act
PPE	Personal Protective Equipment
PSR	Plant Safety Regulations
PTW	Permit To Work
QA	Quality Assurance
QC	Quality Control
QCP	Quality control program/plan/procedure
QCP	Quality Control Procedure
SHE	Safety, Health & Environmental
SHEQ	Occupational Safety, Health, Environmental, and Quality
SoW	Scope of Work
AC	Alternative Current
kV	Kilovolts
MV	Medium Voltage

## **2.5 ROLES AND RESPONSIBILITIES**

Roles and responsibilities are detailed in 240-48929482: Tender Technical Evaluation Procedure.

## **2.6 PROCESS FOR MONITORING**

The process for monitoring is detailed in 240-48929482: Tender Technical Evaluation Procedure.

## **2.7 RELATED/SUPPORTING DOCUMENTS**

All related and supporting documents are listed in normative and informative references.

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### **3. DESCRIPTION OF SERVICES**

#### **3.1 Executive Overview of Services**

The scope detailed herein serves as an input to the Employer's Service Information for the five-year term service contract covering electrical maintenance services required during outages (general overhaul and mini general overhaul) to per the maintenance strategy.

The contract at high level shall make provision for electrical maintenance services on the following plant areas:

- The electrical services on the 11 kV and 3.3 kV switchgear which involve the service and testing of the medium voltage circuit breakers, pressure testing of bus bars and other activities requiring technical specialist skills not available within Eskom electrical maintenance department.
- The electrical services on the 380V switchgear required also as above involve the service and testing of the low voltage circuit breakers, pressure testing of bus bars and other activities requiring technical specialist skills not available within Eskom electrical maintenance department.

#### **3.2 Requirements for Services**

The contractor shall inspect, service and/or repair each medium voltage circuit breakers listed below in accordance with SANS 62271-100.

### **4. TENDER TECHNICAL EVALUATION STRATEGY**

#### **4.1 TECHNICAL EVALUATION METHOD**

The basic steps for a technical evaluation must be followed as per the Tender Technical Evaluation Procedure.

A two stage Technical Evaluation Strategy is set out.

Stage 1: Mandatory Technical Evaluation Criteria (gatekeepers) are 'must meet' criteria. These criteria shall not be weighted, or point scored but shall be assessed on a Yes/No basis as to whether the criteria are met. An assessment of 'No' against any criterion shall technically disqualify the tenderer and the tenderer shall not be further evaluated against Qualitative Criteria.

Stage 2: Qualitative Technical Evaluation Criteria are weighted evaluation criteria used to identify the highest technically ranked tenderer after determining that all the Mandatory Evaluation Criteria have been met. The Qualitative Evaluation Criteria are weighted to reflect the relevant importance of each criterion.

A weighted scorecard approach is used to evaluate the technical compliance of the tenders against the specifications.

The evaluation of the tender submission will be based on the tenderer's ability to meet the Engineering requirements.

The following scoring method to be used will be as follows:

<b>SCORE</b>	<b>PERCENTAGE</b>	<b>DESCRIPTION</b>
5	100	<b>COMPLIANT</b> <ul style="list-style-type: none"><li>• Meet technical requirement(s)</li><li>• No foreseen technical risk(s) in meeting technical requirements.</li></ul>
4	80	<b>COMPLIANT WITH ASSOCIATED QUALIFICATIONS</b> <ul style="list-style-type: none"><li>• Meet technical requirement(s)</li><li>• Acceptable technical risk(s)</li><li>• Acceptable exceptions</li><li>• Acceptable conditions</li></ul>

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2	40	<b>NON-COMPLIANT</b> <ul style="list-style-type: none"> <li>Does not meet technical requirement(s) and/or Unacceptable technical risk(s)</li> <li>Unacceptable exceptions</li> <li>Unacceptable conditions</li> </ul>
0	0	<b>TOTALLY DEFICIENT OR NON-RESPONSIVE</b> <ul style="list-style-type: none"> <li>No response</li> </ul>

The evaluation scores will be weighted as follows:

<b>Evaluation score (100%)</b>	
Electrical Engineering	100%
<b>TOTAL (100%)</b>	
<b>Overall minimum threshold for qualification (70%)</b>	

## 4.2 TECHNICAL EVALUATION THRESHOLD

The minimum weighted final score (threshold) required for a tender to be considered from a technical perspective is 70%.

## 4.3 TET MEMBERS

**Table 1: TET Members**

<b>TET number</b>	<b>TET Name</b>	<b>Member</b>	<b>Designation</b>
TET 1	W. Masemola		System Engineer
TET 2	R. Mahlaku		System Engineer
TET 3	R. Mnisi		Outage Coordinator
TET4	N. Phetha		System Engineer

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#### 4.4 MANADATORY TECHNICAL EVALUATION CRITERIA

**Table 2: Mandatory Technical Evaluation Criteria**

<b>Mandatory Technical Criteria</b>					
<b>Mandatory Technical Criteria Number</b>	<b>Mandatory Technical Criteria Description</b>	<b>Reference to Technical Specification / Tender Returnable</b>	<b>Motivation for use of Criteria</b>	<b>Compliant (Yes)/ Non-Compliant (No)</b>	<b>Comment</b>
1	Tenderers shall provide details of at least five (5) successfully implemented maintenance projects related to MV and LV switchgear, along with references and proof from national and/or international customers.	Tenderers to provide contracts or orders and close-out reports for all the successfully completed projects	Eskom needs assurance that supplier has previous experience in this field, which involves the maintenance of different technologies specific to MV and LV switchgear, in order to provide a solution that is reliable and fit for purpose.		
2	Tenderers shall provide proof in the form of ABB and GE certificate that all employees have been trained to conduct maintenance on the ABB Unigear and GE Uniflex switchgear.	Tenderers to provide certificates for the engineer/technician, Master Installation Electrician (MIE) and all electrician as proof of competence	Eskom needs assurance that all personnel are competent to conduct maintenance on the listed switchgear.		

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#### 4.5 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Qualitative Technical Evaluation Criteria								Comment
Qualitative Technical Criteria Description		Qty	Eskom Specification Reference/ Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)	Evaluator Score (0,2,4 or 5)	Weighted Score (%Weighting X Score)	
<b>I Design</b>				<b>60</b>				
<b>I.1</b>	<b>Resource Capacity</b>							
I.1.1	<p>Tenderer has qualified and competed personnel with at least 2 years' experience to execute the works.</p> <p>Manager</p> <p>5 – Tenderer has submitted personnel with at least 3 years' experience 4 - Tenderer has submitted personnel with at most 2 years' experience 2 - Tenderer has submitted personnel with at most 1 years' experience 0 - No submission from Tenderer.</p>	I	SAQA verifiable certified copy of qualification, CVs & attach signed letter as proof of employment.		20			
I.1.2	<p>Tenderer has professional engineer/technician to carry out the design work, sign off designs and the personnel have at least 2 years' experience post ECSA Certification.</p> <p>Electrical Engineer/ Electrical Technologist</p> <p>5 – Tenderer has submitted personnel with at least 3 years' experience 4 - Tenderer has submitted personnel with at most 2 years' experience 2 - Tenderer has submitted personnel with at most 1 years' experience 0 - No submission from Tenderer.</p>	I	SAQA verifiable certified copy of qualification, CVs, ECSA certificate & attach signed letter as proof of employment.		20			

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1.1.3	<p>Tenderer has qualified and competed personnel with at least 2 years' experience to execute the works.</p> <p>Master Installation Electrician</p> <p>5 – Tenderer has submitted personnel with at least 3 years' experience 4 - Tenderer has submitted personnel with at most 2 years' experience 2 - Tenderer has submitted personnel with at most 1 year's experience 0 - No submission from Tenderer.</p>	1	SAQA verifiable certified copy of qualification, CVs & attach signed letter as proof of employment.	10				
1.1.4	<p>Tenderer has qualified and competed personnel with at least 2 years' experience to execute the works.</p> <p>Electrician</p> <p>5 – Tenderer has submitted personnel with at least 3 years' experience 4 - Tenderer has submitted personnel with at most 2 years' experience 2 - Tenderer has submitted personnel with at most 1 years' experience 0 - No submission from Tenderer.</p>	4	SAQA verifiable certified copy of qualification, CVs & attach signed letter as proof of employment.	5				
1.1.5	<p>Tenderer has qualified and competed personnel with at least 2 years' experience to execute the works.</p> <p>Semi-skilled workers</p> <p>5 – Tenderer has submitted personnel with at least 3 years' experience 4 - Tenderer has submitted personnel with at most 2 years' experience 2 - Tenderer has submitted personnel with at most 1 years' experience 0 - No submission from Tenderer.</p>	5	SAQA verifiable certified copy of qualification, CVs & attach signed letter as proof of employment.	5				

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<b>2</b>	<b>Method Statement</b>			<b>20</b>			
2.1	<p>Tenderer shall submit a method statement for execution of the maintenance services.</p> <p>The method statement shall cover at least the following phases:</p> <ul style="list-style-type: none"> <li>• Maintenance Services</li> <li>• Testing and Commissioning activities</li> </ul> <p>5 - Tenderer has submitted a detailed method statement with all the phases and activities required.</p> <p>4 - Tenderer has submitted a method statement with not details of phases and activities required.</p> <p>2- Tenderer submitted a method statement that lacks detail.</p> <p>0 - No submission from Tenderer.</p>	I	Approved method statement under company letterhead	20			
<b>3</b>	<b>Quality Control Plan</b>			<b>10</b>			
3.1	<p>Tenderer shall draft and submit a Quality Control Plan (QCP). The QCP shall include the acceptance criteria / procedure reference/ standard for critical activities referring to the scope of work.</p> <p>5 – Tenderer submitted a detailed QCP detailed, covering all the phases, and has acceptance criterion/procedures reference/standards.</p> <p>4 - Tenderer submitted a QCP that is detailed, but does not cover all the phases, and has acceptance criterion/procedures reference/standards.</p> <p>2 – Tenderer submitted a QCP that is not detailed</p> <p>0 – No submission from tenderer.</p>	I	Approved quality control plan under company letterhead	10			

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<b>4</b>	<b>Documentation</b>			<b>10</b>				
4.1	<p>Tenderer shall provide a tool list as required by the scope of work.</p> <p>5 – Tenderer submitted a detailed tool lists detailed for all personnel.</p> <p>4 - Tenderer submitted a detailed tool lists detailed, but it was not for all personnel.</p> <p>2 – Tenderer submitted a tool list that is not detailed</p> <p>0 – No submission from tenderer.</p>	4	<p>Tool list for all tools assigned to resources on site during maintenance activities</p>		2.5			
4.2	<p>Tenderer shall provide test equipment calibration certificates for all test equipment used.</p> <p>5 – Tenderer submitted detailed calibration certificates for all test equipment.</p> <p>4 - Tenderer submitted calibration certificates, but it was not for all equipment.</p> <p>2 – Tenderer submitted calibration certificates that were invalid</p> <p>0 – No submission from tenderer</p>		<p>Valid test certificates and calibration certificates of your test equipment as per the tool list in the scope of work.</p>		5			
4.3	<p>tenderer shall provide both the company and site team organogram.</p> <p>5 – Tenderer submitted detailed organograms.</p> <p>4 - Tenderer submitted only on type of organogram – either company or site team.</p> <p>0 – No submission from tenderer</p>	2	<p>Approved company and site team organograms</p>		2.5			
<b>TOTAL</b>				<b>100</b>				

#### 4.6 TET MEMBER RESPONSIBILITIES

**Table 3: TET Member Responsibilities**

Mandatory Criteria Number	TET 1	TET 2	TET 3	TET 4
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1. Tenderers shall provide details of at least five (5) successfully implemented maintenance projects related to MV and LV switchgear, along with references and proof from national and/or international customers.	x	x	x	x
2. Tenderers shall provide proof in the form of ABB and GE certificate that all employees have been trained to conduct maintenance on the ABB Unigear and GE Uniflex switchgear.	x	x	x	x
<b>Qualitative Criteria Number</b>	<b>TET 1</b>	<b>TET 2</b>	<b>TET 3</b>	<b>TET 4</b>
1. Resource Capacity	x	x	x	x
2. Method Statement	x	x	x	x
3. Quality Control Plan	x	x	x	x
4. Documentation	x	x	x	x

## 5. AUTHORISATION

This document has been seen and accepted by:

<b>Name</b>	<b>Designation</b>
W. Masemola	System Engineer
N. Phetha	System Engineer
R. Mahlaku	Senior System Engineer
R. Mnisi	Outage Coordinator
G. Mthombene	Electrical Engineering Manager (Acting)
N. Jafta	Outage Manager
R. Nelwamondo	Engineering Manager

## 6. REVISIONS

<b>Date</b>	<b>Rev.</b>	<b>Compiler</b>	<b>Remarks</b>
September 2023	0.1	W. Masemola	Draft document of the tender technical evaluation strategy
September 2023	1	W. Masemola	Official draft of the document
October	2	W. Masemola	The addition of a TET member and a second Mandatory requirement

## 7. DEVELOPMENT TEAM

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

W. Masemola  
R. Mnisi  
N. Phetha  
K. Manoko

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## **8. ACKNOWLEDGEMENTS**

The compile would like to thank the development and authorization teams

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