 Eskom	Technical Evaluation Strategy	Kriel Power Station
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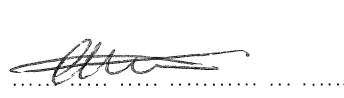


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1. INTRODUCTION

Kriel Power Station 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 555MVA.

This Tender Technical Evaluation Strategy (TTES) consolidates all the mandatory and qualitative technical tender requirements for the Maintenance Of Kriel PS GCB IPB's at Unit 1 to 6 as detailed in the plant 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 Refurbishment Of Kriel PS GCB IPB's at Unit 1 to 6 service contract that entails the electrical maintenance services required during for overhaul of Generator Circuit Breaker.

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
OHSA	Occupational Health and Safety Act 85 of 1993
240-56227443	Requirements for Control & Power Cables for Power stations Standard
240-56356396	Earthing and Lightning Protection
ISO 9001	Quality Management Systems

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.

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SHEQ

Eskom SHEQ Policy

2.3 DEFINITIONS

Assembly	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
Capability	Capability is the ability of a resource to achieve its objectives quantified as the sum of expertise and capacity.
Classification	Controlled disclosure: controlled disclosure to external parties (either enforced by law, or discretionary).
Corrective Maintenance	Is the maintenance carried out after a failure has occurred and is intended to restore
Planned Maintenance	Is the work performed during a planned (scheduled) outage of the specific plant or generating unit in question.
Preventive Maintenance	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.
Primary Plant	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
Secondary Plant	Low voltage equipment for control, monitoring and protection of primary plant. Interface between this equipment and primary equipment is by means of instrument transformers.
Contractor	The party appointed by the <i>Employer</i> to "Provide the works".
Design Engineer/Designer	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.
Employer	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, includes Eskom's appointed successor in title but not, except with the written content of the Contractor, any assignee of Eskom
Eskom Site Representative	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.
Project Manager	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.
Design Engineer	Engineers, as practitioners of engineering, are professionals who invent, design, analyse, build and test machines, complex systems, structures, gadgets and

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	materials to fulfil functional objectives and requirements while considering the limitations imposed by practicality, regulation, safety and cost
Routine Maintenance	Time-based maintenance work that is performed with the plant either ON or OFF load

2.3.1 Classification

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

2.4 ABBREVIATIONS

Abbreviations	Description
AKZ	Anlagen Kenn Zeichnungs
GCB	Generator Circuit Breaker
EMD	Electrical Maintenance Department
EOD	Electrical Operating Desk
OHSA	Occupational Health and Safety Act
PSR	Plant Safety Regulations
PTW	Permit To Work
QA	Quality Assurance
QC	Quality Control
QCP	Quality Control Procedure
SHE	Safety, Health & Environmental
SHEQ	Occupational Safety, Health, Environmental, and Quality
SoW	Scope of Work
kV	Kilovolts

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.

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2.7 RELATED/SUPPORTING DOCUMENTS

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

3. DESCRIPTION OF SERVICES

3.1 Executive Overview of Services

The generators circuit breaker, including IPB's at Kriel have been in operation for more than 35 years. The normal design life of a generator is between 25 to 30 years. The Kriel generator circuit breaker and IPB's have surpassed their design life and are still in operation with minor to major risks. It is imperative that maintenance scope be increased and refurbish or replacement some components on the GCB system to enable reliable operation and high availability in the future. If there is no intervention, then plant failures are inevitable resulting in significant down time, cost to *The Employer* and a negative image of *The Employer*.

3.2 Requirements for Services

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:

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SCORE	PERCENTAGE	DESCRIPTION
5	100	COMPLIANT <ul style="list-style-type: none"> Meet technical requirement(s) No foreseen technical risk(s) in meeting technical requirements.
4	80	COMPLIANT WITH ASSOCIATED QUALIFICATIONS <ul style="list-style-type: none"> Meet technical requirement(s) Acceptable technical risk(s) Acceptable exceptions Acceptable conditions
2	40	NON-COMPLIANT <ul style="list-style-type: none"> Does not meet technical requirement(s) and/or Unacceptable technical risk(s) Unacceptable exceptions Unacceptable conditions
0	0	TOTALLY DEFICIENT OR NON-RESPONSIVE <ul style="list-style-type: none"> No response

The evaluation scores will be weighted as follows:

Evaluation score (100%)

Electrical Engineering

100%

TOTAL (100%)

Overall minimum threshold for qualification ~~(75%)~~

change to 70%

4.2 TECHNICAL EVALUATION THRESHOLD

The minimum weighted final score (threshold) required for a tender to be considered from a technical perspective is 75%, due to plant critical equipment knowledge required to execute the work.

4.3 TET MEMBERS

Table 1: TET Members

TET number	TET Member Name	Designation
TET 1	Raosetene Mahlaku	System Engineer
TET 2	Motlokwa Mokabane	EMD Senior Technician

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4.4 MANADATORY TECHNICAL EVALUATION CRITERIA

Table 2: Mandatory Technical Evaluation Criteria

Mandatory Technical Criteria		Reference to		Motivation for use of		Compliant (Yes)/ Non-Compliant (No)	Comment
Mandatory Technical Criteria Number	Mandatory Technical Criteria Description	Technical Specification Tender Returnable	/	Criteria	of		
1	Submit proof of registration as an Electrical Contractor	Letter from the department of labour as proof of registration as an electrical contractor in line with the Occupational Health and Safety Act 85 of 1993, Electrical Installation Regulations 6 (4).		Compliance to the OH&S Act 85 of 1993 and the regulations			

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4.5 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Qualitative Technical Evaluation Criteria							
Qualitative Technical Criteria Description	Qty	Eskom Specification Reference/ Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)	Evaluation Score (0,2,4 or 5)	Weighted Score (%Weighting X Score)	Comment
1 Design			60				
1.1 Resource Capacity							
1.1.1 Tenderers shall provide details of at least five (5) successfully implemented maintenance or projects related to Generator Circuit Breaker, along with references and proof from national and/or international customers	1	Tenderers to provide contracts or orders and close-out reports for all the successfully completed projects with traceable reference for verification purposes		20			
1.1.1 Tenderer has qualified and competed personnel with at least 2 years' experience to execute the works.	1	SAQA verifiable certified copy of qualification, CVs & attach signed letter as proof of employment.		10			
Manager							
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.							
1.1.2 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.	1	SAQA verifiable certified copy of qualification, CVs, ECSA certificate & attach signed letter as proof of employment.		10			
Electrical Engineer/ Electrical Technologist							
5 – Tenderer has submitted personnel with at least 3 years' experience							

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	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.			
1.1	Tenderer has qualified and	1	SAQA	10
.3	competed personnel with at least 2 years' experience to execute the works.		verifiable and certified copy of	
	Master Installation Electrician		qualification, CVs & attach signed letter as proof of employment, all certified	
	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.			
1.1	Tenderer has qualified and	4	SAQA	5
.4	competed personnel with at least 2 years' experience to execute the works.		verifiable and certified copy of	
	Electrician		qualification, CVs & attach signed letter as proof of employment.	
	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.			
1.1	Tenderer has qualified and	5	SAQA	5
.5	competed personnel with at least 2 years' experience to execute the works.		verifiable and certified copy of	
	Semi-skilled workers		qualification, CVs & attach signed letter as proof of employment	
	5 – Tenderer has submitted personnel with at least 3 years' experience			

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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

2 Method Statement

20

2.1 Tenderer shall submit a method statement for execution of the project

1

Approved method statement under company letter head

30

The method statement shall cover at least the following phases:

- Maintenance *Services*
- Testing and Commissioning activities

5 – Tenderer has submitted a detailed method statement with all the phases and activities required.

4 – Tenderer has submitted a method statement with not details of phases and activities required.

2- Tenderer submitted a method statement that lacks detail.

0 – No submission from Tenderer.

3 Quality Control Plan

10

3.1 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.

1

Approved quality control plan under company letterhead

10

5 – Tenderer submitted a detailed QCP detailed, covering all the phases, and has acceptance criterion/procedures reference/standards.

4 – Tenderer submitted a QCP that is detailed, but does not cover all the phases, and has acceptance criterion/procedures reference/standards.

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2 – Tenderer submitted a QCP that is not detailed

0 – No submission from tenderer.

4 Documentation

10

- | | | | |
|--|----------|--|------------|
| <p>4.1 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> | <p>4</p> | <p>Tool list for all tools assigned to resources on site during maintenance activities</p> | <p>2.5</p> |
| <p>4.2 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>4</p> | <p>Valid test certificates and calibration certificates of your test equipment as per the tool list in the scope of work</p> | <p>5</p> |
| <p>4.3 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> | <p>2</p> | <p>Approved company and site team organograms</p> | <p>2.5</p> |

TOTAL

100

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4.6 TET MEMBER RESPONSIBILITIES

Table 3: TET Member Responsibilities

Mandatory Criteria Number	TET 1	TET 2
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
2. Tenderers shall provide proof in the form of OEM certificate that all employees have been trained to commission equipment related.	X	x
3. Tenderer to provide certificate of compliance from Department of Labour	x	x
Qualitative Criteria Number	TET 1	TET 2
1. Resource Capacity	x	x
2. Method Statement	x	x
3. Quality Control Plan	x	x
4. Documentation	x	x

5. AUTHORISATION

This document has been seen and accepted by:

Name	Designation
G. Mthombene	Electrical Engineering Manager
R. Nelwamondo	Engineering Manager
K. Moagi	Outage Senior Advisor Electrical Plant

6. REVISIONS

Date	Rev.	Compiler	Remarks
June 2025	0	R. Mahlaku	New document of the tender technical evaluation strategy

7. DEVELOPMENT TEAM

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

Raasetene Mahlaku
Motlokwa Mokabane

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8. ACKNOWLEDGEMENTS

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