



Technical Evaluation Strategy

Kriel Power Station

Title: **Tender Technical Evaluation Strategy for Kriel Power Station Refurbishment Of Kriel PS GCB Compressor Plant Control Circuit At Unit 1 &4**

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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. Kriel PS has been operating compressors controls for more than their recommended design life span. The efficiency of the compressors has since deteriorated over the years due to wear and tear and often out of commission introducing number of technical risks to both compressors due age and some of them are O/C due to obsolete part, the operational costs of the compressors drastically increase, and the station is at the risk of multiple unit trip.

This Tender Technical Evaluation Strategy (TTES) consolidates all the mandatory and qualitative technical tender requirements for the Refurbishment Of Kriel PS GCB Compressor Plant Control Circuit At Unit 1 & 4 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 Compressor Plant Control Circuit At Unit 1 & 4 service contract that entails the electrical maintenance services required during for overhaul of compressor controls.

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 only 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

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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

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

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	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 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
EMD	Electrical Maintenance Department
EOD	Electrical Operating Desk
LAR	Limited Access Register
OHSa	Occupational Health and Safety Act
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
kV	Kilovolts

2.5 ROLES AND RESPONSIBILITIES

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

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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.

3. DESCRIPTION OF SERVICES

3.1 Executive Overview of Services

The reliability of the two compressors controls and the importance of keeping both in service until the end of station life, it will decrease the failure rate of the compressors and life span increasing by overcoming wear and tear of the controlling circuit. It will also decrease the failure rate due to compressor controls out of service and less running costs (overhauls and spares). The risk of MUT of more than 3000MW or black out at a time will decrease.

3.2 Requirements for Services

The contractor shall instal compressor control circuit.

4. TENDER TECHNCIAL EVALAUTION 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 - Meet technical requirement(s) - No foreseen technical risk(s) in meeting technical requirements.
4	80	COMPLIANT WITH ASSOCIATED QUALIFICATIONS - Meet technical requirement(s) - Acceptable technical risk(s) - Acceptable exceptions - Acceptable conditions
2	40	NON-COMPLIANT - Does not meet technical requirement(s) and/or Unacceptable technical risk(s) - Unacceptable exceptions - Unacceptable conditions
0	0	TOTALLY DEFICIENT OR NON-RESPONSIVE No response

The evaluation scores will be weighted as follows:

Evaluation score (100%)	
Electrical Engineering	100%
TOTAL (100%)	
Overall minimum threshold for qualification (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%.

4.3 TET MEMBERS

Table 1: TET Members

TET number	TET Member Name	Designation
TET 1	Raonetene Mahlaku	Electrical Engineering
TET 2	Mlondi Nkambule	Projects Department
TET 3	Abigail Mafunzwaeni	Electrical Maintenance Department

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4.4 MANADATORY TECHNICAL EVALUATION CRITERIA

Table 2: Mandatory Technical Evaluation Criteria

Mandatory Technical Criteria					
Mandatory Technical Criteria Number	Mandatory Technical Criteria Description	Reference Technical Specification Tender Returnable to /	Motivation for use of Criteria	Compliant (Yes)/ Non-Compliant (No)	Comment
1	Tenderer shall provide details of at least five (5) executed project or maintenance related to MV and LV switchgear, along with references and proof from national and/or international customers.	The tenderer must submit all contract or orders and closed out reports for all successfully completed projects.	Eskom needs assurance that the supplier has previous experience which involves the maintenance/ execution of technologies specific to MV & LV switchgear in order to provide a solution that is reliable and fit for purpose		
2	Tenderer shall provide the executed QCP's reports that are signed off after project execution for at least five (5) projects	Tenderer to submit reports from previous similar projects	Eskom needs assurance that all equipment used in the plant will be compatible with the existing components on Level one (1) plant		
3	Tenderer to provide proof of registration as an electrical contractor with department of employment and labour for any electrical installation, including specialized installation	Tender shall provide evidence that they are registered with Department of Labour	Eskom needs assurance that all equipment that is installed in the plant is compatible with the existing technology and components on level 1 plant		

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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 (%)	Evaluation Score (0,2,4 or 5)	Weighted Score (%Weighting X Score)	
1	Design			60				
1.1	Resource Capacity							
1.1.1	Tenderer has qualified and competed personnel with at least 2 years' experience to execute the works. Site Manager or Project Manager 5 – Tenderer has submitted personnel with at least 3 years' of project execution experience 4 - Tenderer has submitted personnel with at most 2 years' of project execution experience 2 - Tenderer has submitted personnel with at most 1 years' experience of project execution 0 - No submission from Tenderer and no project execution experience.	1	SAQA verifiable certified copy of qualification, CVs & attach signed letter as proof of employment.		10			
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. Electrical Engineer/ Electrical Technologist 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	SAQA verifiable certified copy of qualification, CVs, ECSA certificate & attach signed letter as proof of employment.		20			
1.1.3	Tenderer has qualified and competed personnel with at	1	SAQA verifiable		10			

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	least 2 years' experience to execute the works. Master Installation Electrician 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.		certified and certified copy of qualification, CVs & attach signed letter as proof of employment, all certified.					
1.1.4	Tenderer has qualified and competed personnel with at least 2 years' experience to execute the works. Electrician 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.	4	SAQA verifiable and certified copy of qualification, CVs & attach signed letter as proof of employment.		10			
1.1.5	Tenderer has qualified and competed personnel with at least 2 years' experience to execute the works. Semi-skilled workers 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.	5	SAQA verifiable and certified copy of qualification, CVs & attach signed letter as proof of employment.		10			
2	Method Statement			20				

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2.1	Tenderer shall submit a method statement for execution of the project 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.	1	Approved method statement under company letter head addressing the scope of work for the project	20				
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. 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. 2 – Tenderer submitted a QCP that is not detailed 0 – No submission from tenderer.	1	Approved quality control plan under company letterhead	10				
4 Documentation				5				
4.1	Tenderer shall provide test equipment calibration certificates for all test equipment used.		Valid test certificates and calibration certificates of	5				

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		5 – Tenderer submitted detailed calibration certificates for all test equipment. 4 - Tenderer submitted calibration certificates, but it was not for all equipment. 2 – Tenderer submitted calibration certificates that were invalid 0 – No submission from tenderer		your test equipment as per the tool list in the scope of work.					
5		Technical Returnable			5				
	5.1	Tender to provide high level Control & Operating philosophy listing all I/O and indication/control/interface in the plant		High level General Arrangement drawings to accompany tender documents		5			
TOTAL					100				

4.6 TET MEMBER RESPONSIBILITIES

Table 3: TET Member Responsibilities

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

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5. AUTHORISATION

This document has been seen and accepted by:

Name	Designation
G. Mthombene	Electrical Engineering Manager
R. Nelwamondo	Engineering Manager

6. REVISIONS

Date	Rev.	Compiler	Remarks
February 2025	0	R. Mahlaku	New document of the tender technical evaluation strategy
May 2026	1	R Mahlaku	Updated document for re-issue of the tender Included Mlondi Nkambule as TET 3 New section 5 added the Qualitative criteria and Criteria Sub Weighting (%)” included with percentages

7. DEVELOPMENT TEAM

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

Raosetene Mahlaku

8. ACKNOWLEDGEMENTS

NA

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