Eskom	Report	Technology

Title:	**Electrical Heater Elements Technical Evaluation Strategy**	Unique Identifier.	**240-53716746**
		Alternative Reference Number.	**N/A**
		Area of Applicability:	**TE**
		Documentation Type.	**Report**
		Revision.	**0**
		Total Pages:	**09**
		Next Review Date:	**N/A**
		Disclosure Classification:	**CONTROLLED DISCLOSURE**

Compiled by	Functional Responsibility	Authorised by
N Mthembu	**R Sigawuke**	**P Takane**
System Engineer	**Electrical Engineering Manager**	**Engineering Manager**
Date: 07 August 2025	Date: 07/08/2025	Date: 7-08-2025

CONTENTS

Page

1. INTRODUCTION **3**

2. SUPPORTING CLAUSES **3**

2 1 SCOPE 3
2 1.1 Purpose 3
2 1 2 Applicability 3
2 2 NORMATIVE/INFORMATIVE REFERENCES 3
2 2 1 Normative 3
2 2 2 Informative 3
2 3 DEFINITIONS 3
2 3 1 Classification 3
2 4 ABBREVIATIONS 4
2 5 ROLES AND RESPONSIBILITIES 4
2 6 PROCESS FOR MONITORING 4
2 7 RELATED/SUPPORTING DOCUMENTS 4

3. TENDER TECHNICAL EVALUATION STRATEGY **4**

3 1 TECHNICAL EVALUATION THRESHOLD 4

3.2 TET MEMBERS **6**

3.3 MANDATORY TECHNICAL EVALUATION STRATEGY 7
3 4 QUALITATIVE TECHNICAL EVALUATION CRITERIA 8

4. AUTHORISATION **11**

5. REVISIONS **11**

6. DEVELOPMENT TEAM **11**

7. ACKNOWLEDGEMENTS **11**

LIST OF TABLES

Table 1 TET Members 6
Table 2 Mandatory Technical Evaluation Strategy 7
Table 3. Qualitative Technical Evaluation Criteria 8
Table 4 TET Member Responsibilities 10

1. INTRODUCTION

This document specifies the technical requirements for the supply and delivery of electrical heater elements at Kendal Power Station Stores Department. Different types of electrical heater elements are specified in the document and they must be delivered as specified.

2. SUPPORTING CLAUSES

2.1 SCOPE

This document discusses the different technical aspects that will be evaluated and scored by the multi-disciplinary Technical Evaluation Team (TET) to complete the technical evaluation for the heater elements Supply and Delivery Contract Technical Evaluation The team members who will be involved in the evaluation are listed and appointed in this document along with their responsibilities This document also describes the acceptable and unacceptable risks and qualifications and/or conditions that will be applicable to the Scope of Work Once the Technical Evaluation Strategy is authorised, no changes will be made to the evaluation criteria without the appropriate authorisations

2.1.1 Purpose

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

2.1.2 Applicability

This document applies to Kendal Power Station.

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

[1] ISO 9001 Quality Management Systems

[2] 474-59: Internal Audit Procedure

[3] EAP 0304-1: Required Operational Capability Report

[4] 240-48929482: Tender Technical Evaluation Procedure

[5] 32-1034. Eskom Procurement Policy

[6] 240-53114002· Engineering Change Management Procedure

2.2.2 Informative

[7] 240-103031952. Application of CoC and Safety Clearance Certificate on Electrical Installations in Generating Power Plant

2.3 DEFINITIONS

2.3.1 Classification

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

2.4 ABBREVIATIONS

Definition	Description
DOL	Department of Labour
MIE	Master Installations Electrician
OHS Act	Occupational Health & Safety Act
TCC	Time Current Characteristics
TET	Technical Evaluation Team

2.5 ROLES AND RESPONSIBILITIES

- Engineering Manager. Kendal Engineering Manager shall ensure that the respective areas understand and adhere to this procedure
- Technical Evaluation Team (TET) Member The delegated engineers/technical specialists are responsible for review and evaluate technical aspects of the tender documentation Tender TET.

2.6 PROCESS FOR MONITORING

The design aspects will be monitored by conducting end of phase design reviews as described in the Eskom design review procedure at assessment completion

2.7 RELATED/SUPPORTING DOCUMENTS

[11] 240-53716746: Tender Technical Evaluation Report Template

[12] 240-53716712. Tender Technical Evaluation Results Form Template

[13] 240-53716726. Tender Technical Evaluation Scoring Form Template

[14] 240-53716769· Tender Technical Evaluation Strategy Template

3. TENDER TECHNICAL EVALUATION STRATEGY

3.1 TECHNICAL EVALUATION THRESHOLD

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 or not the criteria are met unless set otherwise An assessment of 'No' against any criterion shall technically disqualify the tenderer and shall not be further evaluated against Qualitative Criteria

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 as per Table 1 The minimum weighted final score (threshold) required for a tender to be considered from a technical perspective is **70%**.

Table 1: Qualitative Criteria Scoring

5	100	**COMPLIANT** • Meet technical requirement(s), AND • No foreseen technical risk(s) in meeting technical requirement
4	80	**COMPLIANT WITH ASSOTIATED QUALIFICATIONS** Meet technical requirement(s) with • Acceptable technical risk(s), AND/OR • Acceptable exceptions, And/OR • Acceptable conditions.
2	40	**NON-COMPLIANT** • Does not meet technical requirement(s), AND/OR • Unacceptable technical risk(s), AND/OR • Unacceptable exceptions, AND/OR • Unacceptable conditions.
0	0	**TOTALLY DEFICIENT OR NON-RESPONSIVE**
• Note 1. The scoring table does not allow scoring of 1 and 3 • Note 2. Foreseen acceptable and unacceptable risk(s), exceptions and conditions shall be unambiguously defined in the relevant Tender Evaluation Strategy		

3.2 TET MEMBERS

Table 1 below lists the TET members

Table 2: TET Members

TET number	TET Member Name	Designation
TET 1	Ntobeko Mthembu	System Engineer
TET 2	Tose Tose	Senior Engineer
TET 3	Sandile Mzimela	Senior Technician

3.3 MANDATORY TECHNICAL EVALUATION STRATEGY

Table 3: Mandatory Technical Evaluation Strategy

	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for use of Criteria
1	The supplier to complete Schedule B for all stipulated Heater elements (Product to comply with Eskom specifications) and also provide storage procedure for each type of elements		

3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Table 4: Qualitative Technical Evaluation Criteria

REQUIREMENT	WEIGHTED SCORE (%)	REMARKS	SCORING	GUIDELINE
Supplier Requirements	20	The supplier to submit detailed test procedures for each type of the required elements and include test certificate samples for each type of the required elements.	5	All stipulated information supplied (procedure and certificate)
			4	Some information supplied (certificates and procedures)
			2	Procedure or Certificate supplied
			0	No response
	15	The supplier to provide signed warranty agreement in the supplier's letterhead for each type of the elements indicating the following information. - While the elements are in storage. - While the elements are in service.	5	12+ months warranty (storage & service)
			4	Less than 12 months in storage but more than 12 in service warranty
			2	Less than 12 months in storage but no in-service warranty.
			0	No warranty during service and storage
	15		5	100% of Data sheets for listed elements supplied

		The supplier to submit detailed Data Sheets of each type of the elements indicating dimensions and material compositions.	4	Less than 100% but greater than 50% of listed elements supplied
			2	Less than 50% but more than 0%
			0	No submission or irrelevant datasheets
	25	The supplier to provide lead times (number of weeks) for each type of the elements.	5	Less than 6 weeks
			4	More than 6 weeks but less than 10 weeks
			2	More than 10 weeks
			0	No lead committed
	25	Suppliers to provide traceable references of previous ten (10) purchase orders on supply and delivery of industrial heater elements	5	10 or more references
			4	4 to 9 references
			2	Less than 4 but more than 0 references
			0	No references

Table 5: TET Member Responsibilities

Mandatory Criteria Number	TET 1	TET 2	TET 3		
1	None				
Qualitative Criteria Number	**TET 1**	**TET 2**	**TET 3**		
1 1	X	X	X		
1.2	X	X	X		
1 3	X	X	X		
1 4	X	X	X		
1.5	X	X	X		
1 6	X	X	X		
1 7	X	X	X		

4. AUTHORISATION

This document has been seen and accepted by

Name & Surname	Designation
Remember Sigawuke	Kendal Electrical Engineering Manager
Phindile Takane	Kendal Engineering Manager
Nathi Mkhize	Kendal System Engineer
Sandile Mzimela	Kendal Senior Technician
Msizi Zulu	Kendal System Engineer
Philasande Zwane	Kendal System Engineer

5. REVISIONS

Date	Rev.	Compiler	Remarks
June 2025	0	Ntobeko Mthembu	Final document for signature

6. DEVELOPMENT TEAM

The following people were involved in the development of this document

- Ntobeko Mthembu
- Nathi Mkhize

7. ACKNOWLEDGEMENTS

N/A

Heaters		
Rated kW : 12		
Connection type : delta		
Material :Protenax		
Rated Voltage : 380Vac		
Rated Frequency : 50hz		
Element resistance :45 ohms		
Element diameter : 15mm		
Element length : 2.5m		
Element control method : thermostat		
Element application : ash hoppers		