Eskom	Strategy	Kusile Power Station

Title: **Kusile Power Station Tender Technical Evaluation Strategy Provision of Boiler tube manipulations or bending for Five (5) years period**

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1. Introduction

A technical evaluation is a critical activity performed by engineers / technical specialists in accordance with Eskom Procurement and Supply Chain Management Policy (32-1033) and Eskom Procurement and Supply Management Procedure (32-1034) during the tender process.

The process to be followed in performing technical evaluations during the tender evaluation process must be consistent throughout Eskom Engineering.

This document shall ensure that a consistent, fair, transparent, impartial and auditable process is followed to identify the highest technically ranked tenderer for Kusile Power Station boiler pipe and tube bending contract.

2. Supporting Clauses

2.1 Scope

This document describes the technical evaluation criterion, team members and requirements for Kusile Power Station boiler pipe and tube bending.

2.1.1 Purpose

The purpose of this document is to provide a consistent approach to processes and principles to be followed when technically evaluating refractory removal and replacement contract tenders; responsibilities of individuals and reporting requirements by defining the Mandatory Evaluation Criteria, Qualitative Evaluation Criteria and TET member responsibilities for the evaluation. The technical evaluation strategy serves as basis for the tender technical evaluation process.

2.1.2 Applicability

This document shall apply to Kusile Power Station’s Boiler Engineering, Boiler Maintenance, Operating, Outages and Projects departments.

2.1.3 Effective Date

The authorisation date is the effective date of this report.

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] 240-168966153: Generation Technical Tender Evaluation Procedure Rev 1

[2] 240-44682850: PCM - Provide Engineering During Project Sourcing

[3] 2-1033: Eskom Procurement and Supply Chain Management Policy

[4] 32-1034: Eskom Procurement and Supply Management Procedure

[5] 240-83539994: Standard for Non-Destructive Testing (NDT) on Eskom Plant.

2.2.2 Informative

[6] 474-59: Internal Audit Procedure

[7] ISO 9001 Quality Management Systems

2.3 Definitions

Definition	Explanation
Enquiry	A competitive or non-competitive request for information, interest, quotations or proposals made to a supplier, a group of suppliers or the market at large.
Tender	A tender refers to an open or closed competitive request for quotations / prices against a clearly defined scope / specification.

2.3.1 Classification

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

2.4 Abbreviations

Abbreviation	Explanation
TET	Technical Evaluation Team
GO	General Overhaul
IR	Interim Repair
CIDB	Construction Industry Development Board
CV	Curriculum Vitae
EDWL	Engineering Design Work Lead
GM	General Manager
GMAW	Gas Metal Arc Welding
GTAW	Gas Tungsten Arc Welding
HP	High Pressure
LDE	Lead Discipline Engineer
LP	Low Pressure
NDT	Non-Destructive Testing
SANAS	South African National Accreditation System
SME	Subject Matter Expert
SOW	Scope of Work

2.5 Roles And Responsibilities

a. **Engineering Manager**: Is responsible for ensuring that all staff, in their respective areas understand and adhere to this tender technical evaluation strategy.

b. **Plant Engineer**: The engineer is responsible to manage the execution and adherence to the Tender Technical Evaluation procedure and strategy.

c. **Technical Evaluation Team (TET) member**: Is responsible to review and evaluate technical aspects of the tender documentation as per the Tender Technical Evaluation Strategy.

2.6 Process For Monitoring

This strategy shall be monitored by 474-59: Internal Audit Procedure & 2-1033: Eskom Procurement and Supply Chain Management Policy.

2.7 Related/Supporting Documents

[1] 240-53716746: Tender Technical Evaluation Report Template

[2] 240-53716712: Tender Technical Evaluation Results Form Template

[3] 240-53716726: Tender Technical Evaluation Scoring Form Template

[4] 240-53716769: Tender Technical Evaluation Strategy Template

3. Tender Technical Evaluation Strategy

3.1 Technical Evaluation Threshold

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

3.2 TET Members

Table 1: TET Members

3.3 Mandatory Technical Evaluation Criteria

Mandatory Technical Evaluation Criteria (gatekeepers) are 'must meet' criteria. If any one of the criteria is not met, the tenderer will be automatically disqualified and shall not be further evaluated against Qualitative Criteria.

Table 2: Mandatory Technical Evaluation Criteria

	Mandatory Technical Criteria Description	**Reference to Technical Specification / Tender Returnable**	**Motivation for use of Criteria**
1.	The service provider needs to be ISO 383 Part 2 certified.	The service provider is to provide proof of valid ISO 3834 Part 2 certificate.	This is to demonstrate the capability of the service provider to meet quality requirements for the service.
2.	The service provider has approved Eskom procedures for Non-Destructive Testing (NDTs).	The service provider is to provide proof of approved procedures for: a. Ultrasonic testing b. Radiographic testing c. Penetrant testing d. Magnetic testing e. Ovality checks All five procedures need to be submitted for full compliance.	This is to demonstrate the ability of the service provider to execute the scope of work using approved procedures.

3.4 Qualitative Technical Evaluation 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.

Table 3: Qualitative Technical Evaluation Criteria

	Qualitative Technical Criteria Description	**Reference to Technical Specification / Tender Returnable**	**Scoring**

1	**Pipe Fitters x 2:** • Qualification: Pipe fitter Trade Test or/ CAT Pipe fitter certificate, plus experience as mechanical.	Submit certified copies of pipe fitter trade test or /CAT Pipe fitter certificate and CV/s with traceable references. The CV should include years of experience in pressure piping per pipe fitter. a. 5 points (100% of 25) for 5 years and greater years of experience & all documentation submitted (Full Compliance) b. 4 points (80% of 25) for between 3-4 years' experience (Partial Compliance) c. 2 points (40% of 25) for less than 2 years' experience (Submitted but not adequate) d. 0 points for no related experience or no proof submitted.	25%
2	**Welders x 2 (1x GTAW and 1x GMAW)** • Welders need to be qualified according to Eskom Standard 240-106628253	Submit certified copies of welding processes training and CV/s with traceable references. The CV should include years of experience in pressure piping per welder. a. 5 points (100% of 25) for 5 years and greater years of experience & all documentation submitted (Full Compliance). b. 4 points (80% of 25) for between 3-4 years' experience (Partial Compliance). c. 2 points (40% of 25) for less than 2 years' experience (Submitted but not adequate). d. 0 points for no related experience or no proof submitted.	25%
3	**Bending Machine Operator x 2**	Submit CV/s with traceable reference and the CV should include years of experience in pressure piping per bending machine operator. a. 5 points (100% of 20) for 5 years and greater years of experience (Full Compliance). b. 4 points (80% of 20) for between 3-4 years' experience (Partial Compliance). c. 2 points (40% of 20) for less than 2 years' experience (Submitted but not adequate). d. 0 points for no related experience or no proof submitted.	20%
4	**Swaging Machine Operator x 2**	Submit CV/s with traceable reference and the CV should include years of experience in pressure piping per swaging machine operator. a. 5 points (100% of 20) for 5 years and greater years of experience (Full Compliance). b. 4 points (80% of 20) for between 3-4 years' experience (Partial Compliance).	20%

		c. 2 points (40% of 20) for less than 2 years' experience (Submitted but not adequate). d. 0 points for no related experience or no proof submitted	
5	**Number of contracts awarded in relation to high-pressure pipe/tube bending scope of work.**	Submit copy/proof of the previous or existing contract or order/ referral letter of intent or appointment letter from the previous employer. a. Greater than 3 contracts/orders scores 5 points (100% of 10). b. 1-3 contracts/orders scores 4 points (80% of 10). c. Less than 1 contract/order scores 2 points (40% of 10). d. No previous contracts or no proof submitted scores 0 points (non-responsive).	10%
	Total		100%

3.5 TET Member Responsibilities

Table 4: TET Member Responsibilities

Mandatory Criteria Number	TET 1	TET 2	TET 3
1	X	X	X
2	X	X	X
3	X	X	X
4	X	X	X
5	X	X	X
Qualitative Criteria Number	**TET 1**	**TET 2**	**TET 3**
1	X	X	X
2	X	X	X
3	X	X	X
4	X	X	X
5	X	X	X

3.6 Foreseen Acceptable / Unacceptable Qualifications

3.6.1 Risks

Table 5: Acceptable Technical Risks

Risk	Description
1.	Some information is missing, but the information missing is not important

Table 6: Unacceptable Technical Risks

Risk	Description
1.	All mandatory requirements not achieved will results in immediately disqualification (no further technical evaluation)
2.	No information and / or proof of requirements is provided

3.6.2 Exceptions / Conditions

Table 7: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	None

Table 8: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	Bidders not meeting the mandatory requirements will be automatically disqualified.

4. Acceptance

This document has been seen and accepted by:

5. Revisions

6. Development Team

7. Acknowledgements

None