Eskom	Strategy	Engineering

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Compiled by	Functional Responsibility	Authorised by
……	……	……
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Boiler Plant Engineer	**Boiler Engineering Manager**	**Engineering Manager**
Date: 09/11/2023	Date: 13/11/2023	Date: 13/11/2023

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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 Camden Power Station boiler pipe and tube bending.

2. SUPPORTING CLAUSES

2.1 SCOPE

This document describes the strategy for the technical evaluation of tenders for Camden Power Station 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 boiler pipe bending contract tenders; responsibilities of individuals and reporting requirements by defining 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

The document is applicable to Camden Power Stations' Boiler Engineering, Boiler Maintenance, Operating, Outages and Projects departments

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

2.2.2 Informative

[1] 474-59: Internal Audit Procedure

[2] ISO 9001 Quality Management Systems

2.3 DEFINITIONS

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	Description
CPS	Camden Power Station
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
TET	Technical Evaluation Team

2.5 ROLES AND RESPONSIBILITIES

- **Engineering Manager:** Is responsible for ensuring that all staff, in their respective areas understand and adhere to this procedure.
- **Plant Engineer:** The engineer is responsible to manage the execution and adherence to the Tender Technical Evaluation procedure and strategy.
- **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 TECHNCIAL 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

TET number	TET Member Name	Designation
TET 1	Michelle Nchabeleng	Boiler Engineer
TET 2	Itani Manenzhe	Boiler Risk Engineer
TET 3	Charlene Naicker	Boiler Senior Engineer
TET 4	Mlungisi Makhaya	Senior Welding Supervisor
TET 5	Ntokozo Sibiya	C&I Senior Engineer
TET 6	Jacques Kruger	Turbine Senior Engineer

3.3 MANDATORY TECHNICAL EVALUATION 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 3834 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: • Ultrasonic testing • Radiographic testing • Penetrant testing • Magnetic testing All three 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.	The service provider has a procedure in place for ovality checks.	The service provider is to provide proof of approved procedure for ovality checks.	This is to demonstrate the ability of the service provider to execute the scope of work using approved procedures and compliance to BS EN 12952-5.
4.	The service provider needs to be CIDB Grading 7 ME registered.	The service provider is to provide proof of valid CIDB grading certificate.	This is to ensure that there is proof of past projects in the works, financial and general compliance

5.	Site Visit & Demonstration Pass (YES/NO) *Site visits will be carried out on service Provider/s who pass Points 1-4 of the mandatory criteria and who score the highest in the qualitative criteria to conclude the mandatory criteria. **Detailed inspections will be carried out to assess if all required equipment are available at the workshop together with appropriate storage and transport facilities. The supplier will be requested to perform a demonstration to prove competence in executing the scope.

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 for Boiler Pipe Bending Contract

Technical Evaluation Criteria for Pipe/Tube Bending at Camden Power Station			
Description		**Deliverable**	**Subtotal**
	Resources		
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. • 5 points for 5 years and greater years of experience & all documentation submitted (Full Compliance) • 4 points for between 3-4 years' experience (Partial Compliance) • 2 points for less than 2 years' experience (Submitted but not adequate) • 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. • 5 points for 5 years and greater years of experience & all documentation submitted (Full Compliance). • 4 points for between 3-4 years' experience (Partial Compliance). • 2 points for less than 2 years' experience (Submitted but not adequate). • 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. • 5 points for 5 years and greater years of experience (Full Compliance). • 4 points for between 3-4 years' experience (Partial Compliance). • 2 points for less than 2 years' experience (Submitted but not adequate).	20%

		• 0 points for no related experience or no proof submitted.	
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. • 5 points for 5 years and greater years of experience (Full Compliance). • 4 points for between 3-4 years' experience (Partial Compliance). • 2 points for less than 2 years' experience (Submitted but not adequate). • 0 points for no related experience or no proof submitted.	20%
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. • Greater than 3 contracts/orders scores 5 points (Full Compliance). • 1-3 contracts/orders scores 4 points (Partial Compliance). • Less than 1 contract/order scores 2 points (Submitted but not adequate). • 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	TET 4	TET 5	TET 6
1.	X	X	X	X	X	X
2.	X	X	X	X	X	X
3.	X	X	X	X	X	X
Mandatory Criteria Number	**TET 1**	**TET 2**	**TET 3**	**TET 4**	**TET 5**	**TET 6**

4.	X	X	X	X	X	X
5.	X	X	X	X	X	X
Qualitative Criteria Number	**TET 1**	**TET 2**	**TET 3**	**TET 4**	**TET 5**	**TE6**
1.	X	X	X	X	X	X
2.	X	X	X	X	X	X
3.	X	X	X	X	X	X
4.	X	X	X	X	X	X
5.	X	X	X	X	X	X

4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation	Signature
Charlene Naicker	Boiler Senior Engineer	
Mlungisi Makhaya	Senior Welding Supervisor	
Ntokozo Sibiya	C&I Senior Engineer	
Jacques Kruger	Turbine Senior Engineer	
Itani Manenzhe	Boiler Risk Engineer	13/11/2023

5. REVISIONS

Date	Rev.	Compiler	Remarks
November 2023	01	M Nchabeleng	Original Issue

6. DEVELOPMENT TEAM

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

Nchabeleng Michelle

7. ACKNOWLEDGEMENTS

Charlene Naicker