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: 06/08/2024	Date: 06/08/2024	Date: 07/08/2024

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TABLES

1. INTRODUCTION

A technical evaluation is a critical activity performed by engineers / technical specialists by 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 tubing.

2. SUPPORTING CLAUSES

2.1 SCOPE

This document describes the strategy for the technical evaluation of tenders for Camden Power Station boiler tubing.

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 tubing 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 the basis for the tender technical evaluation process.

2.1.2 Applicability

The document applies 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] 32-1034: Eskom Procurement and Supply Management Procedure

[3] 240 -87733094 Procurement of Seamless Steel High Pressure Pipe Work and Boiler Tubing Material Standard in the Generation Rev 3.

[4] BS EN 10204: Metallic Products – Types of Inspection Documents

[5] BS En 12952: Water-Tube Boilers

[6] EN 10216: Seamless steel tubes for pressure purposes

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
GM	General Manager
HP	High Pressure
LDE	Lead Discipline Engineer
LP	Low Pressure
NDT	Non-Destructive Testing
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	Velaphi Vilakazi	Snr Boiler Engineer
TET 3	Sydney Tshalane	Outage Coordinator
TET 4	Mlungisi Makhaya	Senior Welding Supervisor
TET 5	Thabo Aphane	Senior Engineer
TET 6	Lindani Meyiwa	Site Rep Metallurgist

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.	EN Materials: A valid (and current) certificate of conformity by a Third Party/Notified Body (in accordance with EN 764-5 (Clause 4) or AD 2000-Merkblatt W 0). This certificate should be accompanied by the Appendices containing all material, size ranges and harmonised standards approved. Where CE marking is available, the EU declaration of conformity for each product type (material grades and dimensions) tendered for must be included.	The manufacturer is to provide a valid or current PED Third Party/Notified Body certification (as contemplated in EN 764-5 Clause 4, including appendices indicating materials and sizes approved.	To ensure that all manufacturing process refer to the national/international standards to which it is drawn up from and the manufacturer is authorised by an accredited body to produce tubes.
2.	Declaration of full compliance to Eskom Standard 240-87733094 Rev 3 on all finished products. Note: Deviations to the standard must be submitted as concessions and agreed on by both parties during tender negotiations.	The manufacturer is to provide signed declaration for compliance to Certification as per 240-87733094 Rev 3.	To ensure that all manufacturer adheres to Eskom requirements.
3.	Site Visit & Audit Pass (YES/NO) Site visits will be conducted for manufacturers that meet Points 1-2 of the mandatory criteria and have the highest scores in the qualitative criteria. The purpose is to evaluate whether all necessary equipment is available at the manufacturing plant and if it has suitable storage and transport facilities. Material cannot be manufactured elsewhere without written approval from Eskom.		

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 Tubing Contract

Technical Evaluation Criteria for Boiler Tubing at Camden Power Station			
Description		**Deliverable**	**Subtotal**
	Resources		
1.	**Details of the Manufacturing plant** Please provide the following details for your manufacturing plant: 1. Formal business name of the manufacturing plant 2. Street and postal address 3. Contact names and telephone numbers of senior plant managers, along with their organizational roles The manufacturing plant is the site of manufacturing, inspection, testing, and release. If any of these activities are carried out at a different location or facility, please clearly disclose this in the tender submission. Include the scope of activities that will be done at different plant locations and provide the same information for the plant or site where other activities will be performed.	**The assessment criteria for the details of the manufacturing plant are as follows:** - 5 points for full compliance: Details of manufacturing plant showing physical and postal address, contact names, telephone numbers of senior plant managers, and organizational structure. - 4 points for partial compliance: Details of manufacturing plant showing physical and postal address, contact names, and telephone numbers of senior plant managers, but no organizational structure. - 2 points for submission, but not adequate: Details of manufacturing plant showing physical and postal address, but no contact names, telephone numbers of senior plant managers, and organizational structure. - 0 points for not submitting details of the manufacturing plant.	15%
2.	**History of Previous Supply** Please provide a list of materials previously manufactured at the plant that are related to the materials required for	The service provider is to submit a copy or proof of the previous or existing contract, order, referral letter of intent, or appointment letter from the previous employer.	20%

	the tender. This list should include contact details of the end users, dates of delivery, material grade, dimensions, harmonized standards applied, and tonnage.	○ Having more than 3 contracts or orders will score 5 points (Full Compliance) ○ Having 1-3 contracts or orders will score 4 points (Partial Compliance). ○ Having less than 1 contract or order will score 2 points (Submitted but not adequate). ○ If there are no previous contracts or no proof submitted, it will score 0 points (non-responsive).	
3	**Steel Making Process** • Please provide Eskom with a brief technical description of your steel-making process to ensure the production of "clean" steel. Only fully killed steels will be acceptable to Eskom. • Material manufacturers must provide details of all raw material suppliers, as well as relevant certification of or current ISO 9001 certificates or comprehensive quality manuals (where an ISO 9001 certificate is not available). This information should be included in the tender returnable documents.	Submit details of the steel-making process, highlighting the quality control process for scrap material handling and raw materials examination, sampling points of heats, refining process, casting methods, hot processing, cold processing (if applicable), and final quality inspection of defects finished products. **Points will be allocated as follows:** • 5 points for full compliance with documentation submitted. • 2 points for details of the steel-making process with insufficient quality control layout of scrap material examination methods, refining methods, sampling points for heats, and control of quality during the samples. • No details of the manufacturing process will result in 0 points.	25%
4	**Heat treatment** Suppliers must provide a brief description of the heat treatment facilities and procedures to demonstrate how the heat treatment will be controlled within parameters/requirements. Evidence in the form of the latest heat treatment survey of the facilities should be submitted. All calibration certificates and procedures must be made available for review by Eskom during planned site visits.	Submit proof of current calibration certificates and procedures to demonstrate how heat treatment will be controlled within parameters. **Scoring:** • 5 points for submitting all documentation (Full Compliance) • 2 points for submitting one documentation (Submitted but not adequate) • 0 points for not submitting any documentation.	25%

5	**Certification** Supplier to indicate that the material will be delivered with EN 10204 3.2 Certificate.	Signed declaration submitted = 5(Full Compliance) Non-responsive = 0 (No documented submitted)	15%
	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
Qualitative 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
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
Velaphi Vilakazi	Boiler Senior Engineer
Mlungisi Makhaya	Senior Welding Supervisor
Sydney Tshalane	Outage Coordinator
Thabo Aphane	Senior Engineer
Lindani Meyiwa	Site Metallurgist
Johanp Pretorius	Boiler Pressure Parts Specialist
Andrew Downes	Chief Metallurgist

5. REVISIONS

Date	Rev.	Compiler	Remarks
July 2024	00	M Nchabeleng	Draft
August 2024	01	M Nchabeleng	Final Document

6. DEVELOPMENT TEAM

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

Nchabeleng Michelle

7. ACKNOWLEDGEMENTS

N/A