Eskom	Strategy	Majuba Power Station

Title: **Tender Technical Evaluation Strategy for Mill Windbox Liner Spares at Majuba Power Station**

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Compiled by	Functional Responsibility	Authorized by
E MOOSA		
Ebrahim Moosa	**Lindani Madonsela**	**Johan Swanepoel**
Milling Plant System Engineer	**Boiler Engineering Manager**	**Middle Manager Engineering**
Date: 25/06/2024	**Date:** 02/07/2024	**Date:** 2024/07/03

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Tables

1. Introduction

The purpose of this document is to outline the scope of work that is required for the supply and delivery of mill windbox liners to Majuba Power Station, and the technical evaluation strategy to be followed in placing a contract for acquiring such spares.

2. Supporting Clauses

2.1 Scope

The scope of work entails and the supply and delivery of mill windbox liners to Majuba Power Station located in Mpumalanga, Amersfoort.

2.1.1 Purpose

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

2.1.2 Applicability

This document shall apply to all relevant stakeholders at Majuba Power Station, who are involved with the technical tender evaluation process for the milling plant maintenance contract.

2.1.3 Effective date

This document is effective from the authorisation date.

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 (Rev1)

[2] ISO 9001 Quality Management Systems

[3] 32-1034: Eskom Procurement and Supply Chain Management Procedure

[4] 32-1033: Eskom's Procurement and Supply Chain Management Policy

[5] 474-13180 Mills and Coal Burners Group Technology Strategic Report 2024 (Rev 1)

2.2.2 Informative

[1] Majuba Power Station – Boiler Manuals – Volume 6 – HF Milling Plant

2.3 Definitions

Definition	Description

2.3.1 Classification

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

2.4 Abbreviations

Abbreviation	Explanation
CIDB	Construction Industry Development Board
ISO	International Organization for Standardization
KPA	Key Performance Area
KPI	Key Performance Indicator
QCP	Quality Control Plan
TET	Technical Evaluation Team
UCLF	Unplanned Capability Loss Factor

2.5 Roles and Responsibilities

As per 240-168966153: Generation Technical Tender Evaluation Procedure

2.6 Process for Monitoring

N/A

2.7 Related/Supporting Documents

N/A

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 80%.

N.B. The deviation from procedure is motivated by the fact that the milling plant is a Level 1 plant area. It is recommended to make the threshold for Level 1 plant 80% due to the risk in plant damages, personnel safety and the high repair cost involved. The milling plant maintenance strategy states that the minimum threshold is 80% and not 70% as stated in the Tender Technical Evaluation Procedure due to the criticality of the plant area.

During the first round of evaluations, in the event that no tenderers meet the 80% criteria, but some pass the 70% threshold, the findings are to be reviewed and the minimum threshold shall be reduced to 70% upon agreement of the TET members and commercial representative.

3.2 TET Members

Table 1: TET Members

TET number	TET Member Name	Designation
TET 1	Ebrahim Moosa	System Engineer: Boiler Engineering
TET 2	Bonginkosi Dlamini	Senior Engineer: Boiler Engineering
TET 3	Mhlengi Mdunge	System Engineer: Boiler Engineering
TET 4	Lindani Madonsela	Line Manager: Boiler Engineering
TET 5	Joseph Selialia	Line Manager: Boiler Maintenance
TET 6	Dimakatso Thobejane	Senior Supervisor Technical Maintenance

3.3 Criteria

3.3.1 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.	Quality Management	ISO 9001:2015 Certificate which is active and valid.	Quality management is crucial in the execution of the maintenance work.
2.	Capability to supply mill windbox liners	The supplier to provide a letter to prove the capability of machinery/ equipment to laser cut and drill hard wearing material similar to the windbox liners. The machinery must be able to work with materials up to 500 Brinell Hardness. If the supplier does not directly possess such equipment, a letter stating an agreement with a company that has the necessary equipment will be acceptable, provided there is an agreement to utilise the company possessing the necessary equipment.	The material to be worked with is of high hardness which requires special equipment.
3.	Previous experience of supplying hard wearing material of similar hardness to the windbox liners	Submit proof of previous traceable orders/ contracts that were fulfilled in the past 5 years.	To prove that the contractor has previously worked with similar materials.

3.3.2 Qualitative Technical Evaluation Criteria

Table 3: Qualitative Technical Evaluation Criteria for Part 1

	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
1.	Ability of company to execute			**50**	
	1.1	Previous experience of supplying hard wearing material	Soft copies of previous traceable orders/contracts for supply of hard wearing materials.	0 (0%) No response received 2 (40%) 1 order/contract provided. 4 (80%) 3 orders/contracts provided. 5 (100%) 5 orders/contracts provided.	25
	1.2	Proven track record in terms of delivering on the corresponding orders indicating the lead time.	Corresponding delivery notes for the delivery of the orders that were referenced in criteria 1.1 above.	0 (0%) No response received 2 (40%) 1 delivery note provided. 4 (80%) 3 delivery notes provided. 5 (100%) 5 delivery notes provided.	25
	1.3	Proposed lead time for delivery of a single set of windbox liners from order placement to delivery at Majuba Power Station.	A timeline provided with the duration for the total process from order placement to delivery to site. The timeline must include in detail how the committed time will be met by including the lead time from the manufacturer of the liners.	0 (0%) No response received 2 (40%) >10 weeks lead time. 4 (80%) 6-10 weeks lead time. 5 (100%) <6 weeks lead time.	50

	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
2.	Quality			**40**	
	2.1	Provide a detailed QCP for the process of cutting and drilling of the plates.	The QCP must include the cutting and drilling together with the acceptable tolerances to which the liner will comply to.	0 (0%) No response received 2 (40%) Only cutting/drilling included. 4 (80%) Cutting and drilling included. 5 (100%) Cutting, drilling and tolerances included.	40
	2.2	Provide a complete data book for the delivery of previous similar orders.	A copy of a complete data book for the delivery of a previous similar order which includes the QCP together with all the material certifications and order number. The data book should be signed off and accepted by the customer.	0 (0%) No response received 2 (40%) only 1 of QCP, material certificate, drawing and method statement included. 4 (80%) only 2 of QCP, material certificate, drawing and method statement included. 5 (100%). QCP, material certificate, drawing and method statement included.	40
	2.3	Prove that the supplier is capable of supplying the liners by providing a material certificate for the liners to be supplied.	Material certificate together with a letter proving the supplier has an agreement to purchase from the manufacturer of the material. In the case where the supplier is getting the material from a third party, such would also be acceptable provided the third party has the necessary agreement.	0 (0%) No response received 2 (40%) only 1 of material certificate or letter of agreement included. 4 (80%) material certificate and letter of agreement with 3rd party included.	20

	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
				5 (100%) material certificate and letter of agreement direct with the manufacturer included.	
3.	Workshop capability			**10**	
	3.1	Workshop assessment to measure the capability of the supplier.	Workshop visit of the supplier to evaluate all equipment to be utilised for the works.	0 (0%) No response received 2 (20%) all equipment must be in a working condition during time of the workshop assessment (including power) 4 (80%) all equipment to be used is available and capable of executing the works, together with no calibration certificates. 5 (100%) all equipment to be used is available and capable of executing the works, together with the calibration certificates.	100
				TOTAL: 100	

3.3.3 TET Member Responsibilities for Part 1

Table 4: TET Member Responsibilities for Part 1

Mandatory Criteria Number	TET 1	TET 2	TET3	TET4	TET5	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**	**TET3**	**TET4**	**TET5**	**TET 6**
1.1	X	X	X	X	X	X
1.2	X	X	X	X	X	X
1.3	X	X	X	X	X	X
2.1	X	X	X	X	X	X
2.2	X	X	X	X	X	X
2.3	X	X	X	X	X	X
3.1	X	X	X	X	X	X

3.4 Foreseen Acceptable/ Unacceptable Qualifications

3.4.1 Risks

Table 5: Acceptable Technical Risks

Risk	Description
1.	Tenderers do not meet 80% evaluation score but have a score above 70%

Table 6: Unacceptable Technical Risks

Risk	Description
1.	No workshop capability.
2.	No previous experience supplying similar materials.
3.	No supply agreements with manufacturers of the materials.

3.4.2 Exceptions/ Conditions

Table 7: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	During the first round of evaluations, in the event that no tenderers meet the 80% criteria, but some pass the 70% threshold, the findings are to be reviewed and the minimum threshold shall be reduced to 70% upon agreement of the TET members and commercial representative.

Table 8: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	None

4. Acceptance

This document has been seen and accepted by:

Name	Designation
E Moosa	Milling Plant System Engineer
M Mdunge	Milling Plant System Engineer
B Dlamini	Boiler Senior Engineer
Scelo Dlamini	Senior Supervisor Technical Maintenance
Dimakatso Thobejane	Senior Supervisor Technical Maintenance
Thami Mtetwa	Senior Supervisor Technical Maintenance
J Selialia	Boiler Maintenance Line Manager
L Madonsela	Boiler Engineering Line Manager
J Swanepoel	Engineering Manager
H Pretorius	Generation Boiler Engineering – Snr Advisor
L Botha	SME – Milling Plant Generation Boiler Engineering

5. Revisions

Date	Rev.	Compiler	Remarks
May 2024	1	E. Moosa	First issue

6. Development Team

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

- E Moosa
- B Dlamini
- L Botha

7. Acknowledgements

N/A