Eskom	**Strategy**	**Kusile Power Station**

Title: **Kusile Power Station Tender Technical Evaluation Strategy for the provision of Fabrication, Rolling and Machining for a period of 5 years**

Document Identifier:

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Area of Applicability: **Kusile Power Station**

Functional Area: **Outage Management**

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Date:	Date:	Date:	Date:

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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.

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 Fabrication, Rolling and Machining services contract.

2. Supporting Clauses

2.1 Scope

This document describes the technical evaluation criterion, team members and requirements for Kusile Power Station Outage Fabrication, Rolling and Machining services.

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 Fabrication, Rolling and Machining services contract tenders; roles and 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 Outage Management, Engineering, Ops Commissioning, Quality and Maintenance 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
AIA	Approved Inspection Authority
TET	Technical Evaluation Team
ISO	International Organisation of Standardisation
SAIW	South African Institute of Welding
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
m^2	Square-meter (Area)
NDT	Non-Destructive Testing
PO	Purchase Order
SME	Subject Matter Expert
SOW	Scope of Work

2.5 Roles And Responsibilities

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

b. **Project Coordinator Technical**: The responsible end-user for scope planning and execution during the planning and execution phase of an outage.

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

d. **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

TET number	TET Member Name	Designation
TET 1		Snr Advisor Outage Coordination: Turbine and Generator Plants
TET 2		Snr Advisor Outage Coordination: Boiler Plant
TET 3		Manager Planning & Scheduling

3.3 Mandatory Technical Evaluation Criteria

Mandatory Technical Evaluation Criteria (gatekeepers) are a '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.	ISO 3834 – 2 (SAIW Certification)	The contractor must attach evidence/proof of ISO 3834 – 2 Quality requirements for fusion welding of mettalic materials certification.	Components fabricated and welded, will be installed in level 1 and 2 plant (critical), and require certification to ensure they are welded/fabricated to the correct standard
2.	ISO 9001 Certification	The Contractor must provide evidence/proof of ISO 9001: 2015 Certification	This is to ensure that the contractor has a quality management system in place to execute the works in accordance with the industry best practice(s).

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 CriteriaTET Member Responsibilities

<table>
<tr><th>Item</th><th>Technical Criteria Description</th><th>Reference to Technical Specification/Tender Returnable</th><th>Weight</th></tr>
<tr><td>1</td><td>Company Experience providing in machining and fabrication services: 3 years and above</td><td>Submit copies of Purchase Orders/Contracts dating back to 2022 or prior (PO’s may be internal or external to Eskom). Provide Delivery Notes/Completion certificates for all the services provided to customers/completion certificates

<table><tr><th>Years of Experience</th><th>Percentage score</th></tr><tr><td>More than 5 years</td><td>100%</td></tr><tr><td>4 – 5 Years</td><td>80%</td></tr><tr><td>3 – 4 Years</td><td>60%</td></tr><tr><td>1 – 2 Years</td><td>40%</td></tr><tr><td>0 Years</td><td>0%</td></tr></table></td><td>20%</td></tr>
<tr><td>2</td><td>Company Workshop Facilities for Off-site Fabrication, Rolling and Machining</td><td>Workshop with overhead crane(s), work benches and dedicated areas for sandblasting, fitting, fabrication, milling, turning, rolling.
<table><tr><th>Workshop Description</th><th>Percentage score</th></tr></table></td><td>30%</td></tr>
</table>

<table>
<tr>
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<table>
<tr><td>2000 m^{2,} 5000 m^2 laydown area workshop with dedicated plate-shop, fitting shop, machine shop sandblasting booth, work benches and 2x 30 Ton overhead crane or bigger.</td><td>100%</td></tr>
<tr><td>1000 m^2 2000 m^2 laydown area workshop with dedicated plate-shop, fitting shop, machine shop sandblasting booth, work benches and 2x 20 Ton overhead crane.</td><td>80%</td></tr>
<tr><td>700 m^2 workshop with dedicated plate-shop, fitting shop work benches and 1x 20 Ton overhead crane.</td><td>60%</td></tr>
<tr><td>500 m^2 workshop with dedicated plate-shop, fitting shop work benches and 1x 15 Ton overhead crane/mobile crane.</td><td>40%</td></tr>
<tr><td>No Workshop</td><td>0%</td></tr>
</table>
NB: Workshop/site visit will be mandatory as part of the evaluation.
</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Company Machinery and Equipment</td>
<td>
Workshop machinery and equipment specifications required to perform the service (ownership/lease agreement to be provided).
<table>
<tr><th>Machinery/Equipment Description</th><th>Percentage score</th></tr>
<tr><td>CNC Lathes with 5m x 1m swing between centres.</td><td rowspan="3">100%</td></tr>
<tr><td>Conventional centre lathe (20 Ton load)</td></tr>
<tr><td>Horizontal floor boring CNC mill with X-4.8m, Y-4m, Z-0.7m)</td></tr>
</table>
</td>
<td>30%</td>
</tr>
</table>

		Conventional horizontal boring mills (X-2000, Y-1000, Z-1000mm, with 2m x 1.2m table			
		CNC Bending machine, working length 2m x 0.9m working height 135deg bending angle (5mm plate thickness)			
		Vertical Boring CNC Mill – Swing 5m x 3m height,			
		Convential Vertical Boring Mill 2.2m x 1.5m			
		CNC Lathe with 5m x 1m swings between centres	80%		
		Conventional centre lathe (10 Ton load)			
		Conventional horizontal boring mills (X-1500, Y-7000, Z-1000mm, with 1m x 0.6m table			
		Convential Vertical Boring Mill 2.2m x 1.5m			
		Conventional Bending machine, working length 2m x 0.9m working height 135deg bending angle (5mm plate thickness)			
		Conventional centre lathe (10 Ton load)	60%		
		Conventional horizontal boring mills (X-2000, Y-1000, Z-1000mm, with 2m x 1.2m table			

<table>
<tr><td></td><td></td><td><table>
<tr><td>Conventional horizontal boring mills (X-1500, Y-7000, Z-1000mm, with 1m x 0.6m table</td><td></td></tr>
<tr><td>No Machinery available</td><td>0%</td></tr>
</table></td><td></td><td></td></tr>
<tr><td>4</td><td></td><td>Submit a detailed methodology/method statement of how the tenderer shall supply and deliver the order to specification as per SOW, in accordance to the relevant ISO standards and Quality requirements. Sample method statements can be provided for fabrication of small and large bore pipe spools, Pipe supports, Ducting manufacturing, heat exchangers, Tanks and vessels, shafts and nozzles.<table>
<tr><th>Methodology Technical criteria</th><th>Percentage Score</th></tr>
<tr><td>The submitted detailed methodology covers entire scope of work and meet technical requirement(s), displays all the technical specifications, machining and welding standards, etc. At least five (5) method statements submitted.</td><td>100%</td></tr>
<tr><td>The submitted methodology contains sufficiently detailed with minor omissions, meets technical specification and acceptable technical risks identified. Submitted with moderate gaps and moderate risks identified. At least four (4) method statements submitted.</td><td>60%</td></tr>
</table></td><td>10%</td></tr>
</table>

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<table>
<tr><td>The submitted methodology displays insufficient details with regards to the fabrication, machining or rolling process of components. Limited knowledge displayed with major gaps and major risks identified. At least three (3) method statements submitted.</td><td>40%</td></tr>
<tr><td>No method statement submitted</td><td>0%</td></tr>
</table>
NB: Proof must be submitted in the form of Method Statement signed off by Quality Manager/Quality Lead/Engineer
</td>
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<tr>
<td>5</td>
<td></td>
<td>
Tenderer to submit sample Quality Control Plans (QCPs/ITPs) developed fabrication of small and large bore pipe spools, Pipe supports, Ducting manufacturing, heat exchangers, Tanks and vessels, etc. which have been approved reviewed and singed off.
<table>
<tr><th>Sample QCPs quantity and detail</th><th>Percentage score</th></tr>
<tr><td>Five (5) or more approved and signed off QCPs for previous work submitted related to scope of work.</td><td>100%</td></tr>
<tr><td>Three (3) or more approved and signed off QCPs for previous work submitted related to scope of work.</td><td>80%</td></tr>
<tr><td>Three (3) new QCPs for this scope work</td><td>40%</td></tr>
<tr><td>No QCPs submitted</td><td>0%</td></tr>
</table>
</td>
<td>10%</td>
</tr>
</table>

		NB: Proof must be submitted in the form of approved QCPs approved by Quality Engineer.	
TOTAL			**100%**

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

3.5 Foreseen Acceptable / Unacceptable Qualifications

3.5.1 Risks

Table 5: Acceptable Technical Risks

Risk	Description
1.	The missing information is omitted intentionally to avoid superfluous documentation and narrowing of scope.

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

3.5.2 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:

Full Name and Surname	Designation
	Snr Advisor Outage Coordination
	Outage Planning Manager
	Outage Execution Manager
	Outage Middle Manager

5. Revisions

Date	Rev.	Compiler	Remarks
September 2030	02	Mdu Ngwenya	Original document

6. Development Team

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

7. Acknowledgements

None