Eskom	Strategy	Kusile Power Station

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TABLES

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 supply of milling plant spares.

2. Supporting Clauses

2.1 Scope

This document describes the technical evaluation criterion, team members and requirements for Kusile milling plant spares contract tender technical evaluation.

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 throughout Kusile Power Station, and is more specific to the Boiler Engineering, Boiler Maintenance, Outages Department, Project Department and any contractor that will be involved in the execution of scope of work.

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: Tender Technical Evaluation Procedure

[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
CV	Curriculum Vitae
EDWL	Engineering Design Work Lead
GM	General Manager
LDE	Lead Discipline Engineer
MSDS	Material Safety Data Sheet
TET	Technical Evolution Team

2.5 Roles And Responsibilities

1) **Engineering Manager**: Is responsible for ensuring that all staff, in their respective areas understand and adhere to this tender technical evaluation strategy.
2) **Plant Engineer**: The engineer is responsible to manage the execution and adherence to the Tender Technical Evaluation procedure and strategy.
3) **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

N/A

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 **80%**. The threshold is set according to Tender Technical Evaluation Procedure (240-168966153).

3.2 Mandatory Technical Evaluation Criteria

Mandatory Technical Evaluation Criteria (gatekeepers) are 'must meet' criteria. These criteria shall not be weighed, or point scored but shall be assessed on a Yes/No basis as to whether or not the criteria are met. An assessment of 'No' against any criterion shall technically disqualify the tenderer 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.	Proof that the company owns a workshop or Service Level Agreement, that can manufacture critical milling components with 6m width and minimum 20Ton Overhead Crane capacity and that the company will only use the said workshop to provide the tendered components.	Proof of ownership of workshop (Municipal Bill/Statement) OR If building is rented: a letter from the building landlord needs to be submitted indicating that the building used as a workshop for the company that is tendering, and lease agreement should be longer than contract duration. Note: Site Visits or inspections to verify information will be conducted as part of assessment.	To ensure constant supply of quality components at most economical cost
2.	Accreditations	ISO 9001:2015 Certified (Provide valid certificate) ISO 3834 -2 Certified (Provide valid certificate)	Certifications demonstrate company's adherence to quality standards and industry best practices.
3.	Previous experience with regards to the major overhaul vertical spindle mills with a capacity throughput of 60Ton Per Hour and above in the power Generation plant or Similar industry or proof of subcontracting.	Similar services supplied to industry: Signed letter required stating milling plant services in industry containing traceable customer feedback, regarding the use and success of the services in industry.	To provide confidence level that the supplier can execute the scope

3.3 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	Criteria Weighting	Criteria Sub Weighting (%)
1.	**Details of Company / previous history of supply:**			**20**	**-**
	1.1	Company profile and Previous History of Milling Spares Supply	Previous History of Milling Spares with a capacity throughput of 60Ton Per Hour and above 1. Proven Experience in the Refurbishment, manufacturing of components or reverse engineering of components used in vertical spindle Mills. (a) A list of milling plant or complex equipment similar manufactured at the plant, with particular regard to the materials and sizes as part of the tender, shall be supplied. (b) This should include a reference list with verifiable contact details of the end users, dates of delivery, material grade, dimensions. **Attach the following as proof:** 1. Company Profile with Company record proving technical expert works undertaken and organogram depicting company resources and the following:	**-**	**20**

			2. Contract number or Task Order with SOW OR 3. Purchase/Task order number with SOW OR 4. Completion certificate with SOW (Note: Proof of milling plant components such as Casing, Classifier, Scrappers, Nozzles, Throat, Displacer Ring, Dam rings, Pendulums, Reject Gates etc. Or similar complex equipment's manufactured) **Scoring Criteria** 1. No Company Profile Submitted experience/proof provided **– 0%** 2. Consecutive/non-interrupted Experience of 1 to 5 yrs, 1-3 Orders/Contracts/Completion Certificate submitted **– 40%** 3. Consecutive/non-interrupted Experience of 5 to 7 yrs, 4-6 Orders/Contracts/Completion Certificate submitted **– 80%** 4. Consecutive/Non-Interrupted Experience of 7 yrs and above, 7 or more Orders/Contracts/Completion Certificate submitted **– 100%**		
2.	**Maintenance Capabilities**			**35**	

	2.1	Company Capabilities and Previous Milling Maintenance Experience.	Proven Experience in the Refurbishment of MPS265 or vertical spindle Mills with a throughput of 60Ton Per Hour and above. **Attach the following as proof:** Signed reference letter from power station or project client indicating mill availability/unavailability after completion of project or end of contract (clear demonstration of the EAF/UCLF for one FY as minimum) **8.** Company Profile with Company record proving technical expert works undertaken and organogram depicting company resources and following: **9.** Contract number or Task Order with SOW OR **10.** Purchase/Task order number with SOW OR 4. Completion certificate with SOW 5. Proof of subcontracting experience **Scoring Criteria** **11.** No Company Profile Submitted experience/proof provided – 0% **12.** Consecutive/Non Interrupted Experience of 1 to 2 yrs – 40% **13.** Consecutive/Non	-	**20**

			Interrupted Experience of 2 to 3 yrs – 70% **14.** Consecutive/Non Interrupted Experience of 3 to 5 yrs – 90% **15.** Consecutive/Non Interrupted Experience of 5 yrs and above – 100%		

	2.2	Previous Milling Maintenance Experience and Performance.	Proven Experience in the Refurbishment of MPS265 or vertical spindle Mills with a throughput of 60Ton Per Hour and above. **Attach the following as proof:** Signed reference letter from power station or project client indicating mill availability/unavailability after completion of project or end of contract (clear demonstration of the EAF/UCLF for one FY as minimum). **Scoring Criteria** UCLF of mills 1. 0% - 100% 2. 0,1% - 1% - 80% scoring 3. 1 % - 2 % - 60% scoring 4. 2 %- 3 % - 40% scoring 5. 3% - 4% - 20% scoring 6. 4 % -5 % = 10% scoring 7. >5 % = 0% scoring 8. Non Submission = 0% scoring	-	**5**

	2.3	Previous Milling plant commissioning experience	Proven Experience in the commissioning of MPS265 Mills or vertical spindle Mills with a throughput of 60Ton Per Hour and above **Attach the following as proof:** 1. Mill Standby Making and Commissioning check sheets 2. Mill Commissioning and Calibration Procedure 3. Mill inspection report during service fully signed by Client and QC 4. Commissioning Handover certificate signed by the Client after successful Mill Commissioning **Scoring Criteria** 1. No documentation provided – 0% 2. Mill Standby Making and Commissioning check sheets Submitted ONLY – 40% 3. Mill Standby Making and Commissioning check sheets and Mill Commissioning and Calibration Procedure Submitted ONLY – 80% 4. Inspection reports prior work, Mill Standby Making and Commissioning check sheets, Mill Commissioning and Calibration; Procedure and Commissioning Handover certificate signed by the Client after successful Mill Commissioning. – 100%		**5**

	2.4	Company safety performance and experience	Scoring criteria: 1. Fatality and/or LTI > 3 in the last five years = 0% 2. LTI < 3 and Medicals < 5 in the last five years = 50% 3. No fatality, LTI < 2, Medicals < 3 in the last five years = 100%		**5**

3.	**Key Personnel**			**35**	
	3.1	Key Personnel and Experience (Engineer/manager)	Qualification and Experience for Engineer/Technologist **Scoring Criteria** 1. No CV and/or proof of qualifications and experience with 16.2 appointment (Milling plant related scope) submitted -0% 2. Minimum National Diploma Mechanical Engineering Qualifications with proof and 2 year experience with 16.2 appointment (Milling plant service related scope) -20% 3. National Diploma/Mechanical Engineering Degree with 4+ Yrs experience with 16.2 appointment (Milling plant	-	**10**

			service related scope) - 60% 4. National Diploma/Mechanical Engineering/Degree with 6+ Yrs experience with 16.2 appointment (Milling plant service related scope) - 100%		
	3.2	Key Personnel and Experience (Supervisor)	Qualification and Experience National Diploma Mechanical/Trade test Mechanical Scoring Criteria 1. No CV and/or proof of qualifications and experience with CR 8 (7) appointment (Milling plant service related scope) submitted -0% 2. Minimum National Diploma Mechanical Engineering/ Trade test Mechanical qualifications with proof and 2 year experience with CR 8 (7) appointment (Milling plant service related scope) -20% 3. Minimum National Diploma Mechanical Engineering/ Trade test Mechanical 4+ Yrs experience with CR 8 (7) appointment (Milling plant service related scope) - 60% 4. Minimum National Diploma Mechanical Engineering/ Trade test Mechanical with 6+ Yrs		**5**

			experience with CR 8 (7) appointment (Milling plant service related scope) - 100%		
	3.3	Key Personnel and Experience (Mechanical Artisans) (e.g., Mechanical Fitters, Riggers, Welders, Boilermaker, etc) with N3 Mechanical Engineering Qualification and Trade Test Certificate and experience relating to scope of work	Attach CV's with minimum N3 Mechanical Engineering certified Qualifications plus Trade Test certificate as proof Attach 2 x CV's per trade **Scoring Criteria** 1. Not Satisfactory - No CV and proof Qualifications and experience submitted - 0%(0%) 2. Satisfactory - minimum N3 Engineering Qualifications with proof and Trade Test- 50% 3. Good - 3+ Yrs Mechanical Background - plus 10%2+ yrs Mechanical Scope Related Background		**10**

			-10%Mechanical Scope Related Background - plus 10%(70%) 4.Very good - 4+ Yrs Mechanical Background - plus 10%3+ yrs Mechanical Scope Related Background - plus 20%(100%)		

	3.3	Key Personnel and Experience (Quality controller)	Qualification and Experience for Quality Controller **Scoring Criteria** 1. No CV and/or proof Qualifications and experience submitted -0% 2. QC Level 2 Qualifications with proof and 1 year experience -50% 3. QC Level 2 Qualifications with 4+ Yrs Mechanical Scope related- 100%		**5**
	3.4	Key Personnel and Experience (Mill Calibrations and Commissioning Resources) Commissioning Supervisor and 2 C&I Technicians	Attach 3 x CV's with National Diploma Control and Instrumentation Engineering to undertake the Mill Calibration and Commissioning during RTS **Scoring Criteria** Not Satisfactory - No CV and proof Qualifications and experience submitted - 0%(0%) Satisfactory - National Diploma C&I Engineering Qualifications with proof - 50% Good - National Diploma Instrumentation with 3+ Yrs Background Exp - 60% - 2+ yrs with Scope Related Background - Plus 10% (70%)		**5**

			Very good - National Diploma Instrumentation with 4+ Yrs Background Exp - 80% 3+ yrs Scope Related Background - plus 20%(100%)		
4.	**Capacity and Lead times**			**10**	
	4.1	Manufacturing Duration Management	Supplier to submit proof of previous client project plans/work schedule orders(Milling plant components or similar complex equipment) that includes a traceable order number, original delivery date and actual delivery date. (Databook may be attached for 1 component previously manufactured) **Scoring Criteria** 1. No project plans/work schedule submitted -0% 2. Project plans/work schedule, 1-5 schedules submitted -50% 3. Project plans/work schedule, 6 or more schedules submitted -100%	-	**5**

	4.2	Maintenance Duration and Quality Management	Quality Control Plan and Duration Management: Supplier to submit previous approved repair program(e.g. MS Project or similar) and QCP for that refurbishment/mill service previously done. (QCP to correlate with Plan for duration management) **Scoring Criteria** 1. No traceable QCP and Program submitted -0% 2. QCP traceable to Program, with related scope, 1-3 submitted -50% 3. QCP traceable to Program, with related scope 4+ submitted - 100%		**5**
				TOTAL: 100	

3.4 TET MEMBER RESPONSIBILITIES

Table 3: TET Member Responsibilities

Mandatory Criteria Number	TET 1	TET 2	TET 3	TET 4
1	X	X	X	X
2	X	X	X	X
3	X	X	X	X
4	X	X	X	X
Qualitative Criteria Number	**TET 1**	**TET 2**	**TET 3**	**TET 4**
1.1	X	X	X	X
2.1	X	X	X	X
2.2	X	X	X	X
2.3	X	X	X	X
3.1	X	X	X	X
3.2	X	X	X	X
3.3	X	X	X	X
3.4	X	X	X	X
4.1	X	X	X	X
4.2	X	X	X	X

Foreseen Acceptable / Unacceptable Qualifications

3.4.1 Risks

Table 4: Acceptable Technical Risks

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

Table 5: 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.	
4.	

3.4.2 Exceptions / Conditions

Table 6: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	**None**

Table 7: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	**Duplicates / similar CVs are submitted for different tenderers – procurement department must decide on the way forward before the condition can be accepted or rejected.**
2.	**Subcontracting parts of scope for this tender,**

4. Authorisation

This document has been seen and accepted by:

5. Revisions

6. Development Team

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

7. Acknowledgements