

 Eskom	Strategy	Engineering
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## **1. INTRODUCTION**

FGD Ball mill 23 has been out of service for over 4 years due to a girth gear failure. Due to the lack of preservation of many components on the mill while it was out of service and scavenging of spare parts, the station has been unable to bring the ball mill back into service. To remedy this, a detailed scope of work was developed in order to indicate what is required to return the mill to service. The scope of work will be used to go into the market and find a suitable contractor to do the works.

This document serves to indicate the technical evaluation criteria that will be used in order to evaluate suitable bidders to execute the scope of works.

## **2. SUPPORTING CLAUSES**

### **2.1 SCOPE**

The scope of this document is to specify the tender technical evaluation criteria for the execution, inclusive of the provision of spares, of ball mill 23 scope of work as stipulated in the procurement strategy.

#### **2.1.1 Purpose**

The purpose of this tender technical evaluation strategy is to define 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**

This document shall apply to Kusile Power station.

### **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] 240-48929482 Tender Technical Evaluation Procedure
- [2] ISO 9001 Quality Management Systems
- [3] I00009-01703241170300-MEDES-3022-E1-Ball Mill - P&ID - Reagent preparation system (line 2)
- [4] I00009-01703241170300-MEDES-2122-B1-Ball Mill - Maintenance activities list (Alstom form filled-in) - Reagent preparation system
- [5] I00009-01703241170300-MEDES-2121-001-A-Reag\_Prep\_Sys\_O&M\_SECTION 1\_BALL\_MILL\_OIM pdf
- [6] I00009-01703241170300-MEDES-2121-002-A-Reag\_Prep\_Sys\_O&M\_SECTION 2\_VIBRATING\_CONE\_OIM pdf

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- [7] I00009-01703241170300-MEDES-2121-003-A-Reag\_Prep\_Sys\_O&M\_SECTION  
3\_WEIGH\_BELT\_OIM pdf
- [8] I00009-01703241170300-MEDES-2121-004-A-Reag\_Prep\_Sys\_O&M\_SECTION  
4\_MILL\_TANK\_AGITATOR\_OIM pdf
- [9] I00009-01703241170300-MEDES-2121-005-A-Reag\_Prep\_Sys\_O&M\_SECTION  
5\_CLASSIFIER\_FEED\_PUMP\_SYSTEM\_OIM pdf
- [10] I00009-01703241170300-MEDES-2121-006-A-Reag\_Prep\_Sys\_O&M\_SECTION  
6\_CLASSIFIER\_SYSTEM\_OIM pdf
- [11] I00009-01703241170300-MEDES-2121-007-A-Reag\_Prep\_Sys\_O&M\_SECTION  
7\_VALVES\_OIM pdf
- [12] I00009-01703241170300-MEDES-2121-008-A-Reag\_Prep\_Sys\_O&M\_SECTION  
8\_FEED\_INSTRUMENTS\_OIM pdf
- [13] The National Environmental Management Act, Act No 107, 1998

## 2.2.2 Informative

- [14] 32-421 - Eskom Life Saving Rules
- [15] 36-681 - Eskom Plant Safety Regulations

## 2.3 DEFINITIONS

Definition	Description
Contractor	Service provider contracted to provide a specific service to Eskom, Kusile Power Station and provide the required spare parts
Employer	Eskom, Eskom Kusile Power Station or representative

### 2.3.1 Classification

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

## 2.4 ABBREVIATIONS

Abbreviation	Description
Aux	Auxiliary
DWTR/LMSTN	Dewatering/ Limestone
FA	Fly Ash
FGD	Flue Gas Desulphurisation
F/Oil	Fuel Oil
ITP	Inspection, Testing Plan

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Abbreviation	Description
JB	Junction Box
PPE	Personal Protective Equipment
QCP	Quality Control Procedure
SABS	South African Bureau of Standards
SANS	South African National Standards
U	Unit
WWTP	Waste-Water Treatment Plant

## 2.5 ROLES AND RESPONSIBILITIES

As per 240-48929482 Tender Technical Evaluation Procedure

## 2.6 PROCESS FOR MONITORING

As per 240-48929482. Tender Technical Evaluation Procedure

## 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 70%

### 3.2 TET MEMBERS

Table 1: TET Members

TET number	TET Member Name	Designation
TET 1	Nhlanhla Rikhotso	Auxiliary Senior Engineer
TET 2	Elias Lelaka	Auxiliary Senior Engineer
TET 3	Lungelo Mngoma	Senior Technician FGD
TET 4	Dorothy Mbonane	Project Manager

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### 3.3 MANADATORY 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	Valid ISO 3834-2 certification	Provide a valid certificate	Ensure quality of welding

### 3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

**Table 3: Qualitative Technical Evaluation Criteria**

	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
1.	<b>Technical Experience</b>			40	
	1 1	<p>Technical experience in the refurbishment and maintenance of ball mills</p> <ul style="list-style-type: none"> <li>• Provide a minimum of 5 mill refurbishment Task Orders or signed contracts in the past 60 months (4 points per PO/contract)</li> <li>• Provide company name, Contact Person, RFQ/ Contract Number of issues POs and contracts</li> </ul> <p>Scoring will be given as follows</p> <ul style="list-style-type: none"> <li>• No orders submitted (0 points)</li> <li>• 2-3 orders submitted (8 points)</li> <li>• 4 orders submitted (16 points)</li> <li>• 5 orders submitted (20 Points)</li> </ul>			20
		<p>Detailed method statement covering mechanical maintenance inclusive of dismantling, inspection, repairs, overhaul, refurbishment and re-assembly, Housekeeping and commissioning</p> <p>Scoring will be as follows</p> <ul style="list-style-type: none"> <li>• No method statement submitted (0 points)</li> <li>• Method statement contains 3 of the criteria above</li> </ul>			20

		(8 points) <ul style="list-style-type: none"> <li>Method statement meets 6 of the criteria above (16 points)</li> <li>Method statement meets all 8 of the criteria above (20 Points)</li> </ul>			
2.	<b>Site Manager/ Supervisor CV: Relevant Qualifications and mechanical experience is a must.</b>			15	
	2 1	Certified copies of site manager and supervisor CV that stipulate the experience on mechanical related work Scoring to be done as follows <ul style="list-style-type: none"> <li>No CV submitted (0 points)</li> <li>CV has 2-3 years relevant experience (4 points)</li> <li>CV has 3-5 years relevant experience (8 points)</li> <li>CV has more than 5 years relevant experience (10 points)</li> </ul>	Provide a detailed CV		10
	2 2	Certified copy of N6 certificate or higher with trade test certificate Scoring to be done as follows <ul style="list-style-type: none"> <li>No submission (0 points)</li> <li>Less than N6 qualifications with a trade test (2 points)</li> <li>N6 qualification without a trade test (4 Points)</li> <li>N6 Certificate and trade test submitted (5 Points)</li> </ul>	Provide certified qualification copies		5
3.	<b>Key Personnel Qualifications and CVs. Indicate Experience on CVs</b>			30	
	3 1	Quality Controller (Quality cert/qualification and experience >2yr) Scoring will be done as follows	Provide a detailed CV and certified qualification copies		5

		<ul style="list-style-type: none"> <li>No submission (0 Points)</li> <li>Relevant CV submitted (2 Points)</li> <li>Relevant CV with 1 years' experience (4 Points)</li> <li>Relevant CV with 2 or more years' experience (5 Points)</li> </ul>			
	3 2	<p>Safety Officer (Safety cert/qualification and experience &gt;2yr)</p> <p>Scoring will be done as follows</p> <ul style="list-style-type: none"> <li>No submission (0 Points)</li> <li>Relevant CV submitted (2 Points)</li> <li>Relevant CV with 1 years' experience (4 Points)</li> </ul> <p>Relevant CV with 2 or more years' experience (5 Points)</p>	Provide a detailed CV and certified qualification copies		5
		<p>Welder (N3 cert with trade test and experience &gt;3yrs)</p> <p>Scoring will be done as follows</p> <ul style="list-style-type: none"> <li>No submission (0 Points)</li> <li>Relevant CV submitted (2 Points)</li> <li>Relevant CV with 2 years' experience (4 Points)</li> </ul> <p>Relevant CV with 3 or more years' experience (5 Points)</p>	Provide a detailed CV and certified qualification copies		5
		<p>Boiler Maker (N3 cert with trade test and experience &gt;3yrs)</p> <p>Scoring will be done as follows</p> <ul style="list-style-type: none"> <li>No submission (0 Points)</li> <li>Relevant CV submitted (2 Points)</li> <li>Relevant CV with 2 years' experience (4 Points)</li> </ul> <p>Relevant CV with 3 or more years' experience (5 Points)</p>	Provide a detailed CV and certified qualification copies		5
		<p>Rigger (Rigging cert and experience &gt;2yr)</p> <p>Scoring will be done as follows</p>	Provide a detailed CV and certified qualification copies		5

		<ul style="list-style-type: none"> <li>No submission (0 Points)</li> <li>Relevant CV submitted (2 Points)</li> <li>Relevant CV with 1 years' experience (4 Points)</li> <li>Relevant CV with 2 or more years' experience (5 Points)</li> </ul>			
		Artisan Fitter (N3 cert with trade test and experience >3yrs) Scoring will be done as follows <ul style="list-style-type: none"> <li>No submission (0 Points)</li> <li>Relevant CV submitted (2 Points)</li> <li>Relevant CV with 2 years' experience (4 Points)</li> <li>Relevant CV with 3 or more years' experience (5 Points)</li> </ul>	Provide a detailed CV and certified qualification copies		5
<b>4.</b>	<b>Quality Control</b>			<b>10</b>	
	4 1	QCP/ITP for the restoration of the ball mill containing activity lists, quality standards used and witness as well as hold points Scoring will be done as follows <ul style="list-style-type: none"> <li>No submission (0 Points)</li> <li>QCP/ITP submitted (2 Points)</li> <li>QCP/ITP submitted activity lists and quality standards containing (4 Points)</li> <li>QCP/ITP covers all the criteria above (5 Points)</li> </ul>			5
	4 2	Risk assessment for the execution of the scope of works Risk assessment must be inclusive of quality, time and cost risks as well as the proposed mitigation plans			5

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		<p>Scoring will be done as follows</p> <ul style="list-style-type: none"> <li>• No submission (0 Points)</li> <li>• Risk assessment submitted (2 Points)</li> <li>• Risk assessment covers the risk in all 3 risk areas without mitigations for the 3 risk areas(4 Points)</li> <li>• Risk assessment covers all the criteria above (5 Points)</li> </ul>			
<b>5.</b>		<b>Company Capacity</b>		<b>5</b>	
	5 1	<p>Provide company organogram with the relevant project personnel and their responsibilities indicated</p> <p>Scoring will be done as follows</p> <ul style="list-style-type: none"> <li>• Organogram not submitted (0 Points)</li> <li>• Organogram submitted (2 Points)</li> <li>• Organogram with project personnel and their responsibilities submitted (5 Points)</li> </ul>			5
				<b>TOTAL: 100</b>	

### 3.5 TET MEMBER RESPONSIBILITIES

Table 4: 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
Total				
Qualitative 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
Total				

### 3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

#### 3.6.1 Risks

Table 5: Acceptable Technical Risks

Risk	Description
1	Alternative compatible ball mill parts
2	

Table 6: Unacceptable Technical Risks

Risk	Description
1	Incompatible parts supply
2	No submission of risk assessment, method statement, QCP/ITP

#### 3.6.2 Exceptions / Conditions

Table 7: Acceptable Technical Exceptions / Conditions

Risk	Description
1	
1	

Table 8: Unacceptable Technical Exceptions / Conditions

Risk	Description
1	
2	

#### 4. AUTHORISATION

This document has been seen and accepted by

Name	Designation	Signature
Elias Lelaka	Auxiliary Senior Engineer	
Lungelo Mngoma	Senior Technician Mechanical	
Nhlanhla Rikhotso	Auxiliary Senior Engineer	
Dorothy Mbonane	Project Manager	
Thando Mbulawa	Auxiliary Engineering Manager	

#### 5. REVISIONS

Date	Rev.	Compiler	Remarks
June 2022	1	N Rikhotso	First Draft
September 2022	2	N. Rikhotso	Second Revision

#### 6. DEVELOPMENT TEAM

The following people were involved in the development of this document

- Nhlanhla Rikhotso
- Elias Lelaka
- Dorothy Mbonane
- Thando Mbulawa

#### 7. ACKNOWLEDGEMENTS

- Sibusiso Yotho
- Tendani Rasivhetshela

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