

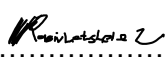


	<b>Strategy</b>	<b>Engineering</b>
---	-----------------	--------------------

<b>Title:</b> <b>Grit Blasting on U1 to U6 on  'as-and-when' required basis  at Kendal Power Station –  Technical Evaluation Strategy</b>	<b>Unique Identifier:</b> <b>XX</b>
	<b>Alternative Reference Number:</b> <b>N/A</b>
	<b>Area of Applicability:</b> <b>Engineering</b>
	<b>Documentation Type:</b> <b>Strategy</b>
	<b>Revision:</b> <b>0</b>
	<b>Total Pages:</b> <b>11</b>
	<b>Next Review Date:</b> <b>N/A</b>
	<b>Disclosure Classification:</b> <b>CONTROLLED  DISCLOSURE</b>

<b>Compiled by</b>	<b>Reviewed by</b>	<b>Approved by</b>
		
<b>F Tshikalange</b> <b>System Engineer</b>	<b>SW Nhlapo Pr.Eng</b> <b>Snr Engineer</b>	<b>T Rasivhetshele Pr.Eng</b> <b>Boiler Engineering Manager</b>
Date: 02/11/2022	Date: 02/11/2022	Date: 02/11/2022

## CONTENTS

	Page
<b>1. INTRODUCTION .....</b>	<b>3</b>
<b>2. SUPPORTING CLAUSES.....</b>	<b>3</b>
2.1 SCOPE .....	3
2.1.1 Purpose .....	3
2.1.2 Applicability.....	3
2.2 NORMATIVE/INFORMATIVE REFERENCES.....	3
2.2.1 Normative .....	3
2.2.2 Informative.....	3
2.3 DEFINITIONS.....	3
2.3.1 Classification .....	3
2.4 ABBREVIATIONS.....	4
2.5 ROLES AND RESPONSIBILITIES.....	4
2.6 PROCESS FOR MONITORING .....	4
2.7 RELATED/SUPPORTING DOCUMENTS.....	4
<b>3. TENDER TECHNICAL EVALUATION STRATEGY .....</b>	<b>4</b>
3.1 TECHNICAL EVALUATION THRESHOLD .....	4
<b>3.2 TET MEMBERS.....</b>	<b>4</b>
3.3 MANDATORY TECHNICAL EVALUATION STRATEGY (GATE KEEPERS) .....	5
3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA.....	5
<b>4. AUTHORISATION.....</b>	<b>11</b>
<b>5. REVISIONS .....</b>	<b>11</b>
<b>6. DEVELOPMENT TEAM .....</b>	<b>11</b>
<b>7. ACKNOWLEDGEMENTS .....</b>	<b>11</b>

## LIST OF TABLES

Table 1: TET Members .....	4
Table 2: Qualitative Technical Evaluation Criteria.....	5
Table 3: Qualitative Technical Evaluation Criteria Scoring .....	8
Table 4: TET Member Responsibilities.....	10

### CONTROLLED DISCLOSURE

When downloaded from the EDMS, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

## 1. INTRODUCTION

This document details the technical evaluation strategy for the supply of labour, tools, equipment, consumables, supervision, management, logistics, storage and support services for grit blasting of Boiler and Turbine components at Kendal Power Station.

## 2. SUPPORTING CLAUSES

### 2.1 SCOPE

This document discusses the different technical aspects that will be evaluated and scored by the multi-disciplinary Technical Evaluation Team (TET) for the supply of the supply of labour, tools, equipment, consumables, supervision, management, logistics, storage and support services for grit blasting of Boiler and Turbine components at Kendal Power Station

The team members who will be involved in the evaluation are listed and appointed in this document along with their responsibilities. This document also describes the acceptable and unacceptable risks and qualifications and/or conditions that will be applicable to the supply scope of work. Once the Technical Evaluation Strategy is authorised, no changes will be made to the evaluation criteria without the appropriate authorisations.

#### 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 applies to Kendal 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.

### 2.2.2 Informative

[2] ISO 9001 Quality Management Systems.

[3] 474-59: Internal Audit Procedure

[4] EAP 0304-1: Required Operational Capability Report

[5] 32-1034: Eskom Procurement Policy and supply chain management policy

[6] 240-53114002: Engineering Change Management Procedure

## 2.3 DEFINITIONS

### 2.3.1 Classification

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

### **CONTROLLED DISCLOSURE**

When downloaded from the EDMS, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

## 2.4 ABBREVIATIONS

Definition	Description
TET	Technical Evaluation Team
OHS Act	Occupational Health & Safety Act
N/A	Not Applicable

## 2.5 ROLES AND RESPONSIBILITIES

N/A as per 240-48929482: Tender Technical Evaluation Procedure

## 2.6 PROCESS FOR MONITORING

The design aspects will be monitored by conducting end of phase design reviews as described in the Eskom design review procedure at assessment completion.

## 2.7 RELATED/SUPPORTING DOCUMENTS

[1] \*1037767: Kendal Power Station Procurement Purchase Requisition Compliance Checklist.

[2] 32-1034: Eskom Procurement and Supply Chain Management Procedure.

## 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%.

### 3.2 TET MEMBERS

Table 1 below lists the TET members

**Table 1: TET Members**

TET number	TET Member Name	Designation
TET 1	Funzeani Tshikalange	System Engineer
TET 2	Sipho Nhlapo Pr.Eng	Senior Engineer
TET 3	Tendani Rasivhetshele Pr.Eng	Boiler Engineering Manager

### **CONTROLLED DISCLOSURE**

When downloaded from the EDMS, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorised version on the system.

**3.3 MANDATORY TECHNICAL EVALUATION STRATEGY (GATE KEEPERS)**

N/A

**3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA**

**Table 2: Qualitative Technical Evaluation Criteria**

Qualitative Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Criteria Weighting %	Criteria Sub Weighting %
<b>1. Experience</b>			
1.1. Company’s past experience for similar work (submit evidence of completion certificate/offer/contract or order) <ul style="list-style-type: none"> <li>• ≥4 previous projects = 5</li> <li>• 2-3 previous projects = 4</li> <li>• 1 previous project = 2</li> <li>• None responsive = 0</li> </ul>	Provide documentation with the tender returnable	15	40
1.2. (a) Project management (Provide similar activity program in Bar chart or Gantt) chart. (b) Provide a manpower deployment plan. <ul style="list-style-type: none"> <li>• All required documentation submitted and comprehensive = 5</li> <li>• Almost all required documentation submitted and partially comprehensive = 4</li> <li>• Partially submitted documentation submitted and not comprehensive = 2</li> <li>• None responsive = 0</li> </ul>	Provide documentation with the tender returnable		60
<b>2. Method Statement</b>			
2.1. How the work is to be executed with emphasis on the following: <ul style="list-style-type: none"> <li>i. How the blasting is to be executed on the different components in line with Society for Protective Coatings i.e., SSPC-SP3, SSPC-SP5, SSPC-SP6, SSPC-SP10, SSPC-SP11, SSPC VIS1 and ASTM D4417.</li> </ul>	Provide documentation with the tender returnable	40	100

**Grit Blasting on U1 to U6 on ‘as-and-when’ required basis at Kendal Power Station – Technical Evaluation Strategy**

Unique Identifier: XX

Revision: 0

Page: 6 of 11

<ul style="list-style-type: none"> <li>ii. Consideration of OSH Act. Of 1993 when executing sandblasting on all components.</li> <li>iii. Blasting material containment, extraction/cleaning with consideration for the environment as per ISO14001.</li> <li>iv. Risk assessment for all sandblasting activities with mitigations on all identified risks.</li> </ul> <ul style="list-style-type: none"> <li>• Method Statement comprehensively satisfies i, ii, iii, and iv =5</li> <li>• Method Statement satisfies most of i, ii, iii, and iv with minor omissions=4</li> <li>• Method Statement partially satisfies i, ii, iii, and iv=2</li> <li>• Non responsive= 0</li> </ul>			
<p><b>3. Knowledge</b></p>			
<p>3.1 Highest qualification</p> <p>Minimum resource requirements to include the following:</p> <ul style="list-style-type: none"> <li>• Site Manger N6/ National Diploma (Mechanical Engineering) as a minimum</li> <li>• X 2 Quality Control Inspector with an N6/ National Diploma and QC certification as a minimum</li> <li>• X 8 Supervisors with a Trade Test as a minimum</li> <li>• X 20 Semi-skilled fitters with Grade 10 or 5 years sand blasting experience as a minimum</li> </ul> <p><b>Note:</b> All CV's to be accompanied with valid certified copies of Identity Documents and proof of qualifications that are clear and readable.</p>		20	40
<p>3.2 Related Experience</p> <p>Provide details of company worked for, duration, roles &amp; responsibility and work done. Minimum required experience is as follows:</p> <ul style="list-style-type: none"> <li>• Site Manager with minimum related experience of 3 years</li> <li>• Quality Control Inspector – minimum of 5 years related experience</li> <li>• Supervisors – minimum of 5 years related experience</li> </ul>			60

**Grit Blasting on U1 to U6 on ‘as-and-when’ required basis at Kendal Power Station – Technical Evaluation Strategy**

Unique Identifier: XX

Revision: 0

Page: 7 of 11

<ul style="list-style-type: none"> <li>Semi-skilled Fitters – minimum of 2 years sand blasting related experience (those with grade 10) or 5 years related experience.</li> </ul>			
<p><b>4. Equipment</b></p>			
<p>4.1. Equipment specification and quantities with certification, abrasive media data sheets, and maintenance/inspection records. Additionally a site visit will be performed to inspect equipment and demonstration will be required.</p> <p>Provide the following:</p> <ul style="list-style-type: none"> <li>Asset register</li> <li>Historical record of equipment maintenance</li> <li>Equipment, valid calibration certificates and history</li> <li>Documentation management system</li> <li>MSDS for consumables</li> </ul>	<p>Provide documentation with the tender returnable</p>	<p>15</p>	<p>100</p>
<p><b>5. QA and QCP:</b></p>			
<p>5.1. Supply documented procedures/work instructions/inspection technique sheets that address the following: Internal quality audits, non-conformances, corrective and preventative actions, storage and handling of equipment, QCPs.</p> <ul style="list-style-type: none"> <li>All required documentation submitted and comprehensive = 5</li> <li>Almost all required documentation submitted and partially comprehensive = 4</li> <li>Partially submitted documentation submitted and not comprehensive = 2</li> <li>None responsive = 0</li> </ul>	<p>Provide documentation with the tender returnable</p>	<p>10</p>	<p>100</p>
<p style="text-align: center;">TOTAL</p>		<p>100</p>	
<p style="text-align: center;"><b>OVERALL MINIMUM THRESHOLD FOR QUALIFICATION</b></p>		<p>80</p>	

**Table 3: Qualitative Technical Evaluation Criteria Scoring**

Criteria Number	Score Percentage Description
1.1	0% of weight will be allocated for zero experience, 50% of weight allocated for one order of successful sand blasting on the turbine or similar boiler plant, 100% of weight allocated for more than one order of successful sand blasting on the turbine or similar boiler plant.
3	<p><b>3.1 Qualifications (Total = 40%)</b></p> <p><u>Site Manager</u></p> <ul style="list-style-type: none"> <li>- Does not have the required minimum qualification – <b>0%</b></li> <li>- Has the required minimum qualification – <b>8%</b></li> </ul> <p><u>Quality Control Inspector</u></p> <ul style="list-style-type: none"> <li>- Does not have the required – <b>0%</b></li> <li>- One quality control inspector with the minimum required qualifications – <b>4%</b></li> <li>- Has the required minimum qualification – <b>8%</b></li> </ul> <p><u>Supervisors</u></p> <ul style="list-style-type: none"> <li>- Supervisors without the requires minimum qualification – <b>0%</b></li> <li>- Two Supervisors with the required minimum qualifications – <b>8%</b></li> <li>- Four Supervisor with the required minimum qualifications – <b>16%</b></li> </ul> <p><u>Semi-skilled fitters</u></p> <ul style="list-style-type: none"> <li>- Semi-skilled fitters with no minimum required qualifications – <b>0%</b></li> <li>- Less than 20 semi-skilled with the required minimum qualifications – <b>0%</b></li> <li>- At least three 20 semi – skilled with the required minimum qualifications (or experience) – <b>8%</b></li> </ul> <p><b>3.2 Related Experience (Total = 60%)</b></p> <p><u>Site Manager</u></p> <ul style="list-style-type: none"> <li>- Site Manager related experience &lt; 3 years – <b>0%</b></li> <li>- Site Manager experience ≥ to 3 years– <b>12%</b></li> </ul>

**Grit Blasting on U1 to U6 on ‘as-and-when’ required basis at Kendal Power Station – Technical Evaluation Strategy**

Unique Identifier: XX

Revision: **0**

Page: **9 of 11**

	<p><u>Quality Control Inspector</u></p> <ul style="list-style-type: none"> <li>- Related experience for both Quality Control Inspector &lt; 5 years – <b>0%</b></li> <li>- Related experience for one Quality Control Inspector ≥ 5 years – <b>6%</b></li> <li>- Related experience for one Quality Control Inspector ≥ 5 years– <b>12%</b></li> </ul> <p><u>Supervisors</u></p> <ul style="list-style-type: none"> <li>- Supervisors related experience less than 5 years – <b>0%</b></li> <li>- Two Supervisor with related experience ≥ 5 years – <b>12%</b></li> <li>- Four Supervisor with related experience ≥ 5 years –<b>24%</b></li> </ul> <p><u>Semiskilled fitters</u></p> <ul style="list-style-type: none"> <li>- Does not have the minimum required experience – <b>0 pts</b></li> <li>- Less than 20 semi-skilled fitters with the required minimum experience – <b>0%</b></li> <li>- At least 20 semi-skilled fitters with the required minimum experience – <b>12%</b></li> </ul>
4.1	<p><b>5 (100% of weight) COMPLIANT</b></p> <ul style="list-style-type: none"> <li>• Meet technical requirement(s) AND;</li> <li>• No foreseen technical risk(s) in meeting technical requirements.</li> </ul> <p><b>4 (75% of weight) COMPLIANT WITH ASSOCIATED QUALIFICATIONS</b></p> <ul style="list-style-type: none"> <li>• Meet technical requirement(s) with;</li> <li>• Acceptable technical risk(s) AND/OR;</li> <li>• Acceptable exceptions AND/OR;</li> <li>• Acceptable conditions.</li> </ul> <p><b>2 (40% of weight) NON-COMPLIANT</b></p> <ul style="list-style-type: none"> <li>• Does not meet technical requirement(s) AND/OR;</li> <li>• Unacceptable technical risk(s) AND/OR;</li> <li>• Unacceptable exceptions AND/OR;</li> <li>• Unacceptable conditions.</li> </ul> <p><b>0 (0% of weight) TOTALLY DEFICIENT OR NON-RESPONSIVE</b></p>

**Table 4: TET Member Responsibilities**

<b>Mandatory Criteria Number</b>	<b>TET 1</b>	<b>TET 2</b>	<b>TET 3</b>
-	-	-	-
<b>Qualitative Criteria Number</b>	<b>TET 1</b>	<b>TET 2</b>	<b>TET 3</b>
1	X	X	X
2	X	X	X
3	X	X	X
4	X	X	X
5	X	X	X

#### **4. AUTHORISATION**

This document has been seen and accepted by:

<b>Name &amp; Surname</b>	<b>Designation</b>
Sipho Nhlapo	Senior Engineer

#### **5. REVISIONS**

<b>Date</b>	<b>Rev.</b>	<b>Compiler</b>	<b>Remarks</b>
Sep 2021	N/A	F Tshikalange	Document was compiled for evaluating Kendal Power Station Boiler and Turbine components grit blasting

#### **6. DEVELOPMENT TEAM**

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

- Funzeani Tshikalange
- Sipho Nhlapo

#### **7. ACKNOWLEDGEMENTS**

N/A