

Title: **Tender Technical Evaluation  
Strategy for Supply of Outside  
Plant Electrical Spares**

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## **1. INTRODUCTION**

The Kriel Power Station LV Common Plant Switchgear and Control gear are in a terrible state and susceptible to component failures. These components are components of different brands to keep the plant running. The Common plant switchgear supply critical systems like dry-dust conveyor system, water plant, ash conveyor and coal conveyor which are necessary for maintaining continuous operation of the Station. The major electrical spares required are for the loads on the following systems:

- 6A-6G Incline coal conveyor and Coal plant South and North boards
- Water plant LV boards 1A, 2A, 1B and 2B
- Main Silo boards 1A, 2A, 1B and 2B
- Demin & CP plant board 1 and 2

Without these plants running due unavailability of spares, production would stop. Other outside plant electrical boards forms part of spares requirement for maintenance purpose.

The system downtime depends on how soon one identifies the problem (that is, troubleshooting ability) and the availability of replacement spare components in case of a failure of component installed. Replacement spares are thus required to ensure that system deterioration, defects and failures are timeously rectified through the guaranteed and optimised spares stock holding.

This document will outline the Technical Evaluation Strategy for the procurement of spare components for Outside plant electrical plant system.

## **2. SUPPORTING CLAUSES**

### **2.1 SCOPE**

This document refers to the Supplier Technical Evaluation of the H<sub>2</sub> dryer, H<sub>2</sub> skid, CO<sub>2</sub> evaporator and gas analysers Spares supply and covers the different aspects that will be evaluated and scored by the multi-disciplinary Technical Evaluation Team (TET) to complete the technical evaluation of the enquiry. The team members are listed and appointed in this document along with their responsibilities. The document also describes the acceptable and unacceptable risks and qualifications and/or conditions.

The Technical Evaluation Strategy will define the following technical evaluation criteria:

- Mandatory Evaluation Criteria
- Qualitative Evaluation Criteria
- TET Member Responsibilities
- Acceptable / Unacceptable Qualifications.

Once the Technical Evaluation Strategy is finalised and authorised for issue to market, no changes will be made to the evaluation criteria.

#### **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. The criteria for strategy are aimed at answering the following questions for each tenderer:

- Capacity – Does the supplier have the bandwidth to deliver?

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- Competency – Is the supplier diligent and can complete the task in each period?
- Consistency – Is there a consistent output from the supplier?
- Control of process – Does the supplier offer flexibility and have systematic control over his/her process?
- Commitment to Quality – Is there a system established by the supplier that works constantly for quality management checks?

### **2.1.2 Applicability**

This Technical Evaluation Strategy is applicable to the evaluation of service providers providing spares for the Outside Plant Electrical system at Kriel 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] 240-76960420 Guideline for Spares Procurement Technical Evaluation and Quality Inspection.
- [4] 32-1033 Eskom Procurement and Supply Chain Management Policy.
- [5] 32-1034 Eskom Procurement and Supply Chain Management Procedure.
- [6] 474-132 GBE Plant Engineering Baseline Change Management

### **2.2.2 Informative**

- [1] 240-48929482: Tender Technical Evaluation Procedure

## **2.3 DEFINITIONS**

### **2.3.1 Classification**

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

### **2.3.2 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.

### **2.3.3 Tender**

A tender refers to an open or closed competitive request for quotations / prices against a clearly defined scope / specification.

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## **2.4 ABBREVIATIONS**

<b>Abbreviation</b>	<b>Description</b>
A&M	Assert & Management
ATL	Accredited Test Laboratory
EPE	Electrical Plant Engineering
EMD	Electrical Maintenance Department
OEM	Original Equipment Manufacture
PEI	Production Engineering Integration
TET	Technical Evaluation Team

## **2.5 ROLES AND RESPONSIBILITIES**

As per 240-48929482: Tender Technical Evaluation Procedure

## **2.6 PROCESS FOR MONITORING**

N/A

## **2.7 RELATED/SUPPORTING DOCUMENTS**

- 240-165893467: Kriel Outside Plant Electrical Spares Scope of Work
- 240-53716746: Tender Technical Evaluation Report Template
- 240-53716712: Tender Technical Evaluation Results Form Template
- 240-53716726: Tender Technical Evaluation Scoring Form Template
- 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**

<b>TET number</b>	<b>TET Member Name</b>	<b>Designation</b>
TET 1	Godfrey Mthombene	System Engineer (EPE)
TET 2	Evah Malofha	EMD Senior Advisor

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TET 3	Nkosi Phetha	EPE System Engineer
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### **3.3 MANADATORY TECHNICAL EVALUATION CRITERIA**

Table 2 defines all Mandatory Evaluation Criteria to be used as well as reference to specification and motivation for use of criteria. These criteria will not be scored. Each tender will be assessed on a YES/NO basis. If any answer below is NO the tenderer may be eliminated from the tendering process.

**Table 2: Mandatory Technical Evaluation Criteria**

<b>No</b>	<b>Mandatory Technical Criteria Description</b>	<b>Reference to Technical Specification / Tender Returnable</b>	<b>Motivation for use of Criteria</b>
1.	The tendering entity submits a company profile which includes at least proof of 5 traceable references containing client name and contact numbers where the Switchgear electrical components have been supplied; the list can be either local or international in the Power Generation, Mining or Industrial Sectors and must prove that the tenderer has supplied electrical components in the past 5 years.		The tenderer must demonstrate that they have been supplying electrical components in the Power Generation Industry for atleast 5 years
2.	The tenderer provides a declaration letter signed by the company representative stating that the company will provide the correct type of spares with technical data in the form of data sheet or brochure as required by the <i>Employer</i>	Declaration Letter with full compliance to the requirements as set out in the scope of work	The contractor must demonstrate: <ul style="list-style-type: none"><li>• Compliance to scope of work</li><li>• Intent to undertake full scope of work</li><li>• Compliance to standards and specifications if applicable</li></ul>
3.	The tenderer provides declaration letter signed by the company representative stating that the company will provide technical support on electrical spares/components required	Declaration Letter with full compliance to the requirements as set out in the scope of work	Compliance to Scope of work

### 3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Compliant tenderers will be evaluated against a set of weighted qualitative evaluation criteria. The evaluation criteria have been broken down into sections and a percentage weighting for each section is allocated. The Tenderer must ensure that his submission/proposal contains all relevant data/proof to substantiate the Employer's weighted criteria's as populated in Table 4 . If no information from the submission file is available per criteria to be evaluated, the weighted score for those particular criteria will result in a zero without further clarification. Only information which is presented, but ambiguous to the evaluators, will be allowed for further clarification.

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

Score	%	Definition
5	100	<b>COMPLIANT</b> <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>
4	80	<b>COMPLIANT WITH ASSOCIATED QUALIFICATIONS</b> Meet technical requirement(s) with; <ol style="list-style-type: none"> <li>Acceptable technical risk(s) AND/OR;</li> <li>Acceptable exceptions AND/OR;</li> <li>Acceptable conditions.</li> </ol>
2	40	<b>NON-COMPLIANT</b> <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>
0	0	<b>TOTALLY DEFICIENT OR NON-RESPONSIVE</b>
<p>Note 1: Foreseen acceptable and unacceptable risk(s), exceptions and conditions shall be unambiguously defined in the relevant Tender Technical Evaluation Strategy.</p> <p>Note 2: The scoring table does not allow for scoring of 1 and 3</p> <p>Note 3: The minimum weighted final score (threshold) required for a tenderer to be considered from a technical perspective is 70%.</p>		



**Table 4: Qualitative Technical Evaluation Criteria**

	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable		Criteria Weighting (%)	Criteria Sub Weighting (%)										
1.	General requirements				40											
	1.1	The tendering entity submits a company profile which includes at least proof of 5 traceable references containing client name and contact numbers where the Switchgear electrical components have been supplied; the list can be either local or international in the Power Generation, Mining or Industrial Sectors and must prove that the tenderer has supplied electrical components in the past 5 years.	<table><tr><th>Number of references</th><th>Score</th></tr><tr><td>5</td><td>5</td></tr><tr><td>3-4</td><td>4</td></tr><tr><td>1-2</td><td>2</td></tr><tr><td>0</td><td>0</td></tr></table>		Number of references	Score	5	5	3-4	4	1-2	2	0	0		40
Number of references	Score															
5	5															
3-4	4															
1-2	2															
0	0															
2.	Delivery and Pricing				20											
	2.1	Supplier provides a sign letter with letter head as proof that the spares will be delivered within 4 weeks	All required spares to be delivered to the Employer 4 weeks from the day the purchase order is placed by the Employer			20										
3.	Quality Management System				20											
	3.1	Submit company certification for quality management system as per ISO 9001:2015	The quality management system of the equipment supplied must always be adhered to. Therefore, it is advised that the supplier do on-going verification of the quality management system ISO 9001:2015.			10										
	3.2	Letter of guarantee that spares shall meets Eskom standards as per scope and mandatory criteria				10										

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<b>4.</b>	<b>Documentation</b>			<b>20</b>	
	4.1	Provide batch test certificates for components			10
	4.2	Drawings and data sheets of equipment/components to be provided	The Supplier will supply any additional information such as brochure, general arrangement drawing, certificates, detailed specification,		5
	4.3	Provide preservation procedures for electronic components where applicable	The Supplier shall supply preservation and storage procedure/s, where applicable.		5
				<b>TOTAL: 100</b>	

### **3.1 TET MEMBER RESPONSIBILITIES**

**Table 5: TET Member Responsibilities**

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

### **3.2 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS**

#### **3.2.1 Risks**

**Table 6: Acceptable Technical Risks**

<b>Risk</b>	<b>Description</b>
1.	
2.	

**Table 7: Unacceptable Technical Risks**

<b>Risk</b>	<b>Description</b>
1.	Deviating from standard and specification captured in the Works Information/scope of work
2.	Under or overrated equipment.

#### **3.2.2 Exceptions / Conditions**

**Table 8: Acceptable Technical Exceptions / Conditions**

<b>Risk</b>	<b>Description</b>
1.	
2.	

**Table 9: Unacceptable Technical Exceptions / Conditions**

<b>Risk</b>	<b>Description</b>
1.	Delivery of substandard components
2.	Tenderer not supplying all items in the full scope.

#### 4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation	Signature
Rofhiwa Nelwamondo	Engineering Manager	
Tsumza Tsumane	EPE Manager	
Evah Malofha	EMD Senior Advisor	
Nkosi Phetha	EPE System Engineer	

#### 5. REVISIONS

Date	Rev.	Compiler	Remarks
May 2022	0	GT Mthombene	New document

#### 6. DEVELOPMENT TEAM

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

- GT Mthombene

#### 7. ACKNOWLEDGEMENTS

The author would like to thank all parties involved for their contribution.

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