



Strategy

Eskom Generation

Title: **Tender Technical Evaluation  
Strategy for the Supply of  
Spares - DC Systems (Diesel  
Generators) at Kriel Power  
Station**

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**19/09/2022**

## **EXECUTIVE SUMMARY**

The purpose of this tender technical evaluation strategy is to detail the technical requirements for the Diesel Generator supply of spares at Kriel Power Station (KPS) and all processes associated with the technical evaluation process.

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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: .....	4
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## **1. INTRODUCTION**

The purpose of this tender technical evaluation strategy is to detail the technical requirements for the Diesel Generator supply of spares at Kriel Power Station (KPS) and all processes associated with the technical evaluation process. The tender documents will be published on the tender bulletin after the scope and technical evaluation criteria to be approved.

This document describes the process to be followed in performing technical evaluations during the tender evaluation for the supply of spares for the Diesel Generators. The evaluation of tenders will be based on the tenderer's ability to meet both mandatory and qualitative requirements. A weighted score card approach will be used to evaluate the tenders against the *Employer's* requirements.

## **2. SUPPORTING CLAUSES**

### **2.1 SCOPE**

This document refers to the Supplier Technical Evaluation of the Diesel Generator 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?
- 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?

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### 2.1.2 Applicability

This Technical Evaluation Strategy is applicable to the evaluation of service providers providing spares for Diesel Generators 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] EEP0977: Kriel Power Station Diesel Generator maintenance repair Scope of Work

### 2.2.2 Informative

- [1] 240-48929482: Tender Technical Evaluation Procedure
- [2] ISO 9001 Quality Management Systems
- [2] EEP0977: Diesel Generators Scope of Work

## 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.

## 2.4 ABBREVIATIONS

Abbreviation	Description
A&M	Assert & Management
TET	Technical Evaluation Team
EPE	Electrical Plant Engineering
EMD	Electrical Maintenance Department
OEM	Original Equipment Manufacture

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Abbreviation	Description
PEI	Production Engineering Integration

## 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

- EEP0977: Kriel Diesel Generators 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/METHOD

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: TET Members**

TET number	TET Member Name	Designation
TET 1	Mafu Maseko	System engineer – Electrical Engineering
TET 2	Alex Nkadameng	Senior Technician – Electrical Maintenance Dept
TET 3	Evah Malofha	Senior advisor – Electrical Maintenance Dept

The minimum weighted final score (threshold) required for a tender to be considered from a technical perspective is 80%.

### **CONTROLLED DISCLOSURE**

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### 3.3 MANDATORY TECHNICAL EVALUATION CRITERIA

Table 2 defines 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**

No	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for use of Criteria
1.	The tenderer(s) should provide a declaration letter signed by the company indicating compliance to the full scope of work.	Declaration Letter with full compliance to the requirement(s)	The contractor must demonstrate: <ul style="list-style-type: none"><li>• Compliance to the scope of work</li><li>• Intent to undertake full scope of work</li><li>• Compliance to standards and specifications if applicable</li></ul>

### 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 as populated in table 3 . If no information from the submission file is available per criteria to be evaluated, the weighted score for those 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**

<b>Score</b>	<b>%</b>	<b>Definition</b>
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>1. Acceptable technical risk(s) AND/OR.</li> <li>2. Acceptable exceptions AND/OR.</li> <li>3. 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>

Note 1: Foreseen acceptable and unacceptable risk(s), exceptions and conditions shall be unambiguously defined in the relevant Tender Technical Evaluation Strategy.

Note 2: The scoring table does not allow for scoring of 1 and 3

Note 3: The minimum weighted final score (threshold) required for a tenderer to be considered from a technical perspective is 80%.

**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	Completed tender returnable table in Appendix A	<ul style="list-style-type: none"><li>Full acceptance of the content requirements attracts full scoring</li></ul>		10										
	1.2	Provide OEM letter or a letter from the OEM representative stating that the tenderer will obtain OEM spares as indicated on appendix A			30										
2.	Delivery and Pricing			20											
	2.1	Supplier provides proof that spares will be kept at a local workshop to allow delivery within 4 weeks or. A signed letter with the company's letterhead indicating the expected delivery period will suffice	<div>All required spares to be delivered to the Employer 4 weeks from the day the purchase order is placed by the Employer.</div> <table><tr><th>Delivery period (T)</th><th>Score</th></tr><tr><td><math>T \leq 4\text{ week}</math></td><td>5</td></tr><tr><td><math>4\text{ weeks} &lt; T \leq 8\text{ week}</math></td><td>4</td></tr><tr><td><math>8\text{ weeks} &lt; T \leq 12\text{ week}</math></td><td>2</td></tr><tr><td><math>T &gt; 12\text{ week}</math></td><td>0</td></tr></table>	Delivery period (T)	Score	$T \leq 4\text{ week}$	5	$4\text{ weeks} < T \leq 8\text{ week}$	4	$8\text{ weeks} < T \leq 12\text{ week}$	2	$T > 12\text{ week}$	0		20
Delivery period (T)	Score														
$T \leq 4\text{ week}$	5														
$4\text{ weeks} < T \leq 8\text{ week}$	4														
$8\text{ weeks} < T \leq 12\text{ week}$	2														
$T > 12\text{ week}$	0														

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<b>3.</b>	<b>Quality Management System</b>			<b>20</b>	
	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. A signed letter with the company's letterhead will suffice.			10
<b>4.</b>	<b>Documentation</b>			<b>20</b>	
	4.1	Provide batch test certificate	Where applicable		10
	4.2	Drawings and data sheets of equipment/components to be provided where applicable	The Supplier will supply any additional information such as brochure, general arrangement drawing, certificates, detailed specification, where applicable		5
	4.3	Provide preservation procedures for 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
<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

### 3.2 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.

### **3.2.1 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:

<b>Name &amp; Surname</b>	<b>Designation</b>
Mafu Maseko	System Engineer
T. Tsumane	Line Manager
E. Malofha	Senior Advisor
A. Nkadameng	Senior Technician
K. Ntsheroa	Line Manager
P. Rakeketsi	Diesel Generator Specialist

#### **5. REVISIONS**

<b>Date</b>	<b>Rev.</b>	<b>Compiler</b>	<b>Remarks</b>
Aug 2022	1	Mafu Maseko	First signed revision

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

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

- Mafu Maseko
- Daan Dreyer

#### **7. ACKNOWLEDGEMENTS**

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

**8. Appendix A: TENDER RETURNABLES**

Number	Component	Part number	Stock No./Reference number	Warranty (Yes/No)	Obtain from OEM (Yes/No)	Contact details of the OEM	Committed delivery time (weeks)	Stock level kept in SA	Level of stock kept abroad
1	Electronic Control Module		668218		Y				
2	EMCP 4.2 (CAT) also to be programmed if necessary		668219		Y				
3	Finder Relay 24VDC, 10A, 250VAC		668061		Y				
4	Battery Charger		667186		Y				
5	Radiator Coolant		0668059		N				
6	CARTERPILLAR Fuel Filter 1R-0749		669170		N				
7	CARTERPILLAR Oil Filter 1R-1808		516859		N				
8	CARTERPILLAR Air Filter 151-7737		668220		N				
9	CARTERPILLAR Fuel Water Separator 326-1641		668244		N				

## Mafu Maseko

---

**From:** Phera Rakeketsi  
**Sent:** Thursday, 15 September 2022 11:03  
**To:** Mafu Maseko  
**Subject:** RE: Tender technical evaluation strategy for DC Systems (Diesel Generators) rev 1 03082022 CORRECTED

Good day Mafu,

I am ok with the document with no further comments as the scope is mostly supply of spare parts.

Just some comments below on the risks from how the scope is structured.

1. For supply of spares, I assume that the process within stores should be followed based on the number of spares required. This can reduce the time to get spares and ensuring that the parts are procured from an agent or OEM.
2. The EMCP which requires programming needs an activity to ensure that correct programming has been performed. If the contract is not awarded to Barloworld, there is a risk that a third party might have capabilities to prove correct programming of the module.

Regards,  
Phera

**From:** Mafu Maseko <MasekoMF@eskom.co.za>  
**Sent:** Monday, 12 September 2022 13:01  
**To:** Phera Rakeketsi <RakekeP@eskom.co.za>  
**Subject:** Tender technical evaluation strategy for DC Systems (Diesel Generators) rev 1 03082022 CORRECTED

Good morning Phera,

May you please review this document before approval.

I'll appreciate your assistance.

Kindest regards  
Mafu