

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

The contract is for the system design, supply, installation, interface and system commissioning of diesel generators at Duvha Power Station. The works includes the following aspects:

- **Electrical:** The electrical project boundary is within the diesel generator room (diesel generators (engines + alternators), including associated auxiliaries (diesel generator control panel, starting system, protection system, circuit breakers), and power cabling up to the 380V Diesel Generator Board.
- **Control and Instrumentation (C&I):** C&I project boundary was from the existing controllers including junction boxes, instrumentation, control cabling, and interface from EOD to unit control room for monitoring alarms and status of diesel generators.
- **Low Pressure Services (LPS):** The LPS project boundary was within the diesel generator room (diesel generators (engines + alternators), including associated auxiliaries (bulk fuel oil supply system, cooling system, HVAC and fire protection system). The above systems will be assessed and replaced where necessary.
- **Civils and Structures:** Civils and Structures project boundary was within the diesel generator room and outside the diesel generator room where the water cooling towers and diesel storage tanks are installed. Civil will conduct load verification for the new equipment.

This document outlines the technical evaluation criteria stating how the technical returnable documents that will be submitted by tenderer(s) to execute the Electrical Heaters and Elements Repairs and Maintenance Contract Scope of Work will be evaluated.

## **2. SUPPORTING CLAUSES**

### **2.1 SCOPE**

This document covers the different aspects that will be evaluated and scored by the Technical Evaluation Team (TET). 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.

Once the Technical Evaluation Strategy is authorised, no changes will be made to the evaluation criteria without appropriate authorisation.

#### **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 tender technical evaluation strategy serves as basis for the tender technical evaluation process.

#### **2.1.2 Applicability**

This document shall apply to Duvha Power Station, Group Technology Engineering and the Contractor.

## **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] 32-1034: Eskom Procurement Policy

### **2.2.2 Informative**

[3] 240-53113685: Design Review Procedure

[4] 240-53114026: Project Engineering Change Management Procedure

## **2.3 DEFINITIONS**

<b>Definition</b>	<b>Description</b>
Tender	A tender refers to an open or closed competitive request for quotations / prices against a clearly defined scope / specification

### **2.3.1 Disclosure Classification**

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

## **2.4 ABBREVIATIONS**

<b>Abbreviation</b>	<b>Description</b>
EDWL	Engineering Design Work Lead
LDE	Lead Discipline Engineer
N/A	Not Applicable
TET	Technical Evaluation Team

## **2.5 ROLES AND RESPONSIBILITIES**

As per 240-48929482, Tender Engineering Evaluation Procedure

## **2.6 PROCESS FOR MONITORING**

N/A

## **2.7 RELATED/SUPPORTING DOCUMENTS**

N/A

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### **3. TENDER TECHNICAL EVALUATION STRATEGY**

#### **3.1 TECHNICAL EVALUATION THRESHOLD & METHOD**

Mandatory Technical Evaluation Criteria (gatekeepers) are 'must meet' criteria. These criteria shall not be weighted nor 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.

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 minimum weighted final score (threshold) required for a tenderer to be considered from a technical perspective is 70%.

The evaluation of the tender submission will be based on the tenderer's ability to meet the Engineering requirements.

The scoring method will be as stipulated in Table 4.

#### **3.2 TET MEMBERS**

The full time core technical evaluation team will consist of the following team members (in-line with the Tender Engineering Evaluation Procedure, 240-48929482) in Table 1:

**Table 1: TET Members**

<b>TET number</b>	<b>TET Member Name</b>	<b>Designation</b>
1	Mxolisi Nhlengethwa	Electrical Engineering – Technologist
2	Andile Nqayane	Electrical Engineering Manager

The part time/support team member shall be required to fill in a technical evaluation form, if their names are marked as mandatory (X), next to a criterion. The part time/ support team member may not be required to fill in a technical evaluation form, if their names are marked as optional (O) next to a criterion but shall assist the main members where necessary. These members may be as follows in Table 2:

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### 3.3 MANDATORY TECHNICAL EVALUATION CRITERIA

Table 2: Mandatory Technical Evaluation Criteria

No	Mandatory Technical Criteria Description	Tender Returnable	Motivation for use of Criteria
1.	ISO 9001 Certification	ISO 9001 Certificate	Quality
2.	ISO 3834 Part 2 Certification	ISO 3834 Certificate	Quality
3.	10 Electrical Projects Above 1MW	<i>Proof of 10 projects that are 1MW in capacity completed</i>	Integrity
4.	10 Years Electrical/Mechanical Engineering Company Experience	<i>Proof of electrical/mechanical engineering work completed at least 10 years ago.</i>	Integrity
5.	ECSA registered Electrical/Mechanical Technologist/Engineer	<i>ECSA certificate that shows registration as Electrical/Mechanical Engineer/Technologist</i>	Integrity

### 3.4 QUALITATIVE CRITERIA EVALUATION

During the tender evaluations, the following Table 4 shall be used by the TET members to score each criterion:

Table 3: Qualitative Evaluation Criteria Scoring Table

SCORE	PERCENTAGE	DESCRIPTION
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> <ul style="list-style-type: none"> <li>Meet technical requirement(s) with;</li> <li>Acceptable technical risk(s) AND/OR;</li> </ul>

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		<ul style="list-style-type: none"><li>• Acceptable exceptions AND/OR;</li><li>• Acceptable conditions.</li></ul>
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>
<b>Note 1:</b> The scoring table does not allow for scoring of 1 and 3		

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### 3.5 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Table 4: Qualitative Technical Evaluation Criteria

	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
1.				100	
	1.1	Preliminary Method Statement on how the Scope of Work will be performed	<p>Relevant preliminary method statement for execution of the works including sequence the tasks relevant to the scope of work.</p> <p>Not submitted : 0 Completeness (less than 80%) : 2 Completeness (80% or above): 4 Complete : 5</p>		30
	1.2	Proposed staff allocation to the project (Organogram with key personnel indicated for design and construction).	<p>Proposed organogram (for construction supervision);</p> <p>Not submitted : 0 0 – 2 year : 2 2 – 4 year : 4 5 years and above : 5</p>		30
	1.3	<p>Comprehensive CV's of a qualified:</p> <ul style="list-style-type: none"> <li>• electrical artisan,</li> <li>• mechanical artisan,</li> <li>• electrical technologist/engineer</li> <li>• mechanical technologist/engineer ,</li> <li>• quality controller</li> </ul> <p>The CV must show at least 5 years relevant experience to the Scope of Work.</p>	<p>Comprehensive CV's</p> <p>Not submitted : 0 0 – 2 year : 2 2 – 4 year : 4 5 years and above : 5</p>		40



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### 3.5.1 TET Member Responsibilities

Key: X = Mandatory;

**Table 5: TET Member Responsibilities**

Mandatory Criteria Number	TET 1	TET 2
1	X	X
2	X	X
3	X	X
4	X	X
5	X	X
Qualitative Criteria Number	TET 1	TET 2
1.1	X	X
1.2	X	X
1.3	X	X

### 3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

It is anticipated that various risks, exceptions and conditions will be identified during the clarification and negotiation process. Each of those will be considered and evaluated individually to determine whether they are acceptable, unacceptable or whether suitable mitigation measures can be agreed upon.

## 4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation
Andile Nqayane	Duvha Electrical Engineering Manager

## 5. REVISIONS

Date	Rev.	Compiler	Remarks
January 2025	0	Mxolisi Nhlengethwa	1 <sup>st</sup> Issued

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## **6. DEVELOPMENT TEAM**

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

- Mxolisi Nhlengethwa
- Andile Nqayane

## **7. ACKNOWLEDGEMENTS**

- N/A