

Title: **Tender Technical Evaluation  
Strategy for Refurbishment of  
LV motors at Matimba Power  
Station**

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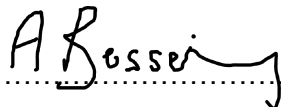
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## 1. INTRODUCTION

This document describes how tenders received for the Refurbishment and repair of LV motors required by Matimba Power Station will be technically evaluated and scored. 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.

## 2. SUPPORTING CLAUSES

### 2.1 SCOPE

This scope covers the Refurbishment and repair of LV motors. No changes will be permitted to be made to the evaluation criteria once the Technical Evaluation Strategy report has been authorised.

#### 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 is applicable to the Refurbishment and repair of LV motors at Matimba 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] 240-168966153: Generation Tender Technical Evaluation Procedure
- [2] Occupational Health and Safety Act, 85 of 1993.
- [3] ISO 9001:2008: Quality management systems.
- [4] SANS IEC 60034-1 to 30: Rotating electrical machines.
- [5] SANS IEC 60085: Electrical insulation- Thermal classification.
- [6] ISO 10816: Vibration severity standard.
- [7] 240-89217674: Refurbishment and repair of power station electrical motors Work Instruction.
- [8] 240-56361435: Transport of Power Station Electric Motors Standard.
- [9] 240-56360387: Storage of Power Station Electric Motors Standard.
- [10] 240-95138097: Standard Electric Motor Test Certificate.

#### 2.2.2 Informative

- [1] ISO 1940-1:2003: Mechanical vibration- Balance quality requirements for rotors in a constant (rigid) state- part 1: Specification and verification of balance tolerance.

## 2.3 DEFINITIONS

None.

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### 2.3.1 Classification

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

### 2.4 ABBREVIATIONS

Abbreviation	Description
EDWL	Engineering Design Work Lead
N/A	Not Applicable
SOW	Scope of Work
TET	Technical Evaluation Team

### 2.5 ROLES AND RESPONSIBILITIES

As per 240-168966153: Generation Tender Technical Evaluation Procedure for Generation

**Maintenance Manager:** The Maintenance Managers Eskom shall ensure that all staff, in their respective areas understand and adhere to this procedure.

**Engineering Design Work Lead (EDWL):** The EDWL is responsible to manage the execution and adherence to this procedure. The EDWL compiles the technical evaluation reports with input from respective TET members.

**Technical Evaluation Team (TET) member:** The delegated engineers / technical specialists who are responsible to review and evaluate technical aspects of the tender documentation as per the Tender Technical Evaluation Strategy. Furthermore, the TET compiles a report detailing the findings of the evaluation for the respective tenders on the allocated area of responsibility as highlighted in Table 5; this is mandatory responsibility for each TET member. The report should also highlight major areas of compliance and non-compliance, risks, points to be considered for negotiations etc. in accordance with the "240-168966153: Generation Tender Technical Evaluation Procedure". Where possible, one consolidated report will be acceptable per functional area, however the report should be supported by the respective TET member score sheets.

### 2.6 PROCESS FOR MONITORING

N/A

### 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
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TET 1	Gwadamani Sehlako	Senior Supervisor
TET 2	Boleo Lesejane	Senior Technician Electrical

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### 3.3 MANDATORY TECHNICAL EVALUATION CRITERIA

Table 2 defines all Mandatory Evaluation Criteria to be used as well as reference to specification and motivation for Criteria use.

**Table 2: Mandatory Technical Evaluation Criteria**

	<b>Mandatory Technical Criteria Description</b>	<b>Reference to Technical Specification / Tender Returnable</b>	<b>Motivation for use of Criteria</b>
1.	Established and fully functional LV motor repair workshop. (YES/NO)  Workshop will be assessed before contract award.	Technical Schedule A&B Section 1.02 and 1.05 Provide the following: a) Name of workshop and physical address. b) Letter confirming capability of repairing all LV motors. c) Company profile with organogram and contact person.	Repair capability is required in local factory to verify Eskom's performance indicators.
2.	Company certified to repair, test and mark motors to be used at areas classified as hazardous locations (Areas with combustible liquids, gases and dust). (YES/NO)	Technical Schedule A&B Section 9.01 Provide the following: a) Copies of repairs and certification of Ex rated LV motors.	Hazardous Location equipment repair capability is required in local factory to verify Eskom's performance indicators.
3.	The tenderer must submit a completed Schedule B of Technical Schedule A&B. (YES/NO)	Completed Technical Schedule B of Technical Schedule A&B.	Mandatory and qualitative evaluation phases of the repair and refurbishment cannot be conducted / completed without these documents.

**NB:** If mandatory criteria 1 to 3 are all met, a qualitative assessment will be done. If the service provider successfully meets the threshold, a factory assessment will be done to verify all the information provided. If the information provided at tendering stage is a negative misrepresentation of the company, the tender will be technically disqualified through these criteria.

### 3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Table 3 defines all Qualitative Evaluation Criteria to be used as well as reference to specification and specific weighting / sub weighting.

**Table 3: Qualitative Technical Evaluation Criteria**

	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
<b>1.</b>	<b>Testing Facilities and Capabilities</b>		<b>Technical Schedule A&amp;B s, and</b>	<b>30</b>	
	1.1	Maximum direct loading testing capability for motor at rated motor power.	<b>Section 3.10:</b> Test bay specification or certificate.		40
	1.2	Maximum volage rating on the test bay.	<b>Section 3.02:</b> Test bay specification or certificate.		40
	1.3	Vibration analysis.	<b>Section 3.12:</b> Vibration spectrum sheet of the previous work done.		20
<b>2.</b>	<b>Experience</b>		<b>Technical Schedule A&amp;B</b>	<b>30</b>	
	2.1	Qualified personnel in terms of SAQA for the following fields: a) Armature winding b) Technical (e.g., Electrical Artisan or Technician or Engineer) c) Quality control d) Fitting and turning e) Vibration analysis	<b>Section 4.0:</b> Provide certified copy of qualifications or certificates for each listed field.		50
	2.2	Average years of experience of qualified personnel.	Provide a copy of CV with 5 years' working experience for each listed field.		50

3.	Factory Facilities and Capabilities		Technical Schedule A&B Sections 2.01, 2.03, 2.11 and 10.01	40	
	3.1	Maximum lifting capability	Section 2.01: Lifting equipment certificate.		25
	3.2	VPI tank size	Section 2.03: Provide the size and proof (in the form of a picture) thereof		25
	3.3	Baking oven size	Section 2.11: Provide the size and proof (in the form of a picture) thereof		25
	3.4	One year warranty	Section 10.01: Provide proof in a form of written letter with company letterheads.		25
				TOTAL: 100	



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**3.5 TET MEMBER RESPONSIBILITIES****Table 4: TET Member Responsibilities**

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

**3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS****3.6.1 Risks****Table 5: Acceptable Technical Risks**

Risk	Description
1.	Subcontracted work and done as per specification.

**Table 6: Unacceptable Technical Risks**

Risk	Description
1.	Compliance to SANS/IEC and/or IEEE standard used for rewind and/or repair.
2.	Lack of experience and repair skill.
3.	Unavailability of repairer workshop.
4.	Past experience that is not related to repair of LV motors.

**3.6.2 Exceptions / Conditions****Table 7: Acceptable Technical Exceptions / Conditions**

Risk	Description
1.	Certification for Ex rated LV motors can be contracted.

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

Risk	Description
1.	No provision of certificates, results, etc.

#### 4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation	Signature
Boleo Lesejane	Senior Technician Electrical	
Gwadamani Sehlako	Senior Supervisor Tech Electrical	

#### 5. REVISIONS

Date	Rev.	Compiler	Remarks
September 2025	0	G Sehlako	Draft
September 2025	1	G Sehlako	Reviewed and final

#### 6. DEVELOPMENT TEAM

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

- Boleo Lesejane
- Gwadamani Sehlako

#### 7. ACKNOWLEDGEMENTS

N/A

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