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

Transformers are major equipment within Eskom Generation and they play a major role in ensuring reliability of supply to Eskom consumers nationwide. It is therefore of high importance to ensuring that proper maintenance is carried out timeously as per Eskom Standards and OEM recommendations in order for the transformers to serve their expected operating design life before replacement.

Oil filled Transformers use oil for insulation and as cooling medium. Oil sampling from Oil Transformers and full analysis will ensure that the equipment health is adequately assessed to ensure that developing faults are detected well in advance.

Online Gas Analysers were installed for online condition monitoring analysis on each of Medupi Power Station big three transformers (i.e. Generator Transformer and two Unit Transformers). It is therefore expected that these Online Gas Analysers be maintained to ensure accurate and reliable analysis of the transformer oil.

Medupi has installed 18 Siemens/Serveron Dissolved Gas Analysers / Gas Guards that samples the transformer oil every four hours to detect any gassing of the transformer oil and send an alarm of any specific gas that has ppm greater than the setpoint and Eskom standards.

## **2. SUPPORTING CLAUSES**

### **2.1 SCOPE**

This document contains the technical evaluation criteria and associated documents relating to a commercial enquiry for the technical evaluation and services of Power Transformers DGA 3 years Contract.

The technical evaluation team members are listed and appointed in this document along with their responsibilities.

The technical evaluation requirements consist of the following criteria:

Mandatory Evaluation Criteria

Qualitative Evaluation Criteria

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

#### **2.1.2 Applicability**

This document shall apply to Medupi Power Station Power Transformers DGA Services Contract.

## **2.2 NORMATIVE/INFORMATIVE REFERENCES**

Parties using this document shall apply the most recent edition of the documents listed in the following paragraphs.

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### **2.2.1 Normative**

- [1] 240-48929482: Tender Technical Evaluation Procedure
- [2] 32-1034: Eskom Procurement Policy

### **2.2.2 Informative**

- [1] ISO 9001:Quality management systems
- [2] ISO 14001: Environmental Management systems
- [3] 474-59: Internal Audit Procedure

## **2.3 DEFINITIONS**

Definition	Description
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.
Local	Within the borders of the Republic of South Africa
Tender	A tender refers to an open or closed competitive request for quotations / prices against a clearly defined scope / specification.

### **2.3.1 Classification**

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

## **2.4 ABBREVIATIONS**

Abbreviation	Description
BOM	Bill Of Material
DGA	Dissolved Gas Analyser
C&I	Control & Instrumentation
CoE	Centre of Excellence
HV	High Voltage
LV	Low Voltage
TRFR	Transformer
SOW	Scope Of Work
TTES	Tender Technical Evaluation Strategy
TEC	Technical Evaluation Criteria
TET	Technical Evaluation Team

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## **2.5 ROLES AND RESPONSIBILITIES**

As per 240-48929482: Tender Technical Evaluation Procedure

## **2.6 PROCESS FOR MONITORING**

This procedure shall be monitored by 474-59: Internal Audit Procedure

## **2.7 RELATED/SUPPORTING DOCUMENTS**

Tender Technical Evaluation Scoring Form

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

### **3.1 TECHNICAL EVALUATION THRESHOLD**

The section details the methodology to be employed by Eskom in scoring the "Technical" category of the tender evaluation. This evaluation exercise is performed by the appointed Eskom TET.

The evaluation of the tenders will be based on the tenderer's ability to meet the technical requirements. The evaluation consists of only qualitative criteria.

The qualitative evaluation shall apply a weighted score card approach to evaluate the tenders against the specifications and employers requirement. The score card below will be used.

**Table 1: Qualitative Evaluation Criteria Scoring Table**

<b>Score</b>	<b>Weight score%</b>	<b>DESCRIPTION</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> <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>
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>

The minimum weighted final score (threshold) required for a tender to be considered from a technical perspective is 75%.

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### **3.2 TET MEMBERS**

**Table 2: TET Members**

<b>TET number</b>	<b>TET Member Name</b>	<b>Designation</b>
TET 1	Lenox Mokoka	System Engineer
TET 2	Prince Twala	Senior Supervisor
TET 3	Khotso Magaela	Technician

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3.3 MANDATORY TECHNICAL EVALUATION CRITERIA

Table 1: Mandatory Technical Evaluation Criteria

Mandatory Technical Evaluation Criteria		Reference to Technical Specification / Tender Returnable	Motivation & Comments
1	N/A		

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**3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA**

**Table 2: Qualitative Technical Evaluation Criteria**


**Eskom**

EVALUATION CRITERIA- Supply of Medupi Power Transformers Spares- External Contractor

(PART A) TECHNICAL CRITERIA - TECHNICAL SELECTION CRITERIA												
Item No:	KPA - Area of Evaluation	Weight (%)	KPI - Criteria Evaluation Indicator	Minimum Criteria Evaluation Requirements	Source	Unit	Scale				Score	Weighted score
							0	2	4	5		
1.	Company Experience	50%	Experience on similar works	Tenderer Company background and experience on the services of Power transformers DGAs.	<p>The tenderer shall provide the previous certified copies of PO/Contract as proof and these copies should include the following information:</p> <ul style="list-style-type: none"> <li>• Type of work(Service, maintenance, spares replacement etc)</li> <li>• Name of company where similar services were provided to and accepted.</li> <li>• Value of the PO/contract.</li> <li>• Contact persons and contact details (reference)</li> </ul>	50	0 references = 0%	5 or below references = 40%	6-7 references = 80%	8 or more references = 100%		
2.	Quality Control	20%	Quality control	A high-level Quality control plan (QCP) /ITP template covering all of the work to be completed as per the scope of work or source column.	<p><i>Tenderer</i> shall submit high level QCP/ITP template which covers the work to be executed as per the scope of work including but not limited to:</p> <ol style="list-style-type: none"> <li>1. Scope of work</li> <li>2. Description of activities</li> <li>3. Control documents (I.e specifications, Standard)</li> <li>4. Intervention points (H/I/T/R/W)</li> <li>5. Required documentation (I.e item data sheet, calibration certificates, test results etc)</li> </ol>	20	No QCP submitted for the work areas  0%	QCP have been submitted but do not cover all the areas as per the SOW or the QCP includes 3 or less than minimum items listed in source column 40%	QCP have been submitted but do not cover all the areas as per the SOW or includes 4-5 minimum items listed in source column 80%	QCP have been submitted and cover all the areas as per the SOW or all 6 minimum items listed in source column 100%		



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					6. Supplier & Client signature, dates and remarks						
	Personnel Experience and qualifications	30%	Engineering technical Ability	Technical Qualifications and Experience of Individuals involved on the contract for Power transformers DGAs	Tenderer shall provide CVs of 4X Technicians/Supervisor with experience on or similar works to Serveron dissolved gas analysers	30	No experience 0%	Less than 3 years' experience and N3 or higher technical qualification (Mechanical or Electrical/Electronic) 40%	3-5 yrs Experience and N3 or higher technical qualification (Mechanical or Electrical /Electronic) 80%	5 and more yrs experience and N3 or higher technical qualification (Mechanical /Electrical Electronic) 100%	
	TOTAL SCORE										
	TAKE NOTE: ONLY TECHNICAL SUITABLE IF TOTAL SCORE IS EQUAL TO OR GREATER THAN 75%										

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### **3.5 TET MEMBER RESPONSIBILITIES**

**Table 3: TET Member Responsibilities**

<b>Mandatory Criteria Number</b>	<b>TET 1</b>	<b>TET 2</b>	<b>TET 3</b>
N/A			
<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

3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.6.1 Risks

Table 4: Acceptable Technical Risks

Risk	Description
1.	
2.	

Table 5: Unacceptable Technical Risks

Risk	Description
1.	
2.	

3.6.2 Exceptions / Conditions

Table 6: Acceptable Technical Exceptions / Conditions

Risk	Description
1	Supplier/Tenderer that are non-OEM's
2	

Table 7: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	

#### **4. AUTHORISATION**

This document has been seen and accepted by:

<b>Name</b>	<b>Designation</b>
Conrad Matthee	Senior Engineer Electrical
Derrick Chauke	Electrical Engineering Manager
Pontsho Letsholonyane	Contracts Management
Portia Lutumbu	Electrical Maintenance Manager
Vhutali Mandavha	Senior Technician Electrical
Xolani Mcawe	Technician Electrical
Cathrine Hlanyane	Senior Technician Electrical

#### **5. REVISIONS**

<b>Date</b>	<b>Rev.</b>	<b>Compiler</b>	<b>Remarks</b>
October 2024	1	Khotso Magaela	First Issue

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

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

Khotso Magaela

Lenox Mokoka

Prince Twala

#### **7. ACKNOWLEDGEMENTS**

N/A

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