

Title: **TECHNICAL TENDER  
EVALUATION CRITERIA FOR  
AUXILIARY TRANSFORMERS  
AND NECRTS**

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## **1 Introduction**

This is the technical tender evaluation criteria to be used for tenders against the specifications 240-57648800 and 240-57648848

## **2 Supporting clauses**

### **2.1 Scope**

This document presents the technical tender evaluation criteria to be used for tenders against the following documents: Specification for Auxiliary Transformers: 240-57648800 Specification for NECRT 240-57648848.

#### **2.1.1 Purpose**

The purpose of this standard is to ensure consistent evaluation of tenders for the mentioned commodity

#### **2.1.2 Applicability**

This document applies only to tender for auxiliary transformers and Combined Neutral electromagnetic compensators, resistors and transformers.

### **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] ISO 9001, Quality Management Systems.
- [2] 240-57648800 – Specification for new oil filled auxiliary transformers rated 1 MVA and below and 33kV and below.
- [3] 240-57648848 – Specification For Combined Three– Phase (NECS) With (NERS) And Auxiliary Transformers
- [4] 32-1033 Eskom Procurement Policy

#### **2.2.2 Informative**

- [4] 32-9: Definition of Eskom documents.
- [5] 32-644: Eskom documentation management standard.

### **2.3 Definitions**

Definition as per 2440-57648800

### **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>
<b>BIL</b>	Basic Insulation Level
<b>CG</b>	Care Group
<b>HV</b>	Highest Voltage
<b>kV</b>	Kilo - Volt
<b>SCOT</b>	Steering Committee of Technologies
<b>NECRT</b>	Neutral Electromagnetic Coupler, Resistor and Transformer.

## **2.5 Roles and responsibilities**

When evaluating tenders to the applicable specifications this criterion will be used by the Technical Evaluation Team which will be appointed members from the various technical disciplines of Eskom.

## **2.6 Process for monitoring**

These criteria will be updated if the Procurement Policy [3] requires it to change or if the SCOT CG requires technical changes to it.

## **2.7 Related/supporting documents**

See normative references.

## **3 Evaluation Criteria**

The following criteria are developed in line with the Eskom Procurement Policy [3]. For a tenderer to pass the technical evaluation, a minimum of 80 points must be retained out of 100 for both the mandatory and scored criteria. If less than 80 points are scored in the mandatory criteria, the evaluation will not proceed to the scored criteria. The following sections show the point deductions that will be implemented for various aspects of functionality based on the technical specifications.

**3.1 Mandatory Criteria for Technical Requirements (100 points)**

	ITEM	Deduction if any item not compliant		
1	If any one of the items listed below do not comply with the Specification and Schedules the full deductions will apply		Yes =0	No=-21
	Voltages and voltage ratio			
	Regulation range			
	Vector group			
	Power rating			
	Impedance			
	Type of product (AUX, NECRT, NER, NEC )			
	Frequency			
2	<b>SCORED CRITERIA</b>	0	-3	-10
	Dielectric design	No concerns	Minor concerns	Major concerns
	Flux density	Below (<1.75 )	Flux density between 1.75 – 1.8	High than >1.8
	Short circuit design and safety margin ( p )	Foil / $p > 1.3$	$1.2 < p < 1.3$	$p > 1.2$
	Thermal design	No concerns	Minor concerns	Major concerns
3	Auxiliary Components Compliance : Are these components complying with all our requirements	0	-5	-15
	Bushings	Yes	No	
	Buchholz	Yes	No	
	Oil level gauge	Yes	No	
	Drawings	No concern	Minor	Not matching the offer

## 4 Authorization

This document has been seen and accepted by:

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## 5 Revisions

Date	Rev	Compiler	Remarks
March 2014	1	C.P Wolmarans	New document
March 2014	2	C.P Wolmarans	Revised to be in line with 240-57648848. Transferred content to new Template. Section 3 has changed to reflect the new scorings.
May 2018	3	MM Ngubane	<ul style="list-style-type: none"><li>Removed type tests from the evaluation because type tests are done at the tail end for each type</li><li>Revised auxiliary components evaluation to one consolidated outcome per item from many points per item. This was for simplicity purposes per item.</li><li>Losses removed as they form part of Total cost of ownership calculation.</li><li>Revised penalty level.</li></ul>

## 6 Development team

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

- Michael Ngubane
- Adesh Singh
- Mohamed Mukuddem

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## **7 Acknowledgement**

The following people are acknowledged for compiling the original document.

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