

Title: **TECHNICAL EVALUATION
STANDARD FOR SUBSTATION
TUBULAR CLAMPS – EPC
CONTRACTING**

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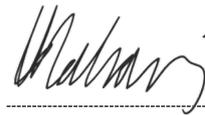
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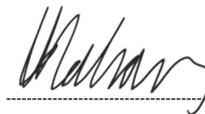
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1. Introduction

This document has been developed in accordance with Eskom Procurement and Supply Management Procedure 32-1034 and is used to define the standard technical evaluation criteria to be used when evaluating pre-qualification submissions.

The document defines various aspects required to perform the technical evaluation and contains the evaluation criteria used at paper evaluation and the associated sample evaluation.

2. Supporting clauses

2.1 Scope

The scope of work for this tender includes the manufacture, testing and supply of substation clamps for tubular conductors.

2.1.1 Purpose

The purpose of this document is to standardise the technical strategy and evaluation criteria for application during formal Commercial Enquiry processes for Eskom Transmission substation tubular conductor clamps in alignment with Eskom Holdings SOC (Ltd) policies.

2.1.2 Applicability

This document shall apply throughout the Eskom Transmission Division. It is also applicable for all external parties constructing substation infrastructure projects that will be handed over operationally to Eskom.

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] 32-1034, Eskom Procurement and Supply Management Procedure
- [2] 240-48929482, Tender Technical Evaluation Procedure
- [3] 240-53113923, Specification for Substation Clamps for Tube Aluminium Conductors
- [4] 240-83534936, Tubular and Stranded Conductor Clamps Additional to the Existing Standards
- [5] ISO 9001, Quality Management Systems.

2.2.2 Informative

None

2.3 Definitions

2.3.1 General

Definition	Description
Accredited testing laboratory/authority	A laboratory which is ISO/IEC 17025 accredited and/or that holds valid certification issued by ILAC (International Laboratory Accreditation Corporation) or one of its members.

Definition	Description
Certified test report	A certificate of tests performed as specified within the specification, and carried out by an accredited authority or by the manufacturer and witnessed by an accredited authority that has been accredited in accordance with ISO/IEC 17011 and ISO/IEC 17025.
Eskom assessment / evaluation representative(s)	The person(s) appointed by Eskom to perform evaluation of tender submission (s) in line with Eskom requirements.
Routine test	Tests done to verify the quality and uniformity of the workmanship and materials used in the manufacture of substation tubular conductors.
Type test	Tests done on the completion of the development of a new design to establish representative performance data. They need to be repeated if the design is changed to modify its performance or there is a change in the manufacturing process.

2.3.2 Disclosure classification

Controlled disclosure: controlled disclosure to external parties (either enforced by law, or discretionary).

2.4 Abbreviations

Abbreviation	Description
OEM	Original Equipment Manufacturer
SAP	Systems Application Processes

2.5 Roles and responsibilities

Suppliers are responsible for manufacturing, testing and supplying products in accordance with documents [3] and [4]. All personnel involved within the substation environment shall ensure compliance to these requirements and that clamps for tubular conductors are evaluated in accordance with this document.

2.6 Process for monitoring

All clamps for tubular conductors to be supplied to Eskom shall be in accordance with [3] and [4], and shall be evaluated against the criteria as stipulated in this document. The Substations COE will ensure that it is updated should it be required with the support of the Substations Products Care Group.

2.7 Related/supporting documents

This document must be applied together with documents [3] and [4].

3. Requirements

3.1 General

The technical evaluation for the substation tubular conductor clamps shall be composed of documentation evaluation. The criteria for the technical evaluation are based on the specified requirements in the Eskom Standard 240-53113923: Specification for Substation Clamps for Tube Aluminium Conductors.

All documentation for this tender shall be in English.

For the supplier's submission to be compliant all tender technical returnables must be submitted as required and score at least 70% in the qualitative evaluation.

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Suppliers who are tendering but are not the OEM of the product must source the required technical returnable from the OEM where relevant. Missing information will not be requested after the Enquiry closing date.

If any part or sub-component of the production process is outsourced, the Supplier shall retain full and complete accountability for the (entire) product.

3.2 Desktop Evaluation

The desktop evaluation shall be conducted by the Eskom assessment representatives. This part of the evaluation will start when submissions are opened the first time. It begins with the confirmation that all tender technical returnables have been submitted. Tenderers are to submit all the required tender technical returnables and highlight any clarification prior to tender close.

During the qualitative assessment, the Eskom evaluating representatives will go through the qualifying submissions in detail and score each item evaluated. Refer to Annex A. The tender submission must score a minimum of 70% in the qualitative evaluation to be considered as technically qualified.

Local Suppliers Vexila (Pfisterer), McWade and Preformed Line Products South Africa (PLP) have been evaluated previously and deemed technically acceptable for application within Eskom Transmission. At tender stage commitment letters to procure from these suppliers will be deemed technically acceptable and need not be evaluated any further.

3.3 Technical returnables

The following documents shall be submitted when tendering:

- a) A full list of clamps on offer and as requested in the tender
- b) A set of dimensioned outline drawings for each type of connector/clamp including ratings
- c) A completed technical schedule B as stipulated in Annex B of 240-53113927, Specification for Substation Clamps for Stranded Aluminium Conductors, [3] for each clamp type. The technical schedule B shall not be left blank. Where numerical values (for example, rated values and dimensions) or specific information is required, the actual value/information shall be stated. In such cases, use of words, such as “COMPLY”, “TBA”, is not acceptable.
- d) Welding procedure
- e) Proof of accreditation of welder
- f) A list and copies of all type test certificates and reports specified in the specification, section 3.4.2 & 3.4.6 Type test in [3] 240-53113923, Specification for Substation Clamps for Tube Aluminium Conductors.
- g) List of relevant and comparable Eskom projects undertaken. The list shall include project scope, substation name, completion date, project value and Eskom contact person and details. The contractor shall further include any concessions made during each project execution.

4. Authorization

This document has been seen and accepted by:

Name and surname	Designation
Derrick Delly	Chief Engineer – Substation Engineering
Subhas Maharaj	Senior Manager – Substation Engineering

5. Revisions

Date	Rev	Compiler	Remarks
Dec 2023	1	Mark Peffer	First issue 2.1.2 Applicability amended to Transmission division

6. Development team

- Mark Peffer

7. Acknowledgements

Not applicable.

Annex A – Desktop Documentation Evaluation: Qualitative Criteria

After it has been confirmed that all the tender technical returnables have been submitted and that critical requirements have been met, the submission will be assessed against the following criteria (shown below with weightings) with detail as stipulated in [3], 240-53113923 Specification for Substation Clamps for Tube Aluminium Conductors and [4], 240-83534936.

Criteria	Section	% weight	Weighted Score
Clamp Range	A1	30	
Technical Schedules	A2	45	
Outline Drawings	A3	25	
Total		100	

For each evaluation criteria, the extent to which submissions comply with the requirements shall be scored based on the following, with a maximum score of 100.

5	100%	COMPLIANT Meet technical requirement(s) AND; No foreseen technical risk(s) in meeting technical requirements.
4	80%	COMPLIANT WITH ASSOCIATED QUALIFICATIONS Meet technical requirement(s) with; Acceptable technical risk(s) AND/OR; Acceptable exceptions AND/OR; Acceptable conditions.
2	40%	NON-COMPLIANT Does not meet technical requirement(s) AND/OR; Unacceptable technical risk(s) AND/OR; Unacceptable exceptions AND/OR; Unacceptable conditions.
0	0%	TOTALLY DEFICIENT OR NON-RESPONSIVE

Threshold: The score that each tenderer receives will provide a numeric basis for tender comparison. The minimum weighted average score required for sections A1 to A3 for a tubular conductor clamp to be considered must be 70% or above.

A1	CLAMPING RANGE			
ITEM NO	DESCRIPTION	UNIT	CRITERIA	SCORE
A1.1	Does the supplier supply all the clamps required?	% of required clamps listed	100 %	5
			80%	4
			40%	2
			0%	0
Clamping Range (maximum points: 5)			Score	
CLAMPING RANGE (section weight: 30%)			Weighted Score = $(\text{Score}) * \left(\frac{30}{5}\right)$	

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A2		TECHNICAL SCHEDULES		
ITEM NO	DESCRIPTION	UNIT	CRITERIA	SCORE
A2.1 Compliance with Technical Requirements	Does the supplier comply with the technical requirements as stipulated in the Technical Schedules?	% compliance	100 %	5
			80%	4
			40%	2
			0%	0
TECHNICAL SCHEDULES (maximum points: 5)			SCORE	
TECHNICAL SCHEDULES (section weight: 45%)			Weighted Score = $(\text{Score 1}) * \left(\frac{45}{5}\right)$	

A3		OUTLINE DRAWINGS		
ITEM NO	DESCRIPTION	UNIT	CRITERIA	SCORE
A3.1	Clamp description	% drawings correct	100%	5
			80%	4
			40%	2
			0%	0
A3.2	Eskom code	% drawings correct	100 %	5
			80%	4
			40%	2
			0%	0
A3.3	Drawing number	% drawings correct	100 %	5
			80%	4
			40%	2
			0%	0
A3		OUTLINE DRAWINGS		
ITEM NO	DESCRIPTION	UNIT	CRITERIA	SCORE
A3.4	Ratings	% drawings correct	100 %	5
			80%	4
			40%	2
			0%	0
A3.5	Dimensions including weight (in kg)	% drawings correct	100 %	5
			80%	4
			40%	2
			0%	0

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Outline Drawings (maximum points: 25)	Score	
OUTLINE DRAWINGS (section weight: 25%)	Weighted Score = (Score) * $\left(\frac{25}{25}\right)$	