

 Eskom	Standard	Technology
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STANDARD FOR AIR CORE
REACTORS**

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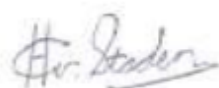


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1. Introduction

This document is aimed at outlining the standard to be adhered to when performing technical tender evaluations for tender submissions for air core reactors for any application. This document was compiled in accordance with [1].

2. Supporting clauses

2.1 Scope

This document covers the technical evaluation criteria to be used during tender technical evaluations.

2.1.1 Purpose

This document is in place to ensure that the technical evaluation on air core reactors is carried out according to the requirements of Eskom Holdings SOC (Ltd).

2.1.2 Applicability

This document shall apply throughout Eskom Holdings Limited Divisions.

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 chain management.
- [2] 240-4258702, Specification for air core reactors.
- [3] 240-56030435, Outdoor ceramic station post insulators for systems with nominal voltages up to 765kV specification.
- [4] 240-79707491, Technical evaluation standard for outdoor ceramic station post insulators for systems with nominal voltages up to 765kV.
- [5] 240-132631415, Technical evaluation criteria for post insulators used as general supports for high voltage plant equipment.
- [6] ISO 9001, Quality Management Systems

2.2.2 Informative

- [7] 32-9, Definition of Eskom documents.
- [8] 32-1034, Eskom Procurement and Supply Management Procedure
- [9] 32-644, Eskom documentation management standard
- [10] 474-65, Operating manual of the Steering Committee of Technologies (SCOT)
- [11] QM58, Supplier contract quality requirements specification

2.3 Definitions

2.3.1 General

Definition	Description
Eskom Assessment Representative(s)	The person(s) appointed by Eskom to perform evaluation of tender submissions in line with Eskom requirements.
Functionality	Means the ability of a tenderer to provide goods or services in accordance with specifications as set out in the tender documents;
Sliding scale points system	Refers to allocating maximum points to the tenderers whose value in question is higher according to the most superior performance amongst others and proportionally deducting points from those tenderers who are lower than that reference value.
Technically Acceptable offers	Submissions that have met minimum threshold score.

2.3.2 Disclosure classification

Public domain: published in any public forum without constraints (either enforced by law, or discretionary).

2.4 Abbreviations

Not applicable.

2.5 Roles and responsibilities

The Power Electronics Care Group Coordinator must ensure that this document is updated, renewed and current at all times.

2.6 Process for monitoring

This process will be monitored and governed by the procurement process.

2.7 Related/supporting documents

Not applicable.

3. Technical Evaluation Procedure

The technical evaluation criteria are compiled according to Eskom's procurement procedure [8]. The technical evaluation commences after the tender closing date and once all submissions are received by the technical cross-functional team evaluating the offers. Information submitted with the tender at the bid stage must adequately address all items listed under the functionality criteria in Table A.1 in Annex A. The submitted information must be of sufficient detail to allow the evaluating team to make a confident evaluation of the offer against the requirements stipulated. The outline of the process is provided below;

The evaluation and scoring will be conducted on each submission in accordance with the scoring criteria defined in Annex A of this document. Every criterion is scored and weighted according to its level of importance in the functionality of the system.

Items requiring clarifications (if any) will be communicated to the Contractor for official response. The Contractor will be given a period of 5 working days to respond to the issues raised in the clarification requests.

Only submissions that score above the stipulated threshold will then be allowed to progress further in the procurement process. The stipulated threshold is 80%.

If there are any deficiencies in the submissions that score above the stipulated threshold, the Contractor may be required to submit outstanding information and correct any deficiencies to the satisfaction of Eskom prior to contract award.

Bidders who are unable to demonstrate compliance to all applicable requirements and/or scoring below the thresholds at the required stages in the procurement process will be rejected.

The bidder will be considered technically acceptable when they pass the functionality criteria for the air-core reactor design requested.

The scoring of functionality criteria shall be based on the degree of achievement by the tenderer to meet the technical requirements. As sliding Table A.2 in Annex A will be used as a guideline to determine the degree of achievement of each functionality criterion.

4. Authorization

This document has been seen and accepted by:

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5. Revisions

Date	Rev	Compiler	Remarks
Dec 2020	2	Mogale Sekgobela	2.2.1: Normative reference updated to include 240-132631415, Technical evaluation criteria for post insulators used as general supports for high voltage plant equipment. 2.3.1: Amended the list of definitions to remove Sliding scale point system and included Technically Acceptable offers and functionality. 3: Amended the evaluation criteria to comply with the revised Appendix B of [8]. Annex A: Amended the table to comply with the revised Appendix B of [8].
March 2015	1	K Pickster	New document required for air core reactors

6. Development team

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

- Mogale Sekgobela

7. Acknowledgements

The author would like to extend their gratitude to part of the authorising team for their effort in reviewing this document.

Annex A – Tender Functionality Criteria and Scoring**Table A.1: Functionality Criteria**

Item	Functionality criteria	Clause	Criteria Weighting (%)	Location of evidence (file and tab numbers)
1	Compliance with reactor ratings and general requirements and acceptability of deviations if declared.	AB schedules	21 %	
2	All tests offered (at correct test levels) including special tests as may be requested.	3.10	21 %	
3	Drawings (formal prelim design drawings) with all dimensions	3.11	21 %	
4	Reference list with comparable references	3.20	21 %	
5	Instruction/maintenance manuals	3.11	4 %	
6	Technical report demonstrating Overload capability	3.16	4 %	
7	Technical report demonstrating short circuit capability	4.3, 5.3, 6.3, 7.3...as applicable	4 %	
8	Technical report demonstrating temperature rise calculations and measurement methods	4.1, 5.1, 6.1, 7.1...as applicable	4 %	

Note: Evidence can be in the form of compliance statements, commitment statements, design documents, calculations, studies, proposals, equipment technical schedules, test reports, project schedules, drawings, Eskom issued factory assessment reports or as may be applicable in demonstrating compliance to requirements stipulated in 240-42587021. Evidence submitted must be relevant to the solution offered.

Table A.2: Scoring Guideline for Functionality Criteria

%	Definition
100	Compliant - Meet technical requirements and - No foreseen technical risks in meeting the technical requirements. OR Compliant with Associated Qualifications Meet technical requirements with; - Acceptable technical risks and/or - Acceptable exceptions and/or - Acceptable conditions
0	Non-Compliant - Does not meet technical requirements and/or - Unacceptable technical risks and/or - Unacceptable exceptions and/or - Unacceptable conditions and/or totally deficient or non-responsive

Note 1: Foreseen acceptable risks, exceptions and conditions include:
Evidence that is missing or in conflict with the requirements that is considered minor, correctable prior to contract award and does not prevent the evaluating team from making a confident evaluation of the offer.

Note 2: Foreseen unacceptable risks, exceptions and conditions include:
Evidence that is missing or in conflict with the requirements that is considered a significant deficiency in the design and/or significant deviation from the requirements of the employer's intent.