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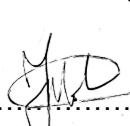
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## CONTENTS

	Page
<b>1. INTRODUCTION .....</b>	<b>3</b>
<b>2. SUPPORTING CLAUSES .....</b>	<b>3</b>
2.1 SCOPE .....	3
2.1.1 Purpose .....	3
2.1.2 Applicability .....	3
2.2 NORMATIVE/INFORMATIVE REFERENCES .....	3
2.2.1 Normative .....	3
2.2.2 Informative .....	3
2.3 DEFINITIONS .....	3
2.3.1 Disclosure Classification .....	3
2.4 ABBREVIATIONS .....	3
2.5 ROLES AND RESPONSIBILITIES .....	4
2.6 PROCESS FOR MONITORING .....	4
2.7 RELATED/SUPPORTING DOCUMENTS .....	4
<b>3. DOCUMENT CONTENT .....</b>	<b>5</b>
3.1 LINE HARDWARE EVALUATION PROCESS .....	5
3.2 ENTRANCE REQUIREMENTS .....	5
3.3 DESKTOP EVALUATION OF DRAWINGS .....	6
3.4 FACTORY EVALUATION .....	6
<b>4. AUTHORISATION .....</b>	<b>7</b>
<b>5. REVISIONS .....</b>	<b>7</b>
<b>6. DEVELOPMENT TEAM .....</b>	<b>7</b>
<b>7. ACKNOWLEDGEMENTS .....</b>	<b>7</b>
<b>APPENDIX 1: ENTRANCE REQUIREMENTS .....</b>	<b>8</b>
<b>APPENDIX 2A: DESKTOP STUDY OF DRAWINGS-ASSEMBLIES .....</b>	<b>9</b>
<b>APPENDIX 2B: DESKTOP STUDY OF DRAWINGS-INDIVIDUAL ITEMS .....</b>	<b>10</b>

### CONTROLLED DISCLOSURE

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## 1. INTRODUCTION

This standard depicts the technical evaluation process, criteria and scoring to be used when evaluating Line Hardware suppliers for technical compliance for the supply of line hardware for the interim contract.

## 2. SUPPORTING CLAUSES

### 2.1 SCOPE

The document outlines the technical evaluation process, criteria and scoring to be used when conducting evaluations on hardware suppliers. It does not inform you how to conduct the evaluation, and what credentials you require to conduct such an audit.

#### 2.1.1 Purpose

The purpose of this document is to finalise and register the documents used to conduct hardware evaluations.

#### 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.

240-6077474- Specification for Suspension and Strain Assemblies and for hardware for Transmission lines.

SABS IEC 61284: 1997- Overhead Lines- Requirements and Tests for fittings.

IEC 61854- Overhead lines- Requirements and tests for spacers.

#### 2.2.1 Normative

[1] ISO 9001 Quality Management Systems.

#### 2.2.2 Informative

N/A

### 2.3 DEFINITIONS

Definition	Description
N/A	

#### 2.3.1 Disclosure Classification

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

### 2.4 ABBREVIATIONS

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Abbreviation	Description
N/A	

## 2.5 ROLES AND RESPONSIBILITIES

1. It is the responsibility of the accountable section manager to make sure that evaluators are subject matter experts in line hardware design and application before they evaluate suppliers.

2. Evaluators need to use the latest evaluation sheets available or the latest signed standard depicting these documents.

## 2.6 PROCESS FOR MONITORING

N/A

## 2.7 RELATED/SUPPORTING DOCUMENTS

N/A

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### 3. DOCUMENT CONTENT

#### 3.1 LINE HARDWARE EVALUATION PROCESS

Below is the process that will be followed when conducting the technical evaluations for Line hardware for the interim contract.

Basically, this evaluation process consists of 3 steps.

**Table 1: Full evaluation process**

		THRESHOLD	FULL SCORE	MIN REQUIRED	WAY FORWARD
1	APPENDIX 1- ENTRANCE REQUIREMENTS	70%	39	27.3	If you get min 70% for this section, you move on to next desktop evaluations- APPENDIX 2
2	APPENDIX 2- DESKTOP EVALUATION OF DRAWINGS- ASSEMBLIES AND INDIVIDUAL ITEMS	70%	676	473.2	Move to Factory evaluation for confirmation of submissions.
3	FACTORY EVALUATION	Need to show that what they submitted in APPENDIX 1 is true			If factory evaluation proves that tenderer has submitted all information in APPENDIX 1 truly, and Eskom Technical verifies all requirements in the factory, the tenderer is technically acceptable.

#### 3.2 ENTRANCE REQUIREMENTS

In order for a tenderer to be technically compliant, Eskom needs to know their technical capabilities and evaluate accordingly. This first step of the evaluation, determines if the tenderer is technically acceptable to manufacture hardware as per the international specifications and Eskom requirements. APPENDIX 1 lists the requirements, full scores achievable and the threshold of 70%. If a tenderer achieves the minimum threshold score of 70%, they progress to the next step.

Tenderers must take note that for them to tender on any item/assembly, every item used must be fully type tested. No time allowance will be made to any tenderer for items to be tested. Tenderers are urged not to include items in the tender which have not been type tested. Although no specific score is allocated for type tests in this tender, it must be noted that when the factory evaluation is done, checks will be done to verify type tests on products.

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### 3.3 DESKTOP EVALUATION OF DRAWINGS

APPENDIX 2A and 2B details the Eskom evaluation criteria for hardware components and assemblies. These spreadsheets list the technical requirements per assembly or component and the applicable score. Once this is populated by the Evaluators, a total score is given per tenderer. The tenderer needs to achieve a min score of 473.2, which is a 70% threshold limit.

### 3.4 FACTORY EVALUATION

After the desktop evaluations and when a tenderer achieves the threshold for APPENDIX 1 and APPENDIX 2, they are recommended for a factory evaluation. During this evaluation, all criteria listed in APPENDIX 1 are verified. If a factory evaluation on a tenderer shows that information supplied is not acceptable, their overall score will be reduced for APPENDIX 1 and they can be removed from the shortlisted list. In addition to verifying APPENDIX 1 submission, Eskom will review type test reports for items tendered for. Any items not having an acceptable valid type test will not be considered based on discussions that will take place at the factory to determine the way forward. Tenderers who successfully pass the factory evaluation will be recommended technically for this contract.

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#### 4. AUTHORISATION

This document has been seen and accepted by:

Name & Surname	Designation
Bharat Haridass	Senior Consultant
Ockert Fourie	Senior Engineer
Bertie Jacobs	Chief technologist

#### 5. REVISIONS

Date	Rev.	Compiler	Remarks
February 2022	1	Ockert Fourie	New document for tender purposes.

#### 6. DEVELOPMENT TEAM

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

- As per authorisation team

#### 7. ACKNOWLEDGEMENTS

- N/A

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## APPENDIX 1: ENTRANCE REQUIREMENTS

APPENDIX 1- ENTRANCE REQUIREMENTS							
	Entrance level questions	Supplier comments	Concerns	Assessment conclusion	Scoring	Total marks achievable	
1	Ability to supply complete assemblies including all shackles, yokes and other hardware components that make up the assemblies. Evidence that complete assemblies can be supplied. Documents or company catalogue to be submitted to verify this aspect.				Statement-1, drawings or catalogue-1, place of manufacture of each item-1	3	
2	Ability to supply assemblies for single, twin, triple, quad and hex conductor configurations as a minimum requirement as per Eskom conceptual drawings. Proof in the form of technical drawings indicating complete assembled assemblies as well as separate individual drawings of components, indicating assembly or component strength, dimensions, type of material and key processes, mass etc, to be supplied.				Drawings indicating- component strength, dimensions, type of material and key processes, mass, individual item number, to be supplied.		
3	Confirm that manufacturing, design and testing will be in accordance to SANS IEC 61284:1997 and Eskom hardware specification-240-6077474. Letter stating this aspect to be submitted, as well as company policies stating this requirement.				Company statement, plus company policies	6	
4	All testing to be done by laboratories that have calibrated equipment and competent personnel capable of operating and performing tests correctly. Documents containing laboratory setup, equipment lists, equipment calibration certificates, testing personnel qualification, laboratory procedures for testing to be submitted. Main criteria is that the laboratory must have an ISO 9001 management system in place or a management system that conforms to ISO 9001.				laboratory setup, equipment lists, equipment calibration certificates, testing personnel qualification, laboratory procedures for testing to be submitted. Main criteria is that the laboratory must have an ISO 9001 management system in place or a management system that conforms to ISO 9001.	2	
5	Show evidence of Type testing on each individual item, in accordance to SANS IEC 61284: 1997 and relevant Eskom product specification -240-6077474. For this tender, spreadsheet A, to be completed by tenderer. Please indicate on spreadsheet if items still need to be type tested, if not done so already.				Spreadsheet A complete for future tests, or not completed because all tests are done. Evidence provided for all items tendered on	6	
6	Show evidence of Sample testing in accordance to SANS IEC 61284: 1997 and relevant Eskom product specification-240-6077474. For this tender, documents showing that the above requirements can be met.				Typical test procedures submitted for each area of production, Forging, casting, plate work.	2	
7	Show evidence of Production testing in accordance to SANS IEC 61284: 1997 and relevant Eskom product specification-240-6077474. For this tender, documents showing that the above requirements can be met.				Typical test procedures submitted for each area of production, Forging, casting, plate work.	3	
8	Indicate the maximum strength class of hardware that you can supply. Eskom requirement ranges from 120kN up to 900kN.				Details to be supplied on range of items that can be produced. 120kN, 210kN, 300kN, 450kN, 600kN, 900kN.	3	
9	Ability to produce twin, triple, quad and six conductor spacer dampers. Drawings and specifications must be supplied.				Four types of spacer dampers	6	
10	Ability to produce twin, triple, quad and six conductor rigid dampers. Drawings and specifications must be supplied.				Four types of rigid spacers	4	
	Total marks				0	39	

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## **APPENDIX 2A: DESKTOP STUDY OF DRAWINGS-ASSEMBLIES**

See Separate PDF documents.

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## **APPENDIX 2B: DESKTOP STUDY OF DRAWINGS-INDIVIDUAL ITEMS**

See Separate PDF documents.

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