

 <b>Eskom</b>	<b>Report</b>	<b>Technology</b>
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Title: **TECHNICAL EVALUATION  
CRITERIA FOR NON-LETHAL  
ENERGIZED PERIMETER  
DETECTION SYSTEM (NLEPDS)** Unique Identifier: **240-134779125**  
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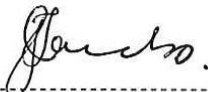
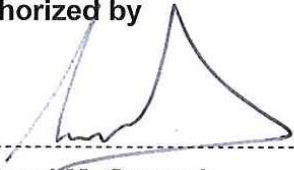
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## **1. Introduction**

This document provides an overview of Eskom's technical evaluation criteria to be used when evaluating the tender submissions for the supply of Electric fences and associated equipment. This document contains both the evaluation criteria used for desktop evaluation and practical evaluation.

**Note:** The terms Electric fence and Non-lethal energized perimeter detection System (NLEPDS) will be used synonymously in this document and shall refer to the same system.

## **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, testing and acceptance of Electric fences and associated equipment within Eskom Holdings SOC (Ltd).

#### **2.1.1 Purpose**

This document contains the technical evaluation criteria and associated documents relating to a commercial enquiry for the technical evaluation, testing and acceptance of Electric fences and associated equipment within 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] ISO 9001, Quality Management Systems.
- [2] 240-78980848, Specification for Non-Lethal Perimeter Detection System (NLEPDS) for Protection of Eskom Installations and its Subsidiaries
- [3] 240-83684419, PTM&C Technology Development

### **2.2.2 Informative**

None

## **2.3 Definitions**

### **2.3.1 General**

Definition	Description
<b>Tender</b>	A tender refers to an open or closed competitive request for quotations / prices against a clearly defined scope / specification.

### **2.3.2 Disclosure classification**

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

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## 2.4 Abbreviations

Abbreviation	Description
NLEPDS	Non-Lethal Energized Perimeter Detection System
TET	Technical Evaluation Team

## 2.5 Roles and responsibilities

Not applicable

## 2.6 Process for monitoring

Not applicable

## 2.7 Related/supporting documents

Not applicable

## 3. Tender Technical Evaluation Strategy

This 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 Technical Evaluation Team (TET).

### 3.1 Technical Evaluation Threshold

The minimum overall weighted final score (threshold) required for a tender to be deemed compliant is 70% for both the Desktop Evaluation (A1) and Practical Evaluation (B1) (refer to Table 1 below).

### 3.2 Technical Evaluation process

The evaluation process has two main parts; desktop assessment and practical/factory evaluation, which are related and carry weightings of 60% and 40%, respectively. The overall weighting for the qualitative technical evaluation is shown in Table 1 below:

**Table 1: Qualitative technical evaluation – overall**

Criteria Number	Qualitative Technical Criteria Description	Criteria Weighting (%)	Criteria Sub Weighting (%)
<b>A</b>	<b>Level 1 - Desktop Evaluation</b>	<b>60</b>	
A1	Technical Schedules A&B		
<b>B</b>	<b>Level 2 - Practical Evaluation</b>	<b>40</b>	
B1	Functionality test / demo		
Minimum overall threshold to be deemed compliant = 70%			

**3.2.1 Level 1 – Desktop Evaluation****Table 2: Weight allocations for desktop evaluations**

Technical subcategory number	Level 1 Evaluation Subcategory name	Weight (%)
A1	Technical Schedules A&B	100

This section shall comprise scoring of the A&B Schedule submitted response. The A&B Schedules use a default weight of 1 for each scored item. Critical items are assigned higher weights. For example, a weight of 3 indicates that the item will count the same as three items with weight 1. Each item will be assigned a score by the Eskom evaluation team based upon the tendered response and cross-checked with the supporting documents provided. The scoring method is depicted in Table 3 below:

**Table 3: Scoring of items in technical schedule A&B**

Score	%	Definition
5	100	<b>COMPLIANT</b> <ul style="list-style-type: none"> <li>Meet technical requirement(s) AND;</li> <li>Cross-checked with the supporting documents provided 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>NOT FULLY 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> <li>No supporting documents provided</li> </ul>
0	0	<b>TOTALLY DEFICIENT OR NON-RESPONSIVE</b>

**3.2.1.1 Technical Subcategory A1 – Schedule A&B**

The score for each item will be multiplied by its weight to obtain the total score per item. All scores for the A&B Schedules will be tallied and a percentage shall be calculated based on the maximum possible score. The weighting for subcategories of the technical schedules is shown in Table 4 below:

**Table 4: Qualitative technical evaluation – Technical Schedules A&B**

Criteria Number	Qualitative Technical Criteria Description	Criteria Weighting (%)
A1	Functional Requirements	15
A2	Electrical Requirements	15
A3	Mechanical requirements	10
A4	Safety requirements	10
A5	Construction requirements	20

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Criteria Number	Qualitative Technical Criteria Description	Criteria Weighting (%)
A6	Warning signs	5
A7	System maintenance	5
A8	Documentation	5
A9	Supplier services	12
A10	System design methodology	3

- Refer to Schedule A&B for NLEPDS excel sheet in the “**Schedule of technical compliance for NLEPDS**” excel file.
- Tenderers are required to indicate compliance to the requirements listed in the NLEPDS A&B Schedule excel sheet mentioned above.

### 3.2.2 Level 2 Evaluation - Practical evaluation

During this evaluation the tenderer shall demonstrate that the offered equipment fully meets the functional and technical requirements. The tenderer shall use the offered equipment/system to demonstrate how Eskom's requirements are met.

This portion will be assessed at the local OEM's or tenderer test facilities. This section shall be scored by the technical evaluation team following a visit to each Tenderer's local test facilities. Tenderers shall be advised of the exact date of the visit within a week prior to the demonstration. Scoring of Practical evaluation sub-sections shall be assigned by the Eskom Technical evaluation team as detailed in Table 5 below.

**Table 5: Practical evaluation Scoring Criteria**

Scoring	Percentage	Score
Fully compliant/ Above Average	100%	5
Acceptable/ Average	80%	4
Below Average	40%	2
Unacceptable/ Unusable	0%	0

During the functionality test / demo, the tenderer shall demonstrate how the different functional and technical requirements have been incorporated in the system design. The test system shall be configured so as to represent the architecture envisaged for the complete solution.

The functionality test is broken into 8 parts as shown in Table 6 below.

**Table 6: Functionality Test Items**

Number	Demonstration	Criteria Weighting (%)
1	System setup and operation	5
2	Controller/User interface/ front-end software	20
3	Alarms and indications	20
4	Energizers synchronisation	10
5	Energizer input/output requirements	20
6	electrical fence Gates	10
7	Integration functionality	10
8	Electrical supply and Battery back up	5

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- Functionality test will be based on the requirements as outlined in the 'Demo Tests for NLEPDS' excel file.

#### 4. Authorization

Name and surname	Designation
Richard McCurrach	Snr Manager - PTM&C CoE

#### 5. Revisions

Date	Rev	Compiler	Remarks
Oct 2018	4	R Moshoeshoe	<ul style="list-style-type: none"><li>• Incorporated recommendations in line with Business Requirements</li></ul>
Aug 2018	3	R Moshoeshoe	<ul style="list-style-type: none"><li>• Removed the clause regarding omission of the practical evaluation by the evaluation team in line with recommendations from Eskom Procurement Department.</li><li>• Changed the threshold for passing technical compliance from 80% to 70%.</li></ul>
July 2018	2	R Moshoeshoe	<ul style="list-style-type: none"><li>• Removed the technical gatekeepers table from the document to comply with the new evaluation requirements from Eskom Procurement Department.</li><li>• Removed reference to normative and informative documents which are already referenced in the technical specification</li><li>• Removed reference to Tender Technical Evaluation Procedure (240-48929482) in line with recommendations from Eskom Procurement Department.</li></ul>
April 2018	1	R Moshoeshoe	First issue

#### 6. Development team

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

- R Moshoeshoe
- S Ndamase
- T Jacobs

#### 7. Acknowledgements

Not applicable.