

Title: **TENDER TECHNICAL EVALUATION STRATEGY FOR STANDARD NEW TOWER INSTALLATIONS – WITHOUT TOWER DETAILING**

Template Unique Identifier: **240-170000544**

Document Unique Identifier: **LES1146**

Project Unique Identifier: **N/A**

Area of Applicability: **Engineering**

Documentation Type: **Report**

Revision: **1**

Total Pages: **11**

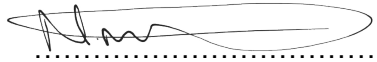
Next Review Date: **N/A**

Disclosure Classification: **CONTROLLED DISCLOSURE**

**Compiled by****Khulani Gasa**

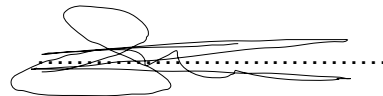
Senior Technician

Date: 11.05.2021

**Reviewed by****Ndangi Muthadi**

Senior Engineer

Date: 12.05.2021

**Authorised by****Sibonelo Nzama**

LES Middle Manager (Civil and Structural)

Date: 13.05.2021

## Contents

<b>1.</b>	<b>Introduction .....</b>	<b>3</b>
<b>2.</b>	<b>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	General.....	3
2.3.2	Disclosure classification .....	4
2.4	Abbreviations.....	4
2.5	Roles and Responsibilities .....	4
2.6	Process for monitoring.....	4
2.7	Related/Supporting Documents.....	5
<b>3.</b>	<b>Tender Technical Evaluation Strategy .....</b>	<b>5</b>
3.1	Technical Evaluation Threshold.....	5
3.2	TET Members.....	5
3.3	Mandatory Technical Evaluation Criteria .....	6
3.4	Qualitative Technical Evaluation Criteria .....	7
3.5	TET Member Responsibilities.....	9
3.6	Foreseen Acceptable / Unacceptable Qualifications .....	10
3.6.1	Risks 10	
3.6.2	Exceptions / Conditions .....	10
<b>4.</b>	<b>Authorization .....</b>	<b>11</b>
<b>5.</b>	<b>Revisions .....</b>	<b>11</b>
<b>6.</b>	<b>Development team .....</b>	<b>11</b>
<b>7.</b>	<b>Acknowledgements .....</b>	<b>11</b>

## 1. Introduction

The strategy will be used to technically evaluate potential contractors for installation of standard new Eskom telecommunication towers across all regions where **no additional tower detailing** is required from the contractor. This will be done in accordance with 240 – 59967638 *General tower specification for new installations of Eskom Telecommunication’s radio towers standards*.

## 2. Supporting Clauses

### 2.1 Scope

This document describes how technical evaluation will be conducted for the tender returnable package for defined projects.

#### 2.1.1 Purpose

The purpose of this tender technical evaluation strategy is to define the Mandatory Evaluation Criteria, Qualitative Evaluation Criteria and TET member responsibilities for tender technical evaluation. The technical evaluation strategy serves as basis for the tender technical evaluation process.

#### 2.1.2 Applicability

This specification shall apply throughout Eskom Holdings Limited, its divisions, subsidiaries and entities wherein Eskom has a controlling interest.

## 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] 240-48929482 - Tender Technical Evaluation Procedure

### 2.2.2 Informative

[2] 240 – 59967638 General tower specification for new installations of Eskom Telecommunications radio towers standards.

## 2.3 Definitions

### 2.3.1 General

Definition	Description
<b>Contractor</b>	An independent structural inspection authority appointed by ESKOM for the purpose of the intended scope of work.
<b>ESKOM</b>	ESKOM Holdings Limited, its divisions and wholly owned subsidiaries.
<b>Radio Mast</b>	Any self-supporting structure consisting of a single element that is used to mount radio antennae for the purpose of transmission and reception of radio signals.
<b>Radio Tower</b>	Any self-supporting lattice structure that is used to mount radio antennae for the purpose of transmission and reception of radio signals.

**ESKOM COPYRIGHT PROTECTED**

### 2.3.2 Disclosure classification

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

### 2.4 Abbreviations

Abbreviation	Description
(M)	Mandatory
CAA	Civil Aviation Authority
COC	Certificate of Compliance
DOI	Declaration of interest
ECSA	Engineering Council of South Africa
EDC	ESKOM Documentation Centre
EDWL	Engineering design work lead
ESK	ESKOM wide document ID prefix
ET	ESKOM Telecommunications
ID	Identification
LDE	Lead discipline engineer
NDA	Non-disclosure agreement
SME	Subject matter expert ( within ESKOM )
TER	Technical evaluation report
TET	Technical evaluation team

### 2.5 Roles and Responsibilities

- 1) The TET members together with the SME shall be responsible for conducting the evaluations in a controlled environment and compile a report with all the findings from the evaluation. Applicable manager(s) shall authorize the report compiled by the TET members.
- 2) SME shall present a team composition breakdown of the various engineering disciplines required to fairly evaluate the tender after the tender closing date.
- 3) The LDE with the guidance of the EDWL is responsible for arranging suitable dates and venue for conducting the evaluations.

### 2.6 Process for monitoring

A signed TER together with all the relevant commercial documents (NDA and DOI) shall be made available to the relevant parties within the business for safe keeping and audit trail purposes.

## **2.7 Related/Supporting Documents**

240-53716769 - Tender Engineering Evaluation Procedure

240-53716726 - Tender Technical Evaluation Scoring Form

240-53716712 - Tender Technical Evaluation Results Form

240-53716746 - Tender Technical Evaluation Report

## **3. Tender Technical Evaluation Strategy**

### **3.1 Technical Evaluation Threshold**

The minimum weighted final score (threshold) required for a tender to be considered successful from a technical perspective is **70%**.

### **3.2 TET Members**

TET members will be appointed by the responsible Lead Engineering Manager in writing upon the closing date of the tender. Each TET member shall possess knowledge and expertise to evaluate the entire technical section of the tender i.e. must have enough experience in the installation of telecommunications towers from foundations to tower erection. A minimum of two TET members shall be assigned per each tender to ensure independent review and evaluation.

**Table 1: TET Members**

<b>TET number</b>	<b>TET Member Name</b>	<b>Designation</b>
TET 1		
TET 2		
TET 3		
TET 4		

### 3.3 Mandatory Technical Evaluation Criteria

The table below details the mandatory criterion to be applied when evaluating the tender. The tender will NOT be evaluated if any of the items listed on table 2 are not provided.

**Table 2: Mandatory Technical Evaluation Criteria**

	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for use of Criteria
1.	<p>Submission of a step by step method statement of how the towers will be installed. This must include the following: -</p> <ul style="list-style-type: none"> <li>- Installations of foundations</li> <li>- Assembly of tower sections</li> <li>- Erection of tower sections</li> <li>- Climbing of towers</li> <li>- Tower lights</li> <li>- Earthing installation</li> </ul> <p><i>At this stage generic method statements will be sufficient. Detailed SWP will be required from before construction</i></p>	<p>- As per Eskom standards 240-59967638,240-56872313 &amp; 240-138048594. Must submit generic method statements as described.</p>	<p>- Construction Regulations</p>
2.	<p>Submit completed Annex A - Compliance Schedule of 240 – 59967638. <b>No sections may be left blank.</b> <i>Since Eskom is providing the designs, the supplier must simply fill “as per Eskom design” where applicable.</i></p>	<p>FULLY completed Annex A from 240 – 59967638</p>	<p>This serves as an initial acknowledgement of the Eskom standard requirements by the contractor</p>

**ESKOM COPYRIGHT PROTECTED**

When downloaded from the WEB, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorized version on the WEB.

### 3.4 Qualitative Technical Evaluation Criteria

The table below details the qualitative criterion to be applied when evaluating the tender. The minimum weighted final score (threshold) required for a tender to be considered successful from a technical perspective is **70%**.

**Table 3: Qualitative Technical Evaluation Criteria**

	<b>Qualitative Technical Criteria Description (maximum marks per item = 5)</b>	<b>Reference to Technical Specification / Tender Returnable</b>	<b>Criteria Weighting (%)</b>
1.	Relevant structure climbing competency – this must include a method statement on how the tower will be climbed in line with the proposed fall protection plan.	Method statement together with the proposed fall arrest plan.	30
2.	List of references for similar work done and successfully completed in the past 5 years. Ongoing work MAY NOT be included on the list, see below on how the marks will be awarded (full marks = 5):- <i>No work = 0</i> <i>Foundations work only = 2 Tower</i> <i>assembly work only = 1 Tower</i> <i>erection work only = 1</i> <i>Tower Earthing = 0.5</i> <i>Tower lights = 0.5</i>  (work done under sub-contracting will be awarded half marks per item)	A list of all projects done in the past 5 years clearly indicating the role(s) performed and completion dates.	10

**ESKOM COPYRIGHT PROTECTED**

When downloaded from the WEB, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorized version on the WEB.

<p><b>3.</b></p>	<p>The supplier must demonstrate their construction capability. Submit the Job profiles of the key stakeholders responsible for the construction. If the supplier is planning to use a subcontractor for installation, the job profiles of the Subcontractors must be provided. See below how the scores will be awarded ( full marks = 5):-</p> <ul style="list-style-type: none"> <li>- Construction/ Site manager = 2</li> <li>- Civil works supervisor = 1</li> <li>- Tower assembly and erection supervisor = 2</li> </ul> <p>(must clearly indicate the proposed person together with relevant job profiles per each title provided above)</p>	<p>Job profiles of the team with detailed responsibility description</p>	<p>15</p>
<p><b>4.</b></p>	<p>Generic schedule of activities for the process to be followed when conducting tower installation. State if the supplier is immediately available to execute the work or they have projects to complete first. Submit an activity schedule.</p> <ul style="list-style-type: none"> <li>- Project Duration 4 months = 5 Points</li> <li>- Project Duration 5 months = 4 Points</li> <li>- Project Duration 6 months = 3 Points</li> <li>- Project Duration 8 months = 2 Points</li> <li>- Project Duration 9 months = 1 Points</li> <li>- Project Duration 10 months = 0 Points</li> </ul>	<p>Detailed activity schedule with duration per activity</p>	<p>15</p>
<p><b>5.</b></p>	<p>Submit a detailed step by step method statement indicating how the installation will take place. See below how the scores will be awarded.</p> <ul style="list-style-type: none"> <li>- Foundations and tower earthing = 2</li> <li>- Tower erection and assembly = 2</li> <li>- Tower painting, lights and mounting brackets installation = 1</li> </ul>	<p>Detailed method statement(s) for: -</p> <ol style="list-style-type: none"> <li>1. installation of foundations and tower earthing</li> <li>2. Tower assembly and erection</li> <li>3. Tower painting, lights and mounting brackets installation</li> </ol>	<p>30</p>

**ESKOM COPYRIGHT PROTECTED**

When downloaded from the WEB, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorized version on the WEB.



### 3.5 TET Member Responsibilities

All the TET members shall have the knowledge and the expertise to evaluate all the qualitative and mandatory criterions.

**Table 4: TET Member Responsibilities**

Mandatory Criteria Number	TET 1	TET 2	TET 3
1			
2			
Qualitative Criteria Number	TET 1	TET 2	TET 3
1			
2			
3			
4			
5			

**ESKOM COPYRIGHT PROTECTED**

When downloaded from the WEB, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorized version on the WEB.

### 3.6 Foreseen Acceptable / Unacceptable Qualifications

#### 3.6.1 Risks

Table 5: Acceptable Technical Risks

Risk	Description
1)	None

Table 6: Unacceptable Technical Risks

Risk	Description
1)	Failure to comply to 240 - 59967638 Eskom standard. Failure to comply to 240 - 56872313 Eskom standard. Failure to comply to 240 - 138048594 Eskom standard.

#### 3.6.2 Exceptions / Conditions

Table 7: Acceptable Technical Exceptions / Conditions

Risk	Description
1)	None

Table 8: Unacceptable Technical Exceptions / Conditions

Risk	Description
1)	Failure to comply to 240 - 59967638 Eskom standard. Failure to comply to 240 - 56872313 Eskom standard. Failure to comply to 240 - 138048594 Eskom standard.

**ESKOM COPYRIGHT PROTECTED**

When downloaded from the WEB, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorized version on the WEB.

#### **4. Authorization**

This document has been seen and accepted by:

<b>Name and surname</b>	<b>Designation</b>
Ndangi Muthadi	Senior engineer
Suren Natesan	Chief engineer
Sibonelo Nzama	Middle manager

#### **5. Revisions**

<b>Date</b>	<b>Rev</b>	<b>Compiler</b>	<b>Remarks</b>
May 2021	1	K Gasu	First issue

#### **6. Development team**

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

- Ndangi Muthadi
- Khulani Gasu

#### **7. Acknowledgements**

Not applicable