



**Strategy**

**Engineering**

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MAINTENANCE

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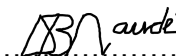
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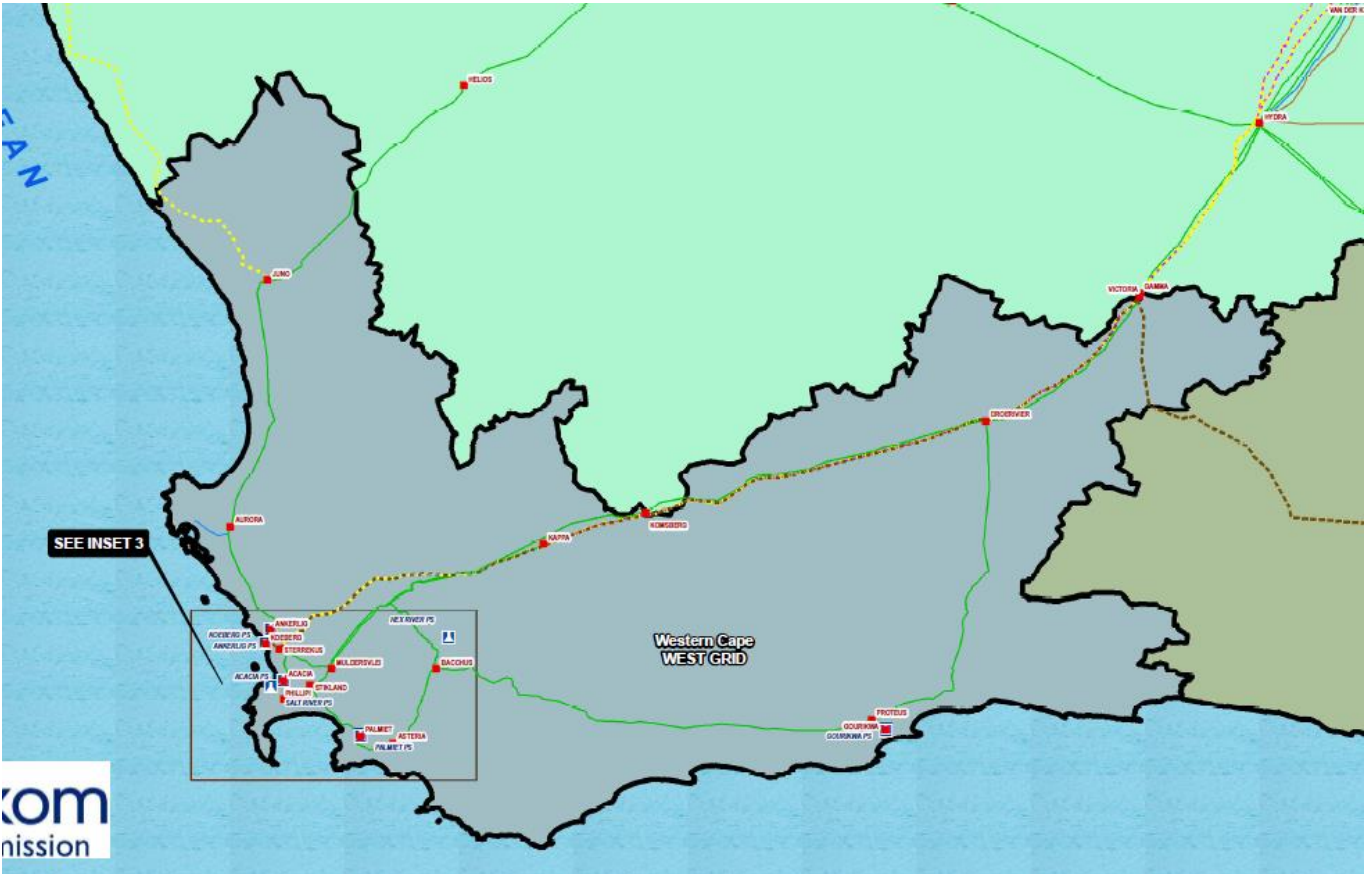
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Figure 1: Geographical Location



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## **1. INTRODUCTION**

This document establishes the technical evaluation strategy for the evaluation of tenders that will be received in response to the request to tender for the work to be done at all the Western grid substation buildings. This strategy is a high level consideration of the key aspects that will give direction to the technical evaluation process. It is in accordance with the Tender Engineering Evaluation Procedure (240-48929482) [1].

## **2. SUPPORTING CLAUSES**

### **2.1 SCOPE**

This document covers the technical evaluation strategy for the evaluation of the tenders for the work at all the Western grid substations.

The aim of this document is to provide a technical evaluation strategy that shall be used for the technical evaluation of the tenders for the all the civil related work. Furthermore, it will ensure transparency in the evaluation process as per the requirements set out in the Tender Engineering Evaluation Procedure (240-48929482) [1].

#### **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 document shall apply to the general civil and building work.

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## 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 Engineering Evaluation Procedure
- [2] 32-1034: Eskom Procurement and Supply Management Procedure
- [3] 240-82736997: Stringing, Cabling, Earthing and Erection Specification for Substations
- [4] 0.54/393: Transmission Substation Earthing Standard
- [5] TST41-877: Transmission Substation Design Earthing Standard
- [6] SANS 1200: Standard Specification for Civil Engineering Construction
- [7] OHS Act, 1993: Construction Regulations, 2014
- [8] 240-101940513: Substation Earth Electrode Resistance Measurement
- [9] TST 41-642: Continuity Measurement of Transmission Substation on Earthmat System
- [10] SANS 10142: The wiring of Premises
- [11] SANS 10400 National building regulations

### 2.2.2 Informative

To assess whether the above-mentioned supplier/s submitted the required **technical documentation** as specified in the Enquiry referenced above, and that such quality documentation complies with the specified requirements.

## 2.3 DEFINITIONS

### 2.3.1 Classification

**Controlled Disclosure:** Controlled Disclosure to external parties (either enforced by law, or discretionary)

## 2.4 ABBREVIATIONS

**Table 1: List of Abbreviations**

Abbreviation	Description
CV	Curriculum Vitae
EDWL	Engineering Design Work Lead
LDE	Lead Discipline Engineer
N/A	Not Applicable
OHSA	Occupational Health and Safety Act
ORHVS	Occupational Regulations for High Voltage Systems

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Abbreviation	Description
SANS	South African National Standards
TET	Technical Evaluation Team
TST	Transmission Standard

## 2.5 ROLES AND RESPONSIBILITIES

**Engineering Manager:** All Engineering Managers throughout Eskom shall ensure that all staff, in their respective areas understand and adhere to this procedure.

**Engineering Design Work Lead (EDWL):** The EDWL is responsible to manage the execution and adherence to this procedure. Typically on New Build projects the EDWL role is fulfilled by the Lead Discipline Engineer (LDE) and on existing asset projects the EDWL role is fulfilled by the relevant System Engineer / Plant Engineer.

**Technical Evaluation Team (TET) member:** The delegated engineers / technical specialists who are responsible to review and evaluate technical aspects of the tender documentation as per the Tender Technical Evaluation Strategy.

## 2.6 PROCESS FOR MONITORING

N/A

## 2.7 RELATED/SUPPORTING DOCUMENTS

N/A

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### 3. TENDER TECHNICAL EVALUATION STRATEGY

#### 3.1 TECHNICAL EVALUATION THRESHOLD

The scoring for each tender will be done as per the scoring table shown below. This table is as per the requirements of Tender Engineering Evaluation Procedure [1]. The minimum weighted average required for the tender to be considered for further evaluation is 70%. The team will perform risk analysis on tenders falling below the 70% threshold to substantiate the result and to authenticate the credibility of the evaluation process and results.

**Table 2: Evaluation Scoring Table**

Score	Percentage	Definition
5	100	<b>COMPLIANT</b> Meet technical requirement(s) AND; No foreseen technical risk(s) in meeting technical requirements.
4	80	<b>COMPLIANT WITH ASSOCIATED QUALIFICATIONS</b> Meet technical requirement(s) with; Acceptable technical risk(s) AND/OR; Acceptable exceptions AND/OR; Acceptable conditions.
2	40	<b>NON-COMPLIANT</b> Does not meet technical requirement(s) AND/OR; Unacceptable technical risk(s) AND/OR; Unacceptable exceptions AND/OR; Unacceptable conditions.
0	0	<b>TOTALLY DEFICIENT OR NON-RESPONSIVE</b>
<b>Note 1:</b> The scoring table does not allow for scoring of 1 and 3. <b>Note 2:</b> Foreseen acceptable and unacceptable risk(s), exceptions and conditions shall be unambiguously defined in the relevant Tender Technical Evaluation Strategy.		

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### 3.2 TET MEMBERS

**Table 3: TET Members**

<b>TET number</b>	<b>TET Member Name</b>	<b>Designation</b>
TET 1	Dawie Naude	Snr. Advisor – Substation civil engineering
TET 2	Anton Naude	Snr.Technologist - Substation civil engineering

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### **3.3 TECHNICAL RETURNABLES.**

The following documents shall be submitted when tendering:

- a) Technical Schedule indicating the construction task breakdown, program, workflow etc. **This is mandatory.**
- b) Construction method statement of each construction component. Describe a high level method of how the work will be performed and sequence that is compatible with the technical schedule.
- c) List of subcontractors, their scope of work, company profile.
- d) Material suppliers e.g general building materials, tiles, plumbing, electrical, paint etc
- e) List of relevant and comparable projects undertaken. The list shall include project scope, substation name, completion date, project value and client contact person and details. The contractor shall further include any concessions made during each project execution.
- f) List of key personnel, their experiences and academic qualifications. (include short CV detailing project-specific work experience for each employee)
- g) Include total number of manpower to be dedicated to this project.
- h) Test and measurement Procedures for certain categories.
- i) Proof of registration with statutory and/or professional bodies Electrical: ECBSA.

<b>List of Activities:</b>	<b>Yes</b>	<b>No</b>
1. <b>Mandatory Criteria</b> – Technical Schedule.		
2. Detailed Construction Method Statements.		
3. List of Subcontractors. Please give all information regarding the Sub Contractors (previous projects etc.)		
4. Practical Method of performing each task		
5. List of tools.		
6. Material suppliers: 6.1 Building materials 6.2 All other relevant materials.		
7. List of relevant previous projects and past performance.		
8. CV's of Key Personnel.		

**3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA (A)**

Compliant tenders will be evaluated against a set of weighted qualitative evaluation criteria. The evaluation criterion has been broken down into sections and a percentage weighting has been allocated to each section. Percentage weighting summary figures is indicated in **Table 4** below.

**Table 4: A: Fence, patrol road, building and general civil construction**

	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
<b>A1</b>	<b>Relevant company experience (Projects completed in past 5 years)</b>			<b>30</b>	
	1.1	Number of similar previous projects			7
	1.2	Previous Project scope of work			8
	1.3	Previous Project value			8
	1.5	Client contact person and details			7
<b>A2</b>	<b>Qualifications and experience of key personnel</b>			<b>20</b>	
	2.1	Academic qualifications			7
	2.2	Project-specific work experience			7
	2.3	Total number of manpower to be dedicated to this project			6
<b>A3</b>	<b>Construction/method statements</b>			<b>30</b>	
	3.1	Relevancy of practical method statements			15
	3.2	Technical schedule			15
<b>A4</b>	<b>Test Procedures</b>			<b>5</b>	

	4.1	Procedures relevant/ comprehensive			5
<b>A5</b>	<b>Tools and Equipment</b>			<b>5</b>	
	5.1	Tools and equipment			5
<b>A6</b>	<b>Subcontractors</b>			<b>5</b>	
	6.1	Relevant subcontractors			5
<b>A7</b>	<b>Materials</b>			<b>5</b>	
	7.1	Relevant accredited suppliers of materials			5
				<b>TOTAL = 100</b>	100

### 3.5 TET MEMBER RESPONSIBILITIES

**Table 5: TET Member Responsibilities**

Qualitative Criteria (A) Number	TET 1	TET 2
A1	X	
A2	X	
A3	X	
A4	X	
A5	X	
A6	X	
A7	X	

### 3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

#### 3.6.1 Risks

**Table 6: Acceptable Technical Risks**

<b>Risk</b>	<b>Description</b>
1.	<b>None.</b>

**Table 7: Unacceptable Technical Risks**

<b>Risk</b>	<b>Description</b>
1.	<b>Non - compliance to Mandatory Criteria.</b>
2.	<b>Contractors who do not have the relevant experience.</b>

#### 3.6.2 Exceptions / Conditions

**Table 8: Acceptable Technical Exceptions / Conditions**

<b>Risk</b>	<b>Description</b>
1.	<b>None.</b>

**Table 9: Unacceptable Technical Exceptions / Conditions**

<b>Risk</b>	<b>Description</b>
1.	<b>Plant for road construction not adequate.</b>

#### 4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation
Andile Maneli	Substation Engineering: Civil: Middle Manager

#### 5. REVISIONS

Date	Rev.	Compiler	Remarks
13-7-2018	0	Dawie Naude	First issue

#### 6. DEVELOPMENT TEAM

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

N.A.

#### 7. ACKNOWLEDGEMENTS

N.A.

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