

Title: **Tender Technical Evaluation  
Strategy for Carmel  
Pluto\_Sinkhole Assessment and  
Remediation**

Unique Identifier: **240-1800000001**

Alternative Reference Number: **N/A**

Area of Applicability: **Engineering**

Documentation Type: **Strategy**

Revision: **1.0**

Total Pages: **15**

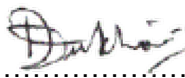
Next Review Date: **N/A**

Disclosure Classification: **CONTROLLED  
DISCLOSURE**

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Date: **15/02/2022**

Date: **15/02/ 2022**

Date: **16/02/2022**

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## **1. INTRODUCTION**

Eskom Holdings SOC Ltd (the *Employer*) requires assessment and recommendation for repairs to be conducted for Carmel Pluto 2 275kV Tower 63 and the adjacent Distribution Tower. The assessment and repair works for the area must be conducted in accordance to SANS 1936:2021 parts 1-4, SANS 1200 BE 3 and other required SANS.

## **2. SUPPORTING CLAUSES**

### **2.1 SCOPE**

The *Works* comprises of a desk study and site walkover, and a Dolomitic land assessment and remediation in line with SANS 1936:2012, Parts 1-4, SANS 2001 BE 3 (2012), SANS 633/4. The *works* also includes the provision of technical assurance during remediation construction by means of construction monitoring (as outlined in SANS 1936:2012).

The Successful tenderer (*Contractor*) provides all equipment and resources required to execute the *Works*. These services are viewed as specialist services and must be conducted by a competent person as defined within SANS 1936:2012.

#### **2.1.1 Purpose**

This document outlines the criteria that will be used to evaluate the tenderers that will result from the Request for Proposal. This technical evaluation strategy defines the Mandatory Evaluation Criteria, Qualitative Evaluation Criteria and Technical Evaluation Team (TET) member responsibilities for tender technical evaluation. The technical evaluation strategy serves as a basis for the tender technical evaluation process.

#### **2.1.2 Applicability**

This document applies to the Transmission Division, for the *Carmel Pluto Sinkhole Assessment and Remediation* scope of works only.

### **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] ISO 9001 Quality Management Systems
- [3] 32-1034 Eskom Procurement Policy
- [4] 240-168238004: Scope of Works for Carmel Pluto Sinkhole Assessment and Remediation

#### **2.2.2 Informative**

- [5] 240-53113685: Design Review Procedure
- [5] 240-53114026: Project Engineering Change Management Procedure

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## **2.3 DEFINITIONS**

<b>Definition</b>	<b>Description</b>
Tender	A tender refers to an open or closed competitive request for quotations/ prices against a clearly defined scope/ specification.
Contractor/Tenderer	Refers to the corporation appointed to perform the engineering, procurement, and construction works required for the project.
Employer	Refers to Eskom Holdings State Owned Company
Client	The end user will be Eskom who will be represented by the Tx Northern Cape Grid throughout the duration of the Project.

### **2.3.1 Classification**

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

## **2.4 ABBREVIATIONS**

<b>Abbreviation</b>	<b>Description</b>
ECSA	Engineering Council of South Africa
LES	Corporate Social Investment & Responsibility
SOC	Engineering Design Work Lead
TET	Technical Evaluation Team
SACNASP	South African Council for Natural Scientific Professions
SANS	South African National Standards

## **2.5 ROLES AND RESPONSIBILITIES**

As per 240-48929482: Tender Technical Evaluation Procedure

## **2.6 PROCESS FOR MONITORING**

N/A

## **2.7 RELATED/SUPPORTING DOCUMENTS**

None

## **3. TENDER TECHNICAL EVALUATION STRATEGY**

### **3.1 TECHNICAL EVALUATION METHOD**

The basic steps for a technical evaluation must be followed as per the Tender Technical Evaluation Procedure [1].

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A two stage Technical Evaluation Strategy is set out.

**Stage 1:** Mandatory Technical Evaluation Criteria (gatekeepers) are 'must meet' criteria. These criteria are not weighted or point scored but; are assessed on a Yes/No basis to ascertain whether or not the criteria are met. An assessment of 'No' against any mandatory criterion will disqualify the tenderer and the tenderer will not be evaluated against Qualitative Criteria.

**Stage 2:** Qualitative Technical Evaluation Criteria are weighted evaluation criteria used to identify the highest technically ranked tenderer. The Qualitative Evaluation Criteria are weighted to reflect the relevant importance of each criterion.

The technical criteria and weighting is broken down as follows:

- a) Civil Engineering: 100%

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

The evaluation of the tender submission will be based on the tenderer's ability to meet the Engineering requirements.

The scoring method will be as follows:

SCORE	PERCENTAGE	DESCRIPTION
5	100	<b>COMPLIANT</b> <ul style="list-style-type: none"><li>• Meet technical requirement(s) 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>NON-COMPLIANT</b> <ul style="list-style-type: none"><li>• Does not meet technical requirement(s) AND/OR; Unacceptable technical risk(s) AND/OR;</li><li>• Unacceptable exceptions AND/OR;</li><li>• Unacceptable conditions.</li></ul>
0	0	<b>TOTALLY DEFICIENT OR NON-RESPONSIVE</b>

The evaluation scores will be weighted as follows:

Engineering (100%)	
Civil Engineering	100%
TOTAL (100%)	
Overall minimum threshold for qualification (70%)	

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### **3.2 TECHNICAL EVALUATION THRESHOLD**

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

A weighted score-card approach is used to evaluate the technical compliance of the tenders against the technical specifications (as outlined within the scope of works). Tenderers need to have a weighted score of 70% overall or more to technically qualify for further evaluation.

The evaluation strategy for Safety, Health and Environmental as well as Quality is not included in this document as it does not form part of the Engineering scope.

The evaluation of the tender submission will be based on the tenderer's ability to meet the Engineering and Planning requirements.

### **3.3 TET MEMBERS**

The full time core technical evaluation team will consist of the following team members (in-line with the Tender Engineering Evaluation Procedure, 240-48929482) in Table 1.

**Table 1: Core TET Members**

<b>TET number</b>	<b>TET Member Name</b>	<b>Designation</b>
TET 1	Alicia Simbudayal	Senior Engineering Geologist
TET 2	Kabelo Molaodi	Senior Civil Engineer
TET 3	Gino Pillay	Civil Engineer

The part time/support team member shall be required to fill in a technical evaluation form, if their names are marked as mandatory (X), next to a criterion. The part time/ support team member may not be required to fill in a technical evaluation form, if their names are marked as optional (O) next to a criterion but shall assist the main members where necessary. These members may be as follows in Table 2.

**Table 2: Optional TET Members**

<b>TET number</b>	<b>TET Member Name</b>	<b>Designation</b>
TET 4	Dan Dukhan	Chief Civil Engineer
TET 5	Sibonelo Nzama	Cluster Manager, Structures Civils and Mechanical

The core members' and the optional members' responsibilities are described in Table 7.

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### **3.4 MANDATORY TECHNICAL EVALUATION CRITERIA**

**Table 3: Mandatory Technical Evaluation Criteria**

	<b>Mandatory Technical Criteria Description</b>	<b>Reference to Technical Specification/ Tender Returnable</b>	<b>Motivation for use of Criteria</b>
1.	Contractor submits technical proposal which contains all items as per Scope of Works (i.e. technical proposal). <u>Contractor MUST submit technical proposal to be evaluated.</u>	240-168238004: Scope of Works for Carmel Pluto Sinkhole Assessment and Remediation	Objective Criteria
2.	Contractor submits CVs of key personnel clearly indicating that key members are professionally registered. <u>Contractor MUST submit CV's and key personnel MUST be professionally registered to be evaluated.</u>	240-168238004: Scope of Works for Carmel Pluto Sinkhole Assessment and Remediation	Capability Constraint

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### 3.5 QUALITATIVE TECHNICAL EVALUATION CRITERIA

During the tender evaluations, Table 4 will be used by the TET members to score each criterion on a scale of 0 to 5.

**Table 4: Qualitative Technical Evaluation Criteria**

<b>SCORE</b>	<b>PERCENTAGE</b>	<b>DESCRIPTION</b>
5	100	<b>COMPLIANT</b> <ul style="list-style-type: none"><li>• Meet technical requirement(s) 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>NON-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></ul>
0	0	<b>TOTALLY DEFICIENT OR NON-RESPONSIVE</b>

Note 1: The scoring table does not allow for scoring of 1 and 3.

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**Table 5: Qualitative Technical Criteria**

	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
1. Civil Engineering Criteria: Overall Weighted Score Breakdown = 100%					
1.1	Civil Engineering Criteria: Geotechnical Criteria				
	1.1.1	Technical proposal for the works as described in the Scope of Works. Technical proposal indicates Scope to be undertaken, compliance with relevant standards and guidelines, methodology, proposed Investigations/studies, additional studies (if required).	240-168238004: Scope of Works for Carmel Pluto Sinkhole Assessment and Remediation		40
	1.1.2	Tenderer and/ or Tenderer's subcontractor must display relevant experience in conducting geotechnical assessments and evaluations.  A list of verifiable references must be provided.  (At least 1 successfully completed Dolomitic sinkholes repair within the last 5 years).	Appendix A: Item 1/ Item2/ Item 3/ Item 4		25
	1.1.3	Professional Registration Requirement (ECSA/SACNASP) of key personnel conducting analyses of geotechnical findings. <b>Competent persons requirement as per SANS 1936:2012.</b>	Appendix A: Item 2/ Item 3		25
	1.1.4	The tenderer has provided a level 4 programme, showing activities of all the project work to be done by the Contractor, clearly indicating all required tasks.	Appendix A: Item 5		10

### 3.5.1 Qualitative Technical Criteria- Scoring Range

Table 6 below describes how the tenders will be evaluated and scored in terms of the scoring rang of 0, 2, 4 and 5.

**Table 6: Scoring Range for Qualitative Technical Criteria**

Civil Engineering				
Criteria No	Qualitative Technical Criteria Description	Criteria Sub Weighting (%)	Range	Score
1.1.1	Technical proposal for the works as described in the Scope of Works. Technical proposal indicates Scope to be undertaken, compliance with relevant standards and guidelines, methodology, proposed Investigations/studies, additional studies (if required).	40	No technical proposal submitted	0
			Technical proposal does not contain methodology of approach OR Technical proposal reiterates scope of works	2
			Technical proposal describes role of key personnel and includes minor details on approach of fieldworks and investigations	4
			Technical proposal details fully how scope will be met and provides comprehensive methodology of approach	5
1.1.2	Tenderer and/ or Tenderer's subcontractor must display relevant experience in conducting geotechnical assessments and evaluations.  A list of verifiable references must be provided.  (At least 1 successfully completed Dolomitic sinkhole repair within the last 5 years).	25	No previous project experience	0
			Completed 1 project within last 5 years	2
			Completed 2 - 4 projects within last 5 years	4
			Completed greater than 4 projects within last 5 years	5
1.1.3	Professional Registration Requirement (ECSA/SACNASP) of key personnel conducting analyses of geotechnical findings. Competent persons requirement as per SANS 1936:2012.	25	Professional Registration < 2 years	0
			Professional Registration 2 - 5 years	2
			Professional Registration 5 -10 years (experienced geo-professional)	4
			Professional Registration ≥10years (expert geo-professional)	5

Criteria No	Qualitative Technical Criteria Description	Criteria Sub Weighting (%)	Range	Score
1.1.4	The tenderer has provided a level 4 programme, showing activities of all the project work to be done by the Contractor, clearly indicating all required tasks.	10	Total deficiency AND non-compliance to the Scope of Works, Cannot meet targets	0
			Partial deficiency (>40%) OR non-compliance to the Scope of Works, No Recovery Plan	2
			Slightly deficiency (<40%) AND compliance to the Scope of Works, Includes Recovery Plan (if no recovery plan is provided score will be downgraded to next weighting)	4
			Complete compliance to the Scope of Works, indicating all targets met and recovery plan for anticipated slippage (if no recovery plan is provided score will be downgraded by 1 point)	5

### 3.6 TET MEMBER RESPONSIBILITIES

Key: X = Mandatory; O = Optional

**Table 7: TET Member Responsibilities**

<b>Mandatory Criteria Number</b>	<b>TET 1</b>	<b>TET 2</b>	<b>TET 3</b>	<b>TET 4 (O)</b>	<b>TET 5 (O)</b>
1	X	X	X	X	X
2	X	X	X	X	X
<b>Qualitative Criteria Number</b>	<b>TET 1</b>	<b>TET 2</b>	<b>TET 3</b>	<b>TET 4 (O)</b>	<b>TET 5 (O)</b>
1.1.1	X	X	X	X	X
1.1.2	X	X	X	X	X
1.1.3	X	X	X	X	X
1.1.4	X	X	X	X	X

### 3.7 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

#### 3.7.1 Risks

Table 8: Acceptable Technical Risks

Risk	Description
1.	N/A

Table 9: Unacceptable Technical Risks

Risk	Description
1.	Tenderers technical submission does not address entire scope required
2.	Tenderer does not meet mandatory requirements
3.	Tenderer is not a competent persons as per SANS 1936 (2012)

#### 3.7.2 Exceptions / Conditions

Table 10: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	N/A

Table 11: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	Tenderers technical submission does not address entire scope required

Risk	Description
2.	N/A

## 4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation
Alicia Simbudayal	Senior Engineering Geologist
Dan Dukhan	Chief Engineer - Civil Engineering
Sibonelo Nzama	Manager – Civil and Mechanical Engineering

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## **5. REVISIONS**

<b>Date</b>	<b>Rev.</b>	<b>Compiler</b>	<b>Remarks</b>
01/2022	0.1	A Simbudayal	Draft document for review

## **6. DEVELOPMENT TEAM**

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

- Alicia Simbudayal

## **7. ACKNOWLEDGEMENTS**

- N/A

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## **8. APPENDIX A: LIST OF TENDER TECHNICAL RETURNABLES**

**Table 12: List of Tender Technical Returnables**

<b>Item</b>	<b>Title</b>	<b>Details</b>
1	Technical Proposal	Item identifies approach to the requested scope of works and assists in evaluating the method which will be applied by the professional individual to assess and report on the scope of works.
2	CV & qualifications of key personnel	Item identifies relevant qualification and experience profile to demonstrate level of experience of resource
3	Relevant experience	Item identifies tenderers familiarity with items outlined within required scope of works.
4	List of Relevant Experience	Items identifies list of verifiable relevant references. This includes as a minimum Project Name, Brief Project Description, Valid contact details.
5	Schedule	Item identifies scheduled timeframe of works to ensure alignment with project target dates.

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