

	Strategy	Engineering
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Title : **VULCAN UNDERGROUND FIRES TENDER EVALUATION STRATEGY**

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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 for the VULCAN UNDERGROUND FIRES. 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).

The document covers required works to be executed at VULCAN Substation:

1. Study the existing Dolomitic Stability Instability (DSI) conducted for Vulcan Substation and other related site visit reports.
2. Prepare a detailed construction method statement on how the sinkholes will be rehabilitated.

This shall encompass the following:

- Safe working procedures for working in and around sinkholes.
 - Appointment of geo-professional level 4 to overlook the work for the sinkhole rehabilitation
3. Re-establishment of the perimeter fence.
 4. Liaise with the relevant authorities regarding the undertaking of the project and ensure compliance with relevant authorities and legislation.

2. SUPPORTING CLAUSES

2.1 SCOPE

This strategy defines the Technical Evaluation Team (TET), their responsibilities and the criteria to be used to evaluate the works for the project of Vulcan Underground Fires and sinkhole assessments.

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

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 strategy document applicable to Eskom Transmission: Substation Engineering and North East Grid.

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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 Technical Evaluation Procedure
- [2] 32-1034: Eskom Procurement and Supply Management Procedure
- [3] SANS1200: Standard Specification for Civil Engineering Construction
- [4] OHS Act, 1993: Construction Regulations, 2014

2.2.2 Informative

- [5] 240 - 98155775, Investigate potential subsurface instability in the vicinity of the NTCSA Vulcan Substation.

2.3 DEFINITIONS

2.3.1 Classification

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

2.4 ABBREVIATIONS

Abbreviation	Description
CGS	Council for Geosciences
CV	Curriculum Vitae
DSI	Dolomitic Stability Investigation
ECSA	Engineering Council of South Africa
EDWL	Engineering Design Work Lead
LDE	Lead Discipline Engineer
LEM	Lead Engineering Manager
N/A	Not applicable
NTT	Notes To Tender
OHSA	Occupational Health and Safety Act
PREP	Professionally registered engineering professional
SANS	South African National Standard
SACNASP	South African Council for Natural Scientific Professionals
SHE	Safety, Health and Environment
TET	Technical Evaluation Team

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2.5 ROLES AND RESPONSIBILITIES

Compiler	The document compiler is responsible for ensuring that this document is up-to-date and that this document is not a duplication of an existing documentation, regarding the document's objectives and content.
Technical Evaluation team	The TET is responsible for the following: • Review and evaluate technical aspects of the tender documentation as per the Tender Technical Evaluation Strategy. • Ensure understanding of the scope document 240 - 98155775 • Give input and review the Tender Technical Evaluation Strategy • Develop mandatory and qualitative criteria • Approve the Tender Technical Evaluation Strategy
Engineering Manager	The Engineering manager shall appoint all the TET members, who he deems competent to perform roles as technical evaluators in writing. He is also responsible for approving and authorising the technical tender evaluation strategy.
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.
Professionally Registered Engineering Professional	The PREP is responsible for the following: • Managing the execution and adherence to 240-48929482 Procedure • Identifying all engineers/technical specialists required to develop the Tender Technical Evaluation Strategy • Confirm all TET members declaration of interest are current and valid as per commercial requirements • Distributing of the scope and specification document 240 – 98155775 and ensuring all TET members understand it. • Leading the development the development of the Technical Evaluation Strategy • Develop Mandatory gatekeepers • Lead TET for developing qualitative criteria • Approve the Tender Technical Evaluation Strategy
Technical Evaluation Team (TET) Member	The delegated engineers/technical specialist 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

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2.7 RELATED/SUPPORTING DOCUMENTS

Please refer to Section 2.2.

3. TENDER TECHNICAL EVALUATION STRATEGY

3.1 SCOPE OF WORKS

The document covers required works to be executed at Vulcan Substation:

1. Develop a comprehensive method statement outlining the procedures for conducting the detailed underground fires investigation. This shall encompass the following:
 - Safe working procedures for working in and around sinkholes.
 - Appointment of geo-professional level 4 to overlook the work.
2. Re-establishment of the perimeter fence.
3. Liaise with the relevant authorities regarding the undertaking of the project and ensure compliance with relevant authorities and legislation.

Refer to [5] for the detailed scope of works.

3.2 TECHNICAL EVALUATION THRESHOLD

The evaluation of tenders will be based on the tenderer's ability to meet the requirements specified for The Detailed Underground Fires at Vulcan Substation scope of work detailed in [5]. A weighted score card approach will be used to evaluate the tenders against the Employer's requirements.

The minimum weighted final score required for a tender to be considered from a technical perspective is **70 %**. The scoring of 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].

Table 1: Scoring Method

SCORE	PERCENTAGE	DESCRIPTION
5	100	COMPLIANT • Meet technical requirement(s)/AND; • No foreseen technical risk(s) in meeting technical requirements.
4	80	COMPLIANT WITH ASSOCIATED QUALIFICATIONS • Meet technical requirement(s) with; • Acceptable technical risk(s) AND/OR; • Acceptable exceptions AND/OR; • Acceptable conditions.

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2	40	NON-COMPLIANT - Does not meet technical requirement(s) AND/OR; Unacceptable technical risk(s) AND/OR; - Unacceptable exceptions AND/OR; - Unacceptable conditions.
0	0	TOTALLY DEFICIENT OR NON-RESPONSIVE
Note 1: The scoring does not allow for 1 and 3 Note 2: Foreseen acceptable and unacceptable risk(s), exceptions and conditions shall be unambiguously defined in the relevant Tender Technical Evaluation Strategy		

4. MANDATORY TECHNICAL EVALUATION CRITERIA

In order to be eligible for evaluation the tenderer shall meet the gatekeepers specified on the table below:

Table 3: Mandatory Evaluation Criteria

	Mandatory Technical Criteria Description	Source of Evidence	Motivation for use of Criteria	Yes/No
1.	Tenderer must submit a design proposal and method statement report for the Vulcan Substation Sinkhole Rehabilitation, addressing ALL scope as outlined in 240-98155775 scope and specification document.	Technical proposal/Construction method statement which outlines method statement of how the sinkhole will be rehabilitated and concrete drainage channels will be constructed.	Demonstrate compliance to the full scope of works, National Standards and Eskom Technical Requirements.	
2.	Professional Registration for Geotechnical Engineering/Geohydrology/Engineering Geology with ECSA/SACNASP. The support technical staff involved in compiling of the document and generating of designs need to have a degree/diploma in Civil Engineering/Geology/Geohydrology.	Copy of Professional Certification with SACNASP/ECSA and copy of degree/diploma.	Legislative Compliance (SANS 1936: 1-4; National Environmental Management Act, 107 of 1998).	
3.	Filled in BOQ. BOQ issued out with the 240-98155775 scope and specification document.	BOQ filled in with projected values for all the investigation.	To ensure pricing of services is within market-related prices.	
4.	Tenderer must submit evidence of completing a minimum of 3-4 projects for geotechnical investigations similar with the scope outlined in 240-98155775 scope and specification document.	Reference letters detailing the completion of the geotechnical investigations. Appointment letters and list of projects will not be considered without reference letters.	To ensure that the tenderer is competent in executing the works outlined in 240-98155775 scope and specification document.	

Note: A response of "NO" to any of the Mandatory Evaluation Criteria would result in immediate disqualification of the Tender and discontinue further evaluation

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5. QUALITATIVE TECHNICAL EVALUATION CRITERIA

Notes to tenderer:

1. An undertaking is required that resources identified would not be changed on award of the Contract.
2. The CV's of Key Personnel should have experience which is comparable in nature to the Works specified in this tender.
3. Where no information is offered by the Tenderer no points shall be scored.

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Table 4: Evaluation Criteria

No	Description	Weighting	Sub-weighting	Tender Returnable(s)	Scoring Criteria
6.1	Geotechnical Engineering Professional Services evaluation criteria	100%			
6.1.1	Proposal which details how company will execute scope of work detailed in the scope and specification document		40%	Technical proposal which includes method in which scope will be carried out based on 240 – 98155775 scope and specification document. Please see attached addendum for how the score will be determined	5 = 100% =Excellent response demonstrates ability to deliver service far in excess of minimum requirement 4 = 80% = Good response detailing clearly how the service will be delivered above and beyond minimum requirements 2 = 40% = Barely adequate levels of required scope proposal 0 = 0% = less than minimum level required scope proposal or irrelevant
6.1.2	Company's background and experience on Geotechnical Engineering investigation projects		30%	Demonstrate experience on similar projects. Provide Testimonials or Completion Certificates for completed projects consisting of the following information: - Name of company where project was executed - Project Description - Dates when investigation was carried out and completed - Contract value	5 = 100% = More than 5 completed projects of similar nature 4 = 80% = 5 completed projects of similar nature 2 = 40% = 3-4 completed projects of similar nature 0 = 0% = 0 completed projects of similar nature

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				Contact person and contact details (reference) Minimum 3-4 projects.	
6.1.3	Project Programme		10%	Project programme containing the following activities: SHE file compiling by consultant and auditing by ESKOM Mobilising and establishing of contractors and subcontracts	5 = 100% = COMPLIANT - Meet technical requirement(s)/AND - No foreseen technical risk(s) in meeting technical requirements. 4 = 80% = COMPLIANT WITH ASSOCIATED QUALIFICATIONS - Meet technical requirement(s) with; - Acceptable technical risk(s) AND/OR; - Acceptable exceptions AND/OR; - Acceptable conditions. 2 = 40% = NON-COMPLIANT - Does not meet technical requirement(s) AND/OR; Unacceptable technical risk(s) AND/OR;

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					• Unacceptable exceptions AND/OR; • Unacceptable conditions. 0 = 0% = TOTALLY DEFICIENT OR NON-RESPONSIVE
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6.1.4	CV's of key personnel		20%	Provide CV's of key personnel as specified below: The lead engineer or lead engineering geologist required to meet minimum criteria as registered geo-professional A geotechnical engineer and engineering geologist (should be a member of SACNASP) should be assigned to the project. Only one needs to be a registered geo-professional CV's to be provided: - Registered geotechnical engineer/registered engineering geologist (15% of the 20% allocated to this criteria) - Engineering geologist or geotechnical engineer (5% of the 20% allocated to this criteria)	5 = 100% = Level 4 Expert geo-professional (registered + 10 years post registration experience in geotechnical investigations and reporting/Dolomitic Stability investigations where necessary) . 4 = 80% = Level 3 experienced geo professional (registered + 5 years post registration experience in geotechnical investigations and reporting /Dolomitic Stability investigations where necessary) 3 = 60% = Registered geo-professional . 0 = 0% = TOTALLY DEFICIENT OR NON-RESPONSIVE
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