

	<b>Strategy</b>	<b>Engineering</b>
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Strategy for Kusile Engineering  
Land Surveying Professional  
Services**

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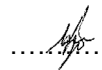
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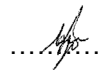
**Compiled by**



**Ayo Jimoh  
Civil LDE  
Kusile Power Station**

Date: 28/07/2022

**Functional Responsibility**



**Ayo Jimoh  
Civil LDE  
Kusile Power Station**

Date: 28/07/2022


**Authorised by**



**T Railo  
Project Engineering Manager  
Kusile Power Station**

Date: 2022-07-28

**Supported by**



**Yuvir Gokul  
EWDL  
Kusile Power Station**

Date: 28/07/2022

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## **1. INTRODUCTION**

An invite will be issued calling for interested parties to participate in the tender process for the purposes of spatial integrity, progress assessment and quantity determination during the construction phase to Kusile Power Station Project site. This document sets out the method and criteria that will be used to evaluate the tenders that will result from this pre-qualification invite.

## **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 Kusile Engineering Land Surveying Professional Services.

#### **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 applies to the engineering team working on the Kusile Engineering Land Surveying Professional Services.

### **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 Policy

#### **2.2.2 Informative**

- [3] 240-137101041: Technical Specification for Kusile Power Station Engineering Survey Services

## **2.3 DEFINITIONS**

### **2.3.1 Classification**

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

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### 2.3.1 Definitions

Phrase	Definition
Contractor or Tenderer	Prospective contractor or suppliers for this tender invitation/ enquiry. Tenders are prepared and returned by, a preferred contractor or tenderer is selected and following negotiations they may be appointed
Project of similar nature	Engineering Land Surveying Project on the Construction Site for concrete structures (bridges, tunnel etc.), buildings, civil services(roads, earthworks and storm-water), ash dumps & dams, power lines,etc. within a Eskom Power Stations
Tender	A tender refers to an open or closed competitive request for quotations / prices against a clearly defined scope / specification.

### 2.4 ABBREVIATIONS

Abbreviation	Description
C&I	Control & Instrumentation
CIBD	Construction Industry Development Board
CoE	Centre of Excellence
DCS	Distributed Control System
ECSA	Engineering Council of South Africa
EMP	Environmental Management Plan
LDE	Lead Discipline Engineer
NTT	Notes To Tender
OEM	Original Equipment Manufacturer
PLATO	The South African Council for Professional and Technical Surveyors
SAGC	South African Geometric Council
TES	Technical Evaluation Strategy
TET	Technical Evaluation Team
VDSS	Vendor Document Submission Schedule

### 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.
Functional Responsibility (CoE Manager)	The Functional Responsible Person shall determine if the document is fit for purpose, before the document is submitted for authorisation.

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Authoriser (Senior Manager)	The document authoriser is a duly delegated person with the responsibility to review the document for alignment to business strategy, policy, objectives and requirements. He/she shall authorise the release and application of the document.
Lead Discipline Engineers	Provide input to the technical tender evaluation strategy and associated engineering activities.
Configuration Management Lead	Is accountable for ensuring that the engineering documentation, engineering systems and databases are correctly configured. As part of this role, the Configuration Practitioner is responsible for the development of the configuration management plan; configuration and management of the PBS and the management of plant item Tags.

## 2.6 PROCESS FOR MONITORING

The primary process for monitoring will be governed by Design Review Procedure (240-53113685), this entails assuring that the design achieves the requirements set out in this document.

## 2.7 RELATED/SUPPORTING DOCUMENTS

Please refer to Section 2.2.

## 3. TENDER TECHNICAL EVALUATION STRATEGY

In order to be eligible for evaluation, the tenderer shall meet all the mandatory requirements.

The evaluation of tenders will be based on the tenderer's ability to meet the requirements specified the Kusile Engineering Land Surveying Professional Services Scope of Work. A weighted score card approach will be used to evaluate the tenders against the Employer's requirements. The following scoring method will be used in general. It will be specified where other scoring methods is used.

**Table 1: Scoring Method**

<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>

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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 according to disciplines:

**Table 2: Evaluation Scores**

<b>Technical (100%)</b>	
6.1 Engineering Land Surveying Professional Services	100%
<b>TOTAL (100%)</b>	
<b>Overall minimum threshold for qualification (70%)</b>	

#### **4. TET MEMBERS**

**Table 3: TET Members**

<b>TET number</b>	<b>Designation</b>	<b>Name and Surname</b>
TET 1	Civil Project Engineer	Thabani Mdlalose
TET 2	Lead Geotech	Jhovesnie Kistadu
TET 3	Geotech	Zinikele Mbotshelwa

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## **5. MANDATORY TECHNICAL EVALUATION CRITERIA**

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

**Table 4: Mandatory Evaluation Criteria**

	<b>Mandatory Technical Criteria Description</b>	<b>Source of Evidence</b>	<b>Motivation for use of Criteria</b>
1.	Tenderer must submit a letter stating their confirmation of full compliance to the full scope of works [240-137101041], National Standards and Eskom Technical Requirements.	Provide a signed letter of compliance to full scope of work, Eskom's requirements/specifications, national and international standards as per the Scope of Work 240-137101041.	Demonstrate compliance to the full scope of works, National Standards and Eskom Technical Requirements.
2.	Professional Registration for Surveyor as: <ul style="list-style-type: none"><li>Professional Engineering Surveyor with minimum of 4 <b>years</b> engineering surveying experience.</li></ul>	Copy of Professional Certification with SAGC as Professional Engineering Surveyor: <ul style="list-style-type: none"><li>Supported by CV and qualification</li></ul>	Legislative Compliance

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## **6. 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. It is a requirement that the key personnel, in particular, have good communication skills in the English language.
4. Where no information is offered by the Tenderer no points shall be scored.

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## **6.1 ENGINEERING LAND SURVEYING PROFESSIONAL SERVICES EVALUATION CRITERIA (100%)**

<b>No</b>	<b>Description</b>	<b>Weighting</b>	<b>Sub-weighting</b>	<b>Tender Returnable(s)</b>
<b>6.1</b>	Engineering Land Surveying Professional Services evaluation criteria	<b>100%</b>		
6.1.1	Project Execution Plan		<b>30%</b>	<p>Demonstrate how tenderer intends on executing the project::</p> <p>Provide typical methodology document detailing how the Tenderer proposes to execute the following minimum high level requirements:</p> <ul style="list-style-type: none"> <li>- Survey control network</li> <li>- Survey Services and Utilities</li> <li>- Survey existing structures.</li> </ul>
6.1.2	Company's background and experience on Engineering Surveying Professional Services		<b>30%</b>	<p>Provide a list of traceable references for completed projects.</p> <p>A list of traceable references consisting of the following information:</p> <ul style="list-style-type: none"> <li>• Name of company where project was executed</li> <li>• Project Description: <ul style="list-style-type: none"> <li>○ Engineering Surveying Projects</li> </ul> </li> <li>• Construction period</li> <li>• Contract value</li> <li>• Contact person and contact details (reference)</li> </ul> <p>Minimum 3 projects with 3 verifiable references and/or recommendation letters</p>

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6.1.3	CV's of key personnel: <ol style="list-style-type: none"><li>1. <b>Senior Surveyor</b></li><li>2. <b>Surveyor</b></li><li>3. <b>Assistant Surveyor</b></li></ol>		<b>20%</b>	<p>Provide CV's of key personnel as specified below:</p> <ol style="list-style-type: none"><li>1. <b>Senior Surveyor</b> with minimum of 7 years engineering surveying experience post-graduation and Professional Registration with SAGC as Professional Engineering Surveyor.</li><li>2. <b>Surveyor</b> with minimum of 4 years engineering surveying experience post-graduation.</li><li>4. <b>Assistant Surveyor</b> with minimum of 2 years assistant engineering surveying experience.</li></ol> <p>The Tenderer shall also demonstrate how tenderer's Sub-Contractor and suppliers shall interface with the project management team.</p>
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6.1.4	Surveying Equipment:		<b>20%</b>	<p>Provide Surveying Equipment information as specified below:</p> <ol style="list-style-type: none"><li><b>1. Prism less Total Stations :</b><ul style="list-style-type: none"><li>• With accuracy of 1mm or less</li><li>• Valid copy Calibration Certificates</li><li>• Copy of Equipment Ownership Certificates</li></ul></li><li><b>2. Electronic Level :</b><ul style="list-style-type: none"><li>• System Reading to 4 decimal places</li><li>• Valid copy Calibration Certificates</li><li>• Copy of Equipment Ownership Certificates</li></ul></li><li><b>3. RTK GPS Base and Rover :</b><ul style="list-style-type: none"><li>• Valid copy Calibration Certificates</li><li>• Copy of Equipment Ownership Certificates</li></ul></li><li><b>4. Model Maker 15 or later :</b><ul style="list-style-type: none"><li>• Valid copy software licence certifications</li><li>• with at least one dongle on site full time</li></ul></li></ol> <p>Provide letter of confirming the availability of the equipment for the full duration of the contract as per Scope of Work 240-137101041.</p>
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## 7. TET MEMBER RESPONSIBILITIES

Table 5: TET Member Responsibilities

Mandatory Criteria Number	TET 1	TET 2	TET 3	TET 4
5 (1)	X	X	X	X
5 (2)	X	X	X	X
Qualitative Criteria Number	TET 1	TET 2	TET 3	TET 4
6.1.1	X	X	X	X
6.1.2	X	X	X	X
6.1.3	X	X	X	X
6.1.4	X	X	X	X

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## 7.1 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

### 7.1.1 Risks

**Table 6: Acceptable Technical Risks**

<b>Risk</b>	<b>Description</b>
1.	Alternative solutions with the same or better performance

**Table 7: Unacceptable Technical Risks**

<b>Risk</b>	<b>Description</b>
1.	Exclusions of scope specified in the employers requirements
2.	Unclear staff organogram. I.e. the staffing plan is weak not showing clarity in allocation of tasks and responsibilities
3.	Exclusion of a project specific schedule

### 7.1.2 Exceptions / Conditions

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

<b>Risk</b>	<b>Description</b>
1.	Accept deviation with technical qualification

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

<b>Risk</b>	<b>Description</b>
1.	Deviation without technical qualification not accepted

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## 8. AUTHORISATION

This document has been seen and accepted by:

<b>Name &amp; Surname</b>	<b>Designation</b>
Yuvir Gokul	Engineering EDWL
Ayo Jimoh	Civil Lead Discipline Engineer Design
Tumiso Railo	Kusile Project Engineering Manager

## 9. REVISIONS

<b>Date</b>	<b>Rev.</b>	<b>Compiler</b>	<b>Remarks</b>
November 2018	0	Ayo Jimoh	Final Copy
February 2019	1	Ayo Jimoh	Final Copy
March 2021	2	Tshepo Sathekge	Updating TES members
August 2021	3	Tshepo Sathekge	Updating the mandatory requirements and scoring criteria
July 2022	4	Ayo Jimoh	TES Updated

## 10. DEVELOPMENT TEAM

All Technical Evaluation Team Members were involved with the development of this document.

## 11. ACKNOWLEDGEMENT

Thanks to all who have contributed to this strategy and the constructive way in which knowledge and information have been shared and provided.

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