Eskom	Strategy	Engineering

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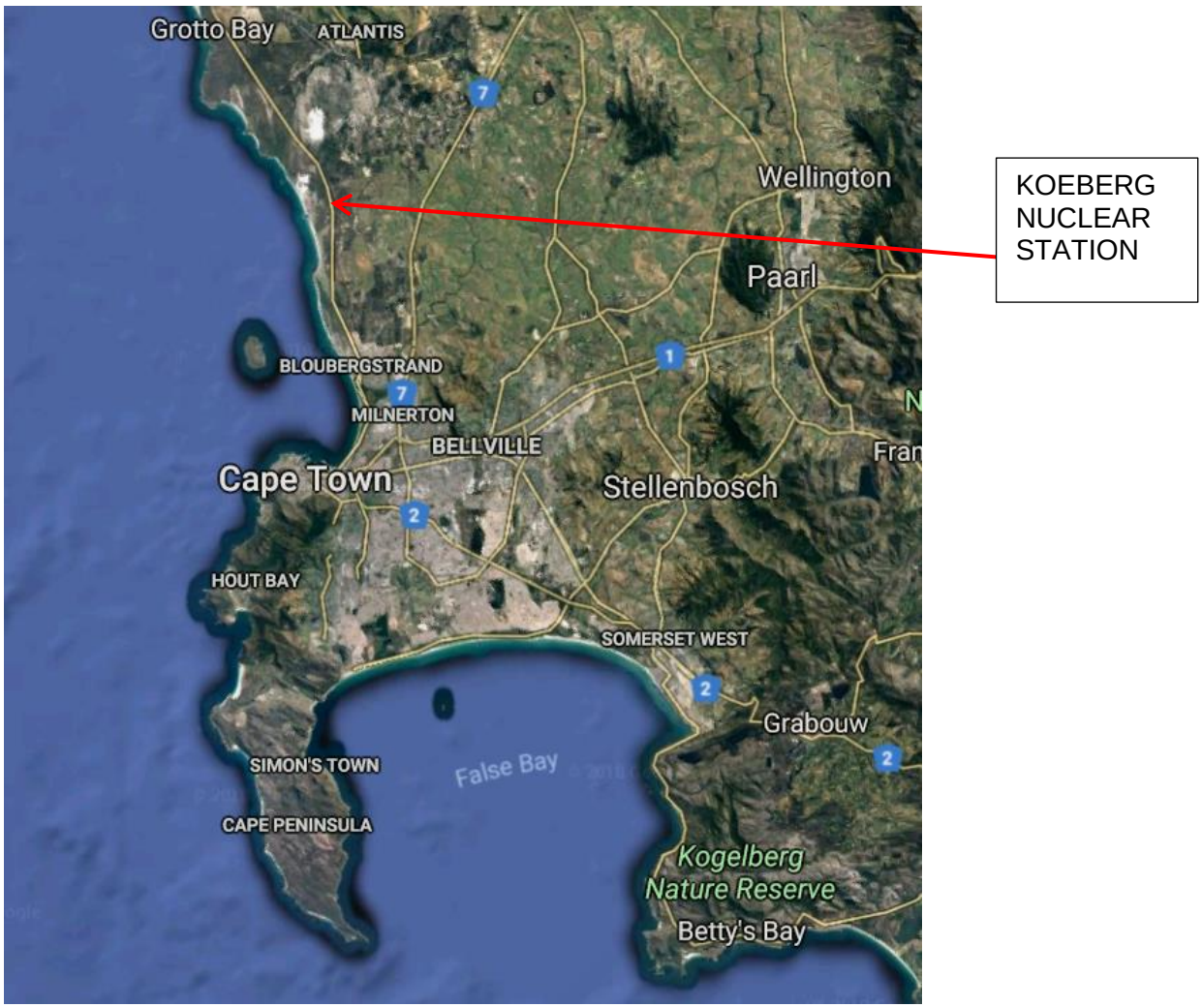

Figure 1: Geographical Location

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 Weskusfleur. 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 building design and construction work at Weskusfleur.

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 building 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 design and construction of the GIS, Control, Generation transformer buildings.

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

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

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	**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; Unacceptable exceptions AND/OR; Unacceptable conditions.
0	0	**TOTALLY DEFICIENT OR NON-RESPONSIVE**
Note 1: The scoring table does not allow for scoring of 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.		

3.2 TET MEMBERS

Table 3: TET Members

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

3.3 TECHNICAL RETURNABLES.

The following documents shall be submitted when tendering:

a) Technical Schedule indicating the design and construction task breakdown, program, workflow etc.

b) Construction method statement of each construction component. Describe a high level method of how the construction will be performed and sequence that is compatible with the technical schedule.

c) List of subcontractors, their scope of work, company profile.

d) List of all construction plant, machinery, major tools and equipment to be used.

e) Material suppliers e.g concrete, bricks, paving, steel, rebar etc.

f) List of relevant and comparable projects undertaken. The list shall include project name, scope, completion date, project value and client contact person and details. The contractor shall further include any concessions made during each project execution.

g) List of key personnel, their experiences and academic qualifications. (include CV detailing project-specific work experience for each employee)

h) Include total number of manpower to be dedicated to this project.

i) Test and measurement Procedures for certain categories.

j) Proof of registration with statutory and/or professional bodies Electrical: ECBSA

List of Activities:	**Yes**	**No**
1. Design and construction Competency		
2. Technical Schedule		
3. Detailed Construction Method Statements.		
4. List of Subcontractors. Please give all information regarding the Sub Contractors (previous projects etc.)		
5. List of plant & Machinery. See 3.3(d)		
6. Material suppliers: See 3.3(e)		
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:

	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
	A: Architectural design of the buildings				
A	**Relevant architect company experience (Projects completed in past 5 years)**		As per 240-82736997, section 3.5, page 17	**20**	
	1.1	Architect company name and Number of projects	As per 240-82736997, section 3.5, page 17		3
	1.2	Scope or type of relevant previous projects	As per 240-82736997, section 3.5, page 17		7
	1.3	Design structure indicating the design team incl. company name. Architect, structural eng., mechanical eng. , building services eng, Fire eng. Quantity surveyor etc.	As per 240-82736997, section 3.5, page 17		8
	1.5	Architect name and registration	As per 240-82736997, section 3.5, page 17		2

	B: Construction				
B1	**Relevant construction company experience (Projects completed in past 5 years)**			**20**	
	2.1	Number of relevant projects that includes reinforced concrete columns, beams and slabs at a height of 15m minimum	As per 240-82736997, section 3.5, page 17		10
	2.2	List previous projects with similar type of scope.	As per 240-82736997, section 3.5, page 17		4
	2.3	Project values of similar projects	As per 240-82736997, section 3.5, page 17		3
	2.4	Company Contact person and details	As per 240-82736997, section 3.5, page 17		3
B2	**Qualifications and experience of key personnel**		As per 240-82736997, section 3.5, page 17	**20**	
	2.1	Academic qualifications	As per 240-82736997, section 3.5, page 17		7
	2.2	Project-specific work experience	As per 240-82736997, section 3.5, page 17		7
	2.3	Total number of manpower to be dedicated to this project	As per 240-82736997, section 3.5, page 17		6
B3	**Construction/method statements**		As per 240-82736997, section 3.5, page 17	**20**	
	3.1	Relevancy of method statements	As per 240-82736997, section 3.5, page 18		10
	3.2	Technical schedule indicating itemised tasks and dates	As per 240-82736997, section 3.5, page 18		10

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B4	**Test Procedures**		As per 240-82736997, section 3.5, page 18	**5**	
	4.1	Procedures relevant/ comprehensive	As per 240-82736997, section 3.5, page 18		5
B5	**Plant , Tools and Equipment**		As per 240-82736997, section 3.5, page 17	**5**	
	5.1	Adequacy plant, tools and equipment	As per 240-82736997, section 3.5, page 17		5
B6	**Subcontractors**		As per 240-82736997, section 3.5, page 17	**5**	
	6.1	List of relevant construction subcontractors	As per 240-82736997, section 3.5, page 17		5
B7	**Materials**		As per 240-82736997, section 3.5, page 17	**5**	
	7.1	List of relevant accredited suppliers of materials	As per 240-82736997, section 3.5, page 17		5
				TOTAL = 100	100

3.5 TET MEMBER RESPONSIBILITIES

Table 5: TET Member Responsibilities

Qualitative Criteria (A) Number	TET 1	TET 2
A	X	
B1	X	
B2	X	
B3	X	
B4	X	
B5	X	
B6	X	
B7	X	

3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.6.1 Risks

Table 6: Acceptable Technical Risks

Risk	Description
1.	**None.**

Table 7: Unacceptable Technical Risks

Risk	Description
1.	**Non - compliance to Mandatory Criteria.**
2.	**Contractors who do not have the relevant experience.**

3.6.2 Exceptions / Conditions

Table 8: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	**None.**

Table 9: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	**Plant for road construction not adequate.**

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
1-2-2019	1	Dawie Naude	First issue

6. DEVELOPMENT TEAM

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

N.A.

7. ACKNOWLEDGEMENTS

N.A.