Eskom	Evaluation Criteria	Engineering

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Date: 16 – 07 -2024	Date: 17-07-2024	Date: 17 - 07 - 2024
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1. CONTENTS

Page

TABLES

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 the identified Minerva Substation. This strategy is a high-level consideration of the key aspects that will give direction to the technical evaluation process for civil works. It is in accordance with the Tender Engineering Evaluation Procedure (240-48929482) [1].

This document covers the work required for the refurbishment work at the identified Minerva Substation.

2. SUPPORTING CLAUSES

2.1 SCOPE

This document covers the technical evaluation strategy for the evaluation of the tender for refurbishment work at the identified Minerva Substation.

The aim of this document is to provide a technical evaluation strategy that shall be used for the technical evaluation of the tender for the Refurbishment work at the identified Minerva Substation. 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 criteria strategy is to define the Technical Returnable, 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 refurbishment work at the identified Minerva Substation.

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] TST41-877: Transmission Substation Design Earthing Standard

[4] SANS 1200: Standard Specification for Civil Engineering Construction

[5] OHS Act, 1993: Construction Regulations, 2014

2.2.2 Informative

None

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	Operating Regulations for High Voltage Systems
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 SCOPE OF WORK

The scope of work for this tender, forms part of the Refurbishment work at the identified Minerva Substation. as stipulated in detailed design drawings.

The scope of work entails the full development of the project to enable execution of the following high level scope of work at the identified:

- Before the removal of ceilings, the dust layer above must be vacuumed.
- Clean out and safely remove all asbestos containing material in the form of ceilings, interior and exterior walls.
- Correct handling of asbestos containing materials should be adhered to at all times.
- All asbestos waste shall be transported according to SABS 0228 and SABS 0229 standards and specifications.
- Disposal shall be done though the appointment of accredited waste management service providers.
- During the removal of asbestos material, the contractor must be responsible for the protection of the surrounding.
- All material must be disposed at licenced hazardous waste sites.
- Construction of new Structures as per the drawings.

3.2 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 score required for the tender to be considered technically acceptable is 70%.

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.		

3.3 TET MEMBERS

Table 3: TET Members

TET number	TET Member Name	Designation
TET 1	Sibonelo Sibiya	Snr. Advisor - Architecture
TET 2	Sifiso Gwala	Chief Draughtsperson
TET 3	Sipho Sebose	Senior Technologist

3.4 MANDATORY TECHNICAL EVALUATION CRITERIA

None

3.5 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. For details of the requirements for criteria scoring, see appendix A.

Table 4: Substation Civil Works Qualitative Technical Evaluation Criteria

<table>
<tr><th></th><th>Qualitative Technical Criteria Description</th><th>Reference to Technical Specification / Tender Returnable</th><th>Criteria Weighting (%)</th><th>Criteria Sub Weighting (%)</th><th>Score Clarification</th></tr>
<tr><td>1.</td><td>Construction Program/technical Schedule:
Applicable scope ticked.
<table><tr><td>a) Foundations and/or Plinths</td><td>✓</td></tr><tr><td>b) Cable Trenches</td><td></td></tr><tr><td>c) Earthworks</td><td>✓</td></tr><tr><td>d) Roads</td><td></td></tr><tr><td>e) Drainage</td><td>✓</td></tr><tr><td>f) Yardstone</td><td></td></tr><tr><td>g) Buildings</td><td>✓</td></tr><tr><td>h) Fencing</td><td></td></tr><tr><td>i) Steelwork
i.1. Columns & Beams
i.2. Equipment support structure
i.3. Floodlight mast</td><td>✓</td></tr><tr><td>j) Security lighting</td><td></td></tr><tr><td>k) Earthmat & earthtails</td><td></td></tr><tr><td>l) Substation electrical in buildings</td><td>✓</td></tr></table></td><td>240-48929482</td><td>20</td><td></td><td></td></tr>
</table>

		l.1. Lighting installation l.2. Ventilation installation l.3. Electrical installation (DB)				
	1.1	A program with the order in which main activities will be done			60	
	1.2	Time durations of main activities from start to end			40	
2.	Construction Method Statements Applicable Scope Ticked			30		
		a) Foundations and/or Plinths	✓			
		b) Cable Trenches	✓			
		c) Earthworks	✓			
		d) Roads				
		e) Drainage	✓			
		f) Yardstone				
		g) Buildings	✓			
		h) Fencing				
		i) Steelwork l.4. Columns & Beams l.5. Equipment support structure. l.6. Floodlight mast	✓			
		j) Security lighting				
		k) Earthmat & earthtails				
		l) Substation electrical in buildings l.7. Lighting installation l.8. Ventilation installation l.9. Electrical installation (DB)	✓			

	Addition: • <u>Method of concrete mix</u> The contractor to specify the method of concrete placement, batching on site or supply of ready mix. o If Batching – the contractor to provide the following: - Concrete Mix design; - Aggregate to be used; - Location/supplier of aggregate; and - Mixing and testing to be included in the method statement. o If ready mix - If Ready mix – the contractor to provide the following: - The supplier of Ready mix and the distance from site; - How results (and what results) will be obtained from the supplier; and - How concrete will be tested on site. • <u>Method of steel erection: (where the crane is required)</u> If the contractor specified that he/she will not subcontract the steel erection, he/she should specify there is a qualified rigger and crane operator to perform the work. If the contractor does not have a qualified rigger, he/she must specify that there will be a subcontractor company responsible for steelwork in this section or under list of subcontractor section.					
	2.1	Relevant method statement with a description of how the main activities will be constructed.			100	Method statement(s) demonstrate good understanding of the scope of work and it addresses all the minimum required information = 5 ; Method statement has partial understanding of the scope and it

		The Contractor shall submit typical method statement(s) detailing how the works will be executed. The method statement(s) shall address all the aspects of the scope of work including but not limited to: a) Removal and replacement of asbestos items. b) Construction of new buildings. c) Civil works including ground preparation, drainage works, excavations, layer works and levelling works, block paving d) Sewer works and plumbing Organogram of the project team A) the Tenderer shall submit an organogram showing the key personnel and project team. As a minimum, the organogram shall include (but not limited to): Project Manager, Site manager, site supervisor and Qualified Electrical Technician (registered with the DOL). B) Organogram to have names of the resources with their roles in the project				addresses two (2) to three(3) of the minimum required information = 4; Method statement lacks details, it addresses one (1) to two (2) of the listed minimum requirements and does not meet technical requirements, Unacceptable technical risks = 2 ; None provided = 0
3.	List of Subcontractors			10		

	3.1	Any company supplying material, plant and equipment that the contractor may hire. List company with the material, plant and equipment which they are supplying			40	
	3.2	Specify if there will be any company/contractor performing any construction work not done by the main contractor			60	
4.		List of Tools, Plant and Machinery		10		
	4.1	All relevant earthing tools, plant and machinery to be used during construction owned by the contractor. (All hired to be included in the list of subcontractors)			100	
5.		Relevant Previous Projects Completed		20		
	5.1	List of relevant and comparable previous projects executed successfully with similar scope in a table format – value for scope undertaken, description of works undertaken			60	>5 Projects = 5; 4 to 2 projects = 4; 1 project = 2; none provided = 0
	5.2	Including project scope, start and completion date and client contact person and details(Name and contact details of Client)			30	Well defined project scope, completion date and client contact person details provided (When all 3 requirements are provided) = 5 ; When any of project scope, completion date or client contact person and details is missing (When only 2 requirements are provided = 4; When one of project scope , completion date and client contact person and details is provided (When only one of the requirements is provided) = 2 ; None provided = 0
	5.3	Copies of completion certificates/letter or similar evidence from client.			10	All completion certificates for the mentioned projects in 5.1 provided

						= 5; Missing any of the mentioned projects in 5.1 = 4 ; Missing more than half of the projects mentioned in 5.1 = 2 ; none provided = 0
6.		CV's and Qualifications of Key Personnel		10		
	6.1	CVs of Construction Manager/Project Manager, Site Manager/Site Agent and Site Supervisor			30	All required CVs provided = 5; Missing 1 CV = 4; Only 1 CV submitted = 2 ; none provided = 0
	6.2	CV's to include academic qualifications and experience of key personnel detailing relevant project specific work experience. Qualifications: Construction manager/project manager – Btech/Diploma plus minimum of 5 years' experience. Site manager/Site agent- Btech/N.Diploma in Civil or building science as minimum qualification plus minimum of 5 years' experience Site Supervisor - Btech/Diploma plus minimum of 5 years' experience Signed letter confirming availability of key resources for the project.			60	All personnel meet the minimum qualification and experience = 5. (All key personnel to meet minimum requirements to achieve maximum score); Any of the key personnel not meeting the required qualification and experience = 2
	6.3	Proof/copies of certified academic qualifications			10	All qualifications mentioned in 6.1 & 6.2 provided = 5 (if all certified = 5 and not certified = 0) "Uncertified documents cannot be verified and therefore will results in documents not being accepted".

				TOTAL: 100		

3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.6.1 Risks

Table 5: Acceptable Technical Risks

Risk	Description
1.	**None.**

Table 6: Unacceptable Technical Risks

Risk	Description
1.	**Contractors who do not have the relevant experience.**

3.6.2 Exceptions / Conditions

Table 7: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	**None.**

Table 8: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	**None.**

4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation
Andile Maneli	Substation Engineering, Middle Manager
Sibonelo Sibiya	Substation Engineering, Snr Advisor: Architecture

5. REVISIONS

Date	Rev.	Compiler	Remarks
16 July 2024	0	S. Gwala	First issue

6. DEVELOPMENT TEAM

S. Gwala

7. ACKNOWLEDGEMENTS

Not Applicable.