

Title: **CIVIL TENDER TECHNICAL
EVALUATION STRATEGY:
POSEIDON TEMPORARY
EMERGENCY 40MVA
220/66KV
TRANSFORMER**

Unique Identifier: **Pos18P15-SE-E85**

Alternative Reference Number: **N/A**

Area of Applicability: **Engineering**

Documentation Type: **Report**

Revision: **1**

Total Pages: **10**

Next Review Date: **N/A**

Disclosure Classification: **Controlled
Disclosure**

Compiled by



**Bilal Hajee
Engineer (Civil)**

Date: 19/01/2022

Functional Responsibility



**Abdullah Kaka
Senior Engineer (Civil)**

Date: 31-01-2021

Authorized by



**Andile Maneli
Middle Manager (Civil)**

Date: 31 - 01 - 2022

Content

Content	2
1. Introduction	3
2. Supporting clauses	3
2.1 Scope	3
2.1.1 Purpose	3
2.1.2 Applicability.....	3
2.2 Normative/informative references	3
2.2.1 Normative	3
2.3 Definitions	4
2.4 Abbreviations	4
2.5 Roles and responsibilities.....	4
2.6 Process for monitoring.....	4
2.7 Related/supporting documents.....	4
3. Tender Technical Evaluation Strategy	5
3.1 Scope of Works	5
3.1 Technical Evaluation Threshold	5
3.2 TET Members.....	6
3.3 Mandatory technical evaluation criteria	6
3.4 Technical evaluation strategy	6
4. Authorization.....	10
5. Revisions	10
6. Development team.....	10
7. Acknowledgements	10

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 Poseidon Substation. 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)

2. Supporting clauses

2.1 Scope

The high-level scope of work:

- Construction of a Transformer Plinth suitable for a 220/66kV 40MVA unit,
- Inclusion of all associated civil works related to the above-mentioned Plinth (Runway, bund wall & connection to emergency oil trap system).

There are two 132kV yards at Poseidon MTS's. This project involves 132kV Busbars 1 and 2, which are housed in the yard referred to as 132kV Yard A. Busbars 3, 4 and 5 are in Yard B, located northeasterly from the 400kV busbar.

The aim of this document is to provide a technical evaluation strategy that shall be used for the technical evaluation of the tenders for Poseidon 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 document shall apply to Poseidon SS and its grid.

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] 240-109836084: Commercial procurement strategy
- [3] SANS 1200: Standard Specification for Civil Engineering Construction

ESKOM COPYRIGHT PROTECTED

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

2.3 Definitions

2.3.1 General

None

2.3.2 Disclosure classification

Controlled disclosure to external parties (either enforced by law or discretionary)

2.4 Abbreviations

<u>Abbreviations</u>	<u>Description</u>
CV	Curriculum Vitae
N/A	Not applicable
OHS Act	Occupational Health and Safety Act
PS	Power Station
SANS	South African National Standard
TET	Technical Evaluation Team

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.

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

2.7 Related/supporting documents

ESKOM COPYRIGHT PROTECTED

N/A

3. Tender Technical Evaluation Strategy

3.1 Scope of Works

The Scope of Works required for this project can be found in Pos18P15-SE-E84

3.1 Technical Evaluation Threshold

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].

Score	Percentage	Definition
5	100	COMPLIANT Meet technical requirements AND; No foreseen technical risks 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
<p>Note 1: The scoring does not allow for 1 and 3</p> <p>Note 2: Foreseen acceptable and unacceptable risk(s), exceptions and conditions shall be unambiguously defined in the relevant Tender Technical Evaluation Strategy</p>		

Table 1: Evaluation Scoring Table

3.2 TET Members

The following are tentative members that will undertake the evaluations

TET number	TET member name	Designation
1	Bilal Hajee	Senior Engineer (Civil)
2	TBA	Engineer (Civil)
3	TBA	Engineer (Civil)

Table 2: TET MEMBERS

3.3 Mandatory technical evaluation criteria

N/A

3.4 Technical evaluation strategy

The table below provides an overview of the information that should be included in the tender submission. TET Members will use this very same table to assess and score the tenderers

- All submissions shall be neatly bound and easy to navigate
- Do not add unnecessary information
- It is important to draw attention to how you will make this project a success, as opposed to providing generic or “cut and paste” information.

Qualitative Technical Criteria Description			Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
Construction Program/technical Schedule: Tick Applicable			A full construction schedule is to be provided using a Gantt Chart format. The schedule shall be on A3 and readable. The schedule should include the length of each activity; however, it is encouraged that particular attention be drawn to how contractors plan to carry out the works efficiently and to the correct quality. The project is time sensitive; thus, evaluators will need to be convinced with a well-established and well	20	
a) Foundations and/or Plinths	✓				
b) Trenches	✓				
c) Earthworks					
d) Roads					
e) Drainage	✓				
f) Yardstone (For earthing)					
g) Buildings					

ESKOM COPYRIGHT PROTECTED

		h) Fencing	✓	organized plan to eliminate delays. The documents to be referenced are found on the provided Civil Scope of Work Document.		
		i) Steelwork i.1. Columns & Beams i.2. Equipment support structure i.3. Floodlight mast	✓			
		j) Security lighting				
		k) Earthmat & earthtails				
		l) Substation electrical in buildings 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
Construction Method Statements Tick Applicable				A full construction method statement is required. A separate statement can be provided for each of the items ticked on the table. Method statements will be evaluated based on: 1. The expected quality of work. A poorly planned statement will be identified and could result in poor workmanship. 2. Efficiency. Bringing attention to how the work can be fast-tracked without compromising quality is critical. The documents to be referenced	30	
a) Foundations and/or Plinths		✓				
b) Trenches		✓				
c) Earthworks						
d) Roads						
e) Drainage		✓				
f) Yardstone (For earthing)						
g) Buildings						
h) Fencing		✓				
i) Steelwork l.4. Columns & Beams l.5. Equipment		✓				

	<table><tr><td>support structure l.6. 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 l.7. Lighting installation l.8. Ventilation installation l.9. Electrical installation (DB)</td><td></td></tr></table>	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)		are found on the provided Civil Scope of Work Document.		
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)												
<p>Addition:</p> <ul style="list-style-type: none">• <u>Method of concrete mix</u> The contractor to specify the method of concrete placement, batching on site or supply of ready mix.<ul style="list-style-type: none">○ If Batching – the contractor to provide the following:<ul style="list-style-type: none">- Concrete Mix design;- Aggregate to be used;- Location/supplier of aggregate; and- Mixing and testing to be included in the method statement.○ If ready mix - If Ready mix – the contractor to provide the following:<ul style="list-style-type: none">- 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
	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
	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 subcontractor)			100
	Relevant Previous Projects Completed		20	
5.1	List of relevant and comparable previous projects executed successfully	Provide context (don't just list projects). Have you successfully performed a similar project under a similar set of constraints/challengers?		60

5.2	Including project scope, completion date and client contact person and details			40
	CV's and Qualifications of Key Personnel		10	
6.1	CV's of Construction Manager/Project Manager, Site Manager/Site Agent and Site Supervisor			40
6.2	CV's to include academic qualifications and experience of key personnel detailing relevant project specific work experience			30
6.3	Proof/copies of academic qualifications			30
			TOTAL: 100	

Table 4: Evaluation Criteria

4. Authorization

This document has been seen and accepted by:

Name and surname	Designation	
Abdullah Kaka	Senior Engineer	
Andile Maneli	Middle Manager	

5. Revisions

Date	Rev	Compiler	Remarks
19/01/2022	0	Bilal Hajee	First Issue

6. Development team

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

Bilal Hajee

7. Acknowledgements

Azhar Mayet

Thato Mathe