

Title: **Greater East London strengthening project (Neptune Substation) - Tender Technical Evaluation Strategy (Civil Works)** Unique Identifier: **Ne112P01-SE-E80**

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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 at Neptune 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)[1].

This document covers the civil works required at Neptune substation for the following items:

1.	Civil Works: 400kV Feeder Bay, equipment steelwork and foundations
----	--

2. SUPPORTING CLAUSES

2.1 SCOPE

This document covers the technical evaluation strategy for the evaluation of the tenders for the construction of a 400kV Feeder Bay at Neptune Substation.

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 construction of a 400kV Feeder Bay at Neptune 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 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 tenderers in relation to tenders received for the construction of 400kV Feeder bay at Neptune 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 Technical Evaluation Procedure
- [2] 32-1034: Eskom Procurement and Supply Management Procedure
- [3] 0.54/393: Transmission Substation Earthing Standard
- [4] TST41-877: Transmission Substation Design Earthing Standard
- [5] SANS 1200: Standard Specification for Civil Engineering Construction
- [6] OHS Act, 1993: Construction Regulations, 2014

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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
CIDB	Construction Industry Development Board
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 I 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 (as per 240-48929482) [1].

2.6 PROCESS FOR MONITORING

N/A

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2.7 RELATED/SUPPORTING DOCUMENTS

N/A	
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3. TENDER TECHNICAL EVALUATION STRATEGY

3.1 SCOPE OF WORKS

3.1.1 Steel Work

The following items are required:

- 400kV Primary Plant Equipment Steelwork

3.1.2 Foundations

The following items are required:

- 400kV Primary Plant Foundation

3.1.3 Earthing

All steelwork to be earthed to the earth grid

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 technically acceptable is 70%.

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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
<p>Note 1: The scoring table does not allow for scoring of 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>		

3.3 TET MEMBERS

Table 3: TET Members

TET number	TET Member Name	Designation
TET 1	Abdullah Kaka	Substation Engineer (Civil)
TET 2	To be appointed	

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3.4 MANDATORY TECHNICAL EVALUATION CRITERIA

None

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3.5 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Table 4: Qualitative Technical Evaluation Criteria

	Qualitative Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)																								
1.	<div>Construction Program/technical Schedule:</div> <div>Applicable scope ticked</div> <table><tr><td>a) Foundations and/or Plinths</td><td>✓</td></tr><tr><td>b) 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 l.1. Lighting installation l.2. Ventilation installation l.3. Electrical installation (DB)</td><td></td></tr></table>	a) Foundations and/or Plinths	✓	b) Trenches		c) Earthworks		d) Roads		e) Drainage		f) Yardstone		g) Buildings		h) Fencing		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)		240-48929482	30	
a) Foundations and/or Plinths	✓																											
b) Trenches																												
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	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.	<div>Construction Method Statements</div> <div>Applicable scope ticked</div> <table><tr><td>a) Foundations and/or Plinths</td><td>✓</td></tr><tr><td>b) 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.4. Columns & Beams I.5. Equipment support structure I.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 I.7. Lighting installation I.8. Ventilation installation I.9. Electrical installation (DB)</td><td></td></tr></table> <div>Addition:</div> <div><div>• Method of concrete mix</div></div>		a) Foundations and/or Plinths	✓	b) Trenches		c) Earthworks		d) Roads		e) Drainage		f) Yardstone		g) Buildings		h) Fencing		i) Steelwork I.4. Columns & Beams I.5. Equipment support structure I.6. Floodlight mast	✓	j) Security lighting		k) Earthmat & earthtails	✓	l) Substation electrical in buildings I.7. Lighting installation I.8. Ventilation installation I.9. Electrical installation (DB)		240-48929482	20	
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k) Earthmat & earthtails	✓																												
l) Substation electrical in buildings I.7. Lighting installation I.8. Ventilation installation I.9. Electrical installation (DB)																													

		<p>The contractor to specify the method of concrete placement, batching on site or supply of ready mix.</p> <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 . <ul style="list-style-type: none"> ● <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
3.	List of Subcontractors		240-48929482	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

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4.		List of Tools, Plant and Machinery	240-48929482	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
5.		Relevant Previous Projects Completed	240-48929482	20	
	5.1	List of relevant and comparable previous projects executed successfully			60
	5.2	Including project scope, completion date and client contact person and details			40
6.		CV's and Qualifications of Key Personnel	240-48929482	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 certified academic qualifications			30
				TOTAL: 100	

3.6 TET MEMBER RESPONSIBILITIES

All members will undertake complete evaluations

3.7 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.7.1 Risks

Table 5: Acceptable Technical Risks

Risk	Description
1.	None

Table 6: Unacceptable Technical Risks

Risk	Description
1.	Contractors that don't have relevant experience

3.7.2 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	Signature
Andile Maneli	Civil Engineering Middle Manager	
Dawie Naude	Senior Advisor	

5. REVISIONS

Date	Rev.	Compiler	Remarks
July 2022	1	A Kaka	First Issue

6. DEVELOPMENT TEAM

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

A Kaka

7. ACKNOWLEDGEMENTS

None

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