



Strategy

Engineering

Title:	<b>Tender Technical Evaluation Strategy for Matla Power Station Electromagnets Replacement</b>	Unique Identifier:	N/A
		Alternative Reference Number:	N.GML0423
		Area of Applicability:	Engineering
		Documentation Type:	Strategy
		Revision:	0
		Total Pages:	14
		Next Review Date:	Not applicable
		Disclosure Classification:	CONTROLLED DISCLOSURE

Compiled by

Functional Responsibility

Authorised by

L. Zwane  
System Engineer

N. Maseko  
Electrical Engineering  
Manager

L. Ngobese  
Engineering Manager

Date: 23/11/14

Date: 14/11/2023

Date: 16/11/2023

## CONTENTS

	<b>Page</b>
<b>1. INTRODUCTION.....</b>	<b>3</b>
<b>2. SUPPORTING CLAUSES .....</b>	<b>3</b>
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 2 2 Informative	4
2 3 DEFINITIONS	4
2 3 1 Classification	4
2 4 ABBREVIATIONS	4
2 5 ROLES AND RESPONSIBILITIES	4
2 6 PROCESS FOR MONITORING	4
2 7 RELATED/SUPPORTING DOCUMENTS	5
<b>3. TENDER TECHNICAL EVALUATION STRATEGY .....</b>	<b>5</b>
3 1 TECHNICAL EVALUATION THRESHOLD	5
3 2 TET MEMBERS	6
3 3 MANDATORY TECHNICAL EVALUATION CRITERIA	7
# IF THE ABOVE MANDATORY CRITERIA IS NOT MET, DO NOT PROCEED WITH THE QUALITATIVE CRITERIA	7
3 4 QUALITATIVE TECHNICAL EVALUATION CRITERIA	8
3 5 TET MEMBER RESPONSIBILITIES	11
3 6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS	12
3 6 1 Risks	12
3 6 2 Exceptions / Conditions	12
<b>6. AUTHORISATION .....</b>	<b>14</b>
<b>7. REVISIONS.....</b>	<b>14</b>
<b>8. DEVELOPMENT TEAM .....</b>	<b>14</b>
<b>9. ACKNOWLEDGEMENTS .....</b>	<b>14</b>

## TABLES

Table 2 Mandatory Technical Evaluation Criteria	7
Table 3 Qualitative Technical Evaluation Criteria	8
Table 4 TET Member Responsibilities	11
Table 5 Acceptable Technical Risks	12
Table 6 Unacceptable Technical Risks	12
Table 7 Acceptable Technical Exceptions / Conditions	12
Table 8 Unacceptable Technical Exceptions / Conditions	13

## CONTROLLED DISCLOSURE

When downloaded from the EDI S, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the current version of the system.

## **1. INTRODUCTION**

Matla Power Station is designed to be a highly efficient and effective coal fired power station in supplying power to the South African National Grid. This should be maintained by ensuring that the plant power output is not negatively impacted by unavailability, inefficiency and unreliability of certain plant equipment or components. The power station is designed to allow minimal UCLF as possible and this can be achieved by ensuring that the time spent on maintenance is minimized. One of the ways to minimize the maintenance downtime is the availability and the optimal performance of equipment's.

This document provides an overview of Eskom technical criteria to be used when evaluating the tender submissions for the Design, Manufacture, Supply, Install, Test, and commissioning of two Electromagnets. The document provides annexures developed to address various aspects required to perform technical evaluations.

## **2. SUPPORTING CLAUSES**

### **2.1 SCOPE**

This document contains the technical evaluation criteria and associated documents relating to a commercial enquiry for the technical evaluation of Electromagnets.

The technical evaluation team members are listed and appointed in this document along with their responsibilities.

The technical evaluation requirements consist of the following criteria:

Mandatory Evaluation Criteria

Qualitative Evaluation Criteria

Once the Technical Evaluation Strategy is authorised no changes will be made to the evaluation criteria without appropriate authorisation.

#### **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 Matla Power Station.

## **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

#### **CONTROLLED DISCLOSURE**

When downloaded from the EDI/S, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the actual version of the document.

### 2.2.2 Informative

- [1] ISO 9001 Quality management systems
- [2] ISO 14001 Environmental Management systems
- [3] 474-59 Internal Audit Procedure

### 2.3 DEFINITIONS

Definition	Description
Enquiry	A competitive or non-competitive request for information, interest, quotations or proposals made to a supplier, a group of suppliers or the market at large
Local	Within the borders of the Republic of South Africa
Tender	A tender refers to an open or closed competitive request for quotations / prices against a clearly defined scope / specification
Electromagnet Auxiliaries	As per BOM, i.e. Control Panels, Rectifier Transformers etc

#### 2.3.1 Classification

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

### 2.4 ABBREVIATIONS

Abbreviation	Description
BOM	Bill Of Material
C&I	Control & Instrumentation
CoE	Centre of Excellence
LV	Low Voltage
QC	Quality Control
QCP	Quality Control Plan
QAL2	Quality Assurance level 2
SOW	Scope Of Work
TTES	Tender Technical Evaluation Strategy
TEC	Technical Evaluation Criteria
TET	Technical Evaluation Team

### 2.5 ROLES AND RESPONSIBILITIES

As per 240-48929482 Tender Technical Evaluation Procedure

### 2.6 PROCESS FOR MONITORING

This procedure shall be monitored by 474-59 Internal Audit Procedure

#### CONTROLLED DISCLOSURE

When downloaded from the EDMS, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the approved version on the system.

## 2.7 RELATED/SUPPORTING DOCUMENTS

Tender Technical Evaluation Scoring Form

## 3. TENDER TECHNICAL EVALUATION STRATEGY

### 3.1 TECHNICAL EVALUATION THRESHOLD

The section details the methodology to be employed by Eskom in scoring the "Technical" category of the tender evaluation. This evaluation exercise is performed by the appointed Eskom TET.

The evaluation of the tenders will be based on the tenderer's ability to meet the technical requirements. The evaluation consists of mandatory criteria and qualitative criteria. Results of mandatory evaluation will be "compliant" or "Non-Compliant".

The qualitative evaluation shall apply a weighted score card approach to evaluate the tenders against the specifications and employers requirement. The score card below will be used.

**Table 1: Qualitative Evaluation Criteria Scoring Table**

Score	Weight score%	DESCRIPTION
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>
2	40	<b>NON-COMPLIANT</b> <ul style="list-style-type: none"> <li>• Does not meet technical requirement(s) AND/OR,</li> <li>• 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 minimum weighted final score (threshold) required for a tender to be considered from a technical perspective is 70%.

#### CONTROLLED DISCLOSURE

When downloaded from the EDMS this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the published version of the system.

### 3.2 TET MEMBERS

**Table 2: TET Members**

<b>TET number</b>	<b>TET Member Name</b>	<b>Designation</b>
TET 1	Lindani Zwane	Electrical System Engineer
TET 2	Ramogale Thulare	Civil System Engineer
TET 3	Bruce Bvuma	Mechanical System Engineer
TET 4	Johan Veldman	Senior Electrical Engineer

**CONTROLLED DISCLOSURE**

When downloaded from the ED IS the user shall ensure that the document is not disclosed to any other person and the user shall ensure that the document is not disclosed to any other person.

**3.3 MANADATORY TECHNICAL EVALUATION CRITERIA**


**Table 1: Mandatory Technical Evaluation Criteria**

	<b>Mandatory Technical Evaluation Criteria</b>	<b>Reference to Technical Specification / Tender Returnable</b>	<b>Motivation &amp; Comments</b>
1.	OEM Support Letter(s)	The Non-OEM tenderer shall provide the commitment letter(s) from the OEM or Approved Local Supplier indicating that the Electromagnets and auxiliaries as per attached mandatory BOM will be provided to the tenderer with lead times indicated	Employer shall be certain that the Tenderer will be able supply equipment's as per mandatory BOM
2.	Minimum CIDB level 4EP	Supply valid proof of CIDB grading	The work is classified as construction as per construction regulations

**# IF THE ABOVE MANDATORY CRITERIA IS NOT MET, DO NOT PROCEED WITH THE QUALITATIVE CRITERIA**

3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Table 2: Qualitative Technical Evaluation Criteria

 EVALUATION CRITERIA- Design, manufacture, supply, install, test and commission of two electromagnets and their auxiliaries including decommissioning and removal of existing electromagnets and transformer their auxiliaries - External Contractor												
(PART A) TECHNICAL CRITERIA - TECHNICAL SELECTION CRITERIA												
Item No	KPA - Area of Evaluation	Weight (%)	KPI - Criteria Evaluation Indicator	Minimum Criteria Evaluation Requirements	Source	Unit	Scale				Score	Weighted score
							0	2	4	5		
1	Company	20%	Experience	Company's background and experience on construction, installation, testing, maintenance and supplying of Electromagnets	Reference years that the company has been doing work similar or related to construction, installation, testing, maintenance and supplying of Electromagnets	20	No experience	Less than 3 years	Experience of 3-5yrs	More than 5+ yrs		
2	Engineering Ability	5%	Engineering Ability	Supplier shall submit a tool list of various electronic equipment and applicable tools to be used to test and calibrate spares	Supplied list of various electronic equipment and applicable tools (e.g. ductor meter resistance measurement, digital multi-meter, Gauss meter, megger etc)	5	No tool list submitted	Tool list is submitted without calibration certificates	Tool list is submitted and certificates have expired before the closing submission date of the tender	Tool list is submitted and certificates are still valid before the closing submission date of the tender		
3	Warranty	10%	Warranty of Magnets	Warranty of magnets	Warranty of Magnets and duration of the warranty indicated	10	No warranty for Magnets	Warranty of 1-2 years	Warranty of 3-4 years	Warranty of at least 5 years		
4	Planning	10%	Project program	High level program indicating the duration of work to be performed on all plant areas as per the SOW	Submit planning program which covers the various areas as per the SOW with all activities and time lines shown clearly	10	No program submitted	Program submitted covers 3 to 4 work areas as per the scope	Program submitted covers 4 to 5 work areas as per the scope	Program submitted covers all work areas as per the scope		



**Tender Technical Evaluation Strategy for Matla  
Power Station Electromagnets Replacement**

Unique Identifier **N/A**  
Revision **0**  
Page **9 of 14**

5	Engineering Ability	10%	Engineering Ability	Method statement for the work to be executed as per the scope of work	A written method statement for the work to be executed covering all areas of work as per the SOW including 1 Design, construct and supply of Magnets and its auxiliary, 2 Installation and commissioning Magnets and control panels, 3 Installation and termination of power & control cables 4 Testing of magnets and Issuing of CoC for panels 5 Final issuing of project data packs with all required information and project hand over certificates to confirm completion of all work activities	10	No method statement submitted	Method statement submitted covers all areas as per the scope of work however less than 3 of 5 listed minimum items are covered in the method statement items listed in source column of this sheet	Method statement submitted covers all areas as per the scope of work however only 4 of 4 listed minimum items are covered in the method statement items listed in source column of this sheet	Method statement submitted covers all areas as per the scope of work and all 5 of 5 listed minimum items are covered in the method statement items listed in source column of this sheet		
6	Quality Control	10%	Quality control	A high-level Quality control plan (QCP) covering all of the work to be completed as per the scope of work	Supplier to provide high level QCP document which covers the work to be executed in all areas as per the scope of work	10	No QCPs submitted for the work areas	QCPs have been submitted but does not cover all of the areas as per the scope of work		QCPs have been submitted covers all of the areas as per the scope of work and all 5 of 5		
7	Experience and qualifications	10%	Experience and qualifications	Registered IE or MIE	Submit proof of professional registration certificate which must also be confirmed to still be active and on CV	10	No registered IE or MIE			Certification has been submitted for and there is proof that certification is current at the time of tender submission and on CV		
8	Experience and qualifications	10%	Experience and qualifications	Qualifications and Experience of individuals working on the project	1 x Supervisor/Manager - Experience as a supervisor on projects listed on CV which are similar or related to construction, installation, testing, maintenance and supply of Magnets & formal qualification	10	No experience	Less than 3 years as supervisor experience and N3 technical qualification (Mechanical or Electrical)	Experience 3-5 yrs as supervisor and N3 technical qualification (Mechanical or Electrical)	5 and more yrs as supervisor experience and N3 technical qualification (Mechanical /Electrical)		

**Tender Technical Evaluation Strategy for Matla  
Power Station Electromagnets Replacement**

Unique Identifier **N/A**  
Revision **0**  
Page **10 of 14**

9	Experience and qualifications	5%	Experience and qualifications	Qualifications and Experience of individuals working on the project	2x Artisan/technician - Experience and projects listed on CV which are related to construction, installation, testing and maintenance of magnets & formal qualification	10	No experience	Less than 3 yrs experience and N3 technical qualification (Mechanical or Electrical)	Experience 3-5yrs and N3 technical qualification (Mechanical or Electrical)	5 and more yrs experience and N3 technical qualification (Mechanical or Electrical)		
10	Experience and qualifications	5%	Experience and qualifications		2x riggers - Experience and projects listed on CV which are related to construction, installation and rigging of electromagnets or related equipment's & formal qualification	5	No experience	Less than 3 yrs experience and any formal qualification /certificate	3-5 yrs experience and any formal qualification /certificate	+5 yrs experience and any formal qualification/certificate		
11	Experience and qualifications	5%	Experience and qualifications	Experience and qualifications	1 x Engineer or specialist and projects listed on CV which are related to design construction, installation, testing and maintenance of magnets & formal qualification  Or Score 5 if registered with ECSA as a Pr Eng Engineer/Technologist- and have 3+ yrs experience	5	No experience	1-3 yrs experience and NQF level 6 or higher technical qualification (Engineering)  or 10 yrs experience and N3 technical qualification (Engineering)	3-5yrs and NQF level 6 or higher technical qualification (Engineering)  or 12-14 yrs experience and N3 technical qualification (Engineering)	More than 5 years and NQF level 6 or higher technical qualification (Engineering)  or 16 and more yrs experience and N3 technical qualification (Engineering)		
TOTAL SCORE												
TAKE NOTE: ONLY TECHNICAL SUITABLE IF TOTAL SCORE IS EQUAL TO OR GREATER THAN 70%												

3.5 TET MEMBER RESPONSIBILITIES

Table 3: TET Member Responsibilities

Mandatory Criteria Number	TET 1	TET 2	TET 3	TET 4
1	X	X	X	X
Qualitative Criteria Number	TET 1	TET 2	TET 3	TET 4
1	X	X	X	X
2	X	X	X	X
3	X	X	X	X
4	X	X	X	X
5	X	X	X	X
6	X	X	X	X
7	X	X	X	X
8	X	X	X	X
9	X	X	X	X
10	X	X	X	X
11	X	X	X	X

**3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS**

**3.6.1 Risks**

**Table 4: Acceptable Technical Risks**

<b>Risk</b>	<b>Description</b>
1	If MIE,IE and ECSA certificates are not submitted for proposal, tenderer may submit the registration numbers/references that shall be checked to still be valid and correspond to the CV of the holder

**Table 5: Unacceptable Technical Risks**

<b>Risk</b>	<b>Description</b>
1	Supplier/Tenderer does not meet the mandatory criteria

**3.6.2 Exceptions / Conditions**

**Table 6: Acceptable Technical Exceptions / Conditions**

<b>Risk</b>	<b>Description</b>
1.	Tenderers that are non-OEM's
2.	Signed letters from OEM's to non-OEM's Tenderers.
3.	Tenderer artisan/technician who is registered as an IE is acceptable if the contractor does not have an MIE
4.	Tenderer Manager can also act as a Supervisor or and also as an Engineer if registered with ECSA or have qualification and experience required as per the T.E.C
5.	Tenders that are non-OEM's may supply signed letters or certificate from OEM's for warranty of magnets and auxiliaries.

---

**Table 7: Unacceptable Technical Exceptions / Conditions**

<b>Risk</b>	<b>Description</b>
1	Contractor/Tenderer do not have experience of similar or related previous project.
2	Contractor/tender do not have at least 2X qualified artisans/technicians
3	Contractor/tender do not have an MIE or IE
4	Contractor/Tenderer do not have at least 2x riggers with relevant experience.

## 6. AUTHORISATION

This document has been seen and accepted by

<b>Name</b>	<b>Designation</b>
Johan Veldman	Electrical Senior Engineer
Lindani Zwane	Electrical System Engineer
Bruce Bvuma	Mechanical System Engineer
Ramogale Thulare	Civil System Engineer
Lesikara Suping	Electrical Maintenance Manager
Ettienne Van Zyl	Design and Specification Manager

## 7. REVISIONS

<b>Date</b>	<b>Rev.</b>	<b>Compiler</b>	<b>Remarks</b>
September 2023	0	Lenox Mokoka	Original document

## 8. DEVELOPMENT TEAM

The following people were involved in the development of this document

Lenox Mokoka

## 9. ACKNOWLEDGEMENTS

None

### CONTROLLED DISCLOSURE

When copy released from the EDMS it is only meant to be used for internal purposes and the responsibility rests with the user to ensure it is in line with the authorised release of this system.