Eskom	Strategy	Engineering

Title: **Tender Technical Evaluation for Slurry Plant PLC and SCADA system Upgrade at Matla Power Station (C&I Scope Only)**

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Compiled by	Functional Responsibility	Authorised by
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TABLES

1. INTRODUCTION

This document presents the Technical Evaluation Strategy for the evaluation of the tenders for the Slurry Plant PLC and SCADA System Upgrade for Matla Power Station. This strategy considers key aspects that will give direction to the technical evaluation process.

This strategy has been aligned to the requirements of the Tender Engineering Evaluation Procedure [1].

Refer to the Tender Engineering Evaluation Procedure [1] for a more detailed explanation of the evaluation process that is followed within Eskom.

2. SUPPORTING CLAUSES

2.1 SCOPE

This document covers the tender evaluation strategy that will be adopted by all Technical Evaluation Team (TET) members when performing technical evaluations for the project. This document also lists the various technical areas of the Employer's Requirements [2] in which the evaluation process is distributed.

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

Applicable to Matla Power Station Slurry Plant PLC and SCADA System Upgrade (C&I Scope Only).

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] Matla Power Station Slurry Plant PLC and SCADA System Upgrade (C&I Scope Only) Works Information

2.2.2 Informative

2.3 DEFINITIONS

None

2.3.1 Classification

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

2.4 ABBREVIATIONS

Abbreviation	Description
QC	Quality Control
QCP	Quality Control Plan
RSA	Republic of South Africa
BPS	Boiler Protection System
C&I	Control and Instrumentation
CoE	Centre of Excellence
EWO	Early Works Order
GBE	Generation Business Engineering
GC	Group Capital
HMI	Human Machine Interface
IEC	International Electrotechnical Commission
LCC	Life Cycle Costing
LDE	Lead Discipline Engineer
MR	Mandatory Requirement
OEM	Original Equipment Manufacturer
OPC	Object Linking and Embedding for Process Control
PDS	Plant Data System
PIS	Plant Information System
PS	Power Station
RFP	Request for Proposal
SIL	Safety Integrity Level
TA	Technical Area
TES	Technical Evaluation Strategy
TET	Technical Evaluation Team

2.5 ROLES AND RESPONSIBILITIES

As per 240-48929482: Tender Technical Evaluation Procedure

2.6 PROCESS FOR MONITORING

N/A

2.7 RELATED/SUPPORTING DOCUMENTS

Tender Technical Evaluation Scoring Form

3. TENDER TECHNICAL EVALUATION STRATEGY

3.1 TECHNICAL EVALUATION THRESHOLD

The minimum weighted final score (threshold) required for a tender to be considered from a technical perspective is 70%.

3.2 TET MEMBERS

Table 1: TET Members

TET number	TET Member Name	Designation
TET 1	Khumo Skosana	C&I Engineering Senior Advisor
TET 2	Photo Mathaba	C&I Engineering Technologist
TET 3	Thabo Sithole	C&I Engineering Engineer

3.3 MANDATORY TECHNICAL EVALUATION CRITERIA

Table 2 below identifies the requirements for the mandatory evaluation. These requirements are "must meet" criteria. They are assessed on a "yes/no" basis. An assessment of "no" against a criterion shall technically disqualify the tenderer.

Table 2: Mandatory Technical Evaluation Criteria

	Mandatory Technical Criteria Description	**Reference to Technical Specification / Tender Returnable**	**Motivation for use of Criteria**
1.	Traceable proof that a Control System has been successfully installed, commissioned, and made operational by the Contractor/Supplier in at least two (2) power plants.	Provide valid proof for two (2) completed Control System projects where there was multiple control system interface/s in a form of Contract/Order numbers and contactable reference numbers of the Project Managers.	To ensure the proposed system is currently operational and it is proven technology.
2.	A changeover methodology -It is required that the upgrade project be done with minimal disruptions to current operations, and a thorough changeover strategy and procedures be put in place to facilitate the migration from the old to the new control system in the shortest possible time	Submit proof of at least one changeover project executed with minimal disruption on the running plant	An overall changeover strategy based on a phased replacement, such that the systems (including the network and SCADA) are changed over in sequence, in such a manner that the control system is available after each changeover.

3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

These are weighted evaluation criteria and are used to identify the highest technically ranked tenderer. The weighting reflects the relevant importance of each criterion.

As per the Tender Engineering Evaluation Procedure [1], the minimum weighted final score (threshold) required for a tenderer to be considered from a technical perspective is 70%.

Table 3: Qualitative Technical Evaluation Criteria

	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Scoring				
	Levels of Criteria							
1.	**Technical (35%)**			%	0	40	80	100
	1.1	Traceable Evidence of Projects Completed	At least (1-3) similar Projects/ Contracts that have been completed involving design, installation, and commissioning of the Control Systems (PLC/DCS and/or HMI/SCADA).	100	None Provided	One Project with proof of completion-completion certificates, contact person at the company where the work was carried out.	Two Projects with proof of completion-completion certificates, contact person at the company where the work was carried out.	Three Projects with proof of completion-completion certificates, contact person at the company where the work was carried out.

2.	**Resources (25%)**			%	0	40	80	100
	2.1	**Engineer/Technician with a National or Technical Diploma or Degree in Electrical/Electronics/Control and Instrumentation Engineering** experience in design, installation and commissioning of PLC and SCADA systems.	Submit One CV with Proof of Qualification. The qualifications and certificates must be certified and must have a Control System design, installation, and commission experience. [1] Engineer/Technician with a National or Technical Diploma or Degree in Electrical/Electronic/Control and Instrumentation Engineering [2] Experience in design, installation and commissioning of PLC and SCADA systems.	50	Nonresponsive or No qualification or experience <2 years	CV detailing experience and qualification and meeting Criteria 1&2 plus 2 to 3 years' experience	CV detailing experience and qualification and meeting Criteria 1&2 plus 3 years' experience.	CV detailing experience and qualification and meeting Criteria 1&2 with ≥ 4 years' experience
	2.2	**Quality inspector/Engineer** (QC) - Must have QC Certification and experience.	Submit One CV and proof of qualifications. The qualifications and certificates must be certified and valid within 3 months.	25	Nonresponsive or No qualification or experience <2 years	CV detailing experience and qualification with 1 to 2 years' experience.	CV detailing experience and qualification with 2 to 3 years' experience.	CV detailing experience and qualification with ≥ 4 years' experience.
	2.3	**Site Manager** - To be in possession of Minimum National Diploma (Engineering) or Grade 12 with	Submit One CV and proof of qualifications. The qualifications and certificates must be certified.	25	No qualification and CV detailing experience provided	CV detailing experience and qualification with 1 to 2 years' experience	CV detailing experience and qualification with 2 to 3 years' experience.	CV detailing experience and qualification with ≥ 4 years' experience

		supervisory/project management certification (NQF level 6) AND experience.						
3.	**Methodologies (40%)**			%	0	40	80	100
	3.1	Submit a detailed method statement on how the tasks will be executed for the CONTROL SYSTEM (DCS/PLC plus HMI). Note: The list of topics is in chronological order because of the order of importance.	Submit method statement on how the works will be executed covering the below different topics: 1. Change-over methodology **Section 4 of the scope of work** **(50 points)** 2. Redundancy of the system **Section 7.3.22 & 6.4 of the scope of work** **(15 points)** 3. Plant information (Historian) **Section 7.3.7 of the scope of work** **(15 points)** 4. Plant information Storage **Section 7.3.8 of the scope of work** **(10 points)** 5. Interface to existing/ new systems **Section 7.3.6 of the scope of work** **(10 points)**	100	Nonresponsive or scored **less than 50 points**	Method Statement Scored between **50** to **60** points	Method Statement Scored between **70** to **80** points	Method Statement Scored between **90** to **100** points

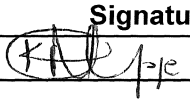
3.5 TET MEMBER RESPONSIBILITIES

Table 4: TET Member Responsibilities

Mandatory Criteria Number	**TET 1**	**TET 2**	**TET 3**
1	X	X	X
2	X	X	X
Qualitative Criteria Number	**TET 1**	**TET 2**	**TET 3**
1.Technical			
1.1	X	X	X
2. Resources			
2.1	X	X	X
2.2	X	X	X
2.3	X	X	X
3. Methodologies			
3.1	X	X	X

4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation	Signature
Katlego Mangope	C&I Engineering Manager	
Lindokuhle Ngobese	Engineering Manager	

5. REVISIONS

Date	Rev.	Compiler	Remarks
27 October 2025	1	K Skosana	Revised to address only C&I scope

6. DEVELOPMENT TEAM

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

- Khumo Skosana

7. ACKNOWLEDGEMENTS