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Technical Evaluation Strategy  
for PLC systems maintenance  
support and training.**

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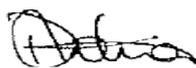
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## **1. INTRODUCTION**

The third-party process control systems at Kusile Power Station are implemented mainly by means of PLC Systems. Kusile Power Station has several third-party control system equipment situated at various plant areas. PLC control systems require stringent and regular maintenance to guarantee effective operation and optimum life cycle. There is currently no preventative maintenance carried out on third party PLC systems due to lack of training for Kusile Power Station Generation personnel. To ensure reliable performance of the third-party PLC systems, training and maintenance support is required.

## **2. SCOPE**

This document defines the technical tender evaluation strategy for the maintenance support and training for PLC systems at Kusile Power Station. The scope is as described in the Kusile Power Station PLC systems works information.

### **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 strategy document applies to Kusile 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] 240-168966153: Generation Tender Technical Evaluation Procedure.
- [3] 32-1034: Eskom Procurement Policy.
- [4] ISO 9001 Quality Management Systems.

### **2.2.2 Informative**

- [1] 240-55410927: Cyber security standard for Operational Technology.
- [2] 240-149173417: PLC Systems Works information
- [3] 204-53114002: Engineering Change Management Procedure

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## 2.3 DEFINITIONS

<b>Term</b>	<b>Definition</b>
<i>Contractor</i>	Service provider contracted for supplying specific service to Eskom, Kusile Power Station.
<i>Employer</i>	Any person appointed in writing by Eskom as the delegated <i>Employer</i> in terms of the provisions of the Act, (normally the Power Station Manager)
KKS	Is a code used to clearly identify systems and components in a power plant according to process functions, points of installations and structures. "Kraftwerk-Kennzeichen-System (KKS)"
Plant	Any structure, machinery, apparatus or equipment which does not fall within the scope of the operating regulations for high Voltage systems, and excludes, mobile, portable lifting equipment, domestic circuits, appliances and tools.
Controlled Disclosure	Controlled disclosure to external parties (either enforced by law, or discretionary).

## 2.4 ABBREVIATIONS

<b>Abbreviation</b>	<b>Explanation</b>
C&I	Control and Instrumentation
GUI	Graphical User Interface
Gx	Generation
HMI	Human Machine Interface
ISO	International Organisation for Standardisation
OEM	Original Equipment Manufacturer
OS	Operating System
OTS	Operating Technical Specification
PLC	Programmable Logic Controller
QMS	Quality Management System
VDSS	Vendor Documentation Submittal Schedule

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## **2.5 ROLES AND RESPONSIBILITIES**

### **2.5.1 System Engineers**

- a) Shall notify Operating Support of any changes to the Operating Technical Specifications.
- b) Shall be responsible for updating the OTS as per recommendations from the Operating Support.

### **2.5.2 Engineering Manager**

- a) Originator of the required capability

### **2.5.3 Shift Managers**

- a) Shall ensure that the plant is run or operated according to the Operating Technical Specifications.
- b) Shall ensure that any deviations from the specifications have been approved accordingly.

### **2.5.4 Operating Support**

- a) Shall be responsible for providing system engineers with information regarding required changes to OTS.
- b) Operating support shall conduct internal audits at planned intervals to determine whether the OTS system conforms to requirements and is effectively implemented and maintained.

### **2.5.5 Training manager**

- a) Shall be responsible for reviewing the content of the training proposed by the *Contractor*.
- b) Evaluate the training offered by the *Contractor*.

## **2.6 PROCESS FOR MONITORING**

The Monthly Plant Maintenance Performance report, compiled by the Contractor with assistance from the Employer, shall be used to track and assess the Contractor performance and effectiveness of their contract deliverables.

Furthermore, the effectiveness of the SD&L Implementation Progress and Skills Transfer to Eskom Employees (as well as others where applicable) shall also be monitored.

## **2.7 RELATED/SUPPORTING DOCUMENTS**

N/A

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### **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%.

The following factors will be considered when evaluating the tender submissions.

##### **3.1.1 TECHNICAL AREA (70%)**

- i. Understanding and Compliance with requirements (55%).

The submission should address for each PLC system mentioned in the works information:

- Does the submission demonstrate a firm understanding of the requirements and goals set forth in the scope of work?
- Does the submission address each requirement and goal set forth in this specification?
- Does the submission provide technical solutions to indicate requirements and goals will be met?

- ii. Soundness of approach (15%)

The submission must clearly indicate that the Service Provider has performed adequate planning to accomplish the tasks as defined in the specification.

- Does the proposal include a complete plan to accomplish each requirement?
- Does the Service Provider's plan demonstrate that appropriate skills and equipment will be available to carry out the requirements?
- Is the proper level of effort directed toward each requirement?

##### **a) MANAGEMENT AREA (30%)**

- i. Past Performance/Relevant Experience (20%)

Provide evidence that the Company has performed similar type of scope in the industry. This experience must be within the last 5 years to be considered. Maximum relevant company experience in the industry performing similar scope is 5 years.

- iii. References/Recommendations (10%)

Letters of recommendation are required, with 2 being the minimum number of letters from different sources that can be considered for eligibility. These letters must be from credible, verifiable sources.

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### **3.2 TET MEMBERS**

**Table 1: TET Members**

<b>TET number</b>	<b>TET Member Name</b>	<b>Designation</b>
<b>TET 1:</b> C&I Engineering	Thobile Nyathi	C&I Engineer
<b>TET 2:</b> C&I Engineering	Harold Marobane	C&I Engineer
<b>TET 3:</b> C&I Maintenance	Temosho Dibakoane	C&I Technician
<b>TET 4:</b> C&I Maintenance	Gugulethu Vilakazi	C&I Snr Supervisor
<b>TET 5:</b> Maintenance Tech support	Msizi Mhlongo	Senior Advisor

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**3.3 MANADATORY TECHNICAL EVALUATION CRITERIA**

**Table 2: Mandatory Technical Evaluation Criteria**

Item	Mandatory Technical Criteria Description	Source of Evidence	Motivation for use of Criteria
1.	<p><b>Work experience</b></p> <p>The contractor must demonstrate relevant past experiences by submitting signed reference letter(s) on the client’s official head or certificate of completion of works</p>	<p>Three relevant contract/project completion certificates signed by the client with traceable references.</p> <p>Notes: Reference letters and/or Completion certificates must be on the referee’s/client letterhead and signed by the referee.</p>	<p>Indication of competence in related service - Contractors with no relevant prior experience is an unacceptable risk.</p>

**3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA**

Notes to tenderer:

1. Where no information is offered by the Tenderer, no points shall be scored.
2. An undertaking is required that resources identified would not be changed on award of the Contract.
3. The CV’s of Key Personnel should have experience which is comparable in nature to the Works specified in this tender.
4. It is a requirement that the key personnel, in particular, have good communication skills in the English language.

**Table 3: Qualitative Technical Evaluation Criteria Scoring Table**

<b>Score</b>	<b>(%)</b>	<b>Definition</b>
<b>5</b>	<b>100</b>	<p><b>COMPLIANT</b></p> <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>
<b>4</b>	<b>80</b>	<p><b>COMPLIANT WITH ASSOCIATED QUALIFICATIONS</b></p> <p>Meet technical requirement(s) with;</p> <ul style="list-style-type: none"> <li>• Acceptable technical risk(s) AND/OR;</li> <li>• Acceptable exceptions AND/OR;</li> <li>• Acceptable conditions.</li> </ul>
<b>2</b>	<b>40</b>	<p><b>NON-COMPLIANT</b></p> <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>
<b>0</b>	<b>0</b>	<b>TOTALLY DEFICIENT OR NON-RESPONSIVE</b>

**Table 4: Qualitative Technical Evaluation Criteria**

	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
<b>1.</b>	<b>TECHNICAL ABILITY</b>			<b>70</b>	
	1.1	Comprehension of Scope	<ul style="list-style-type: none"> <li>Submitted a comprehensive method statement covering all areas of scope of works with no foreseeable technical risk, and the costing covers &gt; 100%.</li> <li>Submitted a comprehensive method statement covering all areas of scope of works with acceptable technical risk, and the costing covers 80 - 95%.</li> <li>Submitted a high-level method statement covering all areas of scope of works and the costing covers 60 - 79% of the list.</li> <li>No method statement Provided and not all costs are included (Quoted &lt;60% of the list).</li> </ul>	<p>5</p> <p>4</p> <p>2</p> <p>0</p>	<b>30</b>
	1.2	Preventative Maintenance Plan	<ul style="list-style-type: none"> <li>Submitted a comprehensive preventative maintenance plan with details covering how the maintenance is ultimately going to be carried out to prevent the various installed PLC systems from failing.</li> <li>Submitted a semi-detailed preventative maintenance plan covering how the maintenance is ultimately going to be carried out to prevent the various installed PLC systems from failing.</li> </ul>	<p>5</p> <p>2</p>	<b>40</b>

			<ul style="list-style-type: none"> <li>No maintenance plan provided.</li> </ul>	0	
<b>2.</b>	<b>TECHNICAL CAPACITY AND RESOURCES</b>			<b>30</b>	
	2.1	<p><b>Organogram &amp; Staffing</b></p> <p>The tenderer to submit the proposed organisational structure of all key personnel of the main Consultants and Subconsultants including consultant certified qualifications, certified ID copies, detailed CVs and valid OEM accredited training certificates for siemens PLCs.</p> <p><b>Note:</b> <b>In case of an association/joint venture/consortium, it should be indicated how the duties and responsibilities are to be shared. If the tenderer intends on making use of the services of the Subcontractor/s for sections of the scope, the delegation of duties and responsibilities should be clearly indicated it should be in line with SD &amp; L requirements.</b></p> <p>The minimum required key project resources to be listed in the organogram include the following:</p> <ul style="list-style-type: none"> <li>Control and Instrumentation Engineers/Technologists or</li> <li>System Integrators.</li> </ul>	<ul style="list-style-type: none"> <li>Submitted                             <ul style="list-style-type: none"> <li>Comprehensive project organogram.</li> <li>Certified resource qualifications (resource must be employee of the company) for each resource.</li> <li>Certified ID copies for each resource.</li> <li>Detailed CV's (Find way to detail the minimum experience of three years) for each resource.</li> <li>Certified Simatic S7 programming training certificate for each resource.</li> <li>Certified TIA PORTAL programming training certificate for each resource.</li> </ul> </li> <li>No submissions</li> </ul>	5	<b>30</b>
				<b>TOTAL:</b>	<b>100</b>

**TET MEMBER RESPONSIBILITIES**

**Table 5: TET Member Responsibilities**

Qualitative Criteria Number	TET 1	TET 2	TET 3	TET 4	TET 5
1.1	X	X	X	X	X
1.2	X	X	X	X	X
2.1	X	X	X	X	X

**3.5 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS**

**3.5.1 Risks**

**Table 6: Acceptable Technical Risks**

Risk	Description
1.	None

**Table 7: Unacceptable Technical Risks**

Risk	Description
1.	Deviations from the scope.
2.	Exclusion of related experience to perform specified works.
3.	Exclusion of proof/record of completed tasks of similar scope with traceable references.

**3.5.2 Exceptions / Conditions**

**Table 8: Acceptable Technical Exceptions / Conditions**

<b>Risk</b>	<b>Description</b>
1.	N/A

**Table 9: Unacceptable Technical Exceptions / Conditions**

<b>Risk</b>	<b>Description</b>
1.	N/A

#### **4. AUTHORISATION**

This document has been seen and accepted by:

<b>Name</b>	<b>Designation</b>
Fulufhelo Netshiongolwe	Engineering Manager (Acting)
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Zubair Moola	Chief Engineer

#### **5. REVISIONS**

<b>Date</b>	<b>Rev.</b>	<b>Compiler</b>	<b>Remarks</b>
November 2025	1	Thobile Nyathi	Initial Revision

#### **6. DEVELOPMENT TEAM**

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

- Thobile Nyathi
- Gugulethu Vilakazi
- Temosho Dibakoane
- Msizi Mhlongo

#### **7. ACKNOWLEDGEMENTS**

N/A

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