

	Strategy	Engineering
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Title: **Kriel Power Station Scope of Work for Coal Bunkers Unit 1 to 6 CO Gas Monitors Installation and Interface to WinCC and DCS SCADA Systems Tender Technical Evaluation Strategy**

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1. INTRODUCTION

This document describes the process to be followed in performing technical evaluations during the tender evaluation for Kriel Power Station Contract SOW for Coal Bunkers CO Gas Monitors Installation and Interface to WinCC and DCS SPPA T3000 SCADA Systems. The evaluation of tender is based on the tenderer's ability to meet both mandatory and qualitative requirements specified for this scope of work. A weighted score card approach will be used to evaluate the tenders against the Employer's requirements.

2. SUPPORTING CLAUSES

2.1 SCOPE

This document constitutes the Scope of Work for Coal Bunkers CO Gas Monitors Installation and Interface to WinCC and DCS SPPA T3000 SCADA Systems on all units at Kriel Power Station.

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 is applicable to Kriel 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] NEC Works Information
- [3] ISO 9001 Quality Management Systems

2.2.2 Informative

Not applicable

2.3 DEFINITIONS

2.3.1 Classification

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

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2.3.2 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.

2.3.3 Tender

A tender refers to an open or closed competitive request for quotations / prices against a clearly defined scope / specification.

2.4 ABBREVIATIONS

Abbreviation	Description
C&I	Control and Instrumentation
TET	Technical Evaluation Team
ISO	International Organization for Standardization
CIE	Control and Instrumentation Engineering
SANS	South African National Standards
C&I	Control & Instrumentation
OT	Operational Technology
OEM	Original Equipment Manufacturer
PTW	Permit To Work

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

- 240-53716746: Tender Technical Evaluation Report Template
- 240-53716712: Tender Technical Evaluation Results Form Template
- 240-53716726: Tender Technical Evaluation Scoring Form Template
- 240-53716769: Tender Technical Evaluation Strategy Template

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3. TENDER TECHNICAL EVALUATION STRATEGY

3.1 TECHNICAL EVALUATION THRESHOLD

Table 1 Qualitative evaluation criteria weight distribution

1. The criteria and weights:			
Technical	Functionality Criteria	Maximum number of points percentages	Tenderers will be expected to score at least the minimum threshold to proceed to the next level of evaluation.
	Technical Evaluation	100%	70%

3.2 TET MEMBERS

Table 2 TET Members

TET number	TET Member Name	Designation
TET [REDACTED]	[REDACTED]	[REDACTED]
TET [REDACTED]	[REDACTED]	[REDACTED]
TET [REDACTED]	[REDACTED]	[REDACTED]

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3.3 MANADATORY TECHNICAL EVALUATION CRITERIA

Table 2 defines all Mandatory Evaluation Criteria to be used as well as reference to specification and motivation for use of criteria. These criteria will not be scored. Each tender will be assessed on a YES/NO basis. If any answer below is NO the tenderer may be eliminated from the tendering process.

Table 3 Mandatory Technical Evaluation Criteria below

	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for use of Criteria	Weight	Score (Yes/No)
1.	Training Certificate on Operational Technology and Control Systems (Hardware & Software)	Contractor or Supplier to provide training certificates to meet only one option of criteria (a), (b), (c) and (d) stated in Table 3.1 (Certificates) below:	The scope involved integration of field devices to Siemens S7 and HMI and SPPA T3000 environment. It is important that contractor demonstrate exposure to relevant training.	Yes/No	
2.	Provide Installation Authorization Certificate/ Letter for CO Gas Monitors	The contractor MUST provide a CERTIFIED certificate/ letter of installation, commissioning, and testing authorization by/from the Endress+Hauser Company for CO Gas Monitors	This is to ensure that the Contractor is trained and certified by the OEM to do installation, commissioning of the CO Gas Monitors	Yes/No	
3.	Provide Master Installation Electrician (MIE) certificate along with either, proof that MIE is employed by the contractor, or a service level agreement (SLA) between MIE and the contractor for the complete execution of the scope of work.	The contractor must provide a valid MIE DoEL Registration Card/Letter and Certificate. The official legal proof issued by the Department of Employment and Labour (DoEL) designating the employee of the contractor as a registered person authorized to sign off on high-risk and standard Certificates of Compliance (CoCs).	CO Gas Monitors will be installed in a hazardous location including electrical equipment. It's statutory requirement that only the MIE is legally authorised to inspect, test, and certify all types of electrical installations in a hazardous location.	Yes/No	

Table 3.1 Certificates

	Certificate/s	Option 1	Option 2	Option 3	Option 4
a	Siemens STEP 7 Engineering/ Integration (Any one of the following course certificates or combination)	PCS7	TIA Portal	WinCC and S7 Programming	WinCC and S7 Service + Maintenance
b	Simatic Communication (Any one of the following course certificates)	Industrial Ethernet	Profinet	Profibus	RS422 and RS485
c	SPPA T3000 Engineering (Submit following course certificate)	SPPA T3000 T3SEAPS			
d	Cyber Security Certificate (Submit following course certificate)	T3000 Cyber Security			

3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Table 4 Qualitative Evaluation Criteria Scoring Table

Score	(%)	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
Note 1: The scoring table does not allow for scoring of 1 and 3.		

Table 5 Qualitative technical evaluation criteria

	Qualitative Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)										
1.	General requirements		100											
	(a) Company's Representative background experience Control & Instrumentation Works Experience on Eskom Projects/Purchase Orders executed on following systems - Installation of Control and Instrumentation Components - OR - CO Gas Monitors - OR - Simatic S7-400H PLCs - OR - WinCC SCADA - OR - DCS SPPA T3000	Provide a CV with references on the experience of more than 3 years working on Siemens Control systems on CO Gas Monitors, Simatic S7 PLC and WinCC and DCS SPPS T3000 SCADA Systems Provide work orders minimum at least 2 x PO order, or contract/project with contactable references within Eskom Power Stations <table><tr><th>Number of above categories provided (fully)</th><th>Multiple of Criteria Sub Weighting</th></tr><tr><td>1. No PO Order</td><td>0</td></tr><tr><td>2. 1 x PO Orders</td><td>2</td></tr><tr><td>3. 2 x PO Orders</td><td>4</td></tr><tr><td>4. 3 x PO Orders</td><td>5</td></tr></table>	Number of above categories provided (fully)	Multiple of Criteria Sub Weighting	1. No PO Order	0	2. 1 x PO Orders	2	3. 2 x PO Orders	4	4. 3 x PO Orders	5		30
Number of above categories provided (fully)	Multiple of Criteria Sub Weighting													
1. No PO Order	0													
2. 1 x PO Orders	2													
3. 2 x PO Orders	4													
4. 3 x PO Orders	5													

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2.	(b)	Relevant Qualifications	System Expert or Engineer (x1), BSC or BEng or B-Tech or National Diploma in Electrical/Electronics/ Computer Engineering <table><tr><th>Number of years' experience in Simatic S7</th><th>Multiple of Criteria Sub Weighting</th></tr><tr><td>0 = No Qualification</td><td>0</td></tr><tr><td>2= Matric Only</td><td>2</td></tr><tr><td>4= National Diploma in Electrical/Electronics/Computer System</td><td>4</td></tr><tr><td>5 = BSC/BEng or BTech in Electrical/Electronics/Computer Engineering</td><td>5</td></tr></table>	Number of years' experience in Simatic S7	Multiple of Criteria Sub Weighting	0 = No Qualification	0	2= Matric Only	2	4= National Diploma in Electrical/Electronics/Computer System	4	5 = BSC/BEng or BTech in Electrical/Electronics/Computer Engineering	5	20
Number of years' experience in Simatic S7	Multiple of Criteria Sub Weighting													
0 = No Qualification	0													
2= Matric Only	2													
4= National Diploma in Electrical/Electronics/Computer System	4													
5 = BSC/BEng or BTech in Electrical/Electronics/Computer Engineering	5													

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3.	(c)	Method of Statement on the installation, commissioning, maintaining and interface of the CO Gas Monitors, S7 PLC and WinCC SCADA and DCS SPPA T3000	Provide method of statement detailing the below on the Simatic S7 PLC, WinCC SCADA and CO Gas Monitors • How to install the CO Gas Monitors • How to do commissioning on the CO gas monitors • How to do maintenance on the CO gas monitors • How to interface the CO Gas Monitor to the DCS and WinCC SCADA system. • How to do fault finding on the field instrument, to S7 PLC, to WinCC SCADA and DCS T3000 • How to do loop checks from the field instrument, S7 PLC up to the WINCC SCADA & DCS T3000 <table><tr><th>Number of (informative)method statement provided for the above mentioned</th><th>Multiple of Criteria Sub Weighting</th></tr><tr><td>0</td><td>0</td></tr><tr><td>2</td><td>2</td></tr><tr><td>4</td><td>4</td></tr><tr><td>ALL</td><td>5</td></tr></table>	Number of (informative)method statement provided for the above mentioned	Multiple of Criteria Sub Weighting	0	0	2	2	4	4	ALL	5	30
Number of (informative)method statement provided for the above mentioned	Multiple of Criteria Sub Weighting													
0	0													
2	2													
4	4													
ALL	5													

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4.	(d)	Electrical Relevant Qualifications	Provide CV for the qualified Master Installation Electrician (x1) with relevant experience (electrical installation in hazardous locations) <table><tr><th>Number of years' experience</th><th>Multiple of Criteria Sub Weighting</th></tr><tr><td>No CV submitted</td><td>0</td></tr><tr><td>2 years' relevant experience</td><td>2</td></tr><tr><td>3 years' relevant experience</td><td>4</td></tr><tr><td>more than 4 years' experience</td><td>5</td></tr></table>	Number of years' experience	Multiple of Criteria Sub Weighting	No CV submitted	0	2 years' relevant experience	2	3 years' relevant experience	4	more than 4 years' experience	5		20
Number of years' experience	Multiple of Criteria Sub Weighting														
No CV submitted	0														
2 years' relevant experience	2														
3 years' relevant experience	4														
more than 4 years' experience	5														
Total (%)					100%										

3.5 TET MEMBER RESPONSIBILITIES

Table 6 TET Member Responsibilities

Mandatory Criteria Number	TET 1	TET 2	TET 3
1.	X	X	X
Qualitative Criteria Number	TET 1	TET 2	TET 3
1.a	X	X	X
2.b	X	X	X
3.c	X	X	X
4.d	X	X	X

3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.6.1 Risks

Table 7 Acceptable Technical Risks

Risk	Description
1.	None
2.	

Table 8 Unacceptable Technical Risks

Risk	Description
1.	Contractors with no experience and training in Simatic S7 PLC, WinCC and DCS Admin and CO Gas Monitors, Engineering, and commissioning
2.	

3.6.2 Exceptions / Conditions

Table 9 Acceptable Technical Exceptions / Conditions

Risk	Description
1.	None
2.	

Table 10 Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	None
2.	

4. ACCEPTANCE

This document has been seen and accepted by:

Name & Surname	Designation

5. REVISIONS

Date	Rev.	Compiler	Remarks
February 2026	01		First Issue
September 2026	02		Revised Qualitative Criteria

6. DEVELOPMENT TEAM

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

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-
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7. ACKNOWLEDGEMENTS

None

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