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Title: **Kriel PS Supply, Install, and Commission of 2 x Coriolis Flow meters Tender Technical Evaluation Strategy**

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CONTENTS

	Page
1. INTRODUCTION	3
2. SUPPORTING CLAUSES	3
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	3
2.3 DEFINITIONS	3
2.3.1 Classification	3
2.4 ABBREVIATIONS	4
2.5 ROLES AND RESPONSIBILITIES	4
2.6 PROCESS FOR MONITORING	4
2.7 RELATED/SUPPORTING DOCUMENTS	4
3. TENDER TECHNICAL EVALUATION STRATEGY	4
3.1 TECHNICAL EVALUATION THRESHOLD	4
3.2 TET MEMBERS	4
3.3 MANDATORY TECHNICAL EVALUATION CRITERIA	5
3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA	6
3.5 TET MEMBER RESPONSIBILITIES	8
3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS	9
3.6.1 Risks	9
3.6.2 Exceptions / Conditions	9
4. AUTHORISATION	10
5. REVISIONS	10
6. DEVELOPMENT TEAM	10
7. ACKNOWLEDGEMENTS	10

TABLES

Table 1: TET Members	4
Table 2: Mandatory Technical Evaluation Criteria	5
Table 3: Qualitative Technical Evaluation Criteria	6
Table 4: TET Member Responsibilities	8
Table 5: Acceptable Technical Risks	9
Table 6: Unacceptable Technical Risks	9
Table 7: Acceptable Technical Exceptions / Conditions	9
Table 8: Unacceptable Technical Exceptions / Conditions	9

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1. INTRODUCTION

This document describes the process to be followed in performing technical evaluations during the tender evaluation for the Scope of work of the Supply, Install, and Commission of 2 x Coriolis Flow meters.

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

The purpose of this document is to provide the technical evaluation strategy for the Scope of work of the Supply, Install, and Commission of 2 x Coriolis Flow meters

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] ISO 9001 Quality Management Systems

2.2.2 Informative

- [3] Common plant Fuel Oil system P&ID drawing

2.3 DEFINITIONS

2.3.1 Classification

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

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2.4 ABBREVIATIONS

Abbreviation	Description
TET	Technical Evaluation Team

2.5 ROLES AND RESPONSIBILITIES

N/A as per 240-48929482: Tender Technical Evaluation Procedure

2.6 PROCESS FOR MONITORING

N/A

2.7 RELATED/SUPPORTING DOCUMENTS

- 240-106871290 Technical Evaluation Team Member Appointment Letter Template.

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	Phiwayinkosi Ngema	C&I System Engineer
TET 2	Thulani Magagula	C&I System Engineer
TET 3	Samkelisiwe Khoza	C&I System Engineer

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3.3 MANDATORY TECHNICAL EVALUATION CRITERIA

Table 2: Mandatory Technical Evaluation Criteria

	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for use of Criteria
1.	Extensive knowledge on Installation, testing, calibrating, verifying and Commissioning of the Coriolis Flowmeter and Siemens T3000 DCS System	Contractor MUST have SANAS flow metrology Accreditation certificate or support letter from SANAS flow metrology accredited Company; and must be able to demonstrate through previous projects or work orders, and references of work performed of Installation, testing, calibrating, verifying and Commissioning of the Coriolis Flowmeter and Siemens T3000 DCS System	<p>Kriel Power Station currently requires an experienced skilled specialist on the installation, testing, calibrating, verifying and Commissioning of the Coriolis Flowmeter and Siemens T3000 DCS System.</p> <p>Contractor must be able to indicate and demonstrate their knowledge and experience in setting -up and configuration of Coriolis Flow meter, be supported by the skilled knowledgeable/experienced resources to execute the installation, set-up, and configuration of the instrument with an SANAS flow metrology Accreditation certificate or support letter from SANAS flow metrology accredited Company</p>

3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Table 3: Qualitative Technical Evaluation Criteria

	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
1.	Company's background and experience on Similar Scope.			40	
	1.1	Accreditation for SANAS flow metrology Accreditation certificate or Support letter from the SANAS accredited company			10
	1.2	Previous Experience in flow metering systems (Company profile)			15
	1.3	Engineer (BEng /BSC Degree in C&I related Field and T3000 Certification)			2.5
	1.4	Technician (Diploma in C&I related Field and T3000 Certification)			2.5
	1.5	Supervisor (B-Tech Degree in C&I Related Field and T3000 Certification)			2.5
	1.6	Artisan (Trade Test Certificate in C&I and T3000 Certification)			2.5
	1.7	Ability to calibrate Coriolis Flowmeter			2.5
	1.8	Previous projects(at least one job on flowmeter calibration)			2.5
2.	Installation, testing, calibrating, verifying and Commissioning Method Statement (This should be submitted in a written format report).			40	
	2.1	Method Statement For Installing and Commissioning a Coriolis Flowmeter			40

Kriel PS Supply, Install, and Commission of 2 x Coriolis Flow meters Tender Technical Evaluation Strategy

Unique Identifier: **N/A**
Revision: **1**
Page: **7 of 10**

3.	Installation & Wiring Technical Requirements (This should be submitted in a method statement Format)			10	
	3.1	Understand UVG colour coding (one page report on analogue loop powered signal)			5
	3.2	Understand basic C&I cabling requirements to be used for this installation			5
4.	Commissioning & Calibration Technical Requirements (This should be submitted in a method statement Format and CVs with referrals)			10	
	4.1	Experience in commissioning C&I loop from field to DCS (Provide generic loop diagram from field to DCS system)			5
	4.2	HMI DCS Schematic diagram showing all configuration of proxy blocks on the DCS logics			5
				TOTAL: 100	

3.5 TET MEMBER RESPONSIBILITIES

Table 4: 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	X	X	X
2	X	X	X
3	X	X	X
4	X	X	X

3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.6.1 Risks

Table 5: Acceptable Technical Risks

Risk	Description
1.	None
2.	

Table 6: Unacceptable Technical Risks

Risk	Description
1.	Inexperienced third party contractor on the Coriolis Flow meters.
2.	

3.6.2 Exceptions / Conditions

Table 7: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	None
2.	

Table 8: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	None
2.	

4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation	Signature
Rofhiwa Nelwamondo	Kriel PS Engineering Manager	
Nomatshawe Gantsho	Kriel PS C&I Engineering Manager	
Phiwayinkosi Ngema	Kriel PS C&I System Engineer	
Samkelisiwe Khoza	Kriel PS C&I System Engineer	
Thulani Magagula	Kriel PS C&I System Engineer	

5. REVISIONS

Date	Rev.	Compiler	Remarks
August 2022	0	P.V Ngema	

6. DEVELOPMENT TEAM

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

- Phiwayinkosi Ngema
- Samkelisiwe Khoza
- Thulani Magagula

7. ACKNOWLEDGEMENTS

None

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