Eskom	Strategy	Engineering

Title: **Tender Technical Evaluation Strategy for Kriel Power Station Thermo-sensors used on Control and Instrumentation systems**

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TABLES

1. INTRODUCTION

The Kriel Power Station C&I (Control and Instrumentation) field instrumentation/equipment are used for measurement and control of various systems across the power plant. These field instrumentation or equipment are connected to different supervisory control systems used at various control rooms for a safe and reliable monitoring and control of the plant.

The Control & Instrumentation field equipment are installed in the following areas at Kriel Power Station, namely:

- Boiler
- Turbine and
- Auxiliary Plant

The primary purpose of field instrumentation as installed in the different plant is to measure and monitor process conditions. Sensors are employed to detect process conditions, such as pressure, temperature, level, flow, humidity, strain, displacement and more. Measurements are further processed by card modules for the following purposes: process controlling, protection of plant and personnel.

Instrumentation components are prone to failure. Guaranteed timeous availability of Thermo-sensors replacements during failures is important to improve productivity and reliability of electricity supply.

This document defines the evaluation strategy which includes the mandatory and qualitative technical criteria that will be used to evaluate tenders received.

2. SUPPORTING CLAUSES

2.1 SCOPE

The document covers the Tender Technical Evaluation Strategy for the supply and delivery of control and instrumentation modules.

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 Control and Instrumentation Engineering, Control and Instrumentation Maintenance and the Material Management at 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] 240-168966153: Generation Tender Technical Evaluation Procedure

[2] 240-48929482: Tender Technical Evaluation Procedure

[3] 240-53716769: Tender Technical Evaluation Strategy

[4] 32-1034: Eskom Procurement Policy

2.2.2 Informative

[5] 559-948999829 The supply of Control and Instrumentation Thermo-sensors for a period of five years

2.3 DEFINITIONS

Definition	Description

2.3.1 Classification

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

2.4 ABBREVIATIONS

Abbreviation	Description
TET	Technical Evaluation Team
C&I	Control and Instrumentation

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

N/A

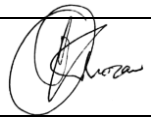
3. TENDER TECHNCIAL EVALAUTION STRATEGY

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	Signature
TET 1			
TET 2			
TET 3			

3.3 MANADATORY 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	OEM/Distributor support letter/s NB: Distributor means Official Agent	Letter for right to supply from OEMs/Distributors. Letter/s must be referenceable	Technical support beyond supplying

3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA SCORING MATRIX

The qualitative criteria will be scored according to the scoring matrix set out in the Tender Engineering Evaluation Procedure 240-48929482.

Table 3 shows the scoring matrix that will be used.

Table 3: Qualitative Technical Evaluation Criteria Scoring Matrix

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.		

3.5 QUALITATIVE TECHNICAL EVALUATION CRITERIA SCORING MATRIX

Table 4: Qualitative Technical Evaluation Criteria

	Qualitative Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)	Evaluation Scoring Breakdown			
					0	2	4	5
1.	The Contractor or sub-contractor must demonstrate previous experience in successfully supplying of Control and Instrumentation designs A list of at least 3 relevant verifiable references within the last 5 years must be provided.	Proof of experience must be confirmed by submission of the following information: • Client • Description of work performed • Project date Name, designation, and contact number of reference person	40		No information	>7yrs	>6yrs	<=5yrs
2.	On time delivery of Thermo-sensors	Letters from OEMs/Distributors confirming support to deliver within 8 weeks.	30		No information	Delivery <16weeks	Delivery <12weeks	Delivery <8weeks
3.	Production or storage capacity of Thermo-sensors	Letter/s from OEMs/Distributors confirming acceptance to allow client visits to their(OEM/Distributor) premises. Following should reflect. • OEM/Distributor name. • OEM/Distributor contact person	30		No information Or >12 weeks	Attached letters not meeting any 2 of the requirements	Attached letters meeting OEM/Distributor name and any 2 of the requirements	Attached letters meeting all requirements

		• OEM/Distributor contact details • Supplier name(if supplier is not OEM/Distributor) • Client name (Eskom Kriel)						
			TOTAL: 100					

3.6 TET MEMBER RESPONSIBILITIES

Table 5: 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**		
1.1	X	X	X		
1.2	X	X	X		
1.3	X	X	X		

3.7 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.7.1 Risks

Table 6: Acceptable Technical Risks

Risk	Description
1.	Submissions with minor deviations/omissions

Table 7: Unacceptable Technical Risks

Risk	Description
1.	No verifiable reference list of the minimum required references and documents
2.	

3.7.2 Exceptions / Conditions

Table 8: Acceptable Technical Exceptions / Conditions

Risk	Description
	N/A

Table 9: Unacceptable Technical Exceptions / Conditions

Risk	Description
	N/A

4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation

5. REVISIONS

Date	Rev.	Compiler	Remarks

6. DEVELOPMENT TEAM

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

7. ACKNOWLEDGEMENTS