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1. INTRODUCTION

This document outlines the technical evaluation strategy for Fire Detection System Replacement New Chemical Services Building, Battery Rooms and Cable Tunnels project. The strategy will be adhered to select a contractor to perform the works at Kendal Power Station.

2. SUPPORTING CLAUSES

2.1 SCOPE

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 applies to Kendal Power Station Fire Detection System Replacement New Chemical Services Building, Battery rooms and Cable Tunnels project.

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] 1036905: Scope of Work for Fire Detection System Installation Project
- [3] NEC Part 3: Scope of Work for Kendal Power Station Fire Detection System Replacement New Chemical Services Building, Battery rooms and Cable Tunnels Project.

2.2.2 Informative

N/A

2.3 DEFINITIONS

N/A

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
CIDB	Construction Industry Development Board
FMECA	Failure Mode, Effects and Critical Analysis
MS	Microsoft
N/A	Not Applicable
NEC	New Engineering Contract
OEM	Original Equipment Manufacture
PDF	Portable Document Format
SANS	South African National Standards
SAQCC	South African Qualification and Certification Committee
VDSS	Vendor Document Submission Schedule

2.5 ROLES AND RESPONSIBILITIES

Engineering Manager: All Engineering Managers throughout Eskom shall ensure that all staff, in their respective areas understand and adhere to Technical evaluation procedure.

Engineering Design Work Lead (EDWL): The EDWL is responsible to manage the execution and adherence to this procedure. Typically, on New Build projects the EDWL role is fulfilled by the Lead Discipline Engineer (LDE) and on existing asset projects the EDWL role is fulfilled by the relevant System Engineer / Plant Engineer.

Technical Evaluation Team (TET) member: The delegated engineers / technical specialists who are responsible to review and evaluate technical aspects of the tender documentation as per the Tender Technical Evaluation Strategy.

2.6 PROCESS FOR MONITORING

N/A

2.7 RELATED/SUPPORTING DOCUMENTS

N/A

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 80% as per 240-48929482 Tender Technical Evaluation Procedure.

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3.2 TET MEMBERS

Table 1: TET Members

TET number	TET Member Name	Designation
TET 1	TBC	Technical representative
TET 2	TBC	Technical representative
TET 3	TBC	Project Management representative

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3.3 MANADATORY TECHNICAL EVALUATION CRITERIA (GATEKEEPERS)

Table 2: Mandatory Technical Evaluation Criteria (Gatekeeper)

	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for use of Criteria
1.	<p>The tenderer to submit the following certifications which will be verified with accreditation bodies:</p> <ul style="list-style-type: none">SAQCC accreditation of key persons on the project team for Designer Installer, Commissioner.	<p>Section: 1.1.1.16 of NEC Part 3: Scope of Work for Kendal Power Station Fire Detection System Replacement New Chemical Services Building, Battery rooms and Cable Tunnels Project.</p>	<p>Accreditation requirement of persons designing, installing and commissioning Fire detection systems as per Department of Labour and 240-56737448 Life Standard Fire Detection and Life Safety Design Standard.</p>

3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Table 3: Qualitative Technical Evaluation Criteria

Qualitative Technical Criteria Description Scoring : 0,2,4,5 points		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
1	Compliance to SANS 10139 and Works Experience			25%
	<p>The Tenderer to submit proof of previous work completed in the last 3 to 5 years by tenderer in the design, installation and/or commissioning of the following systems in a similar environment. Proof must be in a form of an official order or contract.</p> <ul style="list-style-type: none"> a. Linear heat detection system b. Combined Aspirating detection and Hydrogen detection system c. Fire detection system in office area <p>Scoring :</p> <ul style="list-style-type: none"> • Proof submitted for design, installation and commissioning for a, b and c listed above – 5 Points • Proof submitted for design, installation and commissioning 	<p>Section 11.3 of SANS 10139: Fire detection and alarm systems for buildings - System design, installation and servicing</p> <p>Section 1.1.1 and 1.1.2 of NEC Part 3: Scope of Work for Kendal Power Station Fire Detection System Replacement New Chemical Services Building, Battery rooms and Cable Tunnels Project</p>	25%	

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Qualitative Technical Criteria Description Scoring : 0,2,4,5 points		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
	<p>for any 2 of the systems (a, b and c) listed above – 2 Points</p> <ul style="list-style-type: none"> No proof submitted for design, installation and commissioning for a, b and c listed above – 0 Point 			
2	Technical Understanding of the Scope of Work			45%
2.1	<p>In reference to section 3.2.1.1 up to 3.2.1.9 of the Works Information, the tenderer to show how both design review (correct and check) and design methodology used together with compliance to SANS standards and Eskom standards will address the requirements outlined in these sections as a minimum.</p> <p>Scoring:</p> <ul style="list-style-type: none"> Methodology fully address the scope of work requirements and standards –5 points Methodology satisfactorily address the scope of works requirements and standards -4 points Methodology poorly addresses the Works Information requirements and standards- 2 points 	<p>Section 3.2.1.1 to Section 3.2.1.9 of NEC Part 3: Scope of Work for Kendal Power Station Fire Detection System Replacement New Chemical Services Building, Battery rooms and Cable Tunnels Project.</p>	15%	

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Qualitative Technical Criteria Description Scoring : 0,2,4,5 points		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
	<ul style="list-style-type: none"> No response or methodology failed to address the Works Information requirements and standards- 0 points 			
2.2	<p>In reference to section 3.2.2.1 up to 3.2.2.12 of the Works Information, the tenderer to show how both design review (correct and check) and design methodology used together with compliance to SANS standards and Eskom standards will address the requirements outlined in these sections as a minimum.</p> <ul style="list-style-type: none"> Methodology fully address the scope of work requirements and standards –5 points Methodology satisfactorily address the scope of works requirements and standards -4 points Methodology poorly addresses the Works Information requirements and standards- 2 points No response or methodology failed to address the Works Information requirements and standards- 0 points 	Section 3.2.2.1 to Section 3.2.2.12 of NEC Part 3: Scope of Work for Kendal Power Station Fire Detection System Replacement New Chemical Services Building, Battery rooms and Cable Tunnels Project.	15%	
2.3	<p>Tenderer must submit an implementation and commissioning strategy for the proposed linear detection system in the cable tunnels. The strategy should indicate how the tenderer plans to implement and prove functionality of the proposed system with the current installed system still in-service before decommissioning it.</p>	Section 1.1.1.6 of NEC Part 3: Scope of Work for Kendal Power Station Fire Detection System Replacement New Chemical Services Building, Battery rooms and Cable Tunnels Project.	15%	

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Qualitative Technical Criteria Description Scoring : 0,2,4,5 points		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
	<ul style="list-style-type: none"> • Strategy fully address the requirements stated above–5 points • Strategy satisfactorily address the requirements stated above -4 points • Strategy poorly addresses the requirements stated above - 2 points • No response or Strategy failed to address requirements stated above - 0 points 			15%
3	Proposed Execution methodology			
3.1	<p>Tenderer to submit Proposed Execution Methodology based on section 3.3 (3.3.1 to 3.3.10) of the Works Information. The methodology should indicate how the tenderer would comply with all requirements in this section.</p> <p>Scoring:</p> <ul style="list-style-type: none"> • Methodology fully address the scope of work requirements in this section – 5 points • Methodology satisfactorily address the scope of requirements in this section - 4 points • Methodology poorly addresses the Works Information requirements in this section - 2 points • No response or methodology failed to address the Works Information requirements in this section - 0 points 	Section 3.3 of NEC Part 3: Scope of Work for Kendal Power Station Fire Detection System Replacement New Chemical Services Building, Battery rooms and Cable Tunnels Project.	15%	

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Qualitative Technical Criteria Description Scoring : 0,2,4,5 points		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
4	Scope of work Management			5%
4.1	<p>Tenderer to submit MS project plan with activity breakdown relevant to the proposed solution. Submit strategies in the form of a proposal to manage activities that are needed to accomplish project objectives.</p> <ul style="list-style-type: none"> Submitted MS project plan and strategies relevant to proposed solution – 5 points Submitted MS project plan and strategies not relevant to proposed solution – 0 points 	Section 2.6 of NEC Part 3: Scope of Work for Kendal Power Station Fire Detection System Replacement New Chemical Services Building, Battery rooms and Cable Tunnels Project	5%	
5	Resource allocation			10%
5.1	<p>Tenderer to submit an organogram indicating all key persons (Designer, Installer, Commissioner, and Project Manager) allocated to this project. The following documents must be submitted for each key person indicated on the above organogram:</p> <ol style="list-style-type: none"> Curriculum Vitae, which must indicate relevant experience, qualifications and accreditations, projects done, and responsibilities. OEM training certificates (except for the Project Manager) as outlined in section 	Section 2.7 of NEC Part 3: Scope of Work for Kendal Power Station Fire Detection System Replacement New Chemical Services Building, Battery rooms and Cable Tunnels Project	10%	

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Qualitative Technical Criteria Description Scoring : 0,2,4,5 points		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
	<p>1.1.1.16 of Works Information to be included.</p> <p>Scoring per key person; Relevant experience:</p> <ul style="list-style-type: none"> • 5 years or higher – 5 points • Greater than 3 years but less than 5 years – 4 points • Less than 3 years - 0 <p>OEM Training Certificates:</p> <ul style="list-style-type: none"> • All four (4) certificates as per section 1.1.1.16 – 5 points • Less than four (4) certificates as per section 1.1.1.16 – 0 points 			

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
1.1	X	X	
2.1	X	X	
2.2	X	X	
2.3	X	X	
3.1	X	X	
4.1	X	X	X
5.1	X	X	X

3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.6.1 Risks

Table 5: Acceptable Technical Risks

Risk	Description
1.	List of SAQCC accreditations in a form of SAQCC cards or SAQCC website print out.
2.	Principal contractor subcontracting of design, implementation and commissioning of systems that tenders does not have proven experience or specialisation in. This should also be indicated in project team organogram and CVs submitted.
3.	
4.	

Table 6: Unacceptable Technical Risks

Risk	Description
1.	Tenderer's project team key persons (Designer, installer and commissioner) not SAQCC accredited.
2.	Tenderer's deviation from or not adhering to SANS and safety Standards in the Tender's methodology or proposed solution.
3.	
4.	

3.6.2 Exceptions / Conditions

Table 7: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	

1.	
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Table 8: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	
2.	
3.	
4.	
5.	
6.	

4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation
Mapule Madingoane	C&I maintenance Manager
Mbali Molefe	C&I Engineering Manager
Thabile Ngcaku	Project Manager

5. REVISIONS

Date	Rev.	Compiler	Remarks
July 2020	1.0	B.A Sikhosana	Final Document
December 2022	2.0	M. Molefe	Revision of the Technical Evaluation Strategy

6. DEVELOPMENT TEAM

Mbali Molefe

7. ACKNOWLEDGEMENTS

N/A

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