

Title: **Tender Technical Evaluation
Strategy – Siemens Fire Detection
System Spares Supply Contract at
Tutuka Power Station**

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1. INTRODUCTION

Tutuka Power Station has six units with the capability to generate 3654MW when all units are on full load. In addition to the main generating plant, the station consists of; a five storey administration building, two single storey Engineering buildings, a water treatment plant with auxiliary plants, a coal and fuel oil handling plant and the procurement building which is a two storey building adjacent to the mechanical workshop. The station is currently fitted with the Siemens Sinteso Fire Detection and building management system. In order to do proper maintenance of the system, the correct spares are required.

This document provides the technical mandatory and qualitative criteria on which to evaluate potential contractors for the supply of the Fire Detection System spares.

2. SUPPORTING CLAUSES

2.1 SCOPE

The scope includes the supply of spares for the Siemens Fire Detection System spares at Tutuka PS. The service provider is to ensure that spares are delivered to site within twenty four hours after placing an order.

2.1.1 Purpose

The purpose of this tender technical evaluation strategy is to define the Mandatory Evaluation Criteria, Qualitative Evaluation Criteria and TET members' responsibilities for tender technical evaluation. The technical evaluation strategy serves as the basis for the tender technical evaluation process.

2.1.2 Applicability

This document shall apply to Tutuka Power Station only.

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] 240-53716726: Tender Technical Evaluation Scoring Form

2.2.2 Informative

N/A

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
FDS	Fire Detection System
QCP	Quality Control Plan
TET	Technical Evaluation Team

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

- [1] 240-53716746: Tender Technical Evaluation Report Template
- [2] 240-53716712: Tender Technical Evaluation Results Form Template
- [3] 240-53716726: Tender Technical Evaluation Scoring Form Template

3. TENDER TECHNICAL EVALUATION STRATEGY

3.1 TECHNICAL EVALUATION THRESHOLD

The evaluation method will be based on similar projects done by the tenderers in the past. The tenderers will need to provide the necessary documentation as proof of being able to perform the maintenance that is required on the FDS. A weighted score-card approach is used to evaluate the technical compliance of the tenders against the specifications. Tenderers need to have a weighted score of 70% overall or more to technically qualify for further evaluation.

The technical criteria and weighting is broken down as follows:

- a) Maintenance: 100%

The evaluation of the tender submission will be based on the tenderer's ability to meet the Engineering requirements. A weighted score card approach will be used to evaluate the tender submission against the specifications and Employer's requirements.

The scoring method will be as follows:

Score	Points awarded
5	100
4	80
2	40
0	0

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3.2 TET MEMBERS

Technical evaluation will be done by the member listed on table below:

Table 1: TET Members

TET number	TET Member Name	Designation
TET 1	Geoff Ledwaba	C&I Engineering Manager
TET 2	Nomkhosi Ramonotsi	C&I Maintenance Manager
TET 3	Martin Coetzee	C&I Maintenance Senior Tech
TET 4	Mboneni Ngwenyama	C&I Senior Engineer
TET 5	Petru Bosman	C&I Senior Technologist

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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.	Siemens Sinteso Fire Detection System approved reseller	Siemens accreditation certification or reseller confirmation letter	Risk mitigation. Will ensure that all spares received are from the FDS OEM. This will ensure all spares warranties and guarantees on the entire FDS and the spares themselves are valid and if any faults occur they can be sent back to the OEM without additional cost to the company.

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.	Spares	Returnable	65		
	1.1 Supply SMOKE DETECTOR spares, technical wiring and hook-up drawings and Warrantee certificate. Part number: A5Q00004811 Type: FDO241	Component data sheet and OEM certificate. OEM certificate ensures warrantee will be valid for OEM stipulated time period once delivered on site.	Data sheet with OEM supply certification supplied	5	5
			No Data sheet and OEM supply certification supplied	0	

1.2	Supply FIRE CONTROL PANEL POWER SUPPLY spares, technical wiring and hook-up drawings and Warrantee certificate. Part number: A5Q00020825 Type: FP2004-A1	Component data sheet and OEM certificate. OEM certificate ensures warrantee will be valid for OEM stipulated time period once delivered on site.	Data sheet with OEM supply certification supplied	5	3
			No Data sheet and OEM supply certification supplied	0	
1.3	Supply SINGLE INPUT/OUTPUT MODULE (FDCI 0221) spares, technical wiring and hook-up drawings and Warrantee certificate. Part number: S54312-F2-A1 Type: FDCIO221	Component data sheet and OEM certificate. OEM certificate ensures warrantee will be valid for OEM stipulated time period once delivered on site.	Data sheet with OEM supply certification supplied	5	3
			No Data sheet and OEM supply certification supplied	0	
1.4	Supply MULTI INPUT/OUTPUT MODULE (4-In/out) spares, technical wiring and hook-up drawings and Warrantee certificate. Part number: A5Q00002369 Type: FDCIO222	Component data sheet and OEM certificate. OEM certificate ensures warrantee will be valid for OEM stipulated time period once delivered on site.	Data sheet with OEM supply certification supplied	5	3
			No Data sheet and OEM supply certification supplied	0	
1.5	Supply NETWORK MODULE spares, technical wiring and hook-up drawings and Warrantee certificate. Part number: A5Q00012851 Type: FN2001-A1	Component data sheet and OEM certificate. OEM certificate ensures warrantee will be valid for OEM stipulated time period once delivered on site.	Data sheet with OEM supply certification supplied	5	3
			No Data sheet and OEM supply certification supplied	0	
1.6	Supply HEAT DETECTOR (FDT 241) spares, technical wiring and hook-up drawings and Warrantee certificate. Part number: A5Q00004812 Type: FDT241	Component data sheet and OEM certificate. OEM certificate ensures warrantee will be valid for OEM stipulated time period once delivered on site.	Data sheet with OEM supply certification supplied	5	3
			No Data sheet and OEM supply certification supplied	0	

1.7	Supply MANUAL CALL POINT MODULE spares, technical wiring and hook-up drawings and Warrantee certificate. Part number: A5Q00009392 Type: FDME224	Component data sheet and OEM certificate. OEM certificate ensures warrantee will be valid for OEM stipulated time period once delivered on site.	Data sheet with OEM supply certification supplied	5	5
			No Data sheet and OEM supply certification supplied	0	
1.8	Supply ADDRESSABLE SMOKE DETECTOR BASE spares, technical and hook-up drawings and Warrantee certificate. Part number: A5Q00001664 Type: FDB221	Component data sheet and OEM certificate. OEM certificate ensures warrantee will be valid for OEM stipulated time period once delivered on site.	Data sheet with OEM supply certification supplied	5	5
			No Data sheet and OEM supply certification supplied	0	
1.9	Supply MANUAL CALL POINT HOUSING spares, technical and hook-up drawings and Warrantee certificate. Part number: A5Q00004023 Type: FDMH293-R	Component data sheet and OEM certificate. OEM certificate ensures warrantee will be valid for OEM stipulated time period once delivered on site.	Data sheet with OEM supply certification supplied	5	3
			No Data sheet and OEM supply certification supplied	0	
1.10	Supply MANUAL CALL POINT GLASS spares, technical and hook-up drawings and Warrantee certificate. Part number: A5Q00002122 Type: FDMG291	Component data sheet and OEM certificate. OEM certificate ensures warrantee will be valid for OEM stipulated time period once delivered on site.	Data sheet with OEM supply certification supplied	5	5
			No Data sheet and OEM supply certification supplied	0	
1.11	Supply SOUNDER/BEACON RED spares, technical wiring and hook-up drawings and Warrantee certificate. Part number: A5Q00023093 Type: FDS229-R	Component data sheet and OEM certificate. OEM certificate ensures warrantee will be valid for OEM stipulated time period once delivered on site.	Data sheet with OEM supply certification supplied	5	3
			No Data sheet and OEM supply certification supplied	0	
1.12		Component data sheet and OEM certificate.	Data sheet with OEM supply certification supplied	5	3

		Supply INFRARED FLAME DETECTOR ASA (3 SENSOR) spares, technical wiring and hook-up drawings and Warrantee certificate. Part number: A5Q00003006 Type: FDF241-9	OEM certificate ensures warrantee will be valid for OEM stipulated time period once delivered on site.	No Data sheet and OEM supply certification supplied	0	
	1.13	Supply FLAME DETECTOR BASE spares, technical and hook-up drawings and Warrantee certificate. Part number: A5Q00003310 Type: FDFB291	Component data sheet and OEM certificate. OEM certificate ensures warrantee will be valid for OEM stipulated time period once delivered on site.	Data sheet with OEM supply certification supplied	5	3
				No Data sheet and OEM supply certification supplied	0	
	1.14	Supply NEURAL FIRE DETECTOR (ASA) (SMOKE + HEAT) spares, technical wiring and hook-up drawings and Warrantee certificate. Part number: S54310-F13-A1 Type: FDOOT241-A	Component data sheet and OEM certificate. OEM certificate ensures warrantee will be valid for OEM stipulated time period once delivered on site.	Data sheet with OEM supply certification supplied	5	3
				No Data sheet and OEM supply certification supplied	0	
	1.15	Supply FDNET TRANSPONDER spares, technical wiring and hook-up drawings and Warrantee certificate. Part number: S24218-B102-A1 Type: FDCIO223	Component data sheet and OEM certificate. OEM certificate ensures warrantee will be valid for OEM stipulated time period once delivered on site.	Data sheet with OEM supply certification supplied	5	3
				No Data sheet and OEM supply certification supplied	0	
	1.16	Supply INPUT/OUTPUT HOUSING spares, technical and hook-up drawings and Warrantee certificate. Part number: S54312-F3-A1 Type: FDCH221	Component data sheet and OEM certificate. OEM certificate ensures warrantee will be valid for OEM stipulated time period once delivered on site.	Data sheet with OEM supply certification supplied	5	3
				No Data sheet and OEM supply certification supplied	0	
	1.17	Supply OPERATING UNIT spares, technical wiring and hook-up drawings and Warrantee certificate.	Component data sheet and OEM certificate.	Data sheet with OEM supply certification supplied	5	5

		Part number: S54400-F85-A1 Type: FCM7204-Z3	OEM certificate ensures warrantee will be valid for OEM stipulated time period once delivered on site.	No Data sheet and OEM supply certification supplied	0	
	1.18	Supply MANUAL CALL POINT PROTECTION SEAL spares, technical and hook-up drawings and Warrantee certificate. Part number: 5470680001 Type: DMZ1197-AD	Component data sheet and OEM certificate. OEM certificate ensures warrantee will be valid for OEM stipulated time period once delivered on site.	Data sheet with OEM supply certification supplied	5	4
				No Data sheet and OEM supply certification supplied	0	
2.	Company Information			35		
	2.1	Company history and profile including storage facility physical address indicating storage space size (floor plan).	Company profile with storage facility address and storage capacity	Company profile with physical address and storage capacity provided	5	10
				Company profile with physical address and/or storage capacity not provided	2	
				No information provided	0	
	2.2	Company plan on spares management to reduce risk on long lead items that may affect integrity of the Tutuka FDS availability	Plan detailing execution strategy on spares management at supplier premises as well as storage plan for mitigating self-life deterioration of stored components.	Plan submitted with risk mitigation on all long lead items	5	25
				Partial plan submitted with short comings on execution plan	2	
				No plan submitted	0	
				TOTAL: 100		

3.5 TET MEMBER RESPONSIBILITIES

Table 4: TET Member Responsibilities

Mandatory Criteria Number	TET 1	TET 2	TET 3	TET 4	TET 5
1	X	X	X	X	X
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
1.3	X	X	X	X	X
1.4	X	X	X	X	X
1.5	X	X	X	X	X
1.6	X	X	X	X	X
1.7	X	X	X	X	X
1.8	X	X	X	X	X
1.9	X	X	X	X	X
1.10	X	X	X	X	X
2.1	X	X	X	X	X
2.2	X	X	X	X	X

3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.6.1 Risks

Table 5: Acceptable Technical Risks

Risk	Description
1.	

N/A: risks will be addressed as they arise.

Table 6: Unacceptable Technical Risks

Risk	Description
1.	Supplier not able to meet warrantee target for supplied components.

3.6.2 Exceptions / Conditions

Table 7: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	

N/A: exceptions will be addressed as they arise.

Table 8: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	

N/A: exceptions will be addressed as they arise.

4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation
Corrie Visagie	Chief Technologist C&I Asset Management
Nomkhosi Ramonotsi	C&I Maintenance Manager
Martin Coetzee	C&I Maintenance Senior Tech
Mboneni Ngwenyama	C&I Senior Engineer
Petru Bosman	C&I Senior Technologist

5. REVISIONS

Date	Rev.	Compiler	Remarks
July 2022	2	Geoff Ledwaba	Update Qualitative Criteria 2.1
September 2020	1	Geoff Ledwaba	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

6. DEVELOPMENT TEAM

N/A

7. ACKNOWLEDGEMENTS

N/A

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