

Title: **Tender Technical Evaluation
Strategy for expansion of the
Fire Detection System as
installed at Kriel Power Station**

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Date: 13/10/2021

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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
2.3.2 Enquiry	4
2.3.3 Tender	4
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	5
3.1 TECHNICAL EVALUATION THRESHOLD	5
3.2 TET MEMBERS	5
3.3 MANDATORY TECHNICAL EVALUATION CRITERIA	6
3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA	9
3.5 TET MEMBER RESPONSIBILITIES	16
3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS	17
3.6.1 Risks	17
3.6.2 Exceptions / Conditions	17
4. AUTHORISATION	18
5. REVISIONS	18
6. DEVELOPMENT TEAM	18
7. ACKNOWLEDGEMENTS	18
APPENDIX A APPENDIX A: CONTRACTOR'S TENDER TECHNICAL RETURNABLES	19

TABLES

Table 1 Qualitative evaluation criteria weight distribution	5
Table 2 TET Members	5
Table 3 Mandatory Technical Evaluation Criteria below	6
Table 4 Qualitative Evaluation Criteria Scoring Table	10
Table 5 Qualitative technical evaluation criteria	10
Table 6 TET Member Responsibilities	16
Table 7 Acceptable Technical Risks	17
Table 8 Unacceptable Technical Risks	17
Table 9 Acceptable Technical Exceptions / Conditions	17
Table 10 Unacceptable Technical Exceptions / Conditions	17

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1. INTRODUCTION

This document describes the process to be followed in performing technical evaluations during the tender evaluation for the expansion of the Fire Detection System as installed at Kriel Power Station. The evaluation of tenders will be based on the tenderer's ability to meet both mandatory and qualitative requirements specified for this project. A weighted score card approach will be used to evaluate the tenders against the *Employer's* requirements.

2. SUPPORTING CLAUSES

2.1 SCOPE

The enquiry will be addressed through this document for all Kriel Power Station Fire Detection system.

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] C3 1 ECC3 Employers Works Information_rev1_2
- [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
FDS	Fire Detection System
TET	Technical Evaluation Team
ISO	International Organization for Standardization
CIE	Control and Instrumentation Engineering
SAQCC	South African Qualification & Certification Committee
FDIA	Fire Detection Industry Association
SANS	South African National Standards
NFPA	National Fire Prevention Association

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 percentage	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 1	Nelson Debeila	System Engineer (CIE)
TET 2	Danie Janse Van Rensburg	Senior Engineering Assistant
TET 3	Renisha Chetty	System Engineer (CIE)

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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	Tender Returnable	Reference to Employer's Works Information	Score Criteria
1.	Registered with the SAQCC fire as a Designer.	<p>The <i>Contractor</i> or the nominated <i>sub-contractor</i> provides proof of valid registration with the SAQCC. All information is in English and clearly legible. The proof is submitted as the following documents:</p> <p>(1) ID Card showing the registration details (not older than 12 months);</p> <p>(2) Signed commitment of undertaking between the <i>Contractor</i> and the nominated <i>sub-contractor</i>; and</p> <p>(3) C.V(s) of the registered person</p> <p>The ID Card(s) is required to include the following information:</p> <p>(1) Name of the registered company (i.e. contain the name of the <i>Contractor</i> tendering for the Kriel FDS project) or name of the registered person(s);</p> <p>(2) SAQCC registration category as Designer;</p> <p>(3) SAQCC registration number assigned to the</p>	3.1(2).	<p>YES – All of the required documents and information is provided and valid.</p> <p>NO – Any of the required documents or information is not provided or valid.</p>

Tender Technical Evaluation Strategy for expansion of the Fire Detection System as installed at Kriel Power Station

Unique Identifier:

Revision: **1**

Page: **7 of 22**

		<p>registered company or company representative and date of registration.</p> <p><i>*Where the Contractor provides certificate(s) of the registered person(s), it is accompanied by the person(s) C.V.</i></p>		
2.	Registered with the SAQCC fire as an Installer.	<p>The <i>Contractor</i> or the nominated <i>sub-contractor</i> provides proof of valid registration with the SAQCC. All information is in English and clearly legible. The proof is submitted as the following documents:</p> <p>(1) ID Card showing the registration details (not older than 12 months);</p> <p>(2) Signed commitment of undertaking between the <i>Contractor</i> and the nominated <i>sub-contractor</i>; and</p> <p>(3) C.V(s) of the registered person</p> <p>The ID Card(s) is required to include the following information:</p> <p>(1) Name of the registered company (i.e. contain the name of the <i>Contractor</i> tendering for the Kriel FDS project) or name of the registered person(s);</p> <p>(2) SAQCC registration category as Installer;</p> <p>(3) SAQCC registration number assigned to the registered company or</p>	3.1(2).	<p>YES – All of the required documents and information is provided and valid.</p> <p>NO – Any of the required documents or information is not provided or valid.</p>

Tender Technical Evaluation Strategy for expansion of the Fire Detection System as installed at Kriel Power Station

Unique Identifier:

Revision: **1**

Page: **8 of 22**

		<p>company representative and date of registration.</p> <p>*Where the <i>Contractor</i> provides certificate(s) of the registered person(s), it is accompanied by the person(s) C.V.</p>		
3.	Registered with the SAQCC fire as a Commissioner.	<p>The <i>Contractor</i> or the nominated <i>sub-contractor</i> provides proof of valid registration with the SAQCC. All information is in English and clearly legible. The proof is submitted as the following documents:</p> <p>(1) ID Card showing the registration details (not older than 12 months);</p> <p>(2) Signed commitment of undertaking between the <i>Contractor</i> and the nominated <i>sub-contractor</i>; and</p> <p>(3) C.V(s) of the registered person</p> <p>The ID Card(s) is required to include the following information:</p> <p>(1) Name of the registered company (i.e. contain the name of the <i>Contractor</i> tendering for the Kriel FDS project) or name of the registered person(s);</p> <p>(2) SAQCC registration category as Commissioner;</p> <p>(3) SAQCC registration number assigned to the</p>	3.1(2).	

Tender Technical Evaluation Strategy for expansion of the Fire Detection System as installed at Kriel Power Station

Unique Identifier:

Revision: **1**

Page: **9 of 22**

		registered company or company representative and date of registration. *Where the <i>Contractor</i> provides certificate(s) of the registered person(s), it is accompanied by the person(s) C.V.		
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3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Compliant tenders will be evaluated against a set of weighted qualitative evaluation criteria. The evaluation criteria have been broken down into sections and a percentage weighting for each section is allocated. The Tenderer must ensure that his submission/proposal contains all relevant data/proof to substantiate the *Employer's* weighted criteria's as populated in Table 3: Qualitative Technical Evaluation Criteria. If no information from the submission file is available per criteria to be evaluated, the weighted score for those particular criteria will result in a zero without further clarification. Only information which is presented, but ambiguous to the evaluators, will be allowed for further clarification. The scoring will be done individually by the TET members as per

2, for each technical qualitative criterion.

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

1. Technical Requirements:					
ITEM	TECHNICAL EVALUATION CRITERIA	Tender Returnable	Minimum Threshold = 70%		
			Weights (W)		Actual (A)
1	QUALIFICATIONS AND WORK EXPERIENCE				
1.1	Previous projects	The <i>Contractor</i> provides a list of 3 projects which they have completed with the similar scope as the Kriel project. All references include verifiable contact details. Only projects completed in the last	5 = If the project list contains all the required information AND if any two projects are category P1 &/or L1 AND all projects have an accumulative number of field devices in excess of 3000 AND all projects are not older than 10 years.	25%	
			4 = If the project list contains all the required information AND if any one project are category P1 &/or L1 AND all projects have an accumulative number of field devices in excess of 1500 AND all		

Tender Technical Evaluation Strategy for expansion of the Fire Detection System as installed at Kriel Power Station

Unique Identifier:

Revision: **1**

Page: **12 of 22**

		<p>10 years will be considered. As a minimum the list includes the following information for each project:</p> <p>(1) Project title; (2) <i>Contractor's</i> company name (i.e. contain the name of the <i>Contractor</i> tendering for the Kriel project); (3) Project description and scope of work; (4) Valid Client's contact details as a reference for verification purposes (Client's name, e-mail address, physical address, telephone number); (5) Category of the fire detection system (e.g. P1 and/or L1); (6) Rand value of the project; (7) Total number of installed field devices.</p>	<p>projects are not older than 10 years.</p> <p>2 = If the project list is provided AND any of the required information is not provided in the list AND the above (4 and 5) scoring qualifications are not satisfied;</p> <p>0 = If the project list was not provided OR the information provided on the returnable is irrelevant to the required information.</p>		
1.2	Registration with the Engineering Council of South Africa (ECSA)	<p>The <i>Contractor</i> provides certified copies (not older than 3 months) of the certificate(s) of registration of the <i>Contractor's</i> design engineer(s) with the ECSA.</p>	<p>5 = At least one ECSA registered Professional Electrical Engineer/Technologist permanently employed by the <i>Contractor</i> AND the registration status of the professional is active.</p> <p>4 = Not applicable.</p>	20%	

Tender Technical Evaluation Strategy for expansion of the Fire Detection System as installed at Kriel Power Station

Unique Identifier:

Revision: **1**

Page: **13 of 22**

		<p>All information on the certificate is in English and clearly legible.</p> <p>The registered person(s) are required to have an active registration status with the ECSA.</p> <p>The certificate(s) of registration is required to include the following information: (1) The ECSA details (Name or logo) (2) Name of the registered person; (3) The ECSA registration number assigned to the registered person; (4) ECSA registration category as Professional Engineer/Technologist; (5) Date of registration with the ECSA; (6) Signature(s) and approval stamp from the ECSA.</p> <p>*Where the <i>Contractor</i> provides certificate(s) of the registered person(s), it is accompanied by the person(s) C.V.</p>	<p>2 = Not applicable.</p> <p>0 = No ECSA registered Professional Electrical Engineer/Technologist permanently employed by the <i>Contractor</i> OR if the registration status is inactive or cancelled OR if no certificate(s) of registration is not provided OR the returnable is irrelevant to the required information.</p>		
2	2. DESIGN				

Tender Technical Evaluation Strategy for expansion of the Fire Detection System as installed at Kriel Power Station

Unique Identifier:

Revision: **1**

Page: **14 of 22**

2.1	Registration with the Fire Detection Installers Association (FDIA)	<p>The <i>Contractor</i> provides proof of paid-up valid registration with the FDIA. All information is in English and clearly legible. The proof is submitted as the following documents: (1) Certified copy (not older than 3 months) of the certificate(s) of registration with the FDIA; and (2) Official letter(s) of good standing from the FDIA indicating the validity status of registration.</p> <p>The certificate(s) of registration together with the supporting letter(s) is required to include the following information: (1) FDIA contact details (Letterhead Name or logo, physical address, email address and telephone number(s)); (2) Name of the registered company (i.e. contain the name of the <i>Contractor</i> tendering for the Kriel FDS project); (3) FDIA registration number assigned to the registered company;</p>	<p>5 = The <i>Contractor</i> provides proof of paid-up valid registration with the FDIA. All information is in English and clearly legible. The proof is submitted</p> <p>0 = No Submission</p>	25%	
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Tender Technical Evaluation Strategy for expansion of the Fire Detection System as installed at Kriel Power Station

Unique Identifier:

Revision: **1**

Page: **15 of 22**

		<p>(4) Date of registration with the FDIA; (5) Paid-up validity status of registration with the FDIA; (6) Signature(s) or approval stamp from the FDIA.</p>			
2.2	FDS lifecycle support and SCADA system lifecycle support.	<p>For each equipment model provided by the <i>Contractor</i> as stated in the <i>Contractor's</i> equipment list, the <i>Contractor</i> provides a letter from the OEM indicating what the remaining life of the equipment model is in its current lifecycle at the time of Tender closing. The <i>Contractor</i> references the letter for each equipment model as listed in the <i>Contractor's</i> equipment list.</p> <p>All major devices/equipment (fire panels, field devices, power supply equipment and network/interface components) is supported by its OEM for at least 10 years at tender closing.</p>	<p>5 = All major FDS equipment (Fire panels, field devices, power supplies and network/interface components) is supported by its OEM for at least 10 years at tender closing.</p> <p>4 = Any one major FDS equipment (Fire panels, field devices, power supplies and network/interface components) is supported by its OEM for a period of 7 to 10 years at tender closing.</p> <p>2 = The product lifecycle support of the equipment is provided AND the above (4 and 5) scoring qualifications are not satisfied.</p> <p>0 = No submission of the product lifecycle support OR the returnable is irrelevant to the required information.</p>	10%	
2.3	High Level System Architecture Diagram	<p>The <i>Contractor</i> provides a high level Kriel specific system architecture is provided showing all of the</p>	<p>5 = A high level Kriel specific system architecture is provided showing all of the following major FDS components: Fire Panels, Power Supplies, Field devices, Major Network Components, 3rd Party Interfaces and the Connections between these</p>	20%	

Tender Technical Evaluation Strategy for expansion of the Fire Detection System as installed at Kriel Power Station

Unique Identifier:

Revision: **1**

Page: **16 of 22**

		following major FDS components: Fire Panels, Power Supplies, Field devices, Major Network Components, 3rd Party Interfaces, datasheets for the proposed system and the Connections between these Components.	<p>Components.</p> <p>4 = A high level Kriel specific system architecture is provided missing 1 or 2 of the following major FDS components: Fire Panels, Power Supplies, Field devices, Major Network Components, 3rd Party Interfaces and the Connections between these Components.</p> <p>2 = A high level Kriel specific system architecture is provided missing 3 or 4 of the following major FDS components: Fire Panels, Power Supplies, Field devices, Major Network Components, 3rd Party Interfaces and the Connections between these Components.</p> <p>0 = No Submission OR a generic system architecture provided which is not applicable to Kriel.</p>		
Total Score				100%	

3.5 TET MEMBER RESPONSIBILITIES

Table 6 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.	X	X	X
2.	X	X	X
3.	X	X	X

3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.6.1 Risks

Table 7 Acceptable Technical Risks

Risk	Description
1.	This is defined for each evaluation criterion in Table 5.
2.	Old system detector loops can be decommissioned before the new detection loops are commissioned taking into account that a fire detection plan and mitigations need to be in place during this period.

Table 8 Unacceptable Technical Risks

Risk	Description
1.	This is defined for each evaluation criterion in Table 5.
2.	Non-compliance with the SANS 10139 standard or the NFPA 72 code.

3.6.2 Exceptions / Conditions

Table 9 Acceptable Technical Exceptions / Conditions

Risk	Description
1.	This is defined for each evaluation criterion in Table 5.
2.	

Table 10 Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	This is defined for each evaluation criterion in Table 5.
2.	

4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation
Jorge Nunes	Chief Engineer
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5. REVISIONS

Date	Rev.	Compiler	Remarks
June 2021	0	SN Debeila	First Issue
July 2021	1	SN Debeila	Circulation for signatures

6. DEVELOPMENT TEAM

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

- SN Debeila

7. ACKNOWLEDGEMENTS

The author would like to thank all parties involved for their contribution.

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APPENDIX A APPENDIX A: CONTRACTOR'S TENDER TECHNICAL RETURNABLES

The *Contractor* shall provide all of the required information in Table 3 for tender purposes.

Contractor's tender technical returnables

Item No.	Short Description	Detail Description
1. Experience & Qualifications		
1.1.	Registered with the SAQCC fire as a Designer.	<p>The <i>Contractor</i> or the nominated <i>sub-contractor</i> provides proof of valid registration with the SAQCC. All information is in English and clearly legible. The proof is submitted as the following documents:</p> <ul style="list-style-type: none"> (1) ID Card showing the registration details (not older than 12 months); (2) Signed commitment of undertaking between the <i>Contractor</i> and the nominated <i>sub-contractor</i>; and (3) C.V(s) of the registered person <p>The ID Card(s) is required to include the following information:</p> <ul style="list-style-type: none"> (1) Name of the registered company (i.e. contain the name of the <i>Contractor</i> tendering for the Kriel FDS project) or name of the registered person(s); (2) SAQCC registration category as Designer; (3) SAQCC registration number assigned to the registered company or company representative and date of registration. <p>*Where the <i>Contractor</i> provides certificate(s) of the registered person(s), it is accompanied by the person(s) C.V.</p>
1.2.	Registered with the SAQCC fire as an Installer.	<p>The <i>Contractor</i> or the nominated <i>sub-contractor</i> provides proof of valid registration with the SAQCC. All information is in English and clearly legible. The proof is submitted as the following documents:</p> <ul style="list-style-type: none"> (1) ID Card showing the registration details (not older than 12 months); (2) Signed commitment of undertaking between the <i>Contractor</i> and the nominated <i>sub-contractor</i>; and (3) C.V(s) of the registered person <p>The ID Card(s) is required to include the following information:</p> <ul style="list-style-type: none"> (1) Name of the registered company (i.e. contain the name of the <i>Contractor</i> tendering for the Kriel FDS project) or name of the registered person(s); (2) SAQCC registration category as Installer; (3) SAQCC registration number assigned to the registered company or company representative and date of registration. <p>*Where the <i>Contractor</i> provides certificate(s) of the registered person(s), it is accompanied by the person(s) C.V.</p>

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1.3.	Registered with the SAQCC fire as a Commissioner.	<p>The <i>Contractor</i> or the nominated <i>sub-contractor</i> provides proof of valid registration with the SAQCC. All information is in English and clearly legible. The proof is submitted as the following documents:</p> <ul style="list-style-type: none"> (1) ID Card showing the registration details (not older than 12 months); (2) Signed commitment of undertaking between the <i>Contractor</i> and the nominated <i>sub-contractor</i>; and (3) C.V(s) of the registered person <p>The ID Card(s) is required to include the following information:</p> <ul style="list-style-type: none"> (1) Name of the registered company (i.e. contain the name of the <i>Contractor</i> tendering for the Kriel FDS project) or name of the registered person(s); (2) SAQCC registration category as Commissioner; (3) SAQCC registration number assigned to the registered company or company representative and date of registration. <p>*Where the <i>Contractor</i> provides certificate(s) of the registered person(s), it is accompanied by the person(s) C.V.</p>
1.4.	List of previous projects completed by the <i>Contractor</i> .	<p>The <i>Contractor</i> provides a list of 3 projects which they have completed with the similar scope as the Kriel project. All references include verifiable contact details. Only projects completed in the last 10 years will be considered. As a minimum the list includes the following information for each project:</p> <ul style="list-style-type: none"> (1) Project title; (2) <i>Contractor's</i> company name (i.e. contain the name of the <i>Contractor</i> tendering for the Kriel project); (3) Project description and scope of work; (4) Valid Client's contact details as a reference for verification purposes (Client's name, e-mail address, physical address, telephone number); (5) Category of the fire detection system (e.g. P1 and/or L1); (6) Rand value of the project; (7) Total number of installed field devices.
1.5.	Registration with the Engineering Council of South Africa (ECSA)	<p>The <i>Contractor</i> provides certified copies (not older than 3 months) of the certificate(s) of registration of the <i>Contractor's</i> design engineer(s) with the ECSA. All information on the certificate is in English and clearly legible.</p> <p>The registered person(s) are required to have an active registration status with the ECSA.</p> <p>The certificate(s) of registration is required to include the following information:</p> <ul style="list-style-type: none"> (1) The ECSA details (Name or logo) (2) Name of the registered person; (3) The ECSA registration number assigned to the registered person; (4) ECSA registration category as Professional Engineer/Technologist; (5) Date of registration with the ECSA; (6) Signature(s) and approval stamp from the ECSA. <p>*Where the <i>Contractor</i> provides certificate(s) of the registered person(s), it is accompanied by the person(s) C.V.</p>

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1.6.	Registration with the Fire Detection Installers Association (FDIA)	<p>The <i>Contractor</i> provides proof of paid-up valid registration with the FDIA. All information is in English and clearly legible. The proof is submitted as the following documents:</p> <p>(1) Certified copy (not older than 3 months) of the certificate(s) of registration with the FDIA; and</p> <p>(2) Official letter(s) of good standing from the FDIA indicating the validity status of registration.</p> <p>The certificate(s) of registration together with the supporting letter(s) is required to include the following information:</p> <p>(1) FDIA contact details (Letterhead Name or logo, physical address, email address and telephone number(s));</p> <p>(2) Name of the registered company (i.e. contain the name of the <i>Contractor</i> tendering for the Kriel FDS project);</p> <p>(3) FDIA registration number assigned to the registered company;</p> <p>(4) Date of registration with the FDIA;</p> <p>(5) Paid-up validity status of registration with the FDIA;</p> <p>(6) Signature(s) or approval stamp from the FDIA.</p>
2. Design		
2.1.	FDS lifecycle support.	<p>For each equipment model provided by the <i>Contractor</i> as stated in the <i>Contractor's</i> equipment list, the <i>Contractor</i> provides a letter from the OEM indicating what the remaining life of the equipment model is in its current lifecycle at the time of Tender closing. The <i>Contractor</i> references the letter for each equipment model as listed in the <i>Contractor's</i> equipment list. All major devices/equipment (fire panels, field devices, power supply equipment and network/interface components) is supported by its OEM for at least 10 years at tender closing.</p>
2.2.	SCADA system lifecycle support.	<p>For the SCADA system hardware and software provided by the <i>Contractor</i> as stated in the <i>Contractor's</i> equipment list, the <i>Contractor</i> provides a letter from the OEM indicating what the remaining life of the equipment is in its current lifecycle at the time of Tender closing. The <i>Contractor</i> references the OEM letter for hardware and software of the SCADA system as listed in the <i>Contractor's</i> equipment list.</p> <p>All SCADA system hardware (Servers, Clients) is supported by its OEM for at least 6 years at tender closing.</p> <p>The latest Microsoft Windows OS of the SCADA hardware is supported for a minimum period of 2 years from the time of handover. The <i>Contractor</i> provides the <i>Employer</i> with a procedure on how to update the operating system in order to maintain OEM support in the future.</p> <p>All software (other than the OS installed on the SCADA hardware) is supported by its OEM for a minimum period of 6 years at the time of handover.</p> <p>The SCADA OEM software is compatible with and runs on future OS updates for a minimum period of 6 years at handover.</p>
2.3.	High Level System Architecture Diagram	<p>The <i>Contractor</i> provides a high level Kriel specific system architecture is provided showing all of the following major FDS components: Fire Panels, Power Supplies, Field devices, Major Network Components, 3rd Party Interfaces and the Connections between these Components.</p>

CONTROLLED DISCLOSURE