



Strategy

Engineering

Title: **Matimba Power Station – Unit 2-6 Diesel Generator Fire Protection Technical Evaluation Strategy**

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1. INTRODUCTION

Diesel generators are used for providing back up power to the units and the station in case of a black out. Matimba Power Station has diesel generators as back-up for units and the station in case of a system black out, the diesel generators are on stand-by 24 hrs a day. Each unit has its own diesel generator and there's one for the station making it a total of 7 diesel generators on site.

They are also used to power up the entire station auxiliaries and unit auxiliaries in the event of black start operation.

2. SUPPORTING CLAUSES

2.1 SCOPE

The purpose of this project is to review the approved design, install, produce as built drawings and commissioning the automatic fixed fire Detection and Protection for 2-6 units diesel generator at Matimba Power Station.

The new fire system will tie into the existing fire system at Matimba power station. The existing system is supplied with water through fire pumps from the Outside plant services building.

2.1.1 Purpose

The purpose of this tender technical evaluation strategy is to define the Mandatory Evaluation Criteria, Qualitative Evaluation Criteria and Technical Evaluation Team (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 Matimba 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] 32-1034 – Eskom procurement and supply chain management
- [2] 240-48929482: Tender Technical Evaluation Procedure
- [3] 240-53716712: Tender Technical Evaluation Results Form Template
- [4] 240-53716726: Tender Technical Evaluation Scoring Form Template

2.2.2 Informative

- [5] Technical Specification for the Matimba Power Station Unit 2-6 Diesel Generator Fixed Fire Protection Project.

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
OEM	Original Equipment Manufacture
TET	Technical Evaluation Team

2.5 ROLES AND RESPONSIBILITIES

Roles and responsibilities are as per 240-48929482: Tender Technical Evaluation Procedure

2.6 PROCESS FOR MONITORING

N/A

2.7 RELATED/SUPPORTING DOCUMENTS

None

3. TENDER TECHNICAL EVALUATION STRATEGY

3.1 TECHNICAL EVALUATION THRESHOLD

The minimum weighted final score (threshold) required for a tender to be considered compliant from a technical perspective is 80%.

3.2 TET MEMBERS

Table 1: TET Members

TET number	TET Member Name	Designation
TET 1	Sizwe Buthelezi	Matimba PS: Mechanical Engineer
TET 2	Sobokwe Mokonyane	Matimba PS: Engineer In-Training
TET 3	Vukani Gebashe	Matimba PS: C&I Engineer
TET 4	Arthur Malatji	Matimba PS: C&I Engineer
TET 6	Rene Davel	Matimba PS: Civil Engineer
TET 7	To be appointed	Matimba PS: Civil Engineer

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3.3 MANDATORY TECHNICAL EVALUATION CRITERIA

Table 2 defines all the Mandatory Evaluation Criteria to be used as well as the reference to the specification and motivation for Criteria use. These criteria will not be scored. Each tender will be assessed on a yes/no basis.

Table 2: Mandatory Technical Evaluation Criteria

No.	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for use of Criteria
1.	Contractor to be registered with Construction Industry Development Board (CIDB) as level 4SF or above	Provide proof of registration with CIDB	Contractor's capability to execute the scope.
2.	Professional registration of all (Mechanical, Civil, and C&I) the discipline engineers is required to be professionally recognised/registered engineer/technologist with ECSA.	Provide valid ECSA certification	South African requirement for all individual performing engineering design work.

3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

During the tender evaluations the following table shall be used by the TET members to score each criterion on a scale of 0 to 5 as per Table 3.

Table 3: Qualitative Evaluation Criteria

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. Note 2: Foreseen acceptable and unacceptable risk(s), exceptions and conditions shall be unambiguously defined in the relevant Tender Technical Evaluation Strategy.		

Table 4 indicates the qualitative technical evaluation criteria that shall be used by the technical tender evaluation team.

Table 4: Qualitative Technical Evaluation Criteria

Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)	Totally deficient (0)	Non-compliant (2)	Compliant with associated qualifications (4)	Compliant (5)
1. MECHANICAL REQUIREMENTS								
1.1	CONTRACTOR EXPERIENCE Tenderer's experience in fire Protection projects which includes replacement and/or design, installation, and commissioning.	For each project that is referenced the following must be included in the summary as a minimum: 1. Title with short description of the project scope of work. 2. Start and end dates of the project 3. Signed completion certificate(s) 4. Client name(s) and contact details	50	30	No proof of work experience in the fire protection system projects.	One (1 to 2) similar project.	Three (3-4) similar projects	Five (5) or more similar projects.
1.2	PERSONNEL CV's Professional Registered Mechanical Technologist/ Engineer with a track record of fire protection projects.	CV with the qualification to be submitted with references.		10	No submission or CV with no relevant experience.	CV and Qualification submitted has 3 to 4 years relevant experience.	CV and Qualification submitted has 5 to 6 years relevant experience.	CV and Qualification submitted and has 7 or more years relevant experience.
1.3	METHOD STATEMENT	The contractor shall submit a method statement detailing how the works will be executed		10	No method statement submitted OR method statement submitted not	Method statement submitted, shows partial	Good Method statement submitted	Fully Comprehensive method statement submitted that shows understanding of the scope of work.

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Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)	Totally deficient (0)	Non-compliant (2)	Compliant with associated qualifications (4)	Compliant (5)
					relevant to the works.	understanding of the scope.		
2. CONTROL AND INSTRUMENTATION REQUIREMENTS								
2.1	METHOD STATEMENT	Detail the execution of the FDS Scope of the works. The Method statement should include the (1) instrument selection, (2) loop cable selection, (3) cable routing, (4) interface points to FDS, (5) HMI modification to incorporate new fire detection final elements.	25	10	No submission or submission is completely irrelevant to SOW or covering 1 out of 5 items required.	Submission with partial relevance to SOW and covering at least 2 out of 5 items required.	Submission with full relevance to SOW and covering at least 3 out of 5 items required	Submission with full relevance to SOW and covering at least 5 out of 5 items required.
2.2	KEY RESOURCE	Submission of a CV and ECSA Professionally registered Electronics or Electrical (light current) Engineer / Technologist / Technician with SAQCC Designer Project Experience working on similar Projects.		15	No submission or no relevant qualification and or experience.	Submission with relevant experience of 1 Project and Bsc Eng / B Eng or B Tech or N Dip in Electronics or Electrical (light current).	Submission with relevant experience of at least 2 FDS interface Projects and Bsc Eng / B Eng or B Tech or N Dip in Electronics or Electrical (light current).	Submission with relevant experience of at least 3 FDS interface Projects and Bsc Eng / B Eng or B Tech or N Dip in Electronics or Electrical (light current).
3. CIVIL REQUIREMENTS								

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Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)	Totally deficient (0)	Non-compliant (2)	Compliant with associated qualifications (4)	Compliant (5)
3.1	CONTRACTOR EXPERIENCE Company's background and experience on construction of: 1. Reinforced concrete works 2. Masonry works	Provide testimonial certificates or completion certificates for at least 3 complete construction projects relevant to the scope of work and which clearly indicates concrete and masonry work: The testimonial certificates or completion certificates shall consist of the following information: a. Name of company where project was executed. b. Project Description c. Verifiable reference (Contact person). Note 1: Appointment letters and payment certificates will not be considered. Note 2: If item b. and c. is not indicated on the testimonial or completion certificates, the tenderer shall provide the information as an attachment to the testimonial certificate or completion certificate. Note 3: If the project description is not provided or not comparable to the scope, the testimonial or completion certificate will not be considered. Note 4: If one or more listed items of information (a. to c.) are not	25	12.5	No construction related testimonial / completion certificates submitted OR; Testimonial / completion certificates submitted but none contain all three points a-c.	Submits 1 testimonial / completion certificate which includes points a, b & c.	Submits 2 testimonial / completion certificates which each include points a, b & c.	Fully compliant. Submits 3 testimonial / completion certificates which each include points a, b & c.

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Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)	Totally deficient (0)	Non-compliant (2)	Compliant with associated qualifications (4)	Compliant (5)
		provided on any specific testimonial or completion certificate, this testimonial or completion certificate will not be considered.						
3.2	CV of professional ECSA registered Engineer / Technologist who will be certifying civil engineering and structural works. Minimum of 5 years' experience, relevant to the scope of work is, required.	Provide the CV of the Engineer / Technologist who will be certifying civil engineering and structural works. The CV must include the following: a. Certified copy of Professional ECSA registration. b. Certified copies of tertiary education certificates. c. Experience in design and construction supervision. d. References. Note: If any of the deliverables (a-d) are not included in the CV, the CV will not be considered.		12.5	No CV submitted, or CV omits any one or more of the deliverables a-d.	Engineer has less than 4 years relevant experience in design and construction monitoring.	Engineer has more than 4 years but less than 5 years relevant experience in design and construction monitoring.	Engineer has more than 5 years relevant experience in design and construction monitoring.
		TOTAL:	100					

TET MEMBER RESPONSIBILITIES

In Table 5 identify the TET members allocated to review/evaluate each Qualitative criterion (minimum 2 evaluators per criteria / sub-criteria)

Table 5: TET Member Responsibilities

Mandatory Criteria Number	TET 1	TET 2	TET 3	TET 4	TET 5	TET 6
1	X	X	X	X	X	X
2	X	X	X	X	X	X
Qualitative Criteria Number	TET 1	TET 2	TET 3	TET 4	TET 5	TET 6
1.1	X	X				
1.2	X	X				
1.3	X	X				
2.1			X	X		
2.2			X	X		
3.1					X	X
3.2					X	X

3.5 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.5.1 Risks

Table 6: Acceptable Technical Risks

Risk	Description
1.	None

Table 7: Unacceptable Technical Risks

Risk	Description
1.	None

3.5.2 Exceptions / Conditions

Table 8: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	None

Table 9: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	The <i>Tenderer</i> has no previous track record of successfully completed similar projects.

4. AUTHORISATION

In the table below, list all TET members,

This document has been seen and accepted by:

Name	Designation
Sizwe Buthelezi	System Engineer
Sobokwe Mokonyane	Engineer In-Training
Gift Nkuna	Auxiliary Engineering Manager
Rene Davel	Civil Engineer
Vukani Gebashe	C&I Engineer

5. REVISIONS

Date	Rev.	Compiler	Remarks
October 2019	1	M Mahlaule	Original
June 2026	2	SM Buthelezi	Revision due to the change in engineering resource (system engineer).
22 June 2026	3	SM Buthelezi	Revision after CFT and procurement strategy approval.

6. DEVELOPMENT TEAM

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

- Sizwe Buthelezi
- Rene Davel
- Vukani Gebashe

7. ACKNOWLEDGEMENTS

Not Applicable.

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