

	Strategy	Hendrina Power Station Engineering
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Strategy for the Design and
Replacement of Fuel Oil Meters**

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1. INTRODUCTION

This report describes the strategy and the technical evaluation criteria developed to evaluate the execution of the fuel oil flowmeter 'design and replacement' project scope as per set standards at Hendrina Power Station. The tender process will be an open tender to the market to ensure transparency and competitiveness. This evaluation strategy was developed and will be utilised for the evaluation of the submitted tenders to gauge accuracy and compliance with the set evaluation criteria to ensure the successful execution of this project.

High-level requirements on which the evaluation will be based can be seen below. The appointed contractor will be expected to:

- Provide a detail design as per customer requirements.
- Remove the old equipment from the plant and handle all equipment including hazardous waste.
- Supply and install the Coriolis mass oil flow meters and all required material as per the approved design.
- Supply and install all required equipment for level monitoring of the fuel oil.
- Supply and install a monitoring control panel for local operations and transmit the data to Hendrina DCS.
- Test and commission the system in the plant.
- Train Eskom personnel on the operation and maintenance of the system.
- Provide a maintenance strategy for the flowmeters and level instruments.
- Provide manuals and all relevant documentation, including all drawings in the specified format.

2. SUPPORTING CLAUSES

2.1 SCOPE

This document outlines the supplier technical evaluation of the fuel oil flowmeter 'design and replacement' project and covers the different aspects that will be evaluated and scored by the multi-disciplinary Technical Evaluation Team (TET) to complete the technical evaluation of the enquiry. The team members are listed and appointed in this document along with their responsibilities. The document also describes the acceptable and unacceptable risks, qualifications and/or conditions.

The Technical Evaluation Strategy will define the following technical evaluation criteria:

- Mandatory Evaluation Criteria
- Qualitative Evaluation Criteria
- TET Member Responsibilities

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- Acceptable / Unacceptable Qualifications.

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 the basis for the tender technical evaluation process.

2.1.2 Applicability

This document is applicable to Hendrina 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

2.2.2 Informative

- [2] NEC3 Term Service Contract
[3] ISO 9001 Quality Management Systems

2.3 DEFINITIONS

Not applicable.

2.3.1 Classification

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

2.4 ABBREVIATIONS

Abbreviation	Explanation
ACS	Automation Control System
C & I	Control and Instrumentation
CM	Configuration Management
CPM	Critical Path Method
CR	Control Room
CV	Curriculum Vitae
DCS	Distributed Control System
ISO	International Organisation for Standardisation
OEM	Original Equipment Manufacturer
PCM	Process Control Manual
SHE	Safety, Health & Environmental
SANAS	South African National Accreditation System

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TET	Technical Evaluation Team
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2.5 ROLES AND RESPONSIBILITIES

As per 240-168966153: Generation Tender Technical Evaluation Procedure for Generation

Table 1: Defined Roles and Responsibilities

Compiler	The document compiler is responsible for ensuring that this document is up-to-date and that it is not a duplication of existing documentation regarding the document's objectives and content.
Functional Responsibility (Line Manager Facilities)	The Functional Responsible Person shall determine if the document is fit for purpose before the document is submitted for authorisation.
Authoriser (Senior Manager)	The document authoriser is a duly delegated person with the responsibility to review the document for alignment with business strategy, policy, objectives and requirements. He/she shall authorise the release and application of the document.

2.6 PROCESS FOR MONITORING

240-48929153: Tender Technical Evaluation Procedure Related/Supporting Documents

2.7 RELATED/SUPPORTING DOCUMENTS

Not applicable.

3. TENDER TECHNICAL EVALUATION STRATEGY

3.1 TECHNICAL EVALUATION THRESHOLD

To ensure that the tenders are eligible for evaluation, the tenderer shall meet all the mandatory requirements as indicated in Table 4 and the strict adherence to the notes that have been detailed in section 3.4.

The evaluation of tenders will be based on the tenderer's ability to meet the requirements specified in the project's scope of work. A weighted scorecard approach will be used to evaluate the tenders against the Employer's requirements. Final Scores will be calculated and processed to produce a final score out of 5, as seen in **Error! Reference source not found.**

The minimum weighted final score (threshold) required for a tender to be considered from a technical perspective is 70%.

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Table 2: Technical Evaluation Score Card

SCORE	PERCENTAGE	DESCRIPTION
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.		

3.2 TET MEMBERS

Table 3: TET Members

TET number	TET Member Name	Designation
TET 1		C&I Engineer
TET 2		Senior Technologist Engineer
TET 3		Boiler Engineer
TET 4		Auxiliary Engineer

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3.3 MANDATORY TECHNICAL EVALUATION CRITERIA

Table 4: Mandatory Technical Evaluation Criteria

	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for use of Criteria
1.	Company registered as an Electrical Contractor for hazardous location with DoL, provide proof of certification.	Provide proof of registration as an electrical contractor	Works are to be carried out in a hazardous location. Therefore, works are to be led by a practicing master installation electrician (MIE). The company shall have at least one individual registered as a Master Installation Electrician in terms of the OHS Act. This individual shall issue a certificate of Compliance (CoC) for verification and certification of the construction, testing and inspection of hazardous location installation.
2.	Electrical/Electronic ECSA professionally registered engineer or technologist for design and document authorisation.	• Provide proof of professional ECSA registration.	An ECSA professionally registered engineer or technologist is required for the design and authorisation of documents to ensure integrity and accountability of the design work. These individuals are to be employed by that specific company.
3.	Mechanical ECSA professionally registered engineer or technologist for design and document authorisation.	• Provide proof of professional ECSA registration.	An ECSA professionally registered engineer or technologist is required for the design and authorisation of documents to ensure integrity and accountability of the design work. These individuals are to be employed by that specific company.

3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Notes to tenderer:

- An undertaking is required that resources identified would not be changed on award of the Contract.
- The CV's of Key Personnel should have experience which is comparable in nature to the Scope of the specified in this tender.
- Where no information is offered by the Tenderer, no points shall be scored.
- The Tender Returnable should be numbered and in the correct order as defined in sections and table 5 i.e. 1.1.a etc.

Table 5: Qualitative Technical Evaluation Criteria

	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
1.	Company Capability and Experience			40	
	1.1	Provide at least 3 reference letters from previous or current traceable clients within the last 5-10 years where similar or related services were rendered.	Documentation submitted must include the following: • Name of the client/end user with contract numbers • Verifiable Contact details of the client/end user • Description of the job done • Date at which the job was done • Duration of the work done.	Score Distribution 3 or more references = 5 2 references = 4 1 reference = 2 0 references = 0	40
2.	Technical Resources			50	

	2.1	Person responsible for Supervision: The person responsible for supervision of the work must have a minimum relevant N3 in electrical certificate and 3 years of experience as a supervisor and registered as Master Installation Electrician (MIE) in hazardous location(s). Provide proof of supervision for HAZLOC installations in the form of CV & certificates:	Registration as Master installation electrician (MIE) and Hazardous location certificate.	Score Distribution: 3 years or more experience= 5 2-3 years' experience = 4 1-2 years' experience = 2 Less than 1 year = 0	20
	2.2	Electrical/electronic technician experience: A qualified electrical/electronic technician must have a minimum of 3 years related industrial experience operating as a technician.	Submit the highest qualification and a CV demonstrating the relevant experience.	Score Distribution: 3 years or more experience= 5 2-3 years' experience = 4 1-2 years' experience = 2 Less than 1 year = 0	5
	2.3	Mechanical technician experience: A qualified mechanical technician must have a minimum of 3 years of related industrial experience operating as a technician.	Submit the highest qualification and a CV demonstrating the relevant experience.	Score Distribution: 5 years or more experience= 5 3-5 years' experience = 4 Less than 3 years = 2 No experience= 0	5
	2.2	The electrical Artisan or person responsible for work execution: Submit the certificate (certified copy) of the highest qualification and the CV demonstrating the relevant experience and trade test certificate.	Submit trade test certificate, highest qualification, and CV.	Score Distribution: Industrial experience of more than 3 years with a relevant minimum N3 qualification = 5 Industrial experience of 2-3 years with a relevant minimum N3 qualification = 4 Industrial experience of 1-2 years with a relevant minimum N3 qualification = 2	5

				less than 1 year of experience with a relevant minimum N3 qualification = 0	
	2.3	Mechanical Artisan or equivalent responsible for work execution: Submit the certificate (certified copy) of the highest qualification and the CV demonstrating the relevant experience and trade test certificate.	Submit trade test certificate, highest qualification, and CV	Score Distribution: Industrial experience of more than 3 years with a relevant minimum N3 qualification = 5 Industrial experience of 2-3 years with a relevant minimum N3 qualification = 4 Industrial experience of 1-2 years with a relevant minimum N3 qualification = 2 less than 1 year of experience with a relevant minimum N3 qualification = 0	5
	2.4	Control & Instrumentation Artisan or person responsible for work execution: Submit the certificate (certified copy) of the highest qualification and the CV demonstrating the relevant experience and trade test certificate.	Submit trade test certificate, highest qualification, and CV	Score Distribution: Industrial experience of more than 3 years with a relevant minimum N4 qualification = 5 Industrial experience of 2-3 years with a relevant minimum N4 qualification = 4 Industrial experience of 1-2 years with a relevant minimum N4 qualification = 2 less than 1 year of experience with a relevant minimum N4 qualification = 0	5

	2.5	Qualified Welder/Artisan	Submit welding trade test certificate, highest qualification, and CV	Trade tested welder/artisan with relevant qualification and certification with minimum 3-year experience= 5 Trade tested welder/artisan with relevant qualification and certification with 2-3 years of experience= 4 Trade tested welder/artisan with relevant qualification and certification with 1-2 years of experience= 2 Trade tested welder/artisan with relevant qualification and certification with less than 1 year experience= 0	5
3.	Scope Execution			10	
	3.1	Provide a method statement and execution plan for design, installation, testing, and commissioning of the design.	Submit a method statement presenting the following but not limited to items: a. Project organogram showing project team structure. b. Resource schedule showing a list of qualified personnel. c. Project execution schedule.	Score Distribution: Method statement contains: All Items listed from a to d= 5 Only 3 of the items listed from a to d= 4 Between 1 and 3 listed from a to d = 2 Has 1 or less items from a to d = 0	10

			d. Quality and commissioning plan.		
				TOTAL: 100	

3.5 TET MEMBER RESPONSIBILITIES

Table 3: TET Member Responsibilities

Mandatory Criteria Number	TET 1	TET 2	TET 3	TET 4
1. Company registered as an Electrical Contractor for hazardous location with DoL.	X	X	X	X
2. Electrical/Electronic ECSA professionally registered engineer or technologist for design and document authorisation.	X	X	X	X
3. Mechanical ECSA professionally registered engineer or technologist for design and document authorisation.	X	X	X	X
Qualitative Criteria Number	TET 1	TET 2	TET 3	TET 4
1. Provide at least 3 reference letters from previous or current traceable clients within the last 5-10 years where similar or related services were rendered	X	X	X	X
2. Person responsible for Supervision: The person responsible for supervision of the work must have a minimum relevant N3 in electrical certificate and 3 years of experience as a supervisor on hazardous location installations (MIE). Provide proof of supervision for HAZLOC installations in the form of CV & certificates:	X	X	X	X
3. Electrical/electronic technician experience: A qualified electrical/electronic technician must have a minimum of 3 years related industrial experience operating as a technician.	X	X	X	X
4. Mechanical registered technician experience: A qualified mechanical technician must have a minimum of 3 years of related industrial experience operating as a technician.	X	X	X	X

5. The electrical artisan or person responsible for work execution: Submit the certificate (certified copy) of the highest qualification and the CV demonstrating the relevant experience and trade test certificate.	X	X	X	X
6. Mechanical artisan or person responsible for work execution: Submit the certificate (certified copy) of the highest qualification and the CV demonstrating the relevant experience and trade test certificate.	X	X	X	X
7. Control & Instrumentation artisan or person responsible for work execution: Submit the certificate (certified copy) of the highest qualification and the CV demonstrating the relevant experience and trade test certificate.	X	X	X	X
8. Qualified Welder/Artisan Trade tested welder/artisan with relevant qualification and certification= 5 %	X	X	X	X
9. Provide a method statement and execution plan for design, installation, testing, and commissioning of the design.	X	X	X	X

3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.6.1 Risks

Table 4: Acceptable Technical Risks

Risk	Description
1.	N/A

Table 5: Unacceptable Technical Risks

Risk	Description
2.	Company does not have a certified/appointed MIE to issue CoC for HAZLOC.
3.	Company does not have an engineer that is professionally registered to sign-off designs and drawings
4.	Company does not understand the scope of work and the technical risks involved

3.6.2 Exceptions / Conditions

Table 6: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	N/A

Table 7: Unacceptable Technical Exceptions / Conditions

Risk	Description
1	N/A

4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation	Signature

5. REVISIONS

Date	Rev.	Compiler	Remarks
June 2026	0		Basis for the technical evaluation criteria for the tender.

6. DEVELOPMENT TEAM

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

7. ACKNOWLEDGEMENTS

N/A

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