Eskom	Strategy	Grootvlei Power Station

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Electrical Engineer	**Electrical Engineering Manager**	**Engineering Manager**
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1. INTRODUCTION

The H2 dryer, H2 skid, CO2 evaporator, gas analysers are essential for running Grootvlei Power Station synchronous generators; maintenance of these sub-systems during outages is crucial for continuous operation of the generators, and this is can only be achieved if skilled and competent personnel perform the maintenance activities.

This document describes the process to be followed in performing technical evaluations during the tender evaluation for the maintenance, modifications and supply of spares for the H2 dryer, H2 skid, CO2 evaporator skid, stator head tank panel and gas analysers.

The evaluation of tenders will be based on the tenderer's ability to meet both mandatory and qualitative requirements. A weighted score card approach will be used to evaluate the tenders against the Employer's requirements.

2. SUPPORTING CLAUSES

2.1 SCOPE

This document refers to the Supplier Technical Evaluation of the H2 dryer, H2 skid, CO2 evaporator, gas analysers spares ,maintenance and modifications; it 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 and qualifications and/or conditions.

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

• Mandatory Evaluation Criteria

• Qualitative Evaluation Criteria

• TET Member Responsibilities

• Acceptable / Unacceptable Qualifications.

Once the Technical Evaluation Strategy is finalised and authorised for issue to market, no changes will be made to the evaluation criteria.

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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.

The purpose of this Technical Evaluating Strategy is to provide a consistent approach to:

- Processes and principles to be followed when technically evaluating tenders.
- Responsibilities of individuals and
- Reporting requirements.

2.1.2 Applicability

This Technical Evaluation Strategy is applicable to the evaluation of tenderers providing H2 Skid and Gas Station Service and repairs at Grootvlei Power Station Grootvlei & Electrical Engineering Department **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] ISO 9001 Quality Management Systems

[2] 240-48929482: Tender Technical Evaluation Procedure

[3] 32-1033: Eskom Procurement and Supply Chain Management Policy

[4] 32-1034: Eskom Procurement and Supply Management Procedure

[5] Occupational Health and Safety Act and Regulations (85 of 1993)

[6] IS0 14001 Safety Management Systems

[7] 85-A-001 Functional Location KKS Coding and Labelling Standard

2.2.2 Informative

[8] 36-681 Generation Plant Safety Regulations

[9] 240-52844017 Eskom System Reliability, Availability and Maintainability Analysis Guideline

[10] ISO 10007 Guidelines for Configuration Management

[11] 240-105658000 Supplier Quality Management Specification

2.3 DEFINITIONS

Definition	Description
Confidential	The classification given to information that may be used by malicious/opposing/hostile elements to harm the objectives and functions of Eskom Holdings Limited
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.
Tender	A tender refers to an open or closed competitive request for quotations / prices against a clearly defined scope / specification.

2.3.1 Classification

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

2.4 ABBREVIATIONS

Definition	Description
TET	Technical Evaluation Team
OEM	Original Equipment Manufacture
OHS Act	Occupational Health & Safety Act
CoC	Certificate of Conformity
ATL	Accredited Test Laboratory
Gx	Generation

2.5 ROLES AND RESPONSIBILITIES

- **Engineering Manager**: Grootvlei Engineering Manager shall ensure that the respective areas understand and adhere to [2] **Tender Technical Evaluation Procedure 240-48929482**
- **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 [2] **Tender Technical Evaluation Strategy 240-48929482**.
- **Suppliers**: All Tenders must be conversant with the requirements of this standard and shall comply with the requirements. No deviations will be accepted, and suppliers shall ensure that they obtain clarity where required and obtain all supporting information or documents necessary to comply with this document.

2.6 PROCESS FOR MONITORING

The acceptance shall be based on fully compliant submission of documents, the factory testing , and proving manufacturing capability and capacity during factory evaluations.

The process to be followed in performing technical evaluations during the tender evaluation process must be consistent throughout **Eskom Engineering**.

2.7 RELATED/SUPPORTING DOCUMENTS

[11] 240-53716746: Tender Technical Evaluation Report Template

[12] 240-53716712: Tender Technical Evaluation Results Form Template

[13] 240-53716726: Tender Technical Evaluation Scoring Form Template

[14] 240-53716769: Tender Technical Evaluation Strategy Template

3. TENDER TECHNICAL EVALUATION STRATEGY

Technical evaluations are a critical activity performed by **Engineers / Technical Specialists** in accordance with [3] 32-1033: Eskom Procurement and Supply Chain Management Policy and [4] 32-1034: Eskom Procurement and Supply Management Procedure during the tender process.

This procedure shall ensure that a consistent, fair, transparent, Impartial, and auditable process is followed to identify the highest technically ranked tenderer.

3.1 TECHNICAL EVALUATION THRESHOLD

Mandatory Technical Evaluation Criteria (gatekeepers) are ‘must meet’ criteria. These criteria shall not be weighted or point scored but shall be assessed on a Yes/No basis as to whether or not the criteria are met unless set otherwise. An assessment of ‘No’ against any criterion shall technically disqualify the tenderer and shall not be further evaluated against Qualitative Criteria.

Qualitative Technical Evaluation Criteria are weighted evaluation criteria used to identify the highest technically ranked tenderer after determining that all the Mandatory Evaluation Criteria have been met. The Qualitative Evaluation Criteria are weighted to reflect the relevant importance of each criterion. The minimum weighted final score (threshold) required for a tender to be considered from a technical perspective is **80%**.

3.2 TET MEMBERS

Table 1 below lists the TET members.

Table 1: TET Members

TET number	TET Member Name	Designation
TET 1	Doctor Mazeka	Grootvlei System Engineer
TET 2	Thabiso Mtsweni	Grootvlei Electrical Engineering Manager
TET 3	Siyanda Mthenjane	Snr Technician Outages

3.3 MANDATORY TECHNICAL EVALUATION STRATEGY

Table 2: Mandatory Technical Evaluation Strategy

	Mandatory Technical Criteria Description	**Reference to Technical Specification / Tender Returnable**	**Motivation for use of Criteria**
1.	The Tenderer shall submit proof of registration with the Southern African Compressed Gases Association or SAQCC (South African Qualification and Certification Committees).	Proof of registration certificate shall be submitted.	New requirements from Generation Engineering for people working on the Hydrogen Dryer Plant to support the Hydrogen Standard: 240-56227413.
2.	Tenderer to ensure that the personnel is familiar with regulations related to working in Hazloc areas. Provide proof of training.	Proof of training certificate shall be submitted	To support the requirements of the Management of Hazardous Location Standard: 240-56227413. Due to the possibility of explosive gas atmosphere in the Hydrogen Skid environment.
3.	A Site visit for the employer of the Tenderers workshop must be scheduled by the tenderer	Site visit and walk down to be conducted .	To ensure the Tenderer has the facility to provide all that was detailed in the scope.

3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Compliant tenderers will be evaluated against a set of weighted qualitative evaluation. The evaluation criteria have been broken down into two sections; the first section is on 4, the second section is on 5. 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 as populated on both tables. If no information from the submission file is available per criteria to be evaluated, the weighted score for those 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. ***To ease the evaluation process, the tenderers must submit files with a table of contents showing the section that contains the relevant criterion.***

Table 3 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. 1. Acceptable technical risk(s) AND/OR. 2. Acceptable exceptions AND/OR. 3. 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: Foreseen acceptable and unacceptable risk(s), exceptions and conditions shall be unambiguously defined in the relevant Tender Technical Evaluation Strategy.

Note 2: The scoring table does not allow for scoring of 1 and 3

Note 3: The minimum weighted final score (threshold) required for a tenderer to be considered from a technical perspective is 80% for each Section. If the tenderer achieves a score of 80% or higher in one section but then scores less than 80 % in another section, they will not advance or be further considered. It's mandatory for tenderers to attain a minimum weighted score of 80 % in all three sections to proceed.

Note 4: The evaluation process involves a pass/fail threshold set at 80% for each section criterion. If a tenderer scores below 80% in any criterion, it highlights potential risks, scoring 80% or above on each criterion is ideal. While the pass/fail mark does not solely determine whether a tenderer will advance, in scenarios where multiple tenders meet the 80% threshold as highlighted above, those scoring above 80% in most criteria are preferred for the tender award.

Note: *Minimum threshold is 80%.*

Table 4 Qualitative Technical Evaluation Criteria: Supply of spares

<table>
<tr><th></th><th colspan="2">Qualitative Technical Criteria Description</th><th>Reference to Technical Specification / Tender Returnable</th><th>Criteria Weighting (%)</th><th>Criteria Sub Weighting (%)</th><th>Pass/Fail Threshold</th><th>Pass/Fail</th></tr>
<tr><td>1.</td><td colspan="2">General requirements</td><td></td><td>40</td><td></td><td>≥ 80%</td><td></td></tr>
<tr><td></td><td>1.1</td><td>Warranty of critical spares to be honored by the OEM or OEM agent/representative</td><td>Warranty of spares to be honored by the OEM or OEM agent/representative and the tenderer submits such an agreement. (spares with long lead times)
<table>
<tr><th>Delivery period (T)</th><th>Score</th></tr>
<tr><td>Warranty provided for all critical spares</td><td>5</td></tr>
<tr><td>Warranty provided for 80% of all critical spares</td><td>4</td></tr>
<tr><td>Warranty provided for 50% of all critical spares</td><td>2</td></tr>
<tr><td>No warranty provided for any of the critical spares</td><td>0</td></tr>
</table></td><td></td><td>40</td><td></td><td></td></tr>
<tr><td>2.</td><td colspan="2">Delivery</td><td></td><td>20</td><td></td><td>≥ 80%</td><td></td></tr>
</table>

<table>
<tr>
<td></td>
<td>2.1</td>
<td>Delivery time frame of spares to be indicated by tendered.</td>
<td>All required spares to be delivered to the Employer 4 weeks from the day the purchase order is placed by the Employer.
<table>
<tr><th>Delivery period (T)</th><th>Score</th></tr>
<tr><td>$T \leq 1\ week$(For all spares or 90% of the spares .)</td><td>5</td></tr>
<tr><td>$1\ weeks < T \leq 8\ week$ (For all spares or 90% of the spares.)</td><td>4</td></tr>
<tr><td>$8\ weeks < T \leq 12\ week$ (For all spares or 90% of the spares.)</td><td>2</td></tr>
<tr><td>$T > 12\ week$ (For all spares or 90% of the spares.)</td><td>0</td></tr>
</table>
</td>
<td></td>
<td>20</td>
<td></td>
<td></td>
</tr>
</table>

3.	**Documentation**			**40**		≥ 80%	
	3.1	Equipment must be selected and comply to SANS 10108. (South African National Standard that deals with the classification of hazardous locations and the selection of equipment for use in such locations)	Provide ATL certificate to prove that the H_2 dryer and H_2 skid electrical & electronic components/equipment to be supplied are Ex-rated 2 or more certificates-100% 1 certificate-50% Certificates not provided-0%		10		
	3.2	Drawings and data sheets of equipment's/components that will be used to be to be provided.	The supplier will supply any additional information such as brochure, general arrangement drawing, certificates, detailed specification, 4 or more-100% 2 or more -50% Nothing is provided-0%		15		
	3.3	Provide preservation procedures for components	The tenderer shall supply preservation/storage procedure/s		15		
				TOTAL: 100			

Table 5 Qualitative Technical Evaluation Criteria: Maintenance work during outages

	Qualitative Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Criteria Weightig (%)	Criteria Sub Weighting (%)	Pass/Fail Threshold	Pass/Fail
1.	**General requirements**		**80**		≥ 80%	

	1.1	Proven track record in performing maintenance service for the H_2 and CO_2 gas systems.	The tenderer is required to submit work orders of any work they have carried out at sites in the last five years, specifically any work involving the H_2 dryer, H_2 skid, CO_2 skid, gas analysers and stator head tank panel. 5 or more work orders-100% 2-4 work orders -50% 0-1 work order-0%		15		
	1.3	After the maintenance service, gas system equipment should be signed off by an authorized gas practitioner registered with an accredited institution.	• The tenderer provides a valid certificate for a gas practitioner who is authorized to provide Compliance Certificates (COC) for installations involving hydrogen (H_2), carbon dioxide (CO_2), nitrogen (N_2), and oxygen (O_2) • An organizational chart endorsed by a representative from the company, which includes the certified gas practitioner as a member of the team must be provided. • In cases where the gas practitioner is not a direct employee of the bidding company, a formal letter on the company's letterhead is needed. This letter must have the company's letterhead and must be signed by a company representative and must confirm that the gas practitioner, whose certification is provided, will conduct assessments of the gas system after each maintenance session and will issue a Compliance Certificate after every service.		35		
	1.4	Submission of a task schedule	• A service contract will be utilised hence the supplier needs to submit a tasks schedule for all activities on the scope of work.		5		

	1.5	Modification	• Tenderers are expected to provide a detailed proposal for Unit 1 &2,focusing on the modifications needed for the installation H2 gas analyser and commissioning of the gas analyser panel. The necessary gas analyser and calibration gases will be supplied by the Tenderer.		25		
2.	**Documentation**			**20**		≥ 80%	
	2.2	A Certificate of Conformity (CoC) for gas installation shall be required for all installations as per OHS Act 85 of 1993.	Tenderer to provides five Certificate of Conformity (CoC) for gas installation for similar work conducted in the last five years. This includes any work related to the H_2 dryer, H_2 skid, CO_2 skid, gas analysers and stator head tank panel. 5 or more certificates-100% 1-4 certificate-50% Certificates not provided-0%		10		
	2.3	Quality Control Plan	Tenderer to provide a quality control plan for similar work conducted in the last five years. This includes any work related to the H_2 dryer, H_2 skid, CO_2 skid, gas analysers and stator head tank panel. Note: The quality system needs to be aligned with the ISO 9001 standard.		3		
	2.4	Field Service report	Tenderer to provide a field service report for similar work conducted in the last five years. This includes any work related to the H_2 dryer, H_2 skid, CO_2 skid, gas analysers and stator head tank panel.		3		

	2.5	Data packs	The tenderer confirms in a letter with the company's letterhead signed by the company's representative that they will submit a data pack in both printed and electronic formats after completion of every service. It must include a comprehensive list of all components used, complete with their technical specifications, calibration certificates, and technical drawings.		2		
	2.6	Warranty of work	The tenderer must submit a formal letter on the company's letterhead, signed by an authorized representative. This letter should confirm the tenderer's commitment to be present on-site during critical phases such as the return to service, purging, and pressure testing of the generator to address any arising issues.		2		
				TOTAL: 100			

4. TENDER TECHNICAL EVALUATION REPORT

On completion of the technical evaluation process and all clarification sessions, the final technical evaluation results shall be documented in a Tender Technical Evaluation Report, which shall comprise, as a minimum.

- Details on the implementation of Tender Technical Evaluation Strategy ;
- List all tenders (tenderer name, etc.) received and evaluated;
- Summary of all clarification questions and responses received;
- Summary of evaluation results;
- Interpretation of evaluation results (mandatory and qualitative criteria);
- Final conclusions and recommendations;
- All individual scoring forms and consolidated results;
- Minutes of all meetings during evaluation process (internal clarification sessions, tenderer clarification sessions, etc.)

The Tender Technical Evaluation Report shall highlight any key issues that must be further addressed and/or negotiated. The report shall also highlight any issues that require on-going scrutiny once the contract has been awarded.

On completion of the Tender Technical Evaluation Report, the compiler shall distribute the final draft report to all TET members for their final review.

Once the Tender Technical Evaluation Report has been approved and authorized by Electrical and Engineering Manager, the final signed report shall be formally handed over to the Commercial Representative

5. AUTHORISATION

This document has been seen and accepted by:

Name & Surname	Designation
Thabiso Mtsweni	Grootvlei Electrical Engineering Manager
Thabo Montja	Grootvlei Engineering Manager
Siyanda Mthenjana	Snr Technician Outages

6. REVISIONS

Date	Rev.	Compiler	Remarks
February 2025	1	D Mazeka	New document
August 2025	2	D Mazeka	Section 3.4 removed

7. DEVELOPMENT TEAM

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

- Doctor Mazeka

8. ACKNOWLEDGEMENTS

N/A