

	SCOPE OF WORK	Grootvlei Power Station
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1. INTRODUCTION

Grootvlei Power station is situated in the Mpumalanga province between De Hoek toll plaza and Villiers. Grootvlei Power Station was first commissioned between 1969 and 1977 and then mothballed in 1990. In 2006, the Units were returned to service and contracted to supply 1180MW to grid. Unit 1 - 4 supplying 200MW and 5 and 6 supplying 190MW. Units are manufactured by different suppliers. The Power Station will soon be due for imminent OMW production from fossil fuel fired technology with unit 4, 5 and 6 already on long-term preservation. Unit 1, 2 and 3 are still operational and will reach their dead stop dates in 2029/30 financial years.

This will result in a significant loss of electricity on a constrained national grid. To ease the loss of generating power, Eskom developed the Grootvlei Power Station Conversion and Repurposing project to evaluate alternative power generating mechanisms to use the existing infrastructure at Grootvlei Power Station and to sustain jobs in and around the Grootvlei area that are servicing the power station.

The Grootvlei Smart Agri-Demo Facility was developed by Eskom to reskill the community of Grootvlei and to introduce Micro grids that will power the new agriculture facilities around the station. The proposed location of the Demo facility currently has no infrastructure or electrical supply. The station is thus required to supply power to the location of the new Demo facility.

2. SUPPORTING CLAUSES

2.1 SCOPE

This document refers to the Grootvlei Agriculture Facility 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 and qualifications and/or conditions.

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

- Mandatory Evaluation Criteria
- Qualitative Evaluation Criteria

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- TET Member Responsibilities
- Acceptable / Unacceptable Qualifications

Once the Technical Evaluation Strategy is authorised no changes will be made to the evaluation criteria.

2.1.1 Purpose

The Technical Evaluation Strategy serves as basis for the tender technical evaluation process to ensure that the evaluation process is transparent and 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 document is applicable to Eskom's Grootvlei 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] 32-1033: Eskom Procurement and Supply Chain Management Policy
- [3] 32-1034: Eskom Procurement and Supply Management Procedure
- [4] Occupational Health and Safety Act and Regulations (85 of 1993)
- [5] ISO 14001 Safety Management System

2.2.2 Informative

- [6] GVL/ 0602: Works Information/Technical Specification Grootvlei Agriculture Facility SOW

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[7] 36-681 Generation Plant Safety Regulations

[8] 240-52844017 Eskom System Reliability, Availability and Maintainability Analysis Guideline

[9] ISO 10007 Guidelines for Configuration Management

[10] 240-105658000 Supplier Quality Management Specification

2.3 DEFINITIONS

N/A

2.3.1 Classification

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.

2.4 ABBREVIATIONS

Abbreviation	Description
AC	Alternating Current
DC	Direct Current
GCD	Group Capital Division
GVL	Grootvlei
IEC	International Electrotechnical Commission
LV	Low Voltage
N/A	Not Applicable
OEM	Original Equipment Manufacturer
SANS	South African National Standards
SOW	Scope of Work
TET	Technical Evaluation Team

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2.5 ROLES AND RESPONSIBILITIES

- **Engineering Manager:** Grootvlei Engineering Manager shall ensure that the respective areas understand and **adhere to [1] 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 [1] Tender Technical Evaluation Strategy 240-48929482.
- **Suppliers:** All suppliers of the cables to Eskom 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] GVL/ 0602: Works Information/Technical Specification for the Grootvlei Agriculture Facility SOW.

[12] 240-48929482: Tender Technical Evaluation Procedure

[13] 240-53716712: Tender Technical Evaluation Results Form Template

[14] 240-53716726: Tender Technical Evaluation Scoring Form Template

[15] 240-53716769: Tender Technical Evaluation Strategy Template

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3. TENDER TECHNICAL EVALAUTION STRATEGY

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 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: TET Members

TET	TET Member Name	Designation
TET 1	Doctor Mazeka	Electrical Engineer, Grootvlei Power Station
TET 2	Sihle Tembe	Electrical Engineer, Grootvlei Power Station
TET 3	Thabiso Mtsweni	Electrical Engineering Manager, Grootvlei Power Station
TET 4	Jeanette Nxumalo	PTM Grootvlei Power station

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3.3 MANADATORY TECHNICAL EVALUATION CRITERIA

Table 2: Mandatory Technical Evaluation Criteria

#	Mandatory Technical Criteria Description	Reference to Works Information/Tender Returnable	Motivation for use of Criteria
1	<p>The tenderer <u>must comply with the type design and testing requirements</u> as per SANS 61439-1 and 240-56227516 standards for the switchgear offered. If the equipment has been type tested according to standards other than 240-56227516 and SANS 61439-1 , the tenderer must provide the standards referenced, as well as provide specifications comparison and proof that their standard meets the minimum requirements of the IEC/SANS standard.</p> <p>The tenderer must <u>provide a list of all the type test certificate numbers for the equipment which is offered as per the tender requirements.</u></p>	<p>LV Switchgear and Control Gear Assemblies and Associated Equipment for Voltage up to and including 1000V AC and 1500V DC</p> <p>Standard 240-56227516 SANS 61439-1</p>	Safety
	<p>The tenderer must comply with the type design and testing requirements as per 240-62772907: Specification Standard for Stationary Diesel Generator Systems. If the equipment has been type tested according to standards other than 240-62772907: Specification Standard for Stationary Diesel Generator Systems , the tenderer must provide the standards referenced, as well as provide</p>	<p>240-62772907: Specification Standard for Stationary Diesel Generator Systems</p>	Safety

	specifications comparison and proof that their standard meets the minimum requirements of the IEC/SANS standard		
2	<p>All major equipment and devices offered by the tenderer must be of proven technology. Such equipment includes the following:</p> <ul style="list-style-type: none"> • Switchgear • Protection Devices • Data Management and Communication Devices <p>The reference list of equipment offered should indicate the projects on which the technology was implemented, including the names of the clients, the country and the year in which the technology was utilised. The referenced projects must have a minimum duration of five (5) years since installation.</p>		<p>a) Technical Experience.</p> <p>b) Reliability of equipment and devices.</p> <p>c) Warranty reservations.</p>
3	<p>All major equipment and devices offered must be supplied with authorization and consent of the Original Equipment Manufacturers (OEMs) to avoid issues concerning technical support, warranty claims, etc for the duration of the contract.</p> <p>Such equipment includes the following:</p> <ul style="list-style-type: none"> • Switchgear 		Authorisation for the distribution/supply of equipment

	<ul style="list-style-type: none">• Protection Devices• Data Management and Communication Devices <p>If the equipment concerned is manufactured under licence, the tenderer shall provide a proof of licence agreement made with the OEM. The distributors or agents provide a copy of the contract agreement made with the OEM for the distribution of their equipment and the duration of the agreement should match that of the contract.</p>		
	.		

Table 2B: Site visit Technical Evaluation Criteria

#	Mandatory Technical Criteria Description	Reference to Works Information/Tender Returnable	CRITERIA WEIGHTING (%)	MOTIVATION FOR USE OF CRITERIA
1	A site visit of the tenderer workshop/factory must be scheduled	Scheduled site visit	5 = 100% on workshop check sheet 4 = > 80% on workshop check sheet 2 = < 80% on workshop check sheet 0 = <50% on workshop check sheet	Confirmation of the ability to complete the work

The Site visit 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%**.

3.4 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.	Part A: LV Switchgear		Works Information	45	
	1.1	Compliance Schedules			30
	1.2	Technical Schedules	Technical Schedule A and B 240-115583001	<p>5 = 100% from the Tech A& B schedule: Technical schedules and parameters completely compliant with Employer's requirements</p> <p>4 = > 80% from the Tech A& B schedule: Technical schedules and parameters compliant with Employer's requirements with acceptable proposals/risks</p> <p>2 = < 80% from the Tech A& B schedule: Technical schedules and parameters non-compliant with Employer's requirements</p>	20

#	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
				0 = No Technical schedules and parameters submitted – non-responsive	
	1.3	Equipment and system design		<p>5 = Excellent response which demonstrates the ability to deliver the service far more than minimum requirements.</p> <p>4 = Good response detailing clearly how the service will be delivered above and beyond the minimum requirements.</p> <p>2 = Barely adequate levels of required scope proposal.</p> <p>0 = Less than minimum level of required scope proposal or irrelevant.</p>	30
	1.4	Maintenance Schedule			5
	1.5	Detailed design of the protection and control circuits as well as interfacing		5 = Excellent response which demonstrates the ability to deliver the service far more than minimum requirements.	10

#	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
				<p>4 = Good response detailing clearly how the service will be delivered above and beyond the minimum requirements.</p> <p>2 = Barely adequate levels of required scope proposal.</p> <p>0 = Less than minimum level of required scope proposal or irrelevant.</p>	
	1.6	Training			5
2	Part B: Document Management			10	
	2.1	The Tenderer shall submit a CV of a Technician/technologist/Engineer with minimum three years' experience in labelling of plant structures, mechanical, electrical components or similar experience	The tenderer submits: CV's and National diploma/ N. Diploma/Btech//BSc, BEng in (either) mechanical, electrical, civil, C&I, industrial) certificates to be submitted with reference to (Three) 3 completed projects for	<p>5 – COMPLIANT</p> <ul style="list-style-type: none"> Completed compliance schedule Meet the technical requirement(s) AND, No foreseen technical risk(s) in meeting technical requirements <p>4 – COMPLIANT WITH ASSOCIATED QUALIFICATIONS</p>	30%

#	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
			coding of plant structures, systems, and components	<ul style="list-style-type: none"> Completed compliance schedule Meet the technical requirement(s) with, Acceptable technical risks AND/OR; Acceptable exceptions AND/OR; Acceptable conditions <p>2 – NON-COMPLIANT</p> <ul style="list-style-type: none"> Completed compliance schedule Does not meet the technical requirement(s) AND/OR Unacceptable technical risk(s) AND/OR; Unacceptable exceptions AND/OR; Unacceptable conditions <p>0 – TOTALLY DEFICIENT/NON-RESPONSIVE</p>	
	2.2	Document Management (DM) Plan.	The Tenderer to submit:	<p>5 – COMPLIANT</p> <ul style="list-style-type: none"> Completed compliance schedule Meet the technical requirement(s) AND, 	40%

#	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
			<p>A comprehensive DM Plan indicating the following for the project:</p> <ul style="list-style-type: none"> • Documents records management <p>The contractor needs to provide a stipulated handover plan stating when and how they plan submitting documentation to Eskom (Documentation submission during project phase)..</p> <ul style="list-style-type: none"> • CVs of all drafting/CADD resources dedicated to this project (clearly describing their experience in the use of the proposed 3D CADD Design Tools and other tools). <p>Facilitation of DM activities during the project</p>	<ul style="list-style-type: none"> • No foreseen technical risk(s) in meeting technical requirements <p>4 – COMPLIANT WITH ASSOCIATED QUALIFICATIONS</p> <ul style="list-style-type: none"> • Completed compliance schedule • Meet the technical requirement(s) with, • Acceptable technical risks AND/OR; • Acceptable exceptions AND/OR; Acceptable conditions <p>2 – NON-COMPLIANT</p> <ul style="list-style-type: none"> • Completed compliance schedule • Does not meet the technical requirement(s) AND/OR Unacceptable technical risk(s) AND/OR; • Unacceptable exceptions AND/OR; • Unacceptable conditions <p>0 – TOTALLY DEFICIENT/NON-RESPONSIVE</p>	

#	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
2.3	Experience and Background completed on similar project or any project necessitating implementation of Document Management.		<ul style="list-style-type: none"> The Tenderer is to submit examples of executed works demonstrating compliance to Eskom standard. The Tenderer is to submit examples of executed works demonstrating compliance to Eskom standard. Pictures of exact labels done on plant for Electrical, Mechanical or Civil structures. Completion letter from previous client clearly stipulating the completed projects and each projects magnitude. 	<p>5 = Previous work experience demonstrated clearly . Submitted portfolio of evidence detailing all DM requirements. No risk/s identified</p> <p>4 = Previous work experience demonstrated . Submitted portfolio of evidence detailing some DM requirements. Minor risk/s identified</p> <p>2 = Minimal work experience demonstrated . Submitted portfolio of evidence with some DM requirements. Minor risk/s identified</p> <p>0 = No previous work experience demonstrated . No portfolio of evidence submitted.</p>	30%

#	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
				Major risk/s identified	
		Part C: Diesel Generator		45	
3.1	Technical proposal that meets requirements of project scope	<p>Technical proposal to include the following as a minimum:</p> <p>a) Understanding of the scope of work as detailed by the functional specification.</p> <p>b) Tenderer confirm compliance to the full scope of work and Technical Specification for the Works Information. Deviation form to be completed should there be a deviation to technical requirements.</p> <p>Proposed approach and methodology which includes deliverables, and resource plan, however not limited to. Indicate by</p>	<p>5 = Excellent response which demonstrates the ability to deliver the service far more than minimum requirements.</p> <p>4 = Good response detailing clearly how the service will be delivered above and beyond the minimum requirements.</p> <p>2 = Barely adequate levels of required scope proposal.</p> <p>0 = Less than minimum level of required scope proposal or irrelevant.</p>	50%	

#	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
			general design/construction approach and method statements how the contractor will perform the work for each sub-system of the works		
	3.2	Technical Schedules	Tenderer to submit a completed technical Schedule A&B for the Diesel Generator Control System from 240-62772907	5 = 100% from the Tech A& B schedule: Technical schedules and parameters completely compliant with Employer's requirements 4 = > 80% from the Tech A& B schedule: Technical schedules and parameters compliant with Employer's requirements with acceptable proposals/risks 2 = < 80% from the Tech A& B schedule: Technical schedules and parameters non-compliant with Employer's requirements 0 = No Technical schedules and parameters submitted – non-responsive	25%

#	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
	3.3	Design and manufacture	<p>Tenderer to submit experience track record associated with design, manufacture, install and commissioning of Diesel Generator Control System including a mimic panel, synchronising panel completed projects in the last 5 years.</p> <p>N.B. If the tenderer intends to use the Sub-Contract for the design and manufacture of LV Switchgear, the information to be that of the Sub-contractor to be used</p>	<p>5 – COMPLIANT</p> <ul style="list-style-type: none"> • 3X Completed projects with clear scope design, manufacture, install and commissioning. • Meet the technical requirement(s) AND, • No foreseen technical risk(s) in meeting technical requirements <p>4 – COMPLIANT WITH ASSOCIATED QUALIFICATIONS</p> <ul style="list-style-type: none"> • 2X Completed projects with clear scope design, manufacture, install and commissioning. • Meet the technical requirement(s) with, • Acceptable technical risks AND/OR; • Acceptable exceptions AND/OR; <p>Acceptable conditions</p> <p>2 – NON-COMPLIANT</p>	25%

#	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
				<ul style="list-style-type: none"> No Completed projects with clear scope design, manufacture, install and commissioning. Does not meet the technical requirement(s) AND/OR Unacceptable technical risk(s) AND/OR; Unacceptable exceptions AND/OR; Unacceptable conditions 0 – TOTALLY DEFICIENT/NON-RESPONSIVE	
				TOTAL: 100	

3.5 TET MEMBER RESPONSIBILITIES

Table 4: TET Member Responsibilities

Mandatory Criteria Number	1	2	3	4
1	X	X	X	X
2	X	X	X	X
3	X	X	X	X
4	X	X	X	X
Qualitative Criteria Number	1	2	3	4
1	X	X	X	X
2	X	X	X	X
3	X	X	X	X

3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.6.1 Risks

Table 5: Acceptable Technical Risks

Risk	Description
1.	N/A

Table 6: Unacceptable Technical Risks

Risk	Description
1.	N/A

3.6.2 Exceptions / Conditions

Table 7: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	N/A

Table 8: Unacceptable Technical Exceptions / Conditions

Risk	Description
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1.	N/A
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4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation
Doctor Mazeka	Electrical System Engineer
Sihle Tembe	Electrical System Engineer
Mandla Zitha	Electrical System Engineer
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5. REVISIONS

Date	Rev.	Compiler	Remarks
February 2025	1	DTT Mazeka	Compilation of the draft TES Grootvlei Agriculture Facility SOW

6. DEVELOPMENT TEAM

All Technical Evaluation Team Members, as listed in Table 1, were involved with the development of this document.

7. ACKNOWLEDGEMENTS

N/A

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