

Title: **Tender Technical Evaluation
Strategy Report for the Design
and Construction of Electric
Vehicles Charging
Infrastructure System at Sere
Wind Farm**

Unique Identifier: **480/163**

Alternative Reference Number: **N/A**

Area of Applicability: **Generation
Engineering**

Documentation Type: **Report**

Revision: **1**

Total Pages: **15**

Next Review Date: **N/A**

Disclosure Classification: **CONFIDENTIAL**

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1. INTRODUCTION

Eskom Generation (Gx) has initiated a project to replace its Internal Combustion Engine (ICE) fleet of vehicles with Electric Vehicles (EVs). The project objective is to achieve a more sustainable and environmentally friendly transportation system by reducing Eskom's vehicles CO₂ emissions contribution without compromising the respective vehicle requirements. This is planned to be achieved by transitioning from ICE vehicles to EVs and installing charging infrastructure at Gx Power Stations to support the transition.

The introduction of EVs in the Gx space will start with a pilot phase to gather data necessary for performance assessment and cost analysis to ensure success of the EV rollout across the business. The pilot sites for the supply and maintenance of the EV charging infrastructure includes Sere Wind Farm.

This document sets out the method and criteria that will be used to evaluate the tenders for the design, supply and installation of EV charging infrastructure at Sere Wind Farm.

2. SUPPORTING CLAUSES

2.1. SCOPE

The scope of this document is to capture the technical tender evaluation strategy for the design, supply, installation, and maintenance of EV charging infrastructure (excluding chargers) at Sere Wind Farm. Charging infrastructure comprises the charging station and its power supply system with the associated Civil Infrastructure.

Mandatory and qualitative evaluation criteria will be used to evaluate tenders for each site.

No changes will be permitted to be made to the evaluation criteria once the Technical Evaluation Strategy report has been authorised.

2.1.1 Purpose

The purpose of this document is to define the technical evaluation criteria as well as the roles and responsibilities of the Technical Evaluation Team (TET) members.

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

- Mandatory Evaluation Criteria
- Qualitative Evaluation Criteria
- TET Member Responsibilities
- Acceptable/Unacceptable Qualifications

2.1.2 Applicability

This document applies to Sere Wind Farm.

2.2. NORMATIVE/INFORMATIVE REFERENCES

Parties using this document shall apply the most recent edition of the documents listed in the following paragraphs.

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2.2.1. Normative

- [1] 240-168966153: Generation Technical Tender Evaluation Procedure
- [2] 474-13553: Technical Specification for the Procurement of EV Charging Infrastructure at Koeberg PS, Matimba PS, Komati PS, Lethabo PS and Sere PS
- [3] 32-345 Eskom Vehicle Safety Specification.
- [4] NEC Contract for the Supply and Maintenance of EVs.

2.2.2. Informative

- [5] 474-13215: Required Operational Capability Report for Gx Fleet Electric Vehicle Project.
- [6] 474-13306: Generation Fleet Electric Vehicle Project Engineering Management Plan.
- [7] 474-13316: Stakeholder Requirements Definition for Gx Fleet Electric Vehicle Project.
- [8] 474-13433 Power Stations Prioritization, Vehicles and Charger Selection and Site Scope of Work for the Pilot Phase of the Generation Electric Vehicle Project.

2.3. DEFINITIONS

Definition	Description
Battery Electric Vehicles	Vehicles that run solely on electricity and rely on rechargeable batteries for power with zero emissions.
Charging Infrastructure	A system of charging stations or facilities to recharge electric vehicles
Electric Vehicles	Vehicles that use electricity as a source of power and electric motors for moving.
Plug-in Hybrid Electric Vehicles	Vehicles that can be charged via an external power source and have both an electric motor and an internal combustion engine.

2.3.1. Disclosure 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
BEV	Battery Electric Vehicle
CCS	Combined Charging System
CO ₂	Carbon Dioxide
DC	Direct Current
EDWL	Engineering Design Work Lead
EV	Electric Vehicle
GHG	Green House Gas
Gx	Generation Business

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Abbreviation	Description
ICE	Internal Combustion Engine
km	Kilometre
LDV	Light Duty Vehicle
OHS	Occupational Health and Safety
PS	Power Station
ROC	Required Operational Capability
SOC	State of Charge
TET	Technical Evaluation Team

2.5. ROLES AND RESPONSIBILITIES

Roles and responsibilities shall be as per “240-168966153: Tender Technical Evaluation Procedure”, summarised below:

Work Lead (WL)/Compiler: The WL is responsible to manage the execution and adherence to this procedure. The WL compiles the technical evaluation reports with input from respective TET members.

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 Tender Technical Evaluation Strategy. Furthermore, the TET compiles a report detailing the findings of the evaluation for the respective tenders on the allocated area of responsibility as highlighted in Table 5; this is mandatory responsibility for each TET member. The report should also highlight major areas of compliance and non-compliance, risks, points to be considered for negotiations etc. in accordance with the “240-168966153: Tender Technical Evaluation Procedure”. Where possible, one consolidated report will be acceptable per functional area, however the report should be supported by the respective TET member score sheets.

Functional Responsibility: The Functional Responsible Person shall determine if the document is fit for purpose before the document is submitted for authorisation.

Authoriser: The document authoriser is a duly delegated person with the responsibility to review the document for alignment to business strategy, policy, objectives and requirements. He/she shall authorise the release application of the document.

2.6. PROCESS FOR MONITORING

As per 240-168966153: Generation Technical Tender Evaluation Procedure

2.7. RELATED/SUPPORTING DOCUMENTS

N/A

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3. TENDER TECHNICAL EVALUATION STRATEGY

3.1. TECHNICAL EVALUATION METHOD

A two stage Technical Evaluation Strategy is set out.

Stage 1:

All TET members as defined in the Tender Technical Evaluation Strategy (and specifically TET member responsibilities) shall independently evaluate each tender in terms of compliance to the defined Mandatory Evaluation Criteria. Each TET member shall provide an individual scoring form on the compliance / non-compliance of all tenderers' responses to the Mandatory Evaluation Criteria. Each TET member shall provide clear justification(s) for each Mandatory Criteria evaluated as non-compliant ('NO'). All individual scoring forms shall be evaluated by the EDWL to check for consistency in scoring of the Mandatory Evaluation Criteria. Should the EDWL find inconsistency in the scoring, an internal clarification meeting shall be conducted with all TET members as defined in document 240-168966153: Generation Technical Tender Evaluation Procedure. The scoring form shall be verified and signed by the EDWL.

Stage 2:

Tenderers that have met all the Mandatory Evaluation Criteria shall be evaluated against the Qualitative Criteria as defined in the Tender Technical Evaluation Strategy. The scoring of qualitative criteria shall be based on the degree of achievement by the tenderer to meet the technical requirements. A score shall be allocated as per Table 1: Scoring Method for Qualitative Evaluation Criteria, for each technical qualitative criterion. Each TET member shall populate a Tender Technical Evaluation Scoring Form for each tenderer. Note: Individual Qualitative Criteria scores shall only be finalised after all clarification sessions have been concluded. The scoring form shall be verified and signed by the EDWL.

A weighted score-card approach is used to evaluate the technical compliance of the tenders against the specifications and Employer's requirements. Tenderers need to have a weighted score of 70% overall or more to technically qualify for further evaluation.

The scoring method will be as follows:

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Table 1: Scoring Method for Qualitative Technical Evaluation Criteria

Score	%	Definition
5	100	COMPLIANT Meet technical requirement(s) AND No foreseen technical risk(s) in meeting technical requirement(s).
4	80	COMPLIANT WITH ASSOCIATED QUALIFICATIONS Meet technical requirement(s) with: <ul style="list-style-type: none"> Acceptable technical risk(s) AND/OR Acceptable exceptions AND/OR Acceptable conditions.
2	40	NON-COMPLIANT Does not meet technical requirement(s) with: <ul style="list-style-type: none"> Unacceptable technical risk(s) AND/OR Unacceptable exceptions AND/OR Unacceptable conditions.
0	0	TOTALLY DEFICIENT OR NON-RESPONSIVE
<p>Note 1: The scoring table does not allow for scoring of 1 and 3.</p> <p>Note 2: Foreseen acceptable and unacceptable risk(s), exceptions and conditions shall be unambiguously defined in the relevant Tender Technical Evaluation Strategy.</p>		

3.2. TET MEMBERS

The following Evaluation Team Members have been appointed to perform evaluations.

Table 2: TET Members

TET number	TET Member Name	Designation
TET 1	Marubini Manyage	Chief Engineer Electrical - EDWL
TET 2	Freeman Chiranga	Senior Engineer Prof Engineering - LDE Electrical
TET 3	Riaan Venter	Chief Engineer Civil – LDE Civils
TET 4	Francois Dragner	Senior Technologist - Sere Wind farm
TET 5	Reggie Chippe	Site Project Manager – Sere Wind farm
TET 6	Abraar Dustay	Snr Technician Engineering – Sere Wind Farm
TET 7	Yaron Truter	Manager Projects Services

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3.3. MANDATORY TECHNICAL EVALUATION CRITERIA

In accordance with 240-168966153, an assessment of 'NO' against criterion 1 to 2 in Table 3 shall disqualify the assessed tenderer from further Qualitative Evaluation.

Table 3: Mandatory Technical Evaluation Criteria

Ref #	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for use of Criteria
1.	<p>Relevant experience (track record) – as the main contractor: (Design, Supply, Installation and Commissioning of Electric Vehicle Charging Infrastructure or similar electronic equipment such as UPS, Rectifiers).</p> <p>The main contractor has cable reticulation and switchgear design & construction work.</p> <p>The tenderer submits a list of traceable references and completion certificates that adequately proves that the tenderer has completed two (2) contracts successfully of similar scope in the last seven (7) years.</p>	<p>Experience to be relevant to the Works Information</p> <ul style="list-style-type: none"> Name of Client for whom project was executed Project description Construction period Contract value Contact person <p>Completion certificates for at least two (2) contracts completed in the last seven (7) years.</p>	<p>The reference work demonstrates the tenderer's capability to execute the Works. The tenderer must provide a reference list of relevant projects and / work as per the provided template.</p>
2.	<p>Provide a letter of Intent indicating the Tenderer's compliance with the full scope of work as well as, all relevant standards (e.g., SANS, IEC, etc.) detailed in the Works Information.</p>	<p>As per Employers Specification of the Works Information and Scope of Works.</p> <p>Tender Returnable is a letter as per Criteria Description.</p>	<p>Contractor to demonstrate that the understanding of the full scope of work envisaged.</p>
3.	<p>Registration with the Department of Labour as an Electrical Contractor</p>	<p>Electrical Installation Regulations Section 6.</p> <p>Valid Dept of Labour Electrical Contractor Registration Certificate</p>	<p>Electrical Contractors are required by Law to be registered with the Department of Labour</p>

3.4. QUALITATIVE TECHNICAL EVALUATION CRITERIA

In accordance with 240-168966153, each Tenderer which has met all the Mandatory Evaluation Criteria will be evaluated against the Qualitative Evaluation Criteria defined in respective Tables below. The scoring of qualitative criteria shall be based on the degree of achievement by the tenderer to meet the technical requirements defined in the Technical Schedule A&B and Technical Specification document 474-13555.

Each item shall have the specific sub-weighting criteria. The minimum weighted final score (threshold) required for each tendered design to be considered FUNCTIONALLY ACCEPTABLE from a technical perspective is 70%.

Table 4: Qualitative Technical Evaluation Criteria

Criteria Ref #	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
1	Civil and Structural		Technical Schedule	45	
	1.1	Detailed Method Statements (Construction Approach) & Construction Quality Assurance in the form of a Quality Control Plan listing interventions for specific activities: The Method Statements and Quality Control Plans shall clearly provide details of the construction method to be adopted to execute the Civil Works portion.	As per Employers Specification of the Works Information and Scope of Works. Tender Returnable is Method Statement as per Criteria Description.		70
	1.2	Provide the CV of the Professionally Registered Civil Engineer who will be responsible for the Civil Design.	As per Employers Specification of the Works Information and Scope of Works.		15
	1.3	Provide the CV of the Site Supervisor.	Supervisor to have a minimum of 2 years' experience in similar related Works.		15
2	Electrical		Technical Schedule	45	
	2.1	LV Reticulation basic design. (LV cable and protection design).	Technical Schedule A&B.		70

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Design and Construction of Electric Vehicles
Charging Infrastructure at Sere Wind Farm**

Unique Identifier: **474-13555**

Revision: **3**

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Criteria Ref #	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
	2.2	Basic Design proposal submitted by the Tenderer outlining the integrated LV switchgear system offered.	LV Design documentation supporting the Scope of work and Technical Specifications. Technical Schedule A & B, Switchgear Design Documentation: General layouts Drawings, Typical Schematics, Data sheets, LV Switchgear components: Cable, terminations, MCCB's etc, and how it will be applied to the plant.		10
	2.3	Provide the CV of the Professionally Registered Electrical Engineer who will be responsible for the Electrical Design.	ECSA Certificate and CV with MV and/or LV switchgear & cable work experience.		20
3	Project Management		Technical Schedule	10	
	3.1	High-level programme for the project	Programme The Contractor shall submit a programme of works. The programme shall address all aspects of the scope including (but not limited to) design, manufacturing, fabrication, construction, commissioning, and handover of the charging infrastructure.		80
	3.2	Project Organogram: The Tenderer is to submit the organisational structure (site based as well as head office based) of the key staff members for this project.	As per Employers Specification of the Works Information and Scope of Works. Tender Returnable for this criterion is a Project organogram.		20
				TOTAL: 100	

3.5. TET MEMBER RESPONSIBILITIES

Each TET member will review and evaluate each item as shown in Table 5.

Table 5. TET Member Responsibilities for Sere Wind Farm

Mandatory Criteria Number	TET 1	TET 2	TET 3	TET 4	TET 5	TET 6	TET 7
1	X	X	X	X	X		X
2	X	X	X	X	X		X
3	X	X	X	X	X		X
Qualitative Criteria Number	TET 1	TET 2	TET 3	TET 4	TET 5	TET 6	TET 7
1	X	X	X		X	X	X
2	X	X	X	X	X		X
3	X	X	X	X	X	X	X

3.6. FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.6.1. Risks

Table 6: Acceptable Technical Risks

Risk	Description
1.	Item 1.1. Tenderer will score a 4 for this item should the following apply. List some of the activities to be undertaken during construction.
2.	Item 1.2 and Item 2.2. Tenderer will score a 4 for this item should the following apply. Experience between 2 and 5 years of relevant work on similar projects.
3.	Item 3.2. Tenderer will score a 4 for this item should the following apply. Project Organogram submitted including roles and names of the key resources but does not clearly indicate duties and responsibilities of the key resources OR does not indicate duties and responsibilities in the case of an association/joint venture/consortium.

Table 7: Unacceptable Technical Risks

Risk	Description
1.	Item 1.1. Tenderer will score a 2 for this item should the following apply. Provide a generic Method Statement.
2.	Item 1.2 and Item 2.2. Tenderer will score a 2 for this item should the following apply. Experience of less than 2 years of relevant work on similar projects.
3.	Item 3.2. Tenderer will score a 2 for this item should the following apply. Project Organogram submitted but does not clearly indicate role and name of the key resources
4.	Deviating from Eskom's cables and LV protection Standards and Specifications.

3.6.2. Exceptions/Conditions

Table 8: Acceptable Technical Exceptions/Conditions

Risk	Description
1.	Declining to provide technical details accurately deemed intellectual proprietary.
2.	Mandatory 2: Deviations acceptable if it's an improvement to the works information.

Table 9: Unacceptable Technical Exceptions/Conditions

Risk	Description
1.	Failure to provide documents for assessing compliance with mandatory technical evaluation criteria.
2.	Mandatory 2: Deviations that reduce the scope of work.

4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation
Deon van der Merwe	Operations and Maintenance Manager: Sere Wind Farm
Riaan Venter	Chief Engineer Civil
Francois Dragner	Senior Technologist - Sere Wind Farm
Reggie Chippe	Site Project Manager – Sere Wind Farm
Abraar Dustay	Snr Technician Engineering – Sere Wind Farm
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5. REVISIONS

Date	Rev.	Compiler	Remarks
May 2025	0.1	R.Chippe	First Draft Issue for Review by Stakeholders
July 2025	0.2	R.Chippe	Final Draft after Comments Review Process
Aug 2025	1	Y.Truter	Final Document for Authorisation and Publication

6. DEVELOPMENT TEAM

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

- Freeman Chiranga – LDE Electrical
- Riaan Venter – LDE Civils
- Marubini Manyage - EDWL

7. ACKNOWLEDGEMENTS

- None