Eskom	Strategy	Engineering

Title:	**Lethabo Power Station Electric Vehicles Charging Infrastructure Project Technical Evaluation Strategy Report**	Unique Identifier:	**375-172934**
		Alternative Reference Number:	**N/A**
		Area of Applicability:	**Engineering**
		Documentation Type:	**Strategy**
		Revision:	**1.0**
		Total Pages:	**17**
		Next Review Date:	**N/A**
		Disclosure Classification:	**CONTROLLED DISCLOSURE**

Compiled by	Functional Responsibility	Authorised by
.....	.....	.....
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Electrical Engineer	**Electrical Engineering Manager**	**Engineering Manager**
Date: 2025/09/30	Date: 2025-09-30	Date: 2025-10-03

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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 are Koeberg, Matimba, Komati, Lethabo Power Stations and 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 electrical reticulation scope including modification of existing car parking bays at Lethabo Power Stations.

The purpose of this document is to develop the mandatory and qualitative technical evaluation criteria, which will be used to evaluate/assess the tender submissions made by all tenderers.

2. SUPPORTING CLAUSES

2.1 SCOPE

The scope of this document is to capture the technical tender evaluation strategy for the design, supply and installation of electrical reticulation scope including modification of existing car parking bays at Lethabo Power Station. The electrical reticulation comprises of a modification of the identified feeder circuit on the 380V Low Voltage Board, provision of power cables and cable racks and provision of electrical junction box and terminations.

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 a basis for the tender technical evaluation process.

2.1.2 Applicability

This document will apply to all appointed resources involved in the technical tender evaluation and Lethabo 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] ISO 9001 Quality Management Systems

[3] 32-1034 Eskom Procurement Policy

[4] 375-172862 Lethabo Power Station Electric Vehicles Pilot Project Charging Infrastructure Technical Specification Report

[5] 32-345 Eskom Vehicle Safety Specification.

2.2.2 Informative

[6] 240-53113685: Design Review Procedure

[7] 240-53114026: Project Engineering Change Management Procedure

[8] 240-53114002: Engineering Change Management Procedure

[9] 474-13553: Technical Specification for the Procurement of EV Charging Infrastructure at Koeberg PS, Matimba PS, Komati PS, Lethabo PS and Sere PS.

[10] 474-13215: Required Operational Capability Report for Gx Fleet Electric Vehicle Project.

[11] 474-13306: Generation Fleet Electric Vehicle Project Engineering Management Plan.

[12] 474-13316: Stakeholder Requirements Definition for Gx Fleet Electric Vehicle Project.

[13] 474-13433 Power Stations Prioritization, Vehicles and Charger Selection and Site Scope of Work for the Pilot Phase of the Generation Electric Vehicle Project.

[14] 474-13555 Tender Technical Evaluation Strategy Report for the Procurement of Electric Vehicles Charging Infrastructure at Koeberg PS, Matimba PS, Komati PS, Lethabo PS and Sere Wind Farm

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
Contractor/Tenderer	Refers to the company/supplier appointed to perform the works
Employer	Refers to Eskom Holdings State Owned Company
Electric Vehicles	Vehicles that use electricity as a source of power and electric motors for moving.
Eskom Plant Engineering	Refers to the Eskom Engineering team who will perform the reviews and provide technical assistance for the work performed by the appointed Contractor.

Definition	Description
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.
Specification	The document/s forming part of the contract in which the methods of executing the various items of work to be done is described, as well as the nature and quality of the materials to be supplied and it includes technical schedules and drawings attached thereto as well as all samples and patterns
The Client	The end user will be Eskom who will be represented by Lethabo Power Station throughout the duration of the Project.

2.3.1 Classification

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

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
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

As per Tender Technical Evaluation Procedure [1].

2.6 PROCESS FOR MONITORING

N/A

2.7 RELATED/SUPPORTING DOCUMENTS

N/A

3. TENDER TECHNCIAL EVALUTION STRATEGY

3.1 TECHNICAL EVALUATION METHOD

The basic steps for a technical evaluation must be followed as per the Tender Technical Evaluation Procedure [1].

A two stage Technical Evaluation Strategy is set out.

Stage 1: 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. An assessment of 'No' against any criterion shall technically disqualify the tenderer and the tenderer shall not be further evaluated against Qualitative Criteria.

Stage 2: 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 evaluation of the tender submission will be based on the tenderer's ability to meet the technical requirements for the project. A weighted scorecard approach is used to evaluate the technical compliance of the tenders against the specifications.

The scoring method will be as follows:

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**

The evaluation scores will be weighted as follows:

Engineering (100%)	
Experience	15%
Civil & Structural Engineering	20%
Electrical Engineering	50%
Project Management	15%
TOTAL (100%)	
Overall minimum threshold for qualification (70%)	

3.2 TECHNICAL EVALUATION THRESHOLD

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

3.3 TET MEMBERS

Table 1: TET Members

TET number	TET Member Name	Designation
TET 1	David Kunene	Electrical Senior Technologist, ERE
TET 2	Ntebaleng Maidi	System Engineer, Electrical Engineering
TET 3	Suven Govender	Civil Engineer: Outside Plant Engineering
TET 4	Itumeleng Mogane	Civil Engineer, Outside Plant Engineering
TET 5 (Optional)	Lauritz Clasen	Senior Engineer, Design and Specification
TET 6 (Optional)	Freeman Chiranga	Senior Engineer, Generation Engineering

3.4 MANDATORY TECHNICAL EVALUATION CRITERIA

Table 2: Mandatory Technical Evaluation Criteria

	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for use of Criteria
1.	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.	As per Employers Specification of the Works Information and Scope of Works.	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.

3.5 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 (%)	Evaluation Scoring Breakdown			
					0	2	4	5
2.	**Experience**		**15**					
2.1	Relevant experience (track record) – as the main contractor: (Design, Supply, Installation and Commissioning of electrical systems including pulling, and termination of cables. The main contractor or subcontractor has cable reticulation and switchgear design & construction work experience. 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 Ten (10) years.	Experience to be relevant to Section 3 of the Work Information ▪ Name of Client for whom project was executed; ▪ Project description; ▪ Construction period; ▪ Contract value; ▪ Contact person and details; ▪ Completion certificates for at least one contract completed in the last ten years.		100	No work done on previous projects of similar scope or no submission made	Work conducted on 1 -2 projects of similar scope	Work conducted on 3 projects of similar scope	Work conducted on more than 3 projects of similar scope
3.	**Civil & Structural Criteria**		**20**					

3.1	High-level method statement detailing the design and construction methodology, which is in compliance to the full scope and describes how the scope will be executed. High-level design and construction method statement, will include the following as a minimum: ▪ Proposed plant, equipment and tools. ▪ Demolition activities considered. ▪ Methodology for designing the concrete plinth ▪ Foreseen risks and concerns. ▪ Required temporary works (if any).	High-level method statement detailing the design and construction methodology.		60	No submission made	Method Statement reiterates the Employer's scope of works OR Method statement submitted illustrates less than two of the minimum requirements	Method statement describes how the scope will be met and illustrates three or more, but not all of the minimum requirements	Method statement details fully how scope will be met and illustrates all the minimum requirements
3.2	The key resource of the project team must be professionally registered with ECSA as a Civil Engineer or Civil Engineering Technologist.	Valid ECSA professional registration certificate for the civil engineer/technologist		20	No submissions made Or	-	-	Valid ECSA professional registration certificate

	A valid ECSA registration certificate for the key resource must be provided. If the key resource is not directly employed by the main contractor, a letter of intent which is signed by both the main contractor and the key resource must be provided to confirm that the key resource will be a part of the project team for the duration of the project. An employment contract/agreement between the main contractor and the key resource will also be acceptable.				Letter of intent not submitted and/or not signed by both parties.			
3.3	Tenderer to submit the CV of the Professionally Registered Civil Engineer/technologist who will be responsible for the Civil Design. Civil engineer/technologist is to have 5 years design experience in structural steel and/or concrete works.	CV for the civil engineer/technologist demonstrating design experience		20	No submissions made Or Letter of intent not submitted and/or not signed by both parties.	Less than 5 years relevant experience for civil engineer or technologist	5 years relevant experience for civil engineer or technologist	More than 5 years relevant experience for civil engineer or technologist
4.	**Electrical**		**50**					

4.1	LV Reticulation basic design. (LV cable and protection design).	Item 9 and Item 10 of Technical Schedule A&B		40				
4.2	Provide the CV of the Professionally Registered Electrical Engineer or Technologist who will be responsible for the Electrical Design.	ECSA Certificate and CV with MV and/or LV switchgear & cable work experience		20				
5.	**Project Management**		**15**					
5.1	High-level programme for the project	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 electrical reticulation scope including modifications on existing car parking bays.		80				

5.2	Project Organogram: The Tenderer is to submit the organisational structure (site based as well as head office based) of the key staff members.	As per Employers Specification of the Works Information and Scope of Works. Tender Returnable for this criterion is a Project organogram.		20				
			TOTAL: 100					

3.6 TET MEMBER RESPONSIBILITIES

Table 4: TET Member Responsibilities

Qualitative Criteria Number	TET 1	TET 2	TET 3	TET 4	TET 5	TET 6
2.1	X	X			X	X
3.1			X	X		
3.2			X	X		
3.3			X	X		
4.1	X	X			X	X
4.2	X	X			X	X
5.1	X	X	X	X	X	X
5.2	X	X	X	X	X	X

3.7 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.7.1 Risks

Table 5: Acceptable Technical Risks

Risk	Description
1.	Proposing Standards and Procedures (motivated in detail) other than the specified Standards and Procedures in the Technical Specifications

Table 6: Unacceptable Technical Risks

Risk	Description
1.	Non-compliance or deviation with sections of the scope of work and standards without adequate explanation or alternatives
2.	Exclusions of scope specified in the Scope of Works
3.	The contractor's approach is generic and not tailored to address the specific project objectives and requirements. The approach does not consider all the critical characteristics of the work
4.	The Contractor does not show a full understanding of the scope of work
5.	The inadequate experience level of the Contractor to perform such works
6.	Change of Sub-Contractors after Tender award

3.7.2 Exceptions / Conditions

Table 7: Acceptable Technical Exceptions / Conditions

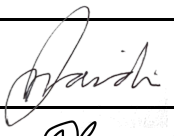
Risk	Description
1.	Declining to provide technical details accurately deemed intellectual proprietary.

Table 8: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	Deviations to any part of the technical specifications without providing alternate solutions
2.	The technical proposal/method statement is generic, incomplete and not tailored to address the specific project objectives, scope and constraints. It does not deal with the critical constraints and hazards of the project.
3.	Failure to provide documents for assessing compliance with mandatory technical evaluation criteria.
4.	Mandatory 2: Deviations that reduce the scope of work.

4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation	Signatures
Suven Govender	Lethabo Power Station, Civil Engineer	
Itumeleng Mogane	Lethabo Power Station, Civil Engineer	
David Kunene	Electrical Senior Technologist, ERE	
Ntebaleng Maidi	System Engineer, Electrical Engineering	
Lauritz Clasen	Senior Engineer, Design and Specification	

5. REVISIONS

Date	Rev.	Compiler	Remarks
September 2025	1	Ntebaleng Maidi	Document modified specifically for Lethabo Power Station.

6. DEVELOPMENT TEAM

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

- Suven Govender
- David Kunene
- Ntebaleng Maidi
- Lauritz Clasen

7. ACKNOWLEDGMENTS

- TET Members