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CONTENTS

Page

1. INTRODUCTION 3

2. SUPPORTING CLAUSES 3

2.1 SCOPE 3
2.1.1 Purpose 4
2.1.2 Applicability 4
2.2 NORMATIVE/INFORMATIVE REFERENCES 5
2.2.1 Normative 5
2.2.2 Informative 7
2.3 DEFINITIONS 7
2.3.1 Classification 8
2.4 ABBREVIATIONS 8
2.5 ROLES AND RESPONSIBILITIES 9
2.6 PROCESS FOR MONITORING 9
2.7 RELATED/SUPPORTING DOCUMENTS 10

3. TENDER TECHNICAL EVALUATION STRATEGY 10

3.1 TECHNICAL EVALUATION METHOD 10
3.2 TECHNICAL EVALUATION THRESHOLD 11
3.3 TET MEMBERS 11
3.4 MANDATORY TECHNICAL EVALUATION CRITERIA 12
3.5 QUALITATIVE TECHNICAL EVALUATION CRITERIA 15
3.6 TET MEMBER RESPONSIBILITIES 21
3.7 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS 22
3.7.1 Risks 22
3.7.2 Exceptions / Conditions 23

4. AUTHORISATION 24

5. REVISIONS 24

6. DEVELOPMENT TEAM 24

7. ACKNOWLEDGEMENTS 24

TABLES

Table 1: TET Members 11
Table 2: Mandatory Technical Evaluation Criteria 12
Table 3: Qualitative Technical Evaluation Criteria 15
Table 4: TET Member Responsibilities 21
Table 5: Acceptable Technical Risks 22
Table 6: Unacceptable Technical Risks 22
Table 7: Acceptable Technical Exceptions / Conditions 23
Table 8: Unacceptable Technical Exceptions / Conditions 23

1. INTRODUCTION

This Tender Technical Evaluation Strategy has been developed for the procurement associated with the 11kV Overhead Lines Replacement Project at Kriel Power Station (Project Ref. No: C. GKR0885). This project aims to address performance and safety deficiencies in the station's aging 11 kV overhead infrastructure and involves the replacement of critical line components including poles, conductors, insulators, and protection systems. The strategy ensures that technical evaluation of tenders submitted for the works aligns with Eskom's technical, safety, and operational requirements and that the most competent and compliant tenderers are recommended for contract award.

The preferred solution involves constructing a completely new 11 kV overhead line using Kingbird conductor, which will significantly improve reliability, capacity, and safety while ensuring compliance with modern standards and supporting Kriel Power Station's long-term operational requirements.

2. SUPPORTING CLAUSES

2.1 SCOPE

This document defines the technical evaluation strategy for the tender process related to the Kriel Power Station 11 kV Overhead Lines Replacement project. It covers the design, procurement, construction, installation, testing, commissioning, and handover of the new 11 kV overhead lines infrastructure.

Scope of Work Includes:

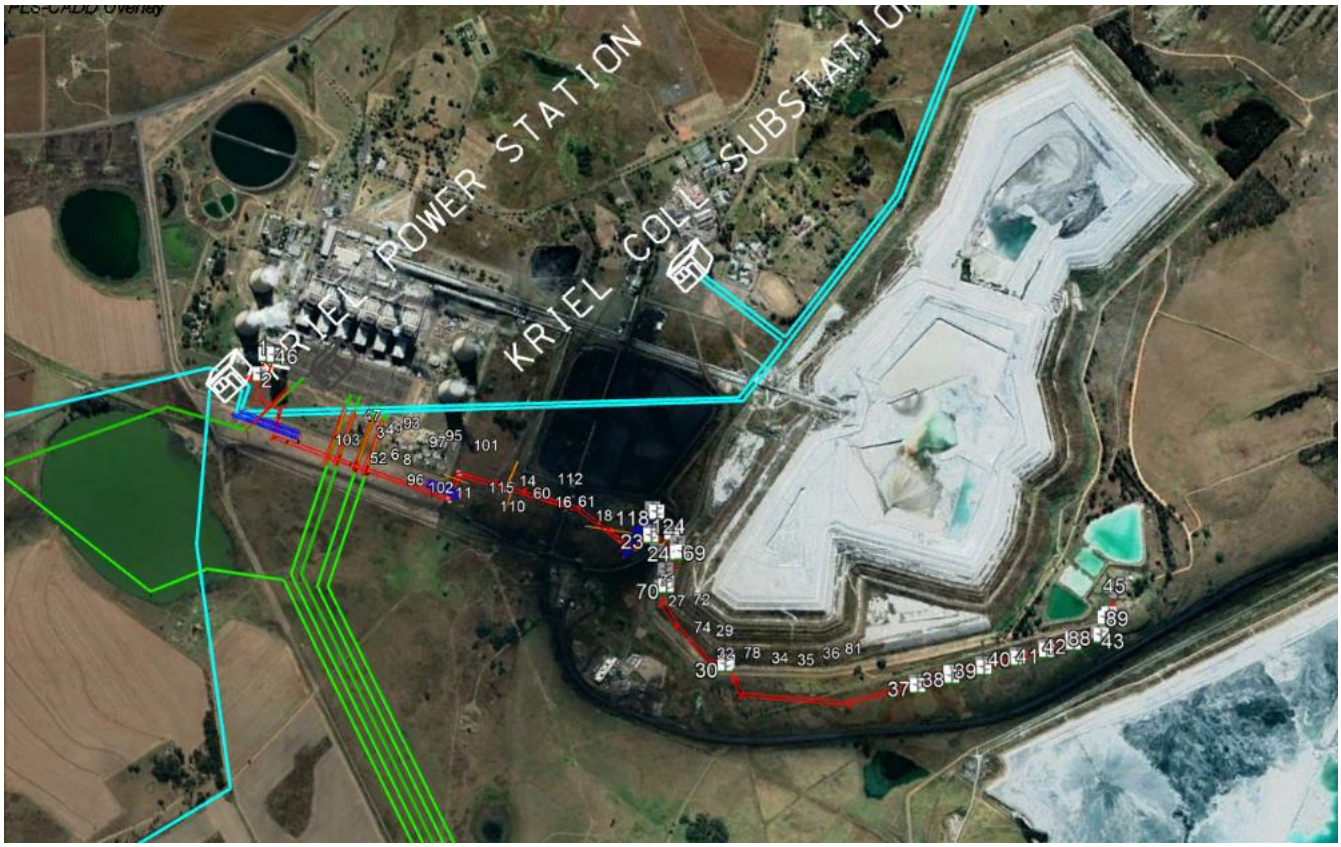
- Full replacement and dismantling of the existing 11 kV OHL at Kriel Power Station, encompassing all associated civil, electrical, and environmental activities.
- Construction of an 11 km Kingbird 11 kV line from the Station Boards Substation medium voltage (MV) feeder bay to the Ash Water Return (AWR) and Ash Conveyor substations.
- Installation of shield wire on structures not intersecting high voltage (HV) lines.
- Cable installation works.
- Integration with existing plant systems.

Construction and Installation Procedure:

- Obtain wayleave approvals from Transmission for all 400 kV line crossings before commencing any work.
- Conduct geotechnical investigations for all proposed structure locations.
- Construct pole foundations in accordance with the specified soil classifications.
- Construct stay foundations based on the designated soil types, including installation of stay stubs. Perform proof load testing on the stays and submit results to the Design Engineer.
- Fully assemble and dress all structures while they are still on the ground.
- Erect temporary crossing structures (goalposts) at medium-voltage (MV) crossing points.
- Remove temporary crossing structures after conductor stringing is completed.
- Erect and string approximately 8.8 km of Kingbird conductor on the installed structures.
- Schedule and utilize outages for stringing across high-voltage (HV) and MV lines.
- Do not install shield wire on sections that pass beneath Transmission lines.

- Perform tower footing resistance tests for each pole stub before installing crow foot earthing. If the required resistance is not achieved, install a crow foot to meet specifications.
- Verify line phasing and proceed with energization.

Figure 1: Overview of Kriel Power Station 11 kV Overhead Line routing



2.1.1 Purpose

The purpose of this tender technical evaluation strategy is to define the Mandatory Evaluation Criteria, Qualitative Evaluation Criteria, and tender evaluation team (TET) members responsibilities for tender technical evaluation of the Kriel Power Station 11 kV Overhead Lines Replacement project. The technical evaluation strategy serves as the basis for the tender technical evaluation process to ensure selection of the most technically competent contractor capable of delivering a high-quality, safe, and reliable electrical infrastructure upgrade.

2.1.2 Applicability

This document applies specifically to the Kriel Power Station 11 kV Overhead Lines Replacement project (C. GKR0885) within the Generation Division. It is applicable to all technical evaluation team members, procurement personnel, project management team, and stakeholders involved in the contractor selection process

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] 240-48929482: Tender Technical Evaluation Procedure for Transmission and Distribution

[3] OHSA Occupational Health and Safety Act 85 of 1993

[4] Fencing Act Fencing Act No 31 of 1963 as amended.

[5] SAISC South African steel construction handbook

[6] NEMA National Environmental Management Act No. 107 of 1998

[7] ECCS Recommendations for angles in lattice transmission towers, No. 39.

[8] SANS 282 Bending dimensions of bars for concrete reinforcement.

[9] SANS 1089:1991 Round wire concentric lay overhead electrical stranded conductors

[10] SANS 471:1971 Portland cement (ordinary, rapid-hardening and sulphate-resisting).

[11] SANS 60815-1:2009 Selection and dimensioning of high voltage insulators intended for use in polluted conditions

[12] SANS 626:1971 Portland blast furnace cement.

[13] SANS 675:2009 Zinc-coated fencing wire.

[14] SANS 121:2011/

[15] (ISO 1461:2009) Hot dip galvanised coatings on fabricated iron and steel articles specifications and test methods

[16] SANS 831:1971 Portland cement 15 (ordinary and rapid hardening).

[17] SANS 920:1985 Steel bars for concrete reinforcement.

[18] SANS 1083:1976 Aggregates from natural sources.

[19] SANS 1491-1:1989 Portland cement extenders, Part 1: Ground granulated blast furnace slag.

[20] SANS 1491-2:1989 Portland cement extenders, Part 2: Fly ash.

[21] SANS 1491-3:1989 Portland cement extenders, Part 3: Condensed silica fume.

[22] SANS 1466:1988 Portland fly ash cement

[23] SANS 2001-CC1:2012 Concrete works (structural)

[24] SANS 2001-CC2:2012 Concrete works (Minor works)

[25] SANS 10100-1:1992 The structural use of concrete. Part 1: Design.

[26] SANS 10100-2:1992 The structural use of concrete, Part 2: Materials and execution of work.

[27] SANS 10144:1978 Detailing of steel reinforcement for concrete.

[28] SANS 10162-1:1993 The structural use of steel, Part 1: Limit-state design of hot-rolled steelwork.

[29] SANS 10162-2:1993 The structural use of steel, Part 2: Limit-states design of cold-formed steelwork.

[30] SANS 10162-3:1993 The structural use of steel, Part 3: Allowable stress design steelwork.

[31] SANS 10280-1:2013 Overhead power lines for conditions prevailing in South Africa

[32] SANS 5861-1 to 4: 2006 Concrete Tests: Making, mixing Curing and sampling

[33] SANS 5862-1 to 4: 2006 Slump of freshly mixed concrete.

[34] SANS 5863: 2006 Compressive strength of concrete (including making and curing of the test cubes).

[35] Agriculture Bulletin 399 Department of Agriculture Bulletin No. 399 ISBN0621082589, A primer on soil conservation.

[36] SANS 61089 IEC: Round wire concentric lay overhead electrical stranded conductors

[37] SANS 50025 parts 1 to 6 Hot rolled products of structural steels

[38] SANS 1200 A to F series Civil Engineering Construction Aspects

[39] 240-56364545 Structural Design and Engineering Standard

[40] 240-57127951 Standard for the Execution of site investigations

[41] 240-57127953 Execution of Site Preparation and earthworks

[42] 240-57127955 Geotechnical and Foundation Engineering Standard

[43] 240-56355754 Field Instrument Installation Standard

[44] 240-56227443 Requirements for Control & Power Cables for Power stations Standard

[45] 240-56356396 Earthing and Lightning Protection

[46] 240-56357424 MV and LV Switchgear Protection Standard

[47] 240-56030635 General Requirements for Medium Voltage Cable Systems

[48] 240-56227573 AC Metal Enclosed (Metal clad) and Control Gear for voltages above 1kV up to 52kV Standard

[49] ISO 9001 Quality Management Systems.

[50] 240-147806256 Determination of Conductor Ratings in Eskom

[51] 240-75883906 Medium Voltage Reticulation Section 0: General Information and Requirements for Overhead Lines Up To 33kv Standard

[52] 240-75883148 Conventional Stay Planting and Compaction, Pole Planting and Compaction and Rock Anchor Installation and Testing Standard

[53] 240-47172520 The Standard for The Construction of Overhead Powerlines (Trmscaac5.2) Eskom Distribution Upgrade of Kriel Power Station 11 kV Overhead Lines 11kV Kingbird line (Vol. 1-6)

[54] 474-285 Specification for anti-theft measures

[55] 474-9428 Line Impedance measurements

[56] 32-247 Procedure for vegetation clearance and maintenance within overhead power line servitudes and on Eskom owned land

[57] TSP 41-604 Design, manufacturing, and installation specification for transmission line labels

[58] TST 41-321 Earthing of transmission lines

[59] ASCE Manual 1097 Guide for design of steel transmission towers

[60] IEC 60826:2003 Design criteria for overhead transmission lines.

2.2.2 Informative

[61] 240-53113685 Design Review Procedure

[62] 240-53114002 Engineering Change Management Procedure

[63] 240-53114026 Project Engineering Change Management Procedure

[64] 240-76992014 Project/Plant Specific Technical Documents and Records Management Work Instruction.

[65] SANS 754 Eucalyptus poles, cross-arms and spacers for power distribution and communications systems

[66] 240-89280115 Kriel 1kV line: Preliminary Assessment

[67] 377-KRL-AABB-D00139-79 Kriel Ash Dam Load Flow and Fault Studies Report

[68] 377-KRL-ADDB-D00180-1 Kriel Power Station Ash Dam 4 Electrical Basic Design

[69] 32-644 Eskom documentation management standard.

[70] 474-285 Specification for anti-theft measures

[71] NRS 061-2:2004 Specification for overhead ground wire with optical fibre. Part 2: Installation guidelines.

[72] NWS 1074 Guy strand grips for transmission lines.

[73] SHEQ Eskom SHEQ Policy

2.3 Definitions

2.3.1 Kingbird Conductor

All Aluminium Conductor (AAC) with enhanced capacity and performance characteristics superior to the existing Mink conductor, suitable for 11 kV overhead line applications.

2.3.2 Outside Plant

The area of Kriel Power Station containing substations including ash convey substation, contractor's yard, ash water return substation, and ash dams that require 11 kV power supply.

2.3.3 Shield Wire

Overhead earth wire designed to provide lightning protection and electrical continuity for the overhead line system.

2.3.4 Phase-Phase Spacing

The electrical clearance distance between adjacent phase conductors, critical for preventing electrical flashover and ensuring safe operation.

2.3.5 Technical Evaluation Team (TET)

A multidisciplinary team of subject matter experts responsible for evaluating the technical aspects of tender submissions.

2.3.6 Overhead Line

An overhead power line is a structure used in electric power transmission and distribution to transmit electrical energy across large distances. It consists of one or more uninsulated electrical cables (commonly multiples of three for three-phase power) suspended by towers or poles.

2.3.7 Switchgear

Switchgear is a generic term and includes the entire range of switching devices and their combination with associated control, measuring, protecting and regulating equipment. The assemblies of such devices and equipment with associated inter-connections, accessories, enclosures and supporting structures, intended, in principle, for use in connection with the generation, transmission, distribution and conversion of electric energy also form switchgear.

2.3.8 Line Specification

A document that specifies the requirements for the relevant line, turn-in or bypass that needs to be constructed, refurbished or any other work that may be required to be executed as part of the project. Specific requirements outlined in the line specification shall take precedence over requirements specified in this document.

2.3.9 Design Engineer

Engineers, as practitioners of engineering, are professionals who invent, design, analyse, build and test machines, complex systems, structures, gadgets and materials to fulfil functional objectives and requirements while considering the limitations imposed by practicality, regulation, safety and cost.

2.3.10 Employer

The party for whom the works are to be executed and, in this standard, means Eskom (Transmission, Distribution, Technology, Power Delivery Projects) and where applicable, includes Eskom's appointed successor in title but not, except with the written content of the Contractor, any assignee of Eskom.

2.3.11 Contractor

The party appointed by the Employer to "Provide the works".

2.3.1 Classification

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

2.4 ABBREVIATIONS

Abbreviation	Description
A	Ampere
AC	Alternating Current
AWR	Ash Water Return
DC	Direct Current
Dx	Distribution
EA	Environmental Authorisation
EDWL	Engineering Design Work Lead
EIA	Environmental Impact Assessment
EMAP	Engineering Management Plan
EMD	Electrical Maintenance Department
EMP	Environmental Management Plan
EPE	Electrical Plant Engineering
EOD	Electrical Operating Desk
HV	High Voltage

Gx	Generation
PS	Power Station
kV	Kilo Voltage
LDE	Lead Design Engineer
LPS	Low Pressure System
LV	Low Voltage
MV	Medium Voltage
MW	Megawatts
OEM	Original Equipment Manufacturer
OHSA	Occupation Health and Safety Act
OPS	Operating Department
OHL	Overhead Lines
QC	Quality Control
PCM	Process Control Manual
PTM	Protection Testing Metering
SANS	South African National Standards
SHEQ	Safety, Health, Environment and Quality

2.5 ROLES AND RESPONSIBILITIES

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

240-48929482: Tender Technical Evaluation Procedure for Transmission and Distribution

2.6 PROCESS FOR MONITORING

Project progress monitoring will be conducted through regular TET meetings, milestone reviews, and compliance assessments against technical specifications. Monthly progress reports will be submitted to the project steering committee.

Quality Management Plan:

- Geotechnical Approval: Submit geotechnical investigation reports to the Design Engineer for review and approval prior to commencing any foundation construction.
- Foundation Verification: Upon geotechnical approval, construct one sample foundation to be witnessed and approved before proceeding with the remaining foundations.
- Material Inspection: Conduct joint inspections of all contractor-supplied materials with Standards and Implementation (SI) and the Design Engineer. Materials must be approved by SI before use in construction.
- Stay Load Testing: Provide a stay load test report for a sample stay. Approval of both the testing method and results is required before constructing all stay foundations.
- Stringing Verification: Submit a stringing report for the initial strung and tensioned section. This report must confirm that correct tensions were applied as per the stringing chart before continuing with the rest of the line.
- Site Monitoring: The Clerk of Works should closely monitor the contractor's activities, particularly during stay foundation installation and conductor stringing.

- Defect Inspection: The Clerk of Works is responsible for identifying and reporting any defects or shortcomings in the contractor's work to the Design Engineer.
- Final Acceptance: The Design Engineer will formally accept the construction handover only after both the Clerk of Works and the Plant Department confirm that the work complies with Eskom standards.

2.7 RELATED/SUPPORTING DOCUMENTS

Please refer to section 2.2

3. TENDER TECHNICAL EVALUATION STRATEGY

3.1 TECHNICAL EVALUATION METHOD

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

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.

A weighted scorecard approach is used to evaluate the technical compliance of the tenders against the specifications.

The evaluation of the tender submission will be based on the tenderer's ability to meet the Engineering requirements.

The following scoring method to be used will be as follows:

SCORE	PERCENTAGE	DESCRIPTION
5	100	COMPLIANT • Meet technical requirement(s) • No foreseen technical risk(s) in meeting technical requirements.
4	80	COMPLIANT WITH ASSOCIATED QUALIFICATIONS • Meet technical requirement(s) • Acceptable technical risk(s) • Acceptable exceptions • Acceptable conditions
2	40	NON-COMPLIANT • Does not meet technical requirement(s) and/or Unacceptable technical risk(s) • Unacceptable exceptions • Unacceptable conditions

0	0	TOTALLY DEFICIENT OR NON-RESPONSIVE • No response

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	W. Masemola	System Engineer
TET 2	R. Mahlaku	System Engineer
TET 3	L. Puza	Design Engineer
TET 4	S. Msibi	Senior Engineer

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.	**Compliance Requirements**		
1.1	Tenderer shall be a registered Electrical Contractor (ECA or DOL letter)	Provision of ECA certification or letter from department of labour. Certificates copies must be certified at most three (3) months prior to the tender closing date.	This will ensure that the contractor is certified to execute the scope of work, and further ensure compliance with OHSA.
2.	**Competency Requirements**		
2.1	Tenderer has SACPCMP registered and competent personnel with at least 2 years' experience to execute the works. 1. Manager	Minimum South African Qualifications Authority (SAQA) National Qualification Framework (NQF) Level 5 project management verifiable certified copy of qualification, SACPCMP registered, CVs & attach signed letter as proof of employment from the company tendering.	Eskom needs assurance that the tenderer has the required competency capacity to execute the works as detailed in the scope of work/employer's works information.
2.2	Tenderer has professional engineer to carry out the design work sign off designs and the personnel have at least 2 years' experience post Engineering Council of South Africa (ECSA) Certification. 1. Electrical Engineer 2. Civil Engineer	Minimum SAQA NQF Level 7 verifiable certified copy of engineering qualification, CVs, ECSA certificate & attach signed letter as proof of employment from the company tendering.	

2.3	Tenderer has qualified and competent personnel with at least 2 years' experience to execute the works. 1. Lines man	Minimum SAQA NQF Level 5 verifiable certified copy of qualification, CVs & attach signed letter as proof of employment from the company tendering. Submission of the following /certificates in MV/HV Line Construction: • Erecting Steel or wood structure course or module • stringing, regulating. • Crimping Course or module • OHRVS	
2.4	Tenderer has each of the listed qualified and competent personnel with at least 2 years' experience to execute the works. 1. Draughts person 2. Registered Surveyor 3. Supervisor 4. Crane Operator	Minimum SAQA NQF Level 5 verifiable certified copy of qualification, CVs & attach signed letter as proof of employment from the company tendering.	
3.	**Resource Requirements**		
3.1	Truck with suitable VMC (with aerial device/crane): Minimum 18 meters reach	• Full Licence document showing company / owner's information or pre-approved Letter from Hiring Company. • Licence document must be certified and not older than 3 months from the tender closing date.	Eskom needs assurance that the tenderer has the required mandatory Vehicles to execute the works as detailed in the scope of work/employer's works information.

		• Proof of hiring contract / pre- approved letter from Bona Fide Vehicle Hire Companies must be submitted at task order level. • A tenderer is not allowed to hire from another Electrical construction Company	

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 (%)
1.	**Technical Competency**		**Eskom needs assurance that the tenderer has the required technical capacity to execute the works as detailed in the scope of work/employer's works information**	**30**	
	1.1	**Detail Design** Tenderer to submit a comprehensive 11 kV overline design that includes the following: Electric Design: • Fault Levels • Conductor Rating • Line Earthing • Overhead line routing • Stringing Chart • Design Drawings Structural Design: • Tower Selection	Submission of a detailed design submission using the following documents as references: • Line Construction Handbook (NED Mpumalanga • Operating Unit Rev 0) • 240-47172520 - The Standard For The Construction Of Overhead Powerlines (TRMSCAAC5.2) • Works Information Kriel Power Station 11 kV		70

		• Span Lengths • Mechanical Strengths • Line Staking Table • Design Wind Pressure • Design Drawings Civil Design: • Foundation Selection • Design Drawings • Geotech Study Legal Requirements: • Clearances Bill of Material (BOM) and Bill of Quantities (BOQ): • As detailed in the Line Construction Handbook, works information and the 240-47172520 - The Standard For The Construction Of Overhead Powerlines (TRMSCAAC5.2) SCOREPERCENTAGE DESCRIPTION 5 - Tenderer has submitted a detailed design as per the Eskom Specification References/Tender Returnable.	Overhead Line Replacement • Line Design Drawing Data Pack		

		4 - Tenderer has submitted a detailed design that is not informed Eskom Specification References/Tender Returnable. 2- Tenderer submitted a design that lacks sufficient detail of the line design. 0 - No submission from Tenderer.			
	1.2	**Method Statement** Tenderer to submit a comprehensive method statement for the works that includes the following: • Project Scope of Work • Line Information • Site Climate Conditions • Project Information • Electric Diagrams • Network Diagram • Geographical/Route Map • Sequence of Events SCOREPERCENTAGE DESCRIPTION 5 - Tenderer has submitted a detailed method statement with all the phases and activities required. 4 - Tenderer has submitted a method statement with not details of phases and activities required. 2 - Tenderer submitted a method statement that lacks detail. 0 - No submission from Tenderer.	Submission of a comprehensive method statement for executing the required scope of work 559-129367202: Kriel Power Station Lighting Installation Scope of Work.		30

2.	**Safety Health Environment Quality (SHEQ) Requirements**		**Includes risk assessment, Testing & Commissioning procedure and QCP/QIP documentation relevant to the scope of work**	**25**	
	2.1	**Quality Management Plan** Tenderer shall draft and submit a Quality Management Plan. The plan shall include the acceptance criteria / procedure reference/ standard for critical activities with reference to the approved works information. SCOREPERCENTAGE DESCRIPTION 5 - Tenderer submitted a detailed QCP detailed, covering all the phases, and has acceptance criterion/procedures reference/standards. 4 - Tenderer submitted a QCP that is detailed, but does not cover all the phases, and has acceptance criterion/procedures reference/standards. 2 - Tenderer submitted a QCP that is not detailed 0 - No submission from tenderer.	An approved quality control plan under company letterhead for the works detailed in the works information Kriel Power Station 11 kV Overhead Line Replacement using the Line Construction Handbook (NED Mpumalanga Operating Unit Rev 0) and 240-47172520 - The Standard For The Construction Of Overhead Powerlines (TRMSCAAC5.2) as references.		100
3.	**Tools and Equipment**		**A Tool List submission accompanied by valid calibration certificates**	**20**	
	3.1	**Tool List** Tenderer to submit a detailed tool list including calibration certificates for all tools requiring calibration.	Submission of a Tool List submission accompanied by valid calibration certificates		100

		SCOREPERCENTAGE DESCRIPTION 5 - Tenderer has submitted a detailed tool list and valid calibration certificates. 4 - Tenderer has submitted a tool list that is not detailed and calibration certificates that are not valid. 2- Tenderer submitted only a tool list or calibration certificate, but not both. 0 - No submission from Tenderer.	suing the following documents as references: • Line Construction Handbook (NED Mpumalanga Operating Unit Rev 0) • 240-47172520 - The Standard For The Construction Of Overhead Powerlines (TRMSCAAC5.2) • Works Information Kriel Power Station 11 kV Overhead Line Replacement		
4.	**Support & Maintenance**		**Provision of a support plan, training program, maintenance strategy and spares list, tool list and calibration certificates related to the scope of work**	**25**	
	4.1	**Maintenance Support** The tenderer must submit a maintenance support plan that guarantees support for a period of one year. SCOREPERCENTAGE DESCRIPTION 5 – Tenderer has submitted a one-year support plan post execution of the on the scope of work 2 - Tenderer has submitted a limited support plan submitted 0 - No submission from Tenderer.	Submission of a signed official letter under the company letter head post execution of the on the scope of work ensuring a 1-year (12 months) support plan		40

	4.2	**Maintenance strategy** The tenderer must provide a detailed maintenance strategy aligned with the defined scope of work. SCOREPERCENTAGE DESCRIPTION 5 - Tenderer has submitted a comprehensive maintenance strategy and spares list submitted. 2 - Tenderer has submitted a limited maintenance strategy and spares list submitted. 0 - No submission from Tenderer.	Submission of a comprehensive maintenance strategy contingent on the spares list		60
				TOTAL: 100	

3.6 TET MEMBER RESPONSIBILITIES

Table 4: TET Member Responsibilities

Mandatory Criteria Number	**TET 1**	**TET 2**	**TET 3**	**TET 4**
All mandatory criteria evaluation	X	X	X	X
Qualitative Criteria Number	**TET 1**	**TET 2**	**TET 3**	**TET 4**
All qualitative criteria evaluation	X	X	X	X

3.7 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.7.1 Risks

Table 5: Acceptable Technical Risks

Risk	Description
1.	Minor variations in material specifications within approved tolerances (±5%)
2.	Weather-related construction delays up to 30 days
3.	Soil condition variations requiring foundation design adjustments
4.	Temporary power supply interruptions during switching operations (planned outages)
5.	Access route modifications due to site conditions
6.	Standard environmental permits processing delays up to 60 days

Table 6: Unacceptable Technical Risks

Risk	Description
1.	Use of non-approved conductor types or specifications
2.	Inadequate electrical clearances below SANS requirements
3.	Non-compliance with earthing and bonding requirements
4.	Absence of proper fall protection systems
5.	Inadequate foundation designs for local soil conditions
6.	Lack of proper testing and commissioning procedures
7.	Non-compliance with Eskom protection and control standards

3.7.2 Exceptions / Conditions

Table 7: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	Alternative foundation designs with equivalent or superior performance characteristics
2.	Enhanced conductor specifications exceeding minimum requirements
3.	Additional safety measures beyond minimum requirements
4.	Improved construction methodologies reducing environmental impact
5.	Extended warranty periods beyond contractual minimums
6.	Value engineering proposals providing cost savings without compromising quality

Table 8: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	Reduction in conductor capacity below Kingbird specifications
2.	Elimination of shield wire protection systems
3.	Reduced phase spacing below safety clearances
4.	Alternative materials not meeting Eskom standards
5.	Simplified testing procedures omitting critical safety tests
6.	Reduced foundation specifications compromising structural integrity
7.	Modified grounding systems not meeting earthing requirements

4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation
G. Mthombene	Electrical Engineering Manager
R. Nelwamondo	Engineering Manager
N. Muthavhine	Auxiliary Engineering Manager

5. REVISIONS

Date	Rev.	Compiler	Remarks
June 2025	3	W. Masemola	Further amendments to the Mandatory Evaluation Criteria
January 2024	2	W. Masemola	Additional changes effected on the Mandatory and Qualitative Technical Evaluation Criteria
November 2023	1	W. Masemola	Changes effected on the Mandatory and Qualitative Technical Evaluation Criteria
May 2023	0.1	W. Masemola	Draft document of the tender technical evaluation strategy

6. DEVELOPMENT TEAM

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

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7. ACKNOWLEDGEMENTS

The development team would like to acknowledge the contributions of the Distribution and Technical Support teams at Kriel Power Station, and the subject matter experts who supported the technical specifications development.