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Tender Technical Evaluation
Strategy for Electric Fence
Spares Supply Contract**

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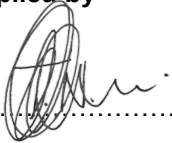
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Compiled by



T. Majozi
Electrical Engineer

Date: **2025/08/25**

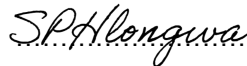
Functional Responsibility



M Mukwevho
**Electrical Engineering
Manager**

Date: **2025/08/26**

Authorised by



S Hlongwa
**Engineering Group Manager
(Acting)**

Date: **2025.09.01**

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1. INTRODUCTION

Medupi Power Station is by law a National Key Point and requires the need for proper access control which is enabled by the electrified perimeter security fence with additional barrier fences. This system safeguards the Medupi site from unauthorised persons entering the premises. Regular maintenance which includes replacement of parts (spares) is required for the electrified fence to serve this vital security purpose continuously and effectively. Hence, Medupi Power station intends to place a spares supply contract to ensure continuous operation of the electric fence.

This document provides an overview of Eskom's Technical Evaluation criteria to be used for the evaluations of the tender submissions for the spares supply for the Electric Fence at Medupi Power Station for a period of five years. The document provides annexures developed to address various aspects required to perform technical evaluations.

2. SUPPORTING CLAUSES

The scope of this document is to define and document the Tender Technical Evaluation Strategy for the supply of Electric Fence spares.

2.1 SCOPE

The document describes the acceptable and unacceptable risks and qualifications and /or conditions.

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

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

No changes will be permitted to be made to the evaluation criteria once the Technical Evaluation Strategy is approved by the relevant Engineering Group Manager.

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.

2.1.2 Applicability

This document applies to the Tender Evaluation Team for the Medupi Power Electric Fence Spares Supply Contract.

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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] Eskom SHQ Policy 32-727
- [4] 240-168966153: Generation Tender Technical Evaluation Procedure
- [5] 240 – 48929482 Tender Engineering Evaluation Procedure
- [6] 240-85631147 Medupi Power Station Electric Fence Spares Strategy
- [7] 240-87840652 Medupi Power Station Electric Fence Spares Procurement Works Information

2.2.2 Informative

- [8] NEC 3 Supply Contract
- [9] 32-1033 Eskom Procurement and Supply Chain Management Policy
- [10] 32-1034 Eskom Procurement and Supply Chain Management Procedure
- [11] Eskom Standard 34-402 Standard for Non-lethal Energised Perimeter Detection System

2.3 DEFINITIONS

2.3.1 Classification

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

Mandatory Evaluation criteria: (gatekeepers) are 'must meet' criteria.

Qualitative 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.

2.4 ABBREVIATIONS

Abbreviation	Description
NEC	New Engineering Contract
OEM	Original Equipment Manufacture
TET	Technical Evaluation Team

2.5 ROLES AND RESPONSIBILITIES

As per 240-168966153: Tender Technical Evaluation Procedure

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2.6 PROCESS FOR MONITORING

N/A

2.7 RELATED/SUPPORTING DOCUMENTS

N/A

3. TENDER TECHNICAL EVALUATION STRATEGY

3.1 TECHNICAL EVALUATION THRESHOLD

Mandatory criteria are 'must meet' criteria. These criteria will be assessed on a Yes/No basis as to whether or not the criteria are met. An assessment of 'No' against any criterion will technically disqualify the tenderer and will not be further evaluated against Qualitative Criteria.

Qualitative criteria will be weighted using a score-card approach to evaluate the technical compliance of the tenders against the specifications. The minimum weighted final score (threshold) required for a tender to be considered from a technical perspective is 75%. Hence, the Tenderers must achieve a total weighted score of 75% or more to qualify for further evaluation.

3.2 TET MEMBERS

The TET members responsible for the technical evaluation are listed in Table 1. The TET responsibilities are indicated in Section 3.6 of this document.

Table 1: TET Members

TET number	TET Member Name	Designation
TET 1	Thembelihle Majozi	System Engineer
TET 2	Lenox Mokoka	Engineer Prof Engineering
TET 3	Mokgadi Seabela	Snr Technician Electrical
TET 4	Maggy Serumola	Technician Electrical
TET 5	Catherine Hlanyane	Snr Technician Electrical

3.3 SCORING METHOD

Table 2 Scoring Method

Score	(%)	Definition
5	100	COMPLIANT Meet technical requirement(s) AND. No foreseen technical risk(s) in meeting technical requirements.

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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

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3.4 MANADATORY TECHNICAL EVALUATION CRITERIA

	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for use of Criteria
1.	Established and fully functional offices/repair workshop for repairs of energizers and short-term storage of spares.	Proof of ownership for the work area/workshop or lease agreement including photos and address. Note: Site visits will be conducted for verification of supplier's facilities only for suppliers who have passed the overall technical evaluation. If the verification fails, the supplier will be technically disqualified.	Eskom electric fence energizer repairs to be done by a company with a fully functioning workshop and ability to test energizers at its workshop. YES or NO
2.	Support Letter from the energizer OEM for supply required electric energizers and repair parts of required electric energizers.	Submit valid (signed-off) letter with OEM letter head not older than 6 months.	Assess suppliers' ability to provide required spares and on time. YES or NO

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.	Supplier Experience and capabilities:		35%		
1.1	Proof of 3 previously supplied orders (completed) for energizers with a compliance certificate issued by a SANAS accredited lab facility not older than 3 years.	a) <u>Submit 2 (two) completed orders for new energizers each with the following:</u> - Purchase order, service completion report or delivery note of service provided from customer and a certificate of compliance issued by a SANAS accredited lab facility not older than 4 years. b) <u>Submit 1 (one) completed order for energizer repair with the following:</u> - Repair report: inclusive of assessment and test documents. Purchase order, service completion report or delivery note of service provided from customer and a certificate of compliance issued by a SANAS accredited lab facility not older than 4 years.	20%	All returnable submitted as stated.	100% = 5
				One order for a new energizer and another order for a repaired energizer submitted with test reports, completion delivery notes and the orders are within the last 4 years.	80% = 4
				Only one order for a repaired energizer submitted with test reports, completion delivery notes and the orders are within the last 4 years.	40% = 2
				All returnable not met.	0% = 0
1.2	Suppliers Experience	a) Supplier's Company profile, b) Submit proof of at least 2 previously awarded orders (excluding energizers) by Eskom and or other companies with order number, delivery notes and referral contacts in the last 4 years.	15%	Company profile and 2 copies of previous orders supplied in the last 4 years.	100% = 5
				Company profile and 1 copy of a previous order for site services supplied in the last 4 years.	80% = 4

		At least one of the orders must be for site services i.e. Site fence repair works, fault finding/assessment or energizers and software management system. Note: If one of the returnable is not submitted, the score will be 0.		All returnable not met.	0% = 0
2.	Technical Knowledge and Skill requirements:		65%		
2.1	Datasheets spares on Appendix A.	Submit Technical specifications/ Datasheet for each of the spares on Appendix A	30%	Data sheets with technical specifications and Outline Drawings for 90% of Spares listed in table 10, appendix A	100% = 5
				Data sheets with technical specifications and Outline Drawings for 70% of Spares listed in table 10, appendix A	80% = 4
				Data sheets with technical specifications and Outline Drawings for 65% of Spares listed in table 10, appendix A.	40% = 2
				All returnable not met.	0% = 0
2.2	Technical personnel, knowledgeable about the scope of work.	- Curriculum vitae - Electrical qualification Note: The supplier to submit a CV and Electrical qualification of at least two technical people. Only	30%	CV, Electrical qualifications for two people with at least 3-years' experience on Electric fence related works submitted.	100% = 5
				CV, Electrical qualification and at least 2-years' experience on Electric fence related works submitted.	80% = 4

		work experience obtained after the electrical qualification will be considered.		CV, Electrical qualification and at least 1-year experience on Electric fence related works submitted.	40% = 2
				All returnable not met.	0% = 0
2.3.	Supplier delivery	Indicate Lead time to deliver spares upon placement of order.	5%	Letter indicating lead time not greater than 20 days submitted for all spares.	100% = 5
				No submission	0% = 0
TOTAL			100%		

3.6 TET MEMBER RESPONSIBILITIES

Table 4: TET Member Responsibilities

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

3.7 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.7.1 Risks

Table 5: Acceptable Technical Risks

Risk	Description
1.	N/A

Table 6: Unacceptable Technical Risks

Risk	Description
1.	Technical specification that does not meet the scope of work.

3.7.2 Exceptions / Conditions

Table 7: Acceptable Technical Exceptions / Conditions

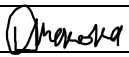
Risk	Description
1.	Declining to provide technical details accurately deemed intellectual proprietary if the <i>Supplier</i> is a third party.
2.	In case of an obsolete specification, the supplier may provide proof from the manufacturer about obsolescence and new data sheets for the new specification that will be acceptable.

Table 8: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	Deviation without technical qualification not accepted.

4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation	Signature
Lenox Mokoka	Engineer Prof Engineering	
Mokgadi Seabela	Snr Technician Electrical	
Maggy Serumola	Technician Electrical	
Catherine Hlanyane	Snr Technician Electrical	

5. REVISIONS

Date	Rev.	Compiler	Remarks
August 2025	2	T. Majozi	Revision of evaluation criteria
June 2024	1	T. Majozi	First Issue

6. DEVELOPMENT TEAM

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

TET members

7. ACKNOWLEDGEMENTS

None.

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APPENDIX A: SAMPLED SPARES LIST

Table 10: Sampled BOM for Technical Evaluations

Item No.	Material Number	Equipment Short description	Full Description	Unit of Measure
1.	220640	CONN LUG:SPADE;M6	CONNECTOR, LUG: TYPE: SPADE; HOLE SIZE: M6; MANUF P/N: 130625; YELLOW	EA
2.	607807	BATT:DIVBAT7.5;BACKUP;12 V;7 AH;BS 120	BATTERY: TYPE: BACKUP; POTENTIAL: 12 V; CURRENT CAPACITY: 7 AH; SPECIFICATION: BS 120; OEM P/N: DIVBAT7.5	EA
3.	607808	MODULE COMM:BS101IO;UNIVERSAL I/O;O/P 12	MODULE, COMMUNICATION: TYPE: UNIVERSAL I/O; OUTPUT: 12 VDC; APPLICATION: CDS INTERFACE MODULE; HARDWARE: BS 120 ENERGIZERS; SOFTWARE: WINDOWS PROGRAM; OEM P/N: BS101IO; RS485 TTL	EA
4.	607809	WIRE ELECT:ST109; FENCE COMPONENTS;1.6 MM;NONE	WIRE, ELECTRICAL: TYPE: FENCE COMPONENTS; SIZE: 1.6 MM; COLOR: GRAY/SILVER; STRUCTURE: SOLID WIRE; MATERIAL: ALUMINIUM; INSULATION: NONE; RATING: 33 OHM/KM; CORE MATERIAL: AL ALLOY 5019 H18; LENGTH: 1 KM; OEM P/N: ST109	Metre
5.	607810	SENSOR:CLIMB DETECTION;80 M;CDSSENSOR	SENSOR: TYPE: CLIMB DETECTION; RANGE: 80 M; RATING: 8-26 VDC 20 MA AT 24 VDC; ELECTRICAL CONNECTION: FIBER OPTICAL CABLE; REFERENCE NO: CDSSENSOR	EA
6.	607811	TESTER:TEST ENERGIZER;18 KV/M;7.5 W	TESTER: TYPE: TEST ENERGIZER; RANGE: 18 KV/M; SPECIFICATION: SABS IEC 60335-2-67-1997; POWER: 7.5 W; REFERENCE NO: BS100T	EA
7.	609744	DIVERTER:HV LIGHTING	DIVERTER: TYPE: HV LIGHTING; FEATURES: ENERGIZER PROTECTION BS120; APPLICATION: ELECTRIC FENCE; THE ITEM IS POSITIONED BETWEEN THE FENCE AND THE ENERGIZER ON ITS OWN EARTH CIRCUIT; RANGE UP TO 14 KV AT 8 JOULE	EA

8.	609745	CONVERTER SGNL:RS 485 TO 2 WIRE;I/P 12	CONVERTER, SIGNAL: TYPE: RS 485 TO 2 WIRE; INPUT: 12 VDC; OUTPUT: 18 VDC; POWER SOURCE: 220 VAC; APPLICATION: GENERATOR PROTECTION SYSTEM; MOUNT: CLIP IN; CLASSIFICATION: IP65; SPECIFICATION: EIA-422/485; RANGE 1-10CDS UNITS; BS120 ENERGIZER; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EA
9.	609746	CONTROLLER:ENERGIZER REMOTE;1-13 MM/S	CONTROLLER: TYPE: ENERGIZER REMOTE; RANGE: 1-13 MM/S; RATING: 13-26 VDC; 8 MA AT 24 VDC; APPLICATION: ENERGIZER BS120	EA
10.	609747	CONTROLLER:SYNCHRONIZING UNIT;1-50 MM/S	CONTROLLER: TYPE: SYNCHRONIZING UNIT; RANGE: 1-50 MM/S; RATING: 12-14 V DC; APPLICATION: ENERGIZER BS120	EA
11.	609748	CABLE FBR OPTC:LINK;1;PVC;1 MM	CABLE, FIBER OPTIC: TYPE: LINK; FIBER COUNT: 1; SHEATH: PVC; FIBER SIZE: 1 MM	EA
12.	609769	INSUL:ST103;ST203;ELECTRIC FENCE	INSULATOR: TYPE: ELECTRIC FENCE; DIMENSIONS: DIA 15 X LG 52 X HT 20 MM; MATERIAL: PP BLACK; OEM P/N: ST103; ST203; WITH 5PCT UV STABILIZER	EA
13.	609770	INSUL:WIRE TENSIONER;POLYPROPYLENE	INSULATOR: TYPE: WIRE TENSIONER; DIMENSIONS: DIA 34 X LG 75 X HT 35 MM; MATERIAL: POLYPROPYLENE	EA
14.	609771	CONVERTER SGNL:FIBRE OPTIC TO RS485;RACK	CONVERTER, SIGNAL: TYPE: FIBRE OPTIC TO RS485; INPUT: 0-20 MA; OUTPUT: 4-20 MA; POWER SOURCE: 10-16 VDC AT 50 MA; APPLICATION: TTL; RS485; RS232; MOUNT: RACK; CLASSIFICATION: IP65; SUPPL P/N: DUALFOCONV	EA
15.	609772	CONVERTER SGNL:PROCESS COMPUTER;I/P 0-20	CONVERTER, SIGNAL: TYPE: PROCESS COMPUTER; INPUT: 0-20 MA; OUTPUT: 4-20 MA; MOUNT: RACK; CLASSIFICATION: IP65; SUPPL P/N: RSCON	EA
16.	609823	ENERGIZER ELEC FENC:100-260 VAC;8 KVAC;6	ENERGIZER, ELECTRIC FENCE: TYPE: SECURITY PERIMETER PROTECTION; INPUT POTENTIAL: 100-260 VAC; OUTPUT POTENTIAL: 8 KVAC; PULSE CHARGE: 7.6 W; BATTERY STANDBY TIME: 6 HR; STANDARD: IEC 60335-2-76; SUPPL P/N: BSENER	EA

17.	609825	FERRULE ELECT COND:ID 4 MM;LG 18 MM;1.6	FERRULE, ELECTRICAL CONDUCTOR: INSIDE DIAMETER: 4 MM; LENGTH: 18 MM; ACCOMODATED WIRE SIZE: 1.6 MM; MATERIAL: ALUMINIUM; TYPE: DOUBLE ENTRY (2 WIRE); APPLICATION: ELECTRIC FENCE	EA
18.	609827	SIGN ELECT SFTY:WD 150 X LG 250 MM;30 MM	SIGN, ELECTRICAL SAFETY: DESIGNATION: ELECTRIC FENCE DANGER/GEVAAR/INGOZI; DIMENSIONS: WD 150 X LG 250 MM; MATERIAL: POLYETHYLENE; LAYOUT: BLACK LETTERS ON YELLOW; INSCRIPTION HEIGHT: 30 MM; COLOR: YELLOW; INSCRIPTION COLOR: BLACK; SPECIFICATION: IEC 60335-2-76	EA
19.	688714	GLOBE:PL26;WD 34 X LG 180 X HT 34 MM	GLOBE: TYPE: PL26; DIMENSIONS: WD 34 X LG 180 X HT 34 MM; OEM P/N: PL26; SUPPLIER SHOULD PROVIDE DATASHEET FOR THIS ITEM WHEN QUOTING	EA