

	Report	Distribution Operating Unit Gauteng
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Title: **Technical evaluation criteria for the repairs and maintenance of Low Voltage (LV), Medium Voltage (MV) and High Voltage (HV) Overhead Network in Gauteng Cluster** Document Identifier: **<240-XXXXXXXX>**
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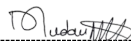
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Emma Rakgogo



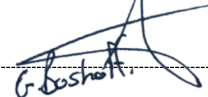
Functional Responsibility

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1. Introduction

This document has been developed to set the standard technical evaluation criteria to be used when evaluating tender submissions for the repairs and maintenance of Low Voltage (LV overhead and underground network), Medium Voltage MV and High Voltage (HV) Overhead Network in Gauteng Cluster). The technical evaluation criteria are developed in line with the Eskom HV/MV/LV overhead including LV underground system standards. Supporting Clauses

1.1 Scope

These technical evaluation criteria cover the minimum technical requirements for the repairs and maintenance of Low Voltage (LV overhead and underground network), Medium Voltage and High Voltage (HV) system on overhead network in Gauteng Cluster for maintenance purposes.

1.1.1 Purpose

This document was compiled to provide technical evaluation criteria for the repairs and maintenance of Low Voltage (LV overhead and underground network), Medium Voltage and High Voltage (HV) system on overhead network to ensure contractor compliance to standard within Eskom Distribution. It is applicable only for the purpose of performing contractor tender evaluations for the repairs and maintenance of Low Voltage (LV overhead and underground network), Medium Voltage and High Voltage (HV) system on overhead network in Gauteng Cluster.

Applicability

This document shall apply for Eskom Distribution, GC.

1.1.2 Effective date

The effective date of this document is the same as the authorised date.

1.2 Normative/Informative References

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

1.2.1 Normative

- [1] ISO 9001, Quality Management Systems
- [2] 240-61187283, MAINTENANCE STRATEGY FOR WOOD POLES
- [3] 240-103648378, MV network maintenance standard
- [4] 240-69499676, Maintenance standard for Low Voltage Networks

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1.2.2 Informative

- [5] 32-9: Definition of Eskom documents.
- [6] 32-644: Eskom documentation management standard.
- [7] 474-65: Operating manual of the Steering Committee of Technologies (SCOT).

1.3 Definitions

1.3.1 None

1.4 Abbreviations

Abbreviation	Description
GC	Gauteng Cluster
MV	Medium Voltage
LV	Low Voltage
PDE	Power Delivery Engineering
PoE	Portfolio of Evidence
PPE	Personal protective equipment
HV	High Voltage
CNC	Customer Network Centre

1.5 Roles and Responsibilities

All Eskom employees and/or appointed bodies involved in the qualification process of contractors to perform repairs and maintenance shall ensure that the contractors being evaluated meet the requirements of this standard. Any deviation from these requirements shall constitute non-conformance unless it was in advance agreed to by a delegated appointed evaluating team.

All contractors shall ensure that they obtain clarity where required and obtain all supporting information or documents necessary to comply with this document.

1.6 Process for Monitoring

Acceptance of bidding contractors for the repairs and maintenance of overhead systems shall be based on fully compliant submissions of documents and proving capability of providing the required service during equipment/tools and premises evaluations.

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1.7 Related/Supporting Documents

2. Requirements

This document contains the technical evaluation criteria for the repairs and maintenance of Low Voltage (LV overhead and underground network), Medium Voltage (MV) and High Voltage (HV) Overhead Network in Gauteng Cluster. The evaluation methodology consists of two stages namely 1) the submitted documentation evaluation (desktop evaluation) and 2) company premises evaluation where equipment and tools are confirmed (company's premises or Eskom selected site)

The technical evaluation exercise is performed by the Eskom evaluating representatives. The initial part of the evaluation starts when submissions are opened and assessed for the first time. The submitted documents will be evaluated against the mandatory and scoring technical evaluation criteria as stated in clauses 3.1.1 and 3.1.2 respectively. Should a tenderer fail to meet any one of the mandatory requirements as indicated in 3.1.1, then they will automatically be disqualified. The documentation evaluations are meant for establishing if all the key tender deliverables are met regarding the repairs and maintenance of Low Voltage (LV), Medium Voltage (MV) and High Voltage (HV) system.

The second part of the evaluation is the verification of tender documentation submissions that takes place at the tenderer's premises or Eskom selected site as per clause 3.2. Each contractor must pass the mandatory evaluation as well as achieve a minimum score of 90% in the scoring phase of the documentation evaluation as stipulated in 3.1.2 in order to qualify for premises evaluation. Any score below 90% will result in immediate disqualification.

The tenderer that fails to demonstrate the 90% compliance on tables 1 and 2 at the premises evaluation will be disqualified.

2.1 Evaluation criteria

The technical evaluation criteria comprise mandatory and scoring phases.

3.1.1 Table 1: Technical Evaluation Criteria for the repairs and maintenance of LV, MV and HV network Contractors: Mandatory Requirements

TASK / MEASURE	
Criteria	Acceptance: Yes/No
Submit all technical requirements on a separate technical file.	
Provide proof of company's registration with Electrical Contractors Association South Africa (ECASA)	
Provide proof of company's registration for Eskom PDE website access.	

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TASK / MEASURE	
Criteria	Acceptance: Yes/No
Submit a signed copy of the provided tools and equipment list in Annexure A used for the repairs and maintenance of LV, MV and HV Overhead network, indicating if the tools and equipment are owned or hired.	
Provide valid certified copies of training, each team leader must have all requested certificates. (Refer Annexure C)	
Provide an affidavit of the team leader, completed by the resources named on the certificates and certified by a Commissioner of Oaths. This affidavit must confirm that the team leader works for the tendered company.	

3.1.2 Table 2: Technical Evaluation Criteria for repairs and maintenance of LV, MV and HV Overhead network Contractors: Scoring

TASK / MEASURE		
Criteria	Source of evidence	Weighting
<p>Provide proof/confirmation and history of at least 5 repairs and maintenance of LV, MV and HV Overhead work performed by your company's qualified personnel, related to this scope:</p> <p>The above required project references shall indicate and provide the project name, customer name, customer contact details, the operating voltage, year of execution and total length of the line.</p> <p>Provide 5 LV work task orders and 5 MV/HV work task orders</p>	<p>Appointment letter and or task orders and or completion certificates.</p> <p>5 points for LV work and 5 points for MV/HV</p>	10%
<p>Equipment and tools list</p> <p>NB: There will be penalties if tools and equipment are hired. Hired equipment and tools will be awarded 70% of the total points. All equipment and tools that have *(star) need to be owned and not hired by suppliers. If these equipment and tools are hired, the supplier will be scored zero.</p>	<p>Print and complete the provided tool/equipment list on Annexure A and sign or provide signed hiring letter or contract.</p>	60%

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TASK / MEASURE		
Criteria	Source of evidence	Weighting
Vehicles, proof of ownership (LDV, Transporter and 10/8 Ton Crane Truck with valid crane test certificate) All vehicles that have *(star) need to be owned and not hired by suppliers. If these vehicles are hired, the supplier will be scored zero	Print and complete the vehicle list on Annexure B and sign Vehicle documents	20%
Suitable PPE for all staff (registers signed by each employee) and PPE Matrix. (As per this scope of work and PPE standard)	Signed PPE register and PPE matrix	10%
TOTAL		/100%

2.2 Company premises or Eskom selected site evaluation

The following will be checked at the contractor's premises:

- Owned vehicles and their documents
- Owned tools
- Owned equipment
- Original training certificates – **If they were sent by email, provide the original email from the training service provider.**
- List of hired tools and equipment and their hiring letters (hiring letters should indicate that the tools and equipment will be available 24/7)
- Proof of employment for personnel with submitted certificates (Team leaders) (e.g., employment contracts etc.)
- General housekeeping (e.g., how tools and equipment are kept)

3. Acceptance

This document has been seen and accepted by:

Name	Designation
Deon Boshoff	Middle Manager SpMS

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Name	Designation
Mphathutshedzeni Mudau	Manager: Technical Support (GOU)

4. Revisions

Date	Rev.	Compiler	Remarks
September 2022	1	E Rakgogo	New document. It has been compiled for GC to conduct technical evaluations on HV/MV/LV maintenance work contractors.

5. Development Team

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

- Emma Rakgogo Technical Support (OTS)
- Linda Masinga Technical Support (OTS)
- Paulette Lethiba Technical Support (OTS)

6. Acknowledgements

None

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Annex A – Tools and Equipment list

Note: - A proof of valid calibration certificates/sticker for all testing instruments/equipment's must be provided. (If no proof of valid certificate and or sticker, zero point will be given)

- All the equipment's and or instruments will be tested for functionality.

Tools/Equipment	QTY	Owned/Hired	Rating
Fibre glass extension step ladder 9m as per Eskom standard and or Cherry picker (N.B. cherry picker must have valid testing certificate- hydraulic and electrical test)			10
Lever hoist or Ricco			7
Come-along			7
Electrical crimping tools with all the size of conductors			10
Different crimping dize			10
Mechanical excavator (machine) (e.g., TLB).			10
Toolbox (mechanical)			20
Rope hoist and ropes			5
Bolt cutter large and small			10
Cable Cutter SCC 200 MO-67599			10
Aluminium conductor reinforced steel conductor cutter			10
Running out wheels wide groove (Bundle)			10
Running out wheel (Centre phase) screw type			10
Hand compacting tools (stampers).			5
Crimping tool AK18			6
Conductor drum jack Steel shaft for conductor drum trestle 1.5 m x 75 mm			10
Earth Augers BT 360 Bit275 Hole Depth 1.6 meters			2
Wood auger (petrol driven)			15
Drill Bits for Wood auger 18, 22 mm			5
*Lighting equipment min 2 sets.			2

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Multi-meter / tong tester			10
Polarity / Earth leakage tester			5
Digital Clamp Meter			5
Line tester (Duspold voltage tester)			10
Megger (Insulation Tester 1000V)			10
3 Phase Rotation meter			5
ED Verifier			5
CATU Voltage Detector - 375 - 11 / 33 kV CC-875-K (contact type)			10
CATU Voltage Detector - 220 volt – 3.3 kV (contact type)			7
Earth Resistance Tester 4 pole tester			10
Total:			260

Signature: _____ Date: _____

Note: - A proof of valid calibration certificates/sticker for all testing instruments/equipment's must be provided. (If no proof of valid certificate and or sticker, zero point will be given)

- All the equipment's and or instruments will be tested for functionality.**

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Annex B – Vehicle's list

Vehicles (Must be roadworthy)	QTY	Registration number	Owned/Hire
*LDVs			
*Transport for personnel (7-seater minibus/ 2 Double cabs			
10 Ton Crane Truck with valid crane test certificate)			

Signature: _____ Date: _____

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Annexure C – POE Checklist

Mandatory Requirements: Portfolio of Evidence			
		Valid	
No	Minimum Valid training certificates required	Yes	No
1	First Aid Level 2		
2	Basic Fire fighting		
3	Supervision of People in Hazardous Areas (ELW 001) (From Eskom accredited training providers or previously accredited by Eskom)		
4	Valid Occupational Medical certificate		
5	Risk Assessment & Pre-Task Planning PRE 002 (HIRA)		
6	ORHVS Level 2 HVO 2 (From Eskom accredited training providers or previously accredited by Eskom)		
7	LV Operating Regulations (LVOR 001) (From Eskom accredited training providers or previously accredited by Eskom)		
8	Equipotential Earthing Level 2 (OL2 02) (From Eskom accredited training providers or previously accredited by Eskom)		
9	Environmental awareness		
10	Construction Regulation		
11	Relevant Electrical Qualification or Fundamentals of Electricity		
12	OHS Act Overview		
13	MV/HV Line construction (From Eskom accredited training providers or previously accredited by Eskom)		
14	Low Voltage Line Construction - ELW 011 (From Eskom accredited training providers or previously accredited by Eskom)		

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15	LV Live Work (From Eskom accredited training providers or previously accredited by Eskom)		
16	Fall Arrest System and Rescue		
17	Low voltage operating and fault finding (From Eskom accredited training providers or previously accredited by Eskom)		
Company name:		Name of employee:	Title:
Signature:		Date:	

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