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Normal and Emergency
Maintenance within the Northern
Cape Operating Unit

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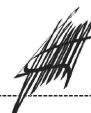
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1.Introduction

This document provides an overview of Eskom technical evaluation criteria to be adopted by the Northern Cape Operating Unit's Technical evaluation Team when evaluating the tender submissions for Normal and Emergency Contractors

2.Supporting Clauses

2.1 Scope

This document sets out the standardised criteria to be used when evaluating Normal and Emergency Contractors

for the construction of MV and LV Work as specified below:

- Reliability maintenance
- Major maintenance
- Wood pole replacement
- Auxiliaries structures and equipment (Pole mounted and ground mounted equipment)
- MV cable installations, jointing and terminations (mainly where there are auxiliary structure).
- LV Cabling (Overhead and underground)
- Minor Reticulation (MV Network infrastructure to SPU/LPU points).

2.1.1 Purpose

The purpose of this document is to ensure that all technical evaluators use the same method when evaluating contractors for the execution of MV Work and LV Work.

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2.1.2 Applicability

This document shall apply to the Northern Cape Operating Unit. This criteria document is applicable to Maintenance Projects (OPEX) and Capital Projects (CAPEX).

2.1.3 Effective date

This document is effective from the date of authorisation.

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] ISO 9001 Quality Management Systems
- [2] 240-70413681 - Portfolio of Evidence for Authorisation.
- [3] QM 58 – Supplier Contract Quality Requirements.
- [4] 240-75661043 - Services Section 3: Outdoor Low-Voltage Services for Small Power Users and Large Power Users Standard.
- [5] 240-75655380 - Low-Voltage Services Section 1: Electrification.

2.2.2 Informative

None

2.3 Definitions

Definition	Description
Accredited Training Service Provider	Registered with Education and Training Quality Assurance (ETQA) body under the South African Qualifications Authority (SAQA).

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Auxiliaries	<p>The following are Auxiliary structures according to the MV Standard http://tescod1.eskom.co.za:84/prt04MV/Section_3_Aux_Structure.htm:</p> <ul style="list-style-type: none"> • Sectionaliser structure • Recloser structure • Voltage regulator structure • Capacitor bank structure • Ct/vt structure • Line arresters structure • Section / equipment links or disconnectors structure • Section / by-pass load break switch structure • Equipment isolating (in-out) links cut/outs or disconnectors structure • Transformer structure • Equipment links combi unit structure
Bona Fide	Genuine; real and without intention to deceive.
Equipment	<p>Single apparatus or set of devices or apparatuses, or the set of main devices of an installation, or all devices necessary to perform a specific task.</p> <p>Electrical equipment such as support structures, pole mounted transformers, miniature substations, service distribution boards, etc.</p>
Low Voltage	Voltage level below 1kV
LV Cable Work	Cable trenching, laying of LV cables, terminating and jointing.
LV Work	<p>In accordance to this document LV work include the following activities:</p> <p>LV overhead line construction and dismantling (May include MV and LV shared structures) ,</p> <p>LV cable installations and dismantling,</p> <p>Overhead and Service Connections and dismantling,</p> <p>LPU metering, SPU metering and Prepaid meter installation and dismantling,</p> <p>Streetlights infrastructure installation and Streetlights infrastructure dismantling,</p> <p>LV wood pole replacement (May include wood poles for MV and LV shared structures).</p>
Major Maintenance	<p>Major Maintenance is a process that has to do with the accounting treatment of the costs of major inspections or overhauls of property plant and equipment, occurring at regular intervals over the useful life of an asset and made to allow the continued use of the asset should be recognised as an expense in the period in which it is incurred. In accordance to this document Major Maintenance include the following activities:</p>

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	<ul style="list-style-type: none"> Maintaining kiosks and Reclosers, civil work, fencing for substations and maintenance of control rooms.
Medium Voltage	Voltage level from 1kV up to and including 33kV
MV Work	<p>In accordance to this document MV work include the following activities:</p> <ul style="list-style-type: none"> MV overhead line construction and dismantling. MV wood pole replacement Auxiliary Equipment installation and dismantling.
Reliability	Reliability is the probability of a component or network performing its purpose adequately for the period intended under the operating conditions encountered. The degree of reliability may be measured by the frequency, duration, and magnitude of adverse effects on consumer supply availability.
Reliability Maintenance	Any maintenance project that is planned for the express reason of improving the reliability of the network. It is thus based on a conscious decision to improve the performance (availability and reliability) of a specific network.
Tender	Refers to a written or virtual competitive offer, quotation, proposal or expression of interest made by a Supplier, in a prescribed form according to the enquiry, in response to an enquiry for the provision of assets, goods, works or services, and/or Investment Recoveries.
Supplier	A supplier is a current or potential supplier, vendor, contractor,
Tenderer	A term used to refer to a supplier for a tender.
Semi-shared structure	LV line running beneath a MV line where the line structures do not all support the LV line.
Shared structure	LV line running beneath a MV on the same structure.

2.3.1 Document Disclosure:

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

2.4 Abbreviations

Abbreviation	Description
CAPEX	Capital Expenditure
CEO	Chief Executive Officer

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CIDB	Construction Industry Development Board
EAL	Eskom Academy of Learning
ISO	International Standard Organisation
MV	Medium Voltage
OU	Operating Unit
OHS	Occupational Health and Safety
OPEX	Operational Expenditure
ORHVS	Operating Regulations for High Voltage Systems
PDE	Power Delivery Engineering
SAQA	South African Qualifications Authority
SCOT	Steering Committee of Technology
SI	Standards Implementation

2.5 Roles and Responsibilities

- The Project Manager shall ensure that this technical evaluation document is implemented for evaluation of suppliers that wish to provide a service of construction of minor works.
- The Procurement Manager shall ensure that this document is made available to the prospective tenderers.
- The Procurement Manager shall confirm that the objective criterion from this document is met before a successful tenderer signs a contract.
- Project Execution Department shall continuously assess successful contractors according to this document mandatory and an objective criterion before issuing Task Orders.

2.6 Process for Monitoring

None

2.7 Related/Supporting Documents

None

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3 Evaluation Criteria

The evaluation criteria described in the following sections should be used to evaluate any service provider that wishes to provide the service for construction, refurbishment and dismantling of MV Work, and Auxiliaries.

The evaluation will be conducted in three consecutive stages, i.e. Stage 1: Mandatory requirements, Stage 2: Functional requirements evaluation and Stage 3: Site Assessments (if required).

3.1 Technical Evaluation Stage 1: Mandatory Requirements

Table 1 below lists the mandatory requirements that must be submitted by the tenderer: Please note that if any of the requested documentation is omitted (i.e., not submitted), the tender application shall be discarded / disqualified without requesting tenderer/s to submit outstanding documentation/s.

The evaluator shall indicate with a Yes/No whether the requirement is met or not. Once the mandatory requirements are satisfied through an evaluation conducted by the evaluator, the technical evaluation for mandatory evidence will proceed.

CIDB requirements will be covered in procurement's commercial requirements. All contractors seeking to participate in public sector infrastructure delivery must be registered on the CIDB Register of Contractors in the work category: Electrical Engineering Works-Infrastructure (EP)

Table 1: Mandatory Requirements

	Criteria	Evidence	Minimum Requirement	Min Quantity	
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1.	MV and LV Line Construction Training	<ul style="list-style-type: none"> MV and LV Line Construction Certificate, or MV: ELW 002 to 010 and LV: ELW 011 to 012, or QCTO Line Mechanic Qualification <p>Affidavit: The affidavit template provided must be used as the returnable. This affidavit will be used as confirmation of employment of the resources names certificates, at the tendering company during the tender period.</p>	<p>A total of 2 per team MV Line Construction Training certificates certified and dated and valid within six Months from tender closing date.</p> <p>A total of 2 Affidavits from the employer</p> <p>These 2 people must appear in your organogram for technical operations</p> <p>Training certificate must be from an accredited training provider. Only certificates of people who appear on the company's organogram will be accepted</p>	2	
2.	Electrical capability	<ul style="list-style-type: none"> Electrical Engineering qualification (either one of the following will be accepted: National diploma, minimum N2 Electrical, Electrician). Or Wireman's Licensee Or DoE&L registration letter as an electrical contractor. 	<p>Submit a certificate of an electrician employed in your company.</p> <p>If you do not have certificates submit a wireman's licence.</p> <p>Or alternatively submit a DoE&L registration letter as an electrical contractor.</p> <p>Only certificates or licences of people who appear on the company's organogram will be accepted.</p>	1	
3.	Tools and Equipment Register	Specific equipment must be listed on register (equipment to be marked according to OHS ACT), use the Eskom provided List for this tender.	<p>Use, complete and sign the Eskom provided List for this tender.</p> <p>The register must show quantities and if tools are owned or hired.</p> <p>The register must be signed by the Director/CEO/Owner and dated. (Fully completed and signed)</p>	1	
4.	Vehicle Register	Vehicle registration documents indicating ownership of the vehicles or hiring, use the Eskom provided List for this tender.	<p>Use, complete and sign the Eskom provided List for this tender.</p> <p>The register must show quantities and if vehicles are owned or hired.</p> <p>The register must be signed by the Director/CEO/Owner and dated (fully completed and signed)</p>	1	

NOTES ON ELECTRICAL CAPABILITY

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This requirement allows Eskom to assure itself that the contractor has the capability to conduct electrical works in this contract (e.g., testing of installations)

3.2 Functional Evaluation Criteria

This will be a desktop evaluation of the functional requirements ONLY. Objective or contractual requirements submitted will not influence the results of Stage 2 evaluation.

The tenderer needs to obtain a minimum threshold score of 70% in order to pass stage 2 evaluation. The scoring system is depicted in the table below. Final score with numbers beyond the decimal point will be rounded up to 1 decimal.

Table 2: Scoring Distribution for Evaluation Criteria

The table below illustrates the scoring used for the evaluation criteria

Item No.	Description	Weights
1	Skills and Competency Requirements	40%
2	Tools and equipment	40%
3	Vehicles	20%
Total		100%

3.2.1 Skills Competency and Requirements

This section stipulates the training, authorisation, qualifications and accreditation requirements for Minor Works contractors (MV and LV). It should be noted that any requirement that will take significant time to achieve (if not in place) or is directly safety related or has cost implications for the tenderer, is seen as critical. Outstanding items can lead to delays before the contractor can start work. These have been listed in contractual requirements section.

Table 3: Skills and Competency Requirements

Item No.	Criteria	Evidence	Evidence Notes	Min. Required	Max. score
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1	Truck Mounted Crane Operator And Proof of registration with TETA (Transport Education Training Authority).	Valid Truck Mounted/ Mobile Hydraulic Crane Operator Certificate (Code 32 - 43) And the accreditation certificate of the service provider from TETA.	Certificates must be certified and dated and not older than six months from tender closing date. Certificate must be valid at tender closing date Valid for 24 months from date it was issued. Accreditation certificate of the service provider Only certificates of people who appear on the company's organogram will be accepted Note: Sharing of resources is not allowed in this contract and if a company is found or suspected of sharing resources, it will be reported to SD&L (Supplier Development and Localisation) department for further investigation and actions.	1	5
2	ORHVS Training	Valid ORHVS Course Training certificate, Minimum: HV02.	Certified and dated copies submitted must not be older than six months from the tender closing date. Certificate must be valid at tender closing date. Only certificates of people who appear on the company's organogram will be accepted Training certificate must be from an accredited training service provider. Note: Sharing of resources is not allowed in this contract and if a company is found or suspected of sharing resources, it will be reported to SD&L (Supplier Development and Leadership) department for further investigation and actions.	1	5
3	LV ORLVS	Training Certificates	Certified and dated copies submitted must not be older than six months from the tender closing date. Certificate must be valid at tender closing date. Training certificate must be from an accredited training service provider Only certificates of people who appear on the company's organogram will be accepted	1	5

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4	Related work experience	Signed Job Completion certificates or letters.	<ul style="list-style-type: none"> Submit job completion certificates for two projects where your company did work on MV and LV networks either as the main contractor or subcontractor. <p>If MV and LV work was combined in one project e.g., electrification project then only submit 1 job completion certificate or letter.</p> <p>The job completion certificate or letter must clearly show the type of work or scope (MV or LV), and it must be signed by the customer or client.</p> <p>If your company was a subcontractor in these projects, then submit a reference letter written by the main contractor indicating that you were their subcontractor and also submit their job completion certificates for those projects.</p>	2	2
5	Supervision Training	Valid supervision training certificate Relevant SAQA registered Or professionally accredited Training Course EWSETA	<p>Certified and dated copies submitted must not be older than six months from the tender closing date. Certificate must be valid at tender closing date. Training certificate must be from an accredited training service provider.</p> <p>Only certificates of people who appear on the company's organogram will be accepted</p>	1	5
6	Technical Organogram	<ul style="list-style-type: none"> Organogram signed by the Managing Director/CEO/Owner Showing per team at Least 1 Authorized Site supervisor, 2 Linesman, 1 Crane Operator, 2 General workers 	<p>Technical persons Organogram signed by the Managing Director/CEO/Owner</p> <p>Include names and /or ID numbers of the company owner(s), vehicle owner(s), crane operators and line construction employees. The organogram must be signed by the Director/CEO/Owner and dated.</p>	1	5

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7	Cable Jointing and Termination	Training Certificates	<p>Certified and dated copies submitted must not be older than six months from the tender closing date. Certificate must be valid at tender closing date.</p> <p>Training certificate must be from an accredited training provider.</p> <p>Only certificates of people who appear on the company's organogram will be accepted</p>	1	5
TOTAL					32
<p>The final score for Skills and Competency Requirements will be calculated by the formula below:</p> $\frac{\text{Score}}{\text{Total}} \times 40\%$					

Notes

- Certificates of employees that do not appear on the company's organogram will not be accepted.

Note: Sharing of resources is not allowed in this contract and if a company is found or suspected of sharing resources, it will be reported to SD&L (Supplier Development and Localisation) department for further investigation and actions. **Notes: Scoring methodology**

Scoring Methodology for Skills and Competency Requirements	Allocated Score
<p>The required minimum quantity of certified and dated certificates were submitted</p> <ul style="list-style-type: none"> • Minimum certificate required per criteria = 1 	5 (Or 1)
Certificates were not submitted, or they are not certified and dated.	0

Scoring Methodology for Organogram	Allocated Score
Organogram signed and minimum of 5 technical persons (1 Authorized Site supervisor, 2 Linesman, 1 Crane Operator, 2 General workers) required are shown on it.	5
Organogram signed however shows incomplete minimum technical persons required	2
Organogram not submitted or Organogram not signed by the CEO or Company director	0

Scoring Methodology for Related work experience	Allocated Score
Signed job completion certificates or letters were submitted and are for MV and LV work	5
Less than the minimum required quantity was submitted. E.g. >=2 MV only, or >=2 LV only, or 1 LV only or 1 MV only	2

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No signed job completion certificates or letters were submitted, or they were not for MV and LV work	0
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3.2.2 Tools and Equipment

- Tools and equipment will be evaluated based on the tools register and calibration certificates submitted by the tenderers, and it must be in the Eskom format provided.
- The tenderers shall indicate in the tools register if the tools are owned by the company or hired from a bona fide tool hiring company.
- An agreement/contract/letter between a bona fide tool hiring company and the tenderer shall be submitted indicating all the tools that are hired for points to be given.
- The tenderer must note that these tools and equipment tabled below do not mean that these are all tools expected for any type of work. It is the responsibility of the contractor that all tools and equipment required for a particular scope of work is made available for each Task Order received.

Table 4: Tools and Equipment

Item	Tool	Evidence Required	To be Owned or hired?	Min. Qty	Max. Score
1	Electrical and mechanical toolbox	Tools List/Register in Eskom Format	To be owned [#]	1	5
2	Wood augers hand/ petrol/ electrical	Tools List/Register in Eskom Format	To be owned [#]	2	5
3	Conductor roll out blocks	Tools List/Register in Eskom Format	To be owned [#]	2	5
4	Hand line/rope	Tools List /Register in Eskom Format	To be owned [#]	2	5
5	Come alongs	Tools List/Register in Eskom Format	To be owned [#]	3	5
6	Nylon slings/ Chain slings	Tools List/Register in Eskom Format	To be owned [#]	2	5
7	Multimeter*	Tools List/Register in Eskom Format	To be owned [#]	1	10
8	Earth resistance tester*	<ul style="list-style-type: none"> Tools List/Register in Eskom Format Calibration certificate 	To be owned [#]	1	10
9	Phase Rotation Meter*	<ul style="list-style-type: none"> Tools List in Eskom Format Calibration certificate 	To be owned [#]	1	10

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10	Crimping Tools 4PI*	<ul style="list-style-type: none"> Tools List in Eskom Format 1. Calibration certificate 	To be owned #	1	10
11	Crimping Tools (LV Hydraulic) *	<ul style="list-style-type: none"> Tools List/Register in Eskom Format Calibration certificate 	To be owned #	1	10
12	Dynamometer* can be hired	<ul style="list-style-type: none"> Tools List/Register in Eskom Format TE: Calibration certificate and hiring letter where hired 	To be owned or Hired	1	10
13	Lever/ Ratchet hoists/ chain pulls	TE: Tools List/Register in Eskom Format	To be owned #	2	5
14	Climbing shoes/ Fibreglass Ladders/ Bucket	TE: Tools List/Register in Eskom Format	To be owned #	1	5
15	Drilling machine-Electrical	TE: Tools List/Register in Eskom Format	To be owned #	1	5
16	Generators- can be hired	Tools List/Register in Eskom Format TE: Hiring Letter if hired	To be owned or Hired	1	5
17	Compactor mechanical/ hand	Tools List/Register in Eskom Format	To be owned #	2	5
18	DCP tester (or Troxler)* can be hired	<ul style="list-style-type: none"> Tools List/Register in Eskom Format Calibration certificate and hiring letter if hired 	To be owned or Hired	1	10
19	Pulling socks (Cable work)	AMPLE: Tools List/Register in Eskom Format	To be owned #	2	5
20	Phase separators	AMPLE: Tools List/Register in Eskom Format	To be owned #	2	5
21	Earth Leakage Unit (ELU) tester*	<ul style="list-style-type: none"> Tools List/Register in Eskom Format AMPL: Calibration certificate	To be owned #	1	10
TOTAL					145

The final score for Skills and Competency Requirements will be calculated by the **formula** below:

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$$= \times 40\%$$

*Calibration certificates are required for contract award

These tools or equipment must be owned by contractor for a full score.

Notes: Scoring methodology

Scoring Methodology for Tools and equipment	Allocated Score
Tools List/Register in Eskom format submitted, Tool owned/hire by tenderer as indicated by the table above, and calibration certificate is submitted.	5 (Or 10)
Tools List/Register in Eskom format submitted; however, quantities owned/hired does not meet the minimum number of required tools (applicable to owned and hired tool), or tools indicated as hired without accompanying proof (agreement/contract/letter) or no calibration certificate where required.	2 (Or 4)
Tools List/Register in Eskom format submitted not completed or signed or submitted or not in Eskom format or Quantities owned or hired are not indicated	0

3.2.3 Vehicles

- Vehicles will be evaluated based on the vehicles register and licence information submitted by the tenderers, and it must be in the Eskom format provided.

Vehicle registration document shall be submitted for the vehicles listed in the vehicle register. The registration document shall bare the company name or owner(s) name appearing in the company organogram.

- If hiring - An agreement/contract/letter between a bona fide vehicle hiring company and the tenderer shall be submitted indicating all the tools that are hired for points to be given

Table 5: Vehicles

TOTAL SCORE	15	
<p>The final score for Skills and Competency Requirements will be calculated by the formula below:</p> $= \times 40\%$		

Scoring Methodology for vehicles	Allocated Score
Vehicles List/Register in Eskom format was completed and signed and vehicle licence documentation submitted or if hiring-agreement/contract/letter proof from a bona fide hiring company was submitted.	5 (Or 10)

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Vehicles List/Register in Eskom format was completed and signed however the documented proof required was not submitted.	2 (Or (4)
Tools List/Register in Eskom format were not completed or signed or submitted,	0

*Equipotential footplate test certificate and crane load test certificates required for contract award

Notes: Scoring methodology

3.3 Technical Evaluation Stage 3: site assessments

Eskom may decide to conduct Site Assessments of Certificates, Vehicles, Tools and Equipment requirements. This verification will take place at the tenderer's premises or a suitable site. Tenderers will be contacted by Eskom officials in order to make arrangements for the site visit. The outcome of this assessment may or may not change the overall initial desktop evaluation outcome.

Eskom reserves the right to conduct site evaluations only with:

- a) Contractors who do not currently have task orders with Mpumalanga Operating Unit.
- b) Contractors whose desktop evidence prompted the Technical Evaluation Team to conduct a follow up verification
- c) Any contractor that has passed desktop evaluation stage

Table 6: Site verification requirements

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Item No.	VECHICLES - OWNED OR HIRED				Weight	
	Criteria	Evidence	Evidence Notes	Min Req.		
1	Double Cab Bakkie Or Two(2) single cab Bakkies Or Singlecab Bakkie and other vehicle to transport staff (e.g. Minibus/ Quantum, Condo, SUV)	Proof of ownership / Hire agreement/contract/letter	In order to demonstrate ownership, license documents are to be submitted, clearly showing the type of vehicle and the owner's name. If the company has a single cab Bakkie, then they need to submit an additional vehicle for transporting staff to site.	1-if double cab 2- if single cab	10	
2	Truck with Crane-VMC (Crane – 3T minimum)*	Proof of ownership + Proof of Crane / Hire agreement/contract/letter	In order to demonstrate ownership, license documents are to be submitted, clearly showing the type of vehicle and the owner's name. The Crane Load test for the crane on the truck must be submitted.	1	10	
3	Crane Load Test certificate	• Test for all components of the crane.	Provide test reports for the Boom, Chain and Hooks. Note: Proof of existing test certificate will not result in loss of score.	1	5	

Item No.	Description	Evidence
1	Site verification of vehicles, tools and equipment	Tools, as per Tools List/Register shown on tables, to be presented to Eskom at a location that will be determined and communicated to all that passed the functional evaluation.

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The site verification will be to confirm resources required for this tender.

Final Tender Score = Skills and Competency Requirements (Desktop score) + Site verification Tools and equipment score + Site verification Vehicles score

Minimum threshold is still 70%. If no site verification was performed, then desktop scores will be used. Final score with numbers beyond the decimal point will be rounded up to 1 decimal.

3.4 Contractual Requirements

Contractual requirement will not be evaluated during desktop evaluations but will become a requirement before contract award. These requirements have been identified as important for the scope of MV and LV Work.

Contractual requirements should be submitted within the duration determined by procurement department.

Table 7: Contractual requirements

Item No.	Description	Evidence
1	Full compliance with Functional criteria	Submit outstanding documents that made your company score less than 100% . The evidence documents are as indicated in the functional criteria requirements.
2	Website Access	Letter showing username and password
3	MV Authorization- specifically for NCOU zones.	Valid authorization document in the Northern Cape Operating Unit, Outcome 3 or a Completed P.O.E that has been signed off by Officer Technical Officer that all PreRequisites are met. Contractors will have a maximum of 90 days to be authorised if all Pre-Requisites are met
4	LV Authorization- specifically for NCOU zones.	Valid authorization document in the Northern Cape Operating Unit. a Completed P.O.E that has been signed off by Officer Technical Officer that all Pre-Requisites are met. Contractors will have a maximum of 90 days to be authorised if all Pre-Requisites are met

Notes on Eskom Distribution Technology Website Access:

- PDE registration confirmation letter with login details should be submitted at contract award stage.
- The registration must be valid at contract award stage.

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APPENDIX A: TOOLS AND EQUIPMENT TENDERER RESPONSE FORM

Company Name: -----

Item	Tool	Evidence Required	Min. Qty	Quantity Owned	Quantity Hired
1	Electrical and mechanical toolbox	Tools List/Register in Eskom Format	1		N/A
2	Wood augers hand/ petrol/ electrical	Tools List/Register in Eskom Format	2		N/A
3	Conductor roll out blocks	Tools List/Register in Eskom Format	2		N/A
4	Hand line/rope	Tools List /Register in Eskom Format	2		N/A
5	Come alongs	Tools List/Register in Eskom Format	3		N/A
6	Nylon slings/ Chain slings	Tools List/Register in Eskom Format	2		N/A
7	Multimeter*	Tools List/Register in Eskom Format	1		N/A
8	Earth resistance tester*	<ul style="list-style-type: none"> Tools List/Register in Eskom Format Calibration certificate 	1		N/A
9	Phase Rotation Meter*	<ul style="list-style-type: none"> Tools List in Eskom Format Calibration certificate 	1		N/A
10	Crimping Tools 4PI*	<ul style="list-style-type: none"> Tools List in Eskom Format Calibration certificate 	1		N/A
11	Crimping Tools (LV Hydraulic)*	<ul style="list-style-type: none"> Tools List/Register in Eskom Format Calibration certificate 	1		N/A
12	Dynamometer* can be hired	<ul style="list-style-type: none"> Tools List/Register in Eskom Format Calibration certificate and hiring letter where hired 	1		N/A
13	Lever/ Ratchet hoists/ chain pulls	<ul style="list-style-type: none"> Tools List/Register in Eskom Format 	2		N/A
14	Climbing shoes/ Fibreglass Ladders/ Bucket	<ul style="list-style-type: none"> Tools List/Register in Eskom Format 	1		N/A
15	Drilling machine-Electrical	<ul style="list-style-type: none"> Tools List/Register in Eskom Format 	1		N/A

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16	Generators- can be hired	Tools List/Register in Eskom Format • Hiring Letter if hired	1		N/A
17	Compactor mechanical/ hand	Tools List/Register in Eskom Format	2		
18	DCP tester (or Troxler)* can be hired	• Tools List/Register in Eskom Format • Calibration certificate and hiring letter if hired	1		
19	Pulling socks (Cable work)	Tools List/Register in Eskom Format	2		N/A
20	Phase separators	Tools List/Register in Eskom Format	2		N/A
21	Earth Leakage Unit (ELU) tester*	• Tools List/Register in Eskom Format • Calibration certificate	1		N/A

*Calibration certificate required for contract award

I hereby confirm that the tools and equipment list above is a true reflection of the vehicles owned or hired by _____ (Company name).

Name: _____ Signature: _____

Date _____

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APPENDIX B: VEHICLES LIST TENDER RESPONSE FORM

Company Name: -----

		If "Owned", provide the following information:		Minimum Quantity required	
Vehicle	Indicate if Owned or Hired	Vehicle Registration Number	Vehicle Make	1 Team	
Bakkie (or LDV)	<div></div> <div></div> <div></div> <div></div> <div></div>	<div></div> <div></div> <div></div> <div></div> <div></div>	<div></div> <div></div> <div></div> <div></div> <div></div>	1 – if double cab 2 – if single cab	3
Truck with CraneVMC (Crane – minimum)* 3T	<div></div> <div></div> <div></div> <div></div> <div></div>	<div></div> <div></div> <div></div> <div></div> <div></div>	<div></div> <div></div> <div></div> <div></div> <div></div>	1	
for Other vehicle transporting staff	<div></div> <div></div> <div></div>	<div></div> <div></div> <div></div>	<div></div> <div></div> <div></div>	1	
TOTAL				12	

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*Equipotential footplate test certificate and crane load test certificates required for contract award Copies of certified and dated vehicle registration documents which bare the owner's/company name as per the vehicle list above.

I hereby confirm that the vehicle list above is a true reflection of the vehicles owned or hired by _____ (Company name).

Name: _____ Signature: _____
Date _____

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APPENDIX C: AFFIDAVIT CONFIRMING EMPLOYMENT OF RESOURCE

I, _____ (full names),

ID Number: _____,

Hereby confirm that I am currently employed as (tick all where appropriate):

☐

Accredited MV Line Construction Resource (MV)

☐

Accredited LV Line Construction Resource (LV)

At _____ (Tendering Company Name).

I solemnly declare that all the information contained herein is true.

Signature of Employee: _____

Sworn to/Affirmed before me at _____

On this the _____ day of _____ (month & year).

Commissioner of Oaths/Justice of Peace:

..... (Commissioner's stamp, with signature and date)

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APPENDIX D: DETAILED SCOPE OF WORKS

A1. WORKS INFORMATION

This contract is for the supply of Labour, Transport and Material for Low and Medium Voltage Works on Lines and all associated works in the Northern Cape Operating Unit on an "As and When" required basis at fixed activities and rates. The contractor is to supply minor material, however the Big 5 material list has also been included where Eskom is not able to supply. Contractor supplied material is subject to approval from Eskom. It is the responsibility of the contractor that all tools and equipment required for a particular scope of work is made available for each Task Order received.

- The contractor shall adhere to all Eskom procedures and shall confirm that he understands the procedure and will adhere to the procedure at all times.
- The contractor will be required to have Eskom identification on himself and his staff as well as the vehicles used. This identification shall be as per Eskom corporate logo requirements for contractors.
- All work must be performed in accordance with the Scope of Work layout.
- Where any vegetation is very close to or touching Eskom live conductors the contractor will inform the CNC before doing any tree or bush cutting. A vegetation management contractor will then be tasked to proceed to cut vegetation when it is safe to do so. All work must be performed in accordance with the Scope of Work layout.
- Work done by the contractor will be assessed by a number of Eskom personnel. An NEC Notification of Default (NOD) will be issued to the contractor if work done is found not be according to the required standards and specifications. Where repeated NOD's are issued to the contractor for the same type of mistake and unwillingness from the contractor to correct is evident, the contractor may be charged penalties or a contract be terminated.

1. Description of the works

MV and LV Scope of Works

1.1 Pole Planting

Excavation of Stay and Pole Holes

- a) The contractor shall provide all trenching, excavation of pole and stay holes, bedding material, back filling and surface reinstatement as required.
- b) Pole holes shall be dimensioned as per design drawings.
- c) Cable trenches shall be dimensioned as per design drawings.
- d) Stay holes shall be dimensioned as per design drawings

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- e) All excavations shall be kept covered or barricaded, if not attended to, in a manner accepted by Eskom to prevent injury to people or livestock.
- f) The contractor must allow for all soil conditions in his tender price. No additional payments will be considered.
- g) Risk of collapse and keeping excavations free of water shall be included in the quoted rate.
- h) When using blasting or drilling contractors the contractor remains responsible for cleaning of the holes, and all other possible damages as a result of blasting.
- i) Contractor will have approval from all relevant departments including Project Co-ordinator and Clerk of Works regarding use of compressor / blasting.

Planting of Stays and Poles

- a) All poles shall be positioned plumb vertical in the centre of the excavations viewed from any directions.
- b) Planting of poles and backfilling of holes shall be in accordance with the design.
- c) Removal of poles shall be done according to the Eskom procedures and standards.
- d) The soil nomination and foundation types shall be done by a competent person and accepted by Eskom.
- e) The contractor shall quote for items that were used in the construction of special foundations as requested by Eskom.

Soil Compaction

- a) Planting of poles and backfilling of holes shall be in accordance with the design.
- b) The stay plate shall be placed up against undisturbed soil on the pole side of the hole; the hole shall be backfilled and compacted in layers of 150mm.
- c) Compaction testing (DCP Test) shall be conducted upon request from Eskom at no additional cost.

Pole Numbering

- a) Supplying and installing all tags, punches, and equipment to install MV and LV pole numbering.
- b) All labelling and marking in accordance with the design.
- c) Poles shall be numbered as indicated on the design drawing.

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Stays

- a) Supply and install complete stay assembly according to relevant structure drawing.
- b) Planting of stays and backfilling of holes shall be in accordance with the design.
- c) Risk of collapse and keeping excavations free of water shall be included in the quoted rate.
- d) All stays shall be planted with the relevant stay plates fitted on the stay rod.
- e) The stay plate shall be placed up against undisturbed soil on the pole side of the hole; the hole shall be backfilled and compacted in layers of 150mm.
- f) Struts shall be fitted with barbed wire anti climbing devices.
- g) The cost of construction/temporal stays is for the account of the contractor.
- h) Compaction testing (DCP Test) shall be conducted upon request from Eskom at no additional cost.

Service Boxes

- a) Supply and install pole-top distribution box complete with tails, stainless steel strapping and connectors to ABC
- b) The pole-top distribution box shall be in accordance with the design and latest standards.
- c) The pole-top box shall be connected so that the loads are, as far as practicable, balanced across phases with reference to the LV distributor. (See phasing on design drawing).
- d) The pole-top box shall be secured to the pole using stainless steel strapping.
- e) The pole top box shall be marked with the corresponding phase connection.
- f) The pole top box must be locked with the LV Eskom approved pad locks

Morsdorfer Fuse Assembly Installation shall include:

- a) The LV fuse units shall be positioned in a way that facilitates ease of operation from ground level using a link stick with the appropriate attachments.
- b) The units shall be placed below the LV conductor and the position shall also allow for future LV units to be installed where upgrading of the network is anticipated.
- c) The transformer structure drawing D-DT-0309 indicates proposed fuse unit positions for up to 4 units. Typically, two LV feeders can be fed from one fuse unit.

1.2 Hardware

- a) Structural and Pole Dressing shall be done in accordance to the design standards.

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- b) Care shall be taken when dressing MV and LV Shared structures so as to ensure all vertical clearances are met when stringing is completed.

1.3 Stringing

Stringing

- a) All stringing shall be done according to the approved Sag and Tension Charts.
- b) The contractor shall provide suitable dynamometer sighting rods or other approved apparatus necessary for proper checking of the work. Dynamometers shall be calibrated in kg or kN.
- c) All joints and connections shall be the compression type and shall comply with the requirements of applicable design standards. Bolted joints shall only be used as approved or directed by the Eskom design engineers.
- d) Only persons who have passed Eskom approved compression jointing training and have proof of this are permitted to perform this work on the Eskom network.
- e) No joints shall be placed in crossing spans.
- f) Joints shall, as far as possible, be made in the middle third of a span. No joint shall be placed within 20m of a structure.

1.4 Cable layout

- a) All cable layouts including joints and termination shall be done according to the Eskom procedures and standards.
- b) Only persons who have passed Eskom approved cable jointing training and have proof of this are permitted to perform this work on the Eskom network.

1.5 Miscellaneous

- a) Contractors may propose and price for any other item not catered in the scope.
- b) The authorisation for the highest voltage shall take precedence when work is performed on MV and LV Shared and Semi-shared Structures.
- c) The contractor shall be expected to supply and install miscellaneous items listed below as and when required:
 - Crusher stone
 - Fence installations or maintenance
 - Importing of soil

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- Installation any structure or product or enclosure aimed at protecting existing electrical infrastructure from damage / vandalism / theft. This shall be done as per Eskom guidelines, designs, and standards.

1.6 Commissioning

- a) Works to be commissioned according to the applicable Eskom Standards
- b) Handing over and documentation to be completed per on completion.
- c) Contractor to supply all test equipment necessary for testing of the line.
- d) Contractor to timeously confirm the exact dates and times of the arranged outages for commissioning purposes
- e) The contractor to supply all material necessary to perform commissioning in accordance with design
- f) Where LV zones have been split, the contractor to complete commissioning by re-capturing customer data (PCS File).

1.7 Auxiliary Equipment

- a) Supplying and installing all auxiliary equipment shall be according to the relevant structure drawing and standards.
- b) Connection of auxiliary equipment onto MV line shall be done using relevant crimps.
- c) Auxiliary equipment earthing shall be in accordance with the relevant structure drawing and standards.
- d) Testing required to be conducted by the contractor on auxiliary equipment includes but not limited to:
Earth electrode resistance testing, continuity testing, phase rotation testing,
- e) It will be the responsibility to ensure that the test results comply with the Eskom standard before such an installation can be deemed complete

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