

 Eskom	Guideline	Technology
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Title: **TECHNICAL EVALUATION
CRITERIA FOR HV LINE
CONTRACTORS**

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1. Introduction

The technical evaluation of HV Line contractors is typically done by the Standards Implementation (SI) department within each Operating Unit (OU) in the absence of a national contract that caters for the needs of all Operating Units. The problem however is that the SI departments in the various OUs each use their own criteria when doing these evaluations, which led to inconsistent outcomes. The need therefore arose to have guiding technical evaluation criteria document for the operating units to refer to or use. The use of this document in a regional tender is discretionary but encouraged to ensure standardisation across all OU's.

2. Supporting clauses

2.1 Scope

This document sets out the guideline criteria to be used when evaluating a contractor for the construction of HV Lines. The high level activities are: Foundations construction, Structure assembly and erection, stringing and regulation of phase conductors and shieldwire. The evaluation requirements for contractors to string and terminate fibre (All Dielectric Self Supporting-ADSS or Optical Ground Wire-OPGW) are not covered in this document.

2.1.1 Purpose

The document is written to guide Operating Units on the criteria to be used when evaluating a contractor for the construction of HV Lines. Operating units may still produce their own additional requirements guided by this document. OUs may move requirements around between the different stages of mandatory requirements, Functional criteria and contractual requirements and scores and quantities may be adjusted to suit the tender's scope of works.

2.1.2 Applicability

This document shall apply to Eskom Holdings Distribution Division.

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] 240-48929482, Tender Technical Evaluation Procedure

2.2.2 Informative

- [3] See Annexure A

2.3 Definitions

2.3.1 General

None

2.3.2 Disclosure classification

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

2.4 Abbreviations

Abbreviation	Description
CIDB	Construction Industry Development Board
DBOUS	Design Base and Operating Unit Support
HV	High Voltage
OU	Operating Unit
PDE	Power Delivery Engineering
SAQA	South African Qualifications Authority
SCOT	Steering Committee of Technology
SI	Standards Implementation

2.5 Roles and responsibilities

The SI managers in the various OUs shall ensure that this document is implemented within their section as and when required.

2.6 Process for monitoring

The document shall be reviewed as and when required to be always in line with the best technological practices, Eskom's procurement policies and the Tender Technical Evaluation Procedure (240-48929482).

2.7 Related/supporting documents

Not applicable.

3. Evaluation criteria

The evaluation criteria described in the following sections may be used to evaluate any service provider that wishes to provide the services of HV Line construction, refurbishment and dismantling. The evaluation may be conducted in three consecutive stages, i.e. Technical Evaluation Stage 1: Mandatory requirements, Stage 2: Functional Criteria and Stage 3: Site Assessments (if necessary).

3.1 Stage 1: Mandatory requirements

The following are mandatory requirements; failure to provide documentation evidence will result in the tenderer being disqualified. There will be no scoring linked to these requirements. Only Yes or No answers will be accepted and the required outcome is for the tenderer to have Yes for all mandatory requirements listed on the table below.

Table 1: Technical Mandatory requirements (Yes/No)

Item No.	Description	Proof documentation required	Evidence Notes	Min Qty
1	Line Construction - Civil work and foundations <ul style="list-style-type: none"> Foundations Course or module Or accredited builder(NHBRC) 	Certified certificate Or accreditation certificate	<ul style="list-style-type: none"> Certified and dated copies of Foundation course attended. 	2

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Item No.	Description	Proof documentation required	Evidence Notes	Min Qty
	<ul style="list-style-type: none"> Or accredited Bricklayer (with a Trade Test certificate) 		<ul style="list-style-type: none"> Or certified and dated copy of NHBC. If NHBC certificate is in another company's name then submit a Contractual agreement with a company which possess a NHBC Registration certificate. Or a certified and dated Trade Test certificate. 	
2	Line Construction Training - Structural works and stringing (MV or HV)	Certified certificate	<ul style="list-style-type: none"> Certified and dated certificate of person(s) who have completed Line construction training course. 	2
If you do not have this combined Line construction training, then submit the following individual courses (3.1-3.3).				
	3.1. Line Construction (structure assembly and erection) <ul style="list-style-type: none"> Erecting Steel or wood structure Course or module 	Certified certificates	<ul style="list-style-type: none"> Certified and dated certificate of person(s) who have completed this course alone or as part of a combined training. In case of combined certificates: If the certificate does not clearly indicate this course, then submit the detailed list of courses under that certificate to prove that this course was covered. 	2
	3.2. Line Construction (stringing, regulating) <ul style="list-style-type: none"> Use of tension-stringing gear or Stringing and Regulating Course or module 	Certified certificate	<ul style="list-style-type: none"> Certified and dated certificate of person(s) who have completed this course alone or as part of a combined training. In case of combined certificates: If the certificate does not clearly indicate this course, then submit the detailed list of courses under that certificate to prove that this course was covered. 	2
	3.3. Line Construction (Jointing and making off) <ul style="list-style-type: none"> Crimping Course or module 	Certified certificate	<ul style="list-style-type: none"> Certified and dated certificate of person(s) who have completed this course alone or as part of a combined training. In case of combined certificates: If the certificate does not clearly indicate this course, then submit the detailed list of courses under that certificate to prove that this course was covered. 	2
3	Technical Organogram	Organogram signed by the Managing Director/CEO/Owner	Include names and /or ID numbers of the company owner(s), vehicle owner(s), and line construction employees as listed in Table4 Competency Requirements	1
4	Tools List	Signed & completed Tools List	Tools List as per Annexure D	1
5	Vehicle List	Signed & completed vehicle List	Vehicle List as per Annexure C	1

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Important Notes:

- Certified copies submitted must not be older than three months from the tender closing date.
- If certification validity date has changed and published by Government, then the Eskom requirement shall be superseded by the Government regulation.
- 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

3.2 Stage 2: Functional Criteria

This will be a desktop evaluation of the mandatory requirements only. Contractual requirements submitted will not influence the results of Stage 2 evaluation.

The tenderer needs to obtain a minimum threshold score as determined by the Procurement Strategy for the specific tender concerned in order to proceed from the stage 2 evaluation. The following shall be used as functional criteria:

Table 2: Summary of functional requirements

Item No.	Description	Weights
1	Training requirements, Authorisations & Qualifications	40%
2	Tools and equipment	20%
3	Vehicles	20%
4	Related work experience	20%

3.2.1 Scope, Training requirements, Authorizations & Qualifications

This section stipulates the training, authorisation, qualification and accreditation requirements for HV Line contractors. It should be noted that any requirement that will take significant time to achieve (if not in place) or is directly safety related, is seen as critical. This will result in undue delays before the contractor may commence work. These have been listed in Table 4 below.

Table 3: Competency Requirements

Item No.	Training Requirements	Evidence or Proof Required	Evidence Notes	Min Qty	Max. Score
1	Supervision – Construction and civil works Relevant SAQA registered	Certified certificate	<ul style="list-style-type: none"> • Certified and dated certificate of construction supervision specifically, no generic supervision training to be accepted. 	1	5
2	Supervision – Electrical works Accredited Training Course EWSETA	Certified certificate	<ul style="list-style-type: none"> • Certified and dated certificate of a supervisor whose training involves supervision of Electrical works. 	1	5
3	ORHVS training – minimum : Responsible person Or ORHVS Authorization in any Operating unit – minimum: Outcome 5	Valid ORHVS Course Training certificate, certified Or Valid Authorization document.	<ul style="list-style-type: none"> • Certified and dated ORHVS or authorisation documents. • The documents at initial tendering stage may be from any OU or Power Utility as long as it is in line with the ORHVS. 	1	5

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Item No.	Training Requirements	Evidence or Proof Required	Evidence Notes	Min Qty	Max. Score
4	Eskom Method Statements	Submission of Letter to acknowledge Eskom specifications and standards (Annex B)	The acknowledgement waives the requirement for the contractor to write generic safe work procedures at tendering stage.	1	10
TOTAL					25
The final score for Skills and Competency Requirements will be calculated by the formula below:					
$Final\ Score = \frac{Tenderer\ Score}{Total\ points} \times 40\%$					

Important Notes:

- Certified copies submitted must not be older than three months from the tender closing date.
- If certification validity date has changed and published by Government, then the Eskom requirement shall be superseded by the Government regulation.
- 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

3.2.2 Tools and equipment

- Include a signed TOOL LIST with the following tools, indicating if the tool is owned or being hired.
- For proof of ownership, indicate ownership "owned" (O) in the tool list provided.
- For proof of hiring, indicate "hiring" (H) on the tool list provided and include a letter from a bona-fide hiring company. The hiring letter must indicate the specific tool as well as the tenderers company name.
- Calibration and test certificates for tools and equipment shall be mandatory at TASK ORDER stage.
- Operating Units may require for certain Tools and equipment to be owned as part of the technical evaluation criteria.
- Operating Units may require the submission of test and calibration certificates as part of the technical evaluation criteria.

Table 4: Tools and Equipment

Item No.	Mandatory Tool	Evidence Required	Owned / Hired	Min Qty.	Max. Score
1.	Hydraulic conductor cutter	Tools List	O / H	1	5
2.	Cable/Conductor drum trestle (Braked)	Tools List	O / H	3	5
3.	Thermometer	Tools List	O / H	1	5
4.	Dynamometer	Tools List	O / H	2	5
5.	Tension stringing gear (bullwheel min. 1.2m dia.) Tensioner (4kN min.)	Tools List	O / H	1	5
6.	Tension stringing gear (bullwheel min. 1.2m dia.) Puller with dynamometer	Tools List	O / H	1	5

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Item No.	Mandatory Tool	Evidence Required	Owned / Hired	Min Qty.	Max. Score
7.	Theodolite & accessories – required for poles and stub setting towers	Tools List	O / H	1	5
8.	Automatic level & accessories – required for lattice towers	Tools List	O / H	1	5
9.	Dynamic Cone Penetrometer	Tools List	O / H	1	5
10.	General construction (Picks, Shovels, Wheelbarrows, Hand Compactors)	Tools List	O / H	1 set	5
11.	Mechanical Compactors (Trenches (Wacker) & Surface (roller))	Tools List	O / H	1	5
12.	Dumper	Tools List	O / H	1	5
13.	Concrete Mixer	Tools List	O / H	1	5
14.	Wood float	Tools List	O / H	1	5
15.	Trowel	Tools List	O / H	1	5
16.	Vibrators for concrete	Tools List	O / H	1	5
17.	Compressor (with jackhammers)	Tools List	O / H	1	5
18.	Portable earths 16mm ² (Working - Lines)	Tools List	O / H	2	5
19.	Portable earths (Working - Lines) (Lattice) - 16mm ²	Tools List	O / H	2	5
20.	Safety Tester (Contact type tester)	Tools List	O / H	1	5
21.	Earthing Stick / Telescopic Link stick	Tools List	O / H	1	5
22.	Earth resistance tester with suitable wires(wires at least 100m long)	Tools List	O / H	1	5
23.	SLINGS (Steel, chain and canvas – as per application- Min. 1.5T)	Tools List	O / H	6	5
24.	Tirfor (Winch) 1600kg-for poles	Tools List	O / H	1	5
25.	Shield wire Grip (Steel)	Tools List	O / H	6	5
26.	Conductor Grip (Al) (10mm-36mm)	Tools List	O / H	6	5
27.	Pulling Eye - 45kN	Tools List	O / H	3	5
28.	Lever Hoists - 1.5T & 3T	Tools List	O / H	3	5
29.	D-Shackles (containing SWL)	Tools List	O / H	12	5
30.	Snatch blocks	Tools List	O / H	2	5
31.	Guide / pilot rope	Tools List	O / H	3kmx3	5
32.	Stringing wheels / Conductor pulleys (Min.dia 600mm)	Tools List	O / H	30 (10x3)	5
33.	Stringing wheels / Conductor pulleys (Min.dia 300mm)	Tools List	O / H	30 (10x3)	5
34.	Swivels	Tools List	O / H	6	5

Item No.	Mandatory Tool	Evidence Required	Owned / Hired	Min Qty.	Max. Score
35.	100Ton Compression Tool	Tools List	O / H	1	5
36.	Die Set for phase conductors	Tools List	O / H	1	5
37.	Die set for earth wire	Tools List	O / H	1	5
38.	Generator	Tools List	O / H	1	5
39.	Ladders (Extension & Hook) 8-9m	Tools List	O / H	1	5
40.	Toolbox with general tools (Spanners, Pliers, cutters, screwdrivers, tape measure etc.)	Tools List	O / H	1	5
41.	Hammers Min. 1800g	Tools List	O / H	2	5
42.	Bolt-cutter Med.	Tools List	O / H	1	5
43.	Wood augers (Drills for wood poles or wood cross arms)	Tools List	O / H	2	5
44.	Strapping tool	Tools List	O / H	1	5
45.	Hole alignment wedge (for poles) -1 per team	Tools List	O / H	1	5
46.	Torque Wrench 30-150Nm	Tools List	O / H	1	5
47.	Jacks & Props	Tools List	O / H	1	5
48.	Crowbar -1 per team	Tools List	O / H	1	5
49.	Hole digging post bar -1 per team	Tools List	O / H	1	5
50.	Chainsaws	Tools List	O / H	1	5
51.	Handheld radios	Tools List	O / H	2	5
52.	Hand lines -1 per team	Tools List	O / H	1	5
53.	Straight Level min 1.2m	Tools List	O / H	1	5
TOTAL					265
The final score for tools and equipment requirements will be calculated by the formula below:					
$Final\ Score = \frac{Tenderer\ Score}{Total\ points} \times 20\%$					

3.2.3 Vehicles

- Include a signed VEHICLE LIST with the following vehicles, indicating if the vehicle is owned or being hired.
- For proof of ownership, include a copy the vehicle license information document.
- For proof of hiring, include a letter from a bona fide hiring company. The hiring letter must include the vehicle type as well as the tenderers company name.

Table 5: Mandatory vehicles

Item No.	Mandatory Vehicle	Evidence	Owned or Hired	Min Qty.	Comments	Max. Score
1	Crane truck - Min. 18m reach	Proof of ownership / Hire Letter	O / H	1	<ul style="list-style-type: none"> 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. 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 	5
2	Suitable transport for workers: Minimum 4 workers	Proof of ownership / Hire Letter	O / H	1	<ul style="list-style-type: none"> 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. A tenderer is not allowed to hire from another Electrical construction Company This other vehicle shall not be same Bakkies or LDVs listed below. 	5
3	Bakkie / LDVs	Proof of ownership / Hire Letter	O / H	2	<ul style="list-style-type: none"> 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. 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 	5
TOTAL						15
The final score for vehicles requirements will be calculated by the formula below:						
$Final\ Score = \frac{Tenderer\ Score}{Total\ points} \times 20\%$						

The following vehicles may be specified where required, depending on project types, project complexities and project risk mitigation.

- Down the Hole Drill (DTH) suitable for 300mm and 450mm piles, must reach 4m below ground
- Concrete mixer
- Crane 50~200ton capability

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d) Tractor-Loader-Backhoe (TLB) or tracked excavator

Operating Units may require for certain vehicle to be owned as part of the technical evaluation criteria.

Operating Units may require the submission of test certificates of cranes and earth footplate as part of the technical evaluation criteria.

3.2.4 Company related work experience

This section evaluates the experience of the contractor to enable Eskom to identify the risk associated with using an inexperienced contractor for a critical task such as HV Line construction. The contractor is expected to demonstrate experience in the following:

Table 6: Related work experience

Item No	Mandatory experience	Evidence	Min Qty.	Max. Score
1	Previous steel mono pole line (>33kV) construction projects	<ul style="list-style-type: none"> Submit references letters or customer feedback or handing over documents. Submit summary of company related experience as per Annexure E 	x1	5
2	Previous concrete mono pole line (>33kV) construction projects	<ul style="list-style-type: none"> Submit references letters or customer feedback or handing over documents. Submit summary of company related experience as per Annexure E 	x1	5
3	Previous Lattice tower line (>33kV) construction projects	<ul style="list-style-type: none"> Submit references letters or customer feedback or handing over documents. Submit summary of company related experience as per Annexure E 	x1	5
4	Previous Wood multipole line (>33kV) construction projects	<ul style="list-style-type: none"> Submit references letters or customer feedback or handing over documents. Submit summary of company related experience as per Annexure E 	x1	5
TOTAL				20
The final score for company related work experience requirements will be calculated by the formula below:				
$Final\ Score = \frac{Tenderer\ Score}{Total\ points} \times 20\%$				

Important Note:

The experience stated above is for the tendering company and not an individual personnel's experience. OUs reserve a right to request individuals experience as part of the technical evaluation criteria.

3.3 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 any contractor.

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Table 7: Site verification requirements

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.

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.

4. Contractual Requirements

Contractual requirement will not be evaluated during desktop evaluations but will become a requirement before contract award. These requirements will be required at contract award as they have been identified as important for the scope of HV Lines construction, but were seen as not critical (low risk) at desktop evaluation stage.

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

Table 8: Contractual requirements

Item No.	Description	Proof documentation	Evidence Notes	Yes / No
1	PDE SCOT Website Access	Letter showing username and password	Contractors need to subscribe to the PDE Website in order to get the latest Eskom standards and drawings. Access within Eskom - http://www.eskom.co.za/or , Access outside Eskom - https://scot.eskom.co.za/ The confirmation of access Letter should be valid at the time it gets submitted.	Y / N
2	Operating Unit Specific High Voltage Authorization	Valid authorization document	Contractors shall obtain the OU specific Authorization in line with the ORHVS before a task order can be issued to them.	Y / N

5. Technical evaluation thresholds

The minimum weighted final score (threshold) required for a tenderer to be considered from a technical perspective is 70% in compliance with the technical evaluation procedure 240-48929482 clause **3.4.2.4 Minimum Weighted Final Score**.

Contractors who pass these criteria during desktop evaluation stage may be selected to undergo an on-site verification/evaluation before being awarded a contract. If any information provided during the desktop evaluation is found to be fraudulent and/or inaccurate during the verification process, Eskom reserves the right to disqualify the company from the tender.

6. Authorisation

This document has been seen and accepted by:

Name and surname	Designation
Amelia Mtshali	Senior Manager PDE DBOUS
Vinod Singh	Senior Manager DBOUS
Vusi Phiri	Manager SI MOU
Deidre February	Manager SI WCOU
Henri Jordaan	Manager SI ECOU
Mmedi Motaung	Manager SI LOU
Stephen Nkwane	Manager SI GOU & NWOU
Riaz Asmal	Manager SI KZNOU
Rudi Kleinhans	Manager SI FSOU & NCOU
Bob Branfield	Snr Consultant LES

7. Revisions

Date	Rev	Compiler	Remarks
Sept 2020	3	NE Khoza.	Changed the bulletin into a guideline.
Nov 2018	2	NE Khoza.	Changed document contents to be in line with the latest commercial and technical specification. Changed the bulletin into a standard.
June 2015	1	S Terblanche	New document (240-81141534).

8. Development team

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

- Nkateko Khoza
- Vusi Phiri
- Boreman Risiva
- Jason Blaauw
- Athelene Gouws
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- Deon Adendorff
- Cobus Bosch
- Mohamed Khan
- Zane Evans
- Sydwell Makhaye

9. Acknowledgements

- Stefan Terblanche

Annex A – Specifications and Standards

- This is a list of most of the Standards and Task manuals referenced or described as being part of the Works Information.
- This list includes publicly available standard specifications which may not be attached, but which are part of the Works Information.
- The latest revisions of Acts, Methods, Standards and Specifications shall be used by the contractor at all times.

Table A.1: Reference to detail specifications

Document	Title and Publisher
240-42025805	Stringing Conductors Over Energised Lines 11kV to 132kV Using Live Work Methods
240-141975543	Construction Structure Changes or Structure Movement
12TB-40	Interim Guide for the Design, Construction and Maintenance of Lines Exposed to Snow Loading
240-47172520	The Design and the Standard for the Construction of Overhead Powerlines
240-128559117	Method Statements for Eskom Substations – Stringing , Erection, Earthing and Cabling
240-105506494	Eskom Line Construction Technique Standard (* not yet published)
240-97759615	Assembling and Installation of Steel Mono Poles
240-77090523	Dismantling of Overhead Lines
240-97759751	Replacement of a Rotten - Broken Pole with a Vehicle Mounted Crane
240-153633907	Replacing of a 5-Pole Suspension Structure: Wood Pole
240-71380115	Metal Structure Power Line Inspections and Defect Clearing - Lattice Structures, Insulators & Conductors
240-129249916	Excavation For Lines & Substations
240-129231187	1 CASTING OF CONCRETE
240-129239389	DYNAMIC CONE PENETROMETER TEST
240-134795927	BARRICADING OF EXPOSED EXCAVATIONS
240-134796849	INSTALLATION OF EARTHING ON SUB-TRANSMISSION LINE STRUCTURES
DMN_34-298	LABELLING OF SUBSTATIONS AND LINES
DMN_34-301	0 SHORING OF EXCAVATION FOR LINES AND SUBSTATIONS
240-134795391	Installing Of Reinforcing Bar And Formwork
240-47172520 (TRMSCAAC1)	The Design and Construction of Overhead Powerlines

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Document	Title and Publisher
240-47172620 (TRAMSCAAC5)	The Standard For The Construction Of Overhead Powerlines
240-70413865	Power Delivery Operating Assessment, Authorisation and Training Standard
240-86100853	Standard for Barricading Prohibited Area and Live Chamber
240-114967625	Operating Regulations For High-Voltage Systems
240-103616544	Aviation Requirements for Power Lines, Buildings, Towers, Wind Turbines and Related Structures
240-125383428	Building Line Restrictions, Servitude Widths, Line Separations And Clearances From Power Lines
240-75655504	Corrosion Protection Standard for New Indoor and Outdoor Eskom Equipment, Components, Materials and Structures Manufactured from Steel Standard
240-75883148	Specification For Conventional Stay Planting, Percussion Stay And Rock Anchor Installations And Compaction Testing
240-75883230	Refurbishment Of Steel Power Line Structures
240-75880946 (SCSASABF9)	Earthing Standard
240-130615862 (TRMASAAJ7)	Earthing of Transmission Line Towers
240-120804300	Standard For The Labelling of Electrical Equipment within ESKOM Wires Networks
240-75906867	Guide For The Storage, Transport And Handling Of Composite Insulators.
240-120804300	Standard For The Labelling Of Electrical Equipment within ESKOM Wires Networks
240-114967625	Operating Regulations for High Voltage Systems
240-75655504	Corrosion Protection Standard for New Indoor and Outdoor Eskom Equipment, Components, Materials and Structures Manufactured from Steel Standard

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Annex B – Acknowledgement of Eskom Method Statements

Tender Technical Evaluation Team Leader
Eskom Holdings SOC Ltd
2 Maxwell Drive
Sunninghill
Sandton
2157

Date : _____

Enquiries: _____ (Tel No.)

Dear Sir/ Madam

RE: ACKNOWLEDGEMENT OF ESKOM SPECIFICATION S AND STANDARDS

This Letter serves to confirm that our company acknowledges and will make use of Eskom's work specifications and standards and will where required provide Eskom with written method statements / safe work procedures for the given scope of works at Task Order stage.

Yours Sincerely

Name : _____ (Company Owner)

Signature : _____ (Company Owner)

Company Name : _____

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Annex C – Technical Evidence - Vehicles

Mandatory Requirements:

Include a VEHICLE LIST with the following vehicles, indicating if the vehicle is owned or being hired.

For proof of ownership, include a copy the vehicle license information document.

For proof of hiring, include a letter from a hiring company.

Company Name: _____

		If "Owned" provide the information below		
Mandatory Vehicle	Owned Hired	or	Vehicle Registration Number	Vehicle Make Vehicle Model
Truck with suitable VMC (with aerial device) - Min. 18m reach				
Bakkie (LDV/Double Cab)				
Bakkie (LDV/Double Cab)				
Other vehicle suitable for transporting staff				

VMC: Vehicle Mounted Crane

LDV: Light Delivery Vehicle

Evidence - copy of the license information document as per list above

I hereby confirm that the vehicle list above is a true reflection of the vehicles owned or hired by my company.

Name : _____ (Company Owner)

Signature : _____ (Company Owner)

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Annex D – Technical Evidence – Tools and Equipment**Mandatory Requirements:**

- Include a TOOL LIST with the following tools, indicating if the tool is owned or being hired.
- For proof of ownership, indicate ownership “owned” (O) in the tool list provided.
- For proof of hiring, indicate “hiring” “H” on the tool list provided and include a letter from a hiring company.

Company Name: _____

Item No.	Mandatory Tool	Owner or Hired	Serial Number (where applicable)	Qty.
1.	Hydraulic conductor cutter			
2.	Cable/Conductor drum trestle (Braked)			
3.	Thermometer			
4.	Dynamometer			
5.	Tension stringing gear (bullwheel min. 1.2m dia.) Tensioner (4kN min.)			
6.	Tension stringing gear (bullwheel min. 1.2m dia.) Puller with dynamometer			
7.	Theodolite & accessories – required for poles and stub setting towers			
8.	Automatic level & accessories – required for lattice towers			
9.	Dynamic Cone Penetrometer			
10.	General construction (Picks, Shovels, Wheelbarrows, Hand Compactors)			
11.	Mechanical Compactors (Trenches (Wacker) & Surface (roller))			
12.	Dumper			
13.	Concrete Mixer			
14.	Wood float			
15.	Trowel			
16.	Vibrators for concrete			
17.	Compressor (with jackhammers)			
18.	Portable earths 16mm ² (Working - Lines)			
19.	Portable earths (Working - Lines) (Lattice) - 16mm ²			
20.	Safety Tester (Contact type tester)			
21.	Earthing Stick / Telescopic Link stick			
22.	Earth resistance tester with suitable wires(wires at least 100m long)			

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Item No.	Mandatory Tool	Owner or Hired	Serial Number (where applicable)	Qty.
23.	SLINGS (Steel, chain and canvas – as per application- Min. 1.5T)			
24.	Tirfor (Winch) 1600kg-for poles			
25.	Shield wire Grip (Steel)			
26.	Conductor Grip (Al) (10mm-36mm)			
27.	Pulling Eye - 45kN			
28.	Lever Hoists - 1.5T & 3T			
29.	D-Shackles (containing SWL)			
30.	Snatch blocks			
31.	Guide / pilot rope			
32.	Stringing wheels / Conductor pulleys (Min.dia 600mm)			
33.	Stringing wheels / Conductor pulleys (Min.dia 300mm)			
34.	Swivels			
35.	100Ton Compression Tool			
36.	Die Set for phase conductors			
37.	Die set for earth wire			
38.	Generator			
39.	Ladders (Extension & Hook) 8-9m			
40.	Toolbox with general tools (Spanners, Pliers, cutters, screwdrivers, tape measure etc.)			
41.	Hammers Min. 1800g			
42.	Bolt-cutter Med.			
43.	Wood augers (Drills for wood poles or wood cross arms)			
44.	Strapping tool			
45.	Hole alignment wedge (for poles) -1 per team			
46.	Torque Wrench 30-150Nm			
47.	Jacks & Props			
48.	Crowbar -1 per team			
49.	Hole digging post bar -1 per team			
50.	Chainsaws			
51.	Handheld radios			
52.	Hand lines -1 per team			
53.	Straight Level min 1.2m			1

I hereby confirm that the tools list above is a true reflection of the tools owned or hired by my company. I will also ensure that all tools that require calibration will be calibrated before the execution of work.

Name : _____ (Company Owner)

Signature : _____ (Company Owner)

Annex E – Contractors Experience & Workload

Details of High Voltage (>44kV) Line construction projects which the contractor has completed in the past.

PROJECT NAME	LOCATION	CLIENT CONTRACT NO.	CLIENT CONTACT DETAILS	APPROX VALUE	START DATE	COMP. DATE.	BRIEF PROJECT DESCRIPTION

Name : _____ (Company Owner)

Signature : _____ (Company Owner)

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Annex F – Task Observations (Practical Evaluation)

This section contains some guidelines that can be used if the opportunity arises to do either a practical evaluation on a contractor, or perhaps do a task / job observation at some time to confirm competency.

- 1) Completion of Workers register and Risk assessment
- 2) Pre-planning
 - Tools and equipment on site
 - Any line or road crossing identified
 - Span lengths, terrain, weight of conductors considered?
 - Access control, traffic control if applicable
 - Reference made to applicable company's Safe Working Procedure (SWP)?
- 3) Foundations
 - Reading and understanding of drawings
 - Alignment and dimensioning of holes
 - Assembly of reinforcing
 - Levelling of reinforcing and holding-down bolts
 - Installation and compaction of planting rings
 - Piles and pads?? (lattice)
 - In accordance with company SWP?
- 4) Pole/Structure assembling and dressing
 - Assembly drawings applied correctly?
 - Assembly of section of lattice
 - Assembly of a steel monopole
 - Material handling, correct application of products
 - In accordance with company SWP if applicable?
- 5) Stringing and tensioning
 - Interpretation of sag and tension charts
 - Use of dynamometer/thermometer
 - Setting up of machines
 - Positioning and anchoring of machines
 - Earthing of machines
 - Configure machine in correct mode i.e. pulling or tensioning
 - Running out and stringing of Conductor
 - Material handling
 - Selection and application of pulleys
 - Running out of pilot wire
 - Stringing of conductors
 - Correct stringing sequence

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- Earthing of stringing gear and conductors
- Temporary staying of structure where applicable
- In accordance with company SWP if applicable?
- Tensioning
- Interpretation of sag and tension charts
- Use of tension stringing gear
- Use of dynamometer/thermometer
- In accordance with company SWP if applicable?
- Making off a conductor at a strain
 - Selection of correct end fittings
 - Preparation of conductor
 - Application of end fitting
- Preparation and installation of jumpers
- Earthing of conductors run out by hand
- In accordance with company SWP if applicable?

6) Testing

- DCP testing
- Tower footing resistance

7) Materials, etc. available for practical evaluation

- Area of land where contractor can, from X-Y coordinates, measure out position and orientation of structure foundation, and do excavation.
- Foundation reinforcing that the contractor can assemble and level in position.
- Monopole sections for assembly and erection by contractor
- Lattice section for assembly by contractor
- Line hardware (incl. insulators) for assembly and attachment by contractor
- Conductor and attachments (dead-ends and jumper lugs) for stringing.