	Report	Limlanga Cluster
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Title: **TECHNICAL EVALUATION CRITERIA
FOR SUBSTATION CONSTRUCTION
(POWER PLANT AND CIVIL)
CONTRACTORS IN LIMLANGA
CLUSTER**

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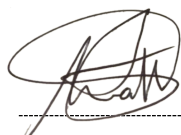


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1. INTRODUCTION

This document provides an overview of Eskom LimLanga Cluster technical evaluation criteria and the process to be adopted by the cluster technical evaluation team when evaluating tender submissions for Power Plant Substation Construction Contractors from the desktop evaluation stage to the verification of vehicles and tools & equipment on site. It also outlines the technical requirements to be adhered to by the tenderer and all returnables to be returned by the tenderer at the tender closing date.

2. SUPPORTING CLAUSES

2.1 Scope

The document covers the requirements for both the desktop and site technical evaluations. The desktop evaluation will assess elements such as skills, vehicles, tools and equipment requirements to determine compliance to the technical competency requirements for tenderers.

The evidence submitted in the tender for vehicles, tools & equipment and other objective documents/requirements will be assessed on site.

2.2 Purpose

The purpose of this document is to set out the minimum criteria to be used when evaluating substation construction contractors in Limlanga Cluster.

2.3 Applicability

This document shall apply to Eskom Distribution Limlanga Cluster.

2.4 Effective date

The document is effective from the authorisation date.

2.5 Normative/Informative References

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

2.6 Normative

- [1] ISO 9001 Quality Management Systems
- [2] 240-81141536 Technical Evaluation Criteria for substation Contractors – Primary Plant
- [3] Eskom Guideline 240: 70413681 (Portfolio of Evidence for Authorisation).
- [4] QM 58 – Supplier Contract Quality Requirements Specifications
- [5] 240-128559117 Method Statements for Eskom Substations
- [6] 240-87605434 Quality Checklist for Distribution Substation Primary Plant prior to HandingOver for Commercial Operation
- [7] 240-48929482: Tender Technical Evaluation Procedure

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2.7 Informative

[8] Eskom Standards – Part 7: Substations.

2.8 Definitions

Word	Definition
Substation	A Substation refers to all the material and equipment contained within a designated space (the substation yard) required for the safe operation of transforming sub-transmission voltages (44-132kV) to distribution voltages (11-33kV). This includes all the foundations, earth mat, buildings, conductors, cable, electrical apparatus, steel structures and components, fence, stoning etc.

2.9 Abbreviations

Abbreviation	Description
DoL	Department of Labor
ISO	International Standard Organization
NED	Network Engineering Design
PDE	Power Delivery Engineering
PLATO	The South African Council for Professional Technical Surveyors
SAGC	South Africa Geomatics Council
SACPCMP	South African Council for the Project and Construction Management Professions
SCOT	Steering Committee of Technology
SI	Standards Implementation
TET	Technical Evaluation Team
AC	Asset Creation
M & O	Maintenance & Operations

2.10 Roles and Responsibilities

The appointed Limlanga Technical Evaluation Team will use this document to evaluate tenders. The Standards Implementation manager will ensure that this document is implemented accordingly.

2.11 Process for Monitoring

The document shall be reviewed as and when required to be always in line with the best technological practices and the Eskom procurement policies.

2.12 Related/Supporting Documents

Not applicable.

3. TENDER TECHNICAL EVALUATION STRATEGY

This section details the methodology to be employed by Eskom LimLanga Cluster in the evaluation of the “Technical” category of the tender returnables.

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3.1 Technical Evaluation Process

This section describes the process to be followed in the evaluation of contractors that offers to provide their services for Substation Construction, Refurbishment and Dismantling.

In cases where the main contractor opts to subcontract some activities, the subcontractor will be evaluated for the specified activity. Only Eskom evaluated subcontractors may be used.

The evaluation shall be conducted in the following three (3) consecutive stages:

Stage 1: Boardroom Evaluation

This stage will be categorised into two phases namely Phase 1: Mandatory Requirement and Phase 2: Functional Requirements.

Phase 1: Mandatory Requirements - Full compliance is required, i.e., The tenderer needs to meet all the requirements to proceed to Phase 2.

Phase 2: Functional Requirements - The tenderer needs to obtain a minimum threshold score of **seventy-five (75%) percent** to proceed to the next stage, i.e., Site Assessment & Verification. Tenderers who fail to meet this minimum threshold will not be evaluated further.

Stage 2: Site Assessment & Verification

The tenderer to obtain a minimum of **seventy-five (75%) percent** (including test and calibration certificates where applicable) to proceed to the next stage.

Tenderers that meet the minimum threshold of Stage 1 will undergo an on-site verification/evaluation before the final Technical Evaluation report is submitted to Procurement. Vehicles and Tools & Equipment will be verified during this stage.

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 tenderer from the tender or rectify the desktop score accordingly.

Stage 3: Contractual Obligation

Full compliance is required before the tender can be awarded. Non-compliance at any stage shall lead to immediate disqualification

3.2 TET Members

The evaluation exercise will be performed by the appointed Eskom Technical Evaluation Team (TET). TET members will be formally appointed by Standards Implementation Manager and must be available for the complete evaluation process. A minimum of three (3) TET members must be professionally registered. The Lead Evaluator will be regarded as the PREP (Professional Registered Engineering Practitioner).

No	TET Member	Designation	TET Evaluation Responsibilities	
			Desktop	Site
1	As appointed	SI Engineer/Technologist/Technician (Lead Evaluator)	X	X

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2	As appointed	SI Engineer/Technologist/Technician	X	X
3	As appointed	AC Engineer/Technologist/Technician	X	X
4	As appointed	AC Engineer/Technologist/Technician	X	X
5	As appointed	M&O Engineer/Technologist/Technician	X	X
6	As appointed	M&O Engineer/Technologist/Technician	X	X

3.3 Technical Evaluation Report

The final report detailing the entire evaluation process as well as the overall results of those who passed and failed with the corresponding reasons will be compiled and handed over to Procurement. The following should be noted about the report:

- a) This report and any actions that are listed or recommended as a result of this assessment, is by no means a confirmation or guarantee that any contract will be entered into by Eskom and the Tenderer.
- b) Any liability for the said actions undertaken by the Tenderer is not transferrable to Eskom in any way.
- c) The TET has no authority or responsibility in the decision taken by Eskom with respect to contracting for a product or service.
- d) Any statements, intentions and/or actions expressed by the TET during the assessment and post the assessment has no effect and does not constitute any liability to Eskom with regards to contract placement.

4. TECHNICAL REQUIREMENTS

The requirements are divided into four (4) categories namely Mandatory Requirements, Functional Requirements, Site Assessments / Verification and Contractual Requirements and each is described on the sections below.

NB: The technical returnable must be contained in a separate technical file or as a section in a file labelled technical and indexed in a logical manner.

4.1 Mandatory Requirements

These are documents not required for functionality scoring. There will be no scoring linked to these requirements, the evaluator shall indicate with a **Yes / No** whether the requirement is met or not. Once the requirements are satisfied through an evaluation conducted by the evaluator, the technical evaluation for functionality evidence will proceed otherwise the submission will be deemed non-responsive and will not proceed to the next evaluation stage.

Table 1 below lists the mandatories that must be submitted by the tenderer. Please note that if any of the requested documentation is not submitted, the tender application shall be discarded / disqualified without requesting tenderer/s to submit outstanding documentation/s.

Note: Sharing of resources amongst contractor or contractor sharing resources i.e., Tools, Vehicles and Certificates is not allowed in this contract and if a company is found to do so, it will be disqualified.

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Table 1: Mandatory Requirements

Item No:	Requirement/s	Evidence Required	Evidence Notes	Submitted? (Yes/No)
1.	Letter of Registration as Electrical Contractor (DoL) with an Installation Electrician (IE) or Master Installation Electrician (MIE).	Valid (at the time of submission) Department of Labour Certificate (Letter of Registration) in your Company Name. Minimum - three phase installations. Single phase will NOT be accepted.	The DoL Letter must be in company name or company director's name and the registration must be valid (Not expired not forged). The Letter does not need to be certified.	

4.2 Functional Requirements

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 **seventy-five (75%) percent** to proceed to the next stage, i.e., Site Verification. The overall scoring system for functional requirements is stipulated in the table 2 below. The final score will be rounded to the nearest whole number.

Table 2: Scoring Summary of Functional Criteria (Civil and Power Plant)

Item	Description	Weight
Functional Requirements		
1.	Training Requirements & Qualifications	45%
2	Company Work Related Experience	30%
3	Vehicles	15%
4	Tool & Equipment	10%

4.2.1 Training requirements& Accreditations

This section stipulates the training, qualification and accreditation requirements for Substation contractors. The training requirements have been listed in **Table 3** below with the corresponding scoring methodologies in **Table 4 & 5**.

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Table 3: Training & Accreditations Requirements

No	Requirements	Evidence required	Evidence notes	Min Qty	Max Score
1.	Substation Construction Training / Course	<p>Valid Substation Construction Training / course Certificate/s</p> <p>An affidavit for employee, in the template provided (see Annexure B: Affidavit Confirming Employment of Resource), completed by the resource named on the certificate and certified by a Commissioner of Oaths.</p>	<p>Certificates must be certified by the commissioner of oaths and not older than six (6) months from tender closing date.</p> <p>Certificate must be valid at tender closing date i.e., not expired.</p> <p>On the certificates it must be clear that the following modules were covered during the training:</p> <ol style="list-style-type: none"> 1. Earthworks and related installations 2. Structure foundations and assembly 3. Equipment installation/erection 4. Overhead conductor & Tubular Busbar installation 5. Power cable general installation, jointing and terminations 6. Basic Rigging 7. Crimping (30T & 100T) <p>Curriculum of training for substation construction course to be submitted if listed modules above are not indicated on the training certificate.</p> <p>Curriculum shall be from the service provider.</p> <p>Valid certificate accredited by training authorities e.g. EWSETA, SETA. Will be accepted.</p> <p>The certificates will be validated by Eskom.</p>	x1	20
2.	Construction Regulations	<p>SACPCMP registration certificate as a construction project manager</p> <p>Affidavit: The affidavit template provided must be used as the returnable. This affidavit will be used as confirmation of employment of the</p>	<p>Submit certified copy of SACPCMP registration certificate.</p> <p>Certified copy submitted must not be older than six (6) months from the tender closing date.</p> <p>Certificate must be valid at tender closing date.</p> <p>Affidavit: The affidavit template provided must be used as the returnable. This affidavit will be used</p>	x1	10

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No	Requirements	Evidence required	Evidence notes	Min Qty	Max Score
		resource, named on the certificate, at the tendering company during the tender period.	as confirmation of employment of the resources, named on the certificate, at the tendering company during the tender period.		
3.	Exothermic Welder accreditation	Valid Training Certificate/s An affidavit for employee, in the template provided (see Annexure B: Affidavit Confirming Employment of Resource), completed by the resource named on the certificate and certified by a Commissioner of Oaths.	Submit a training certificate for an accredited exothermic welder or artisan's trade test certificate (Certified copies). Certified copies submitted must not be older than six (6) months from the tender closing date. Certificate must be valid at tender closing date. Affidavit: The affidavit template provided must be used as the returnable. This affidavit will be used as confirmation of employment of the resources, named on the certificate, at the tendering company during the tender period.	x1	5
4.	Crane Operator	Valid Training Certificate/s An affidavit for employee, in the template provided (see Annexure B: Affidavit Confirming Employment of Resource), completed by the resource named on the certificate and certified by a Commissioner of Oaths.	Submit a training certificate for the authorised crane operator, F32/C32 minimum (certified copy) Certified copies submitted must not be older than six (6) months from the tender closing date. Certificate must be valid at tender closing date. Affidavit: The affidavit template provided must be used as the returnable. This affidavit will be used as confirmation of employment of the resources, named on the certificate, at the tendering company during the tender period.	x1	5
5.	Accredited builder	Valid NHBRC registered. An affidavit for employee, in the template provided (see Annexure B: Affidavit Confirming Employment of Resource), completed by the resource named on the certificate and	Submit a valid NHBRC certificate (To be certified) Affidavit: The affidavit template provided must be used as the returnable. This affidavit will be used as confirmation of employment of the resources, named on the certificate, at the tendering company during the tender period.	x1	10

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No	Requirements	Evidence required	Evidence notes	Min Qty	Max Score
		certified by a Commissioner of Oaths.			
		Alternatively			
		Trade Tested artisans. An affidavit per employee, in the template provided (see Annexure B), completed by the resources named on the certificates and certified by a Commissioner of Oaths.	<p>If your company is not registered with the NHBRC, then submit Trade certificates for</p> <ul style="list-style-type: none"> Bricklayer (certified copy) Plumber (certified copy) Electrician (certified copy) <p>Affidavit: The affidavit template provided must be used as the returnable. This affidavit will be used as confirmation of employment of the resources, named on the certificate/s, at the tendering company during the tender period.</p>	<p>x1</p> <p>x1</p> <p>x1</p>	10
			<p>Notes:</p> <p>The Tenderer will score 3.3 for each certificate.</p>		
TOTAL POINTS					50
<p>The final weighted score for Training will be calculated by the formula below:</p> $Final\ Score = \frac{Tenderer\ Score}{Grand\ Total\ Points} \times 45\%$ <p>Notes: Certified copies submitted must not be older than six (6) months from the tender closing date. Certificate must be valid at tender closing date.</p>					

Table 4: Scoring Methodology for Training & Accreditations Requirements (**Item 1**)

Scoring Methodology for Training requirements Accreditations (Substation Construction course)	Allocated Score (%)
All listed modules of substation construction covered	100
Where 2 of listed modules of substation construction are missing.	80
Where between 2 and 4 of listed modules of substation construction are missing.	40
Certificates were not submitted; certificates are not certified or expired.	0

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Table 5: Scoring Methodology for Training & Qualifications Requirements (Items 2-4)

Scoring Methodology for Training Requirements & Qualifications	Allocated Score (%)
The required certified and valid certificate/s were submitted	100
Valid certificate/s submitted but not certified	80
Certificate/s not submitted or are already expired before tender closing date.	0

4.2.2 Company Work Related Experience Requirements

This section evaluates the experience of the contractor to enable Eskom LimLanga Cluster to identify the risk associated with using incompetent / inexperienced contractor for a critical task such as Power Plant Substation Construction. The contractor is expected to demonstrate experience as depicted in **Table 6** below and will subsequently be allocated score as per **table 7** below.

Projects experience should be listed on **ANNEXURE E: Work Experience List / Register**

Table 6: Work Related Experience Requirements

Item No	Requirements	Evidence	Qty	Max. Score
1	Previous Related Substation Project/s *	<p>The tenderers to attach the Completion Certificates / Handover Document/s for each completed project. (The completion certificate must include minimum requirements such as project name, high level scope of work, client name, contractor name, start date, end date, task/project value and signature). It must also stipulate the completion date.</p> <p>High Level Scope of Work must demonstrate experience in the following:</p> <ol style="list-style-type: none"> Substation civil work (access road, earthworks, equipment foundations) Substation Earth mat construction Perimeter Fence erection Building Structure (e.g., Control Room, Housing structure) Substation Steel work & Equipment assembly, installation and erection Conductor and Tubular Busbar installation Wiring, Cable installation, jointing and terminations <p>The experience may be as a Subcontractor or Main contractor.</p>	x3	30

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Item No	Requirements	Evidence	Qty	Max. Score
		<p>With Job Completion Certificates and the memorandum of understanding between the main contractor and the subcontractor.</p> <p>10% Score per each completed related Substation Construction Project.</p> <p>Note: Any experience that does not involve related construction activities tabled above will not be accepted e.g., Dismantling equipment / apparatus, Maintenance of equipment / apparatus.</p>		
<p>The final score for Related work experience will be calculated by the formula below:</p> $Final\ Score = \frac{Tenderer\ Score}{Total\ Points} \times 30\%$				

Table 7: Scoring Methodology - Work Experience

Scoring Methodology for Work experience	Score (%)
3 or more projects (covering all SoW) completed	30
3 or more projects completed (SoW not indicated)	25
2 projects (covering all SoW) completed	20
2 projects completed (SoW not indicated)	15
1 project (covering all SoW) completed	10
1 project completed (SoW not indicated)	5
The company has not completed a single project	0

4.2.3 Vehicles Requirements

Vehicle requirements for Power Plant Substation Construction are listed and stipulated in **Table 8** below and this will be scored as per **Table 9**: Scoring Methodology for Vehicles, below.

The evidence required on this table should be provided utilising an Eskom format / template provided in **Annexure D**: Vehicles List / Register to be considered and shall be accompanied by relevant vehicle registration certificates as per **Table 8**. This list / register will also be used for site assessment / verification as well.

Vehicle List / Register must be completed in full and signed by the tenderer. Complete the following columns on Annexure D:

- Column C : to indicate the quantities of vehicle owned or to be hired,
- Column D : to indicate vehicles owned or hired,
- Column E : vehicle make; and

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- d. Column F : registration number.

Evidence Notes:

- a. Certified copies of the vehicle registration document/s or equivalent document (not just the license disc) shall be submitted as proof of ownership. Registration documents shall bare the company name or owner(s) / director's name.
- b. Where Vehicles are hired the tenderer shall in addition submit a letter from a bona- fide hiring companies. The hiring letter must indicate the specific vehicle(s) as well as the tenderer's company name.

Note: Sharing of resources amongst contractor or contractor sharing resources i.e., Tools, Vehicles and Certificates is not allowed in this contract and if a company is found to do so, it will be disqualified.

Table 8: Vehicle requirements

Item No.	Requirement/s	Evidence	Indicate if Owned or Hired	Min Qty	Max. Score
1.	Truck with suitable VMC (with aerial device) - (Valid Crane Inspection Certificate indicating minimum reach of 15m)	Submit valid vehicle registration document/s (not just the license disc). Registration documents shall bare the company name or owner(s)/director's name. In cases of hiring, submit proof that this can be hired from Bona Fide Vehicle Hire Companies.		1	20
2.	Transport for workers: (Not open Bakkie – Minimum 4 workers.	Submit valid vehicle registration document/s (not just the license disc). Registration documents shall bare the company name or owner(s)/director's name. In cases of hiring, submit proof that this can be hired from Bona Fide Vehicle Hire Companies.		1	5
3.	4x4 or 4x2 Pick-up Bakkie with Ladder Rack (LDV/Double Cab) with a minimum of 1 ton load.	Submit valid vehicle registration document/s (not just the license disc). Registration documents shall bare the company name or owner(s)/director's name. In cases of hiring, submit proof that this can be hired from Bona Fide Vehicle Hire Companies.		1	5

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4.	TLB / Excavator	Submit valid vehicle registration document/s (not just the license disc). Registration documents shall bare the company name or owner(s)/director's name. In cases of hiring, submit proof that this can be hired from Bona Fide Vehicle Hire Companies.		1	10
5.	Tipper Truck,	Submit valid vehicle registration document/s (not just the license disc). Registration documents shall bare the company name or owner(s)/director's name. In cases of hiring, submit proof that this can be hired from Bona Fide Vehicle Hire Companies.		1	10
6	Grader	Submit valid vehicle registration document/s (not just the license disc). Registration documents shall bare the company name or owner(s)/director's name. In cases of hiring, submit proof that this can be hired from Bona Fide Vehicle Hire Companies.		1	5
7	Water tanker	Submit valid vehicle registration document/s (not just the license disc). Registration documents shall bare the company name or owner(s)/director's name. In cases of hiring, submit proof that this can be hired from Bona Fide Vehicle Hire Companies.		1	5
TOTAL POINTS					60
<p>The final weighted score for Vehicles will be calculated by the formula below:</p> $Final\ Score = \frac{Tenderer\ Score}{Total\ Points} \times 15\%$					

Table 9: Scoring Methodology for Vehicles

Scoring Methodology for Vehicles	Allocated Score (%)
Eskom template for Vehicle list / register submitted and vehicles owned, and all relevant documentation has been provided and certified.	100

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Scoring Methodology for Vehicles	Allocated Score (%)
Eskom template for Vehicle list / register submitted and vehicles owned but not all relevant documentation has been provided and / or not certified.	80
Eskom template for Vehicle list / register submitted and vehicles will be hired with all relevant documentation has been provided.	50
Eskom template for Vehicle list / register submitted and vehicles will be hired but quantities of vehicles to be hired are not indicated on the agreement / contract	40
Eskom template for Vehicle list / register not utilised or nothing submitted	0
Final score to be rounded to the nearest whole number	

4.2.4 Tools and Equipment Requirements

This section stipulates requirements for Tools & Equipment for Power Plant Construction contractors as listed in **Table 10** below and the corresponding scoring methodology in indicated in **Table 11**.

The evidence required on this table should be provided as per an Eskom template provided in **Annexure C: Tools & Equipment List / Register for Power Plant Construction**.

Please complete Annexures C to indicate whether you Own / Hire (Column E) tools & equipment and the corresponding quantities (Column F). The list / register must be completed in full and signed by the tenderer.

- Tools and equipment will be evaluated based on the tools register (Annexure C) submitted by the tenderers and it must be in the Eskom format provided (Annexure C).
- The tenders shall indicate in the tools register/s if the tools are Owned/ Hired by the company. Where tools are hired the tenderer shall in addition submit an agreement / contract / letter from a bona- fide hiring company. The hiring letter must indicate the specific tools or equipment as well as the tenderer's company name indicating all the tools that are hired for points to be allocated.
- Calibration and test certificates (where required / necessary) for tools and equipment are NOT required at tendering stage but shall be required at Tender award stage.

Note: Sharing of resources amongst contractor or contractor sharing resources in i.e., Tools, Vehicles and Certificates is not allowed in this contract and if a company is found to do so, it will be disqualified.

Table 10: Tools & Equipment Requirements

Item	Equipment Description	Size		Min Qty	Indicate if Owned or Hired?	Quantity Owned or Hired	Calibration Required?	Max. Score
Lifting Equipment								
1.	Slings (Steel, chain and canvas – as per application)	Min. 1.5T		3				5
2.	Tirfor (Winch)	1600kg		1				5

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**TECHNICAL EVALUATION CRITERIA FOR
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CIVIL) CONTRACTORS IN LIMLANGA CLUSTER**

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Item	Equipment Description	Size		Min Qty	Indicate if Owned or Hired?	Quantity Owned or Hired	Calibration Required?	Max. Score
3.	Conductor Grip (Steel)	8-15mm dia.		3				5
4.	Conductor Grip (Aluminium)	25-40mm dia.		3				5
5.	Lever Hoists (Kitos)	1.5T & 3T		3				5
6.	D-Shackles (Containing SWL)			6				5
7.	Snatch blocks			2				5
8.	Stringing wheels / Conductor pulleys	Up to Bull conductor		9 (3x3)				5
Total Points (Lifting Equipment)								40
Safety & Working at Heights								
9.	Ladders (Step and Extension)	2,54m & 8-9m		1 each per team			Yes	5
10.	Scaffolding	2m high		1 set per team				5
Total Points (Safety & Working at Heights)								10
Operating & Testing								
11.	Portable earths (Working - Substation) (if applicable)	40mm ²		2 sets per authorized person			Yes	5
12.	Safety Tester (Voltage detectors) (if applicable)	Up to 132kV		1 per authorized person			Yes	5
13.	Earthing Stick / Telescopic Link stick (if applicable)	25-40mm dia.		1 per authorized person			Yes	5
14.	Earth resistance tester with suitable wires	N/A		1			Yes	5
15.	Continuity tester	Min. 10A		1 per electrician			Yes	5
16.	Insulation tester	5kV		1			Yes	5
Total Points (Operating & Testing)								30
Conductor Work Tools								
17.	Hydraulic conductor cutter			1				5
18.	Cable/Conductor drum trestle (braked)			1 per team				5
19.	Thermometer			1			Yes	5
20.	Dynamometer	10kN		1			Yes	5
21.	Hydraulic power pack with crimper head	30T & 100T		1 per team			Yes	5
22.	Full set of hexagon Dies	Hornet, Centipede and Bull		1 per team				5
23.	Conductor wire brush			1 per team				5
Total Points (Conductor Work Tools)								35
Civil Work Tools								

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Item	Equipment Description	Size		Min Qty	Indicate if Owned or Hired?	Quantity Owned or Hired	Calibration Required?	Max. Score
24.	Theodolite / automatic level & accessories			1			Yes	5
25.	Dynamic Cone penetrometer (DCP)			1				5
26.	Hand Compactors	8kg		2 per team				5
27.	Mechanical Compactors - Trenches (Wacker) & Surface (roller)			1 per team				5
28.	Dumper (concrete tipper)			1				5
29.	Concrete Mixer			1				5
30.	Vibrators for concrete			1				5
31.	Boxing/Shutters for foundations (Steel only) (The score of 1 will be obtained for each)	Set		5				5
32.	Compressor (with jackhammers)			1				5
33.	Rollers	12-20 Ton		1				5
34.	Concrete testing formwork (Cube and slump mould)			1 set per team				5
Total (Civil Work Tools)								55
General Work Tools								
35.	Electricians Toolbox	Complete		1 per accredited electrician				5
36.	General Builder Tools	Complete		1 per accredited builder				5
37.	Bolt-cutter Med.	Medium		1 per team				5
38.	Gas Welding/Exothermic Welding Set Complete	Complete		1 per team				5
39.	Hole alignment wedge			1 per team				5
40.	Torque Wrench	30-150Nm		1 per team				5
41.	Jacks & Props			1 per team				5
42.	Generator	>5kW		1 per team				5
Total Points (General Work Tools)								40
GRAND TOTAL FOR TOOLS AND EQUIPMENT SCORE (42x5)								210
The final weighted score for Tools and Equipment will be calculated by the formula below:								
$\text{Final Score} = \frac{\text{Tenderer Score}}{\text{Grand Total Points}} \times 10\%$								

CONTROLLED DISCLOSURE

Table 11: Tools & Equipment Scoring Methodology

Scoring Methodology for Tools and equipment	Allocated Score
Eskom provided tools list / register signed and tools are owned by tenderer submitted.	5
Eskom provided tools list / register signed and tools that are hired by tenderer accompanied by an agreement / contract / letter from bona fide hiring company showing the type of tools & equipment to be rented / hired submitted.	4
Eskom provided tools list / register signed but the minimum quantity for a specific tool is not met.	2
Eskom provided tool list / register not utilised / completed and / or all required evidence not submitted or nothing submitted.	0

4.2.5 Stage 3: Site Assessment & Verification

Contractors who pass the desktop evaluation stage will undergo an on- site verification/evaluation. The decision to undertake the site verification/evaluation lies with Eskom's TET. Should this decision be made, all successful tenderers will be evaluated.

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.

The minimum weighted final score (threshold), required for a tenderer to be considered from a technical perspective after site evaluation considerations is 75%. If no site evaluation is performed the desktop score will be used as the final tender score.

4.2.6 Stage 4: Contractual Requirements

These requirements shall be met prior to tender award as they have been identified as important for the scope of substation construction. Although this will not form part of the desktop evaluation, these may be submitted during the tender stage. Compliance to these requirements needs to be met and verified prior to tender awarding stage (see **Table 12**).

There will be no scoring linked to these requirements. Only "Yes" or "No" answers will be allocated, and the required outcome is for the tenderer to have "Yes" for all Technical Contractual Requirements listed to achieve full compliance.

It should be noted that if any of these requirements takes significant time to achieve (if not in place) and submitted to Procurement, it will lead to unnecessary delays in a contract being awarded to those specific contractor/s.

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Table 12: Technical Contractual Requirements

No.	Requirements	Evidence Required	Evidence Notes	Yes / No
1	PDE SCOT Website Access	Letter showing username and password	Contractors need to subscribe to the PDE Website to get the latest Eskom standards and drawings. Access outside Eskom - https://scot.eskom.co.za The confirmation of access Letter should be valid at the time it gets submitted.	
2	Construction Supervisor	Relevant qualification / competency certificate for construction supervision.	Valid qualification / competency certificate for (e.g. construction supervision)	
3	Compliance to Eskom Method Statements	Submission of Letter to acknowledge Eskom specifications and standards	The acknowledgement waives the requirement for the contractor to write generic safe work procedures at tendering stage - see Annexure A	
4	HV & MV Authorisation Certificates: Valid 1xAuthorisation HV 1xAuthorisation MV OR <ul style="list-style-type: none"> First Aid Level 2 ORHVS (HV 02) Basic Fire fighting Supervision ORLVS (LVOR 001) FAS certificate 	A copy of the Authorisation certificate issued by Eskom to the relevant resource. OR A copy of permit cards showing the full details of the permit holder will be accepted as evidence. AND An affidavit per employee, in the template provided (see Annexure A: Affidavit Confirming Employment of Resource), completed by the resources named on the certificates and certified by a Commissioner of Oaths.	All certificates should be in the same name of the employee working for the applicant company. The applicants are required to submit all listed certificates to score full points. All certificates must be certified. All certificates are to be valid as at the time of submission. Affidavit: The affidavit template provided (Annexure A) must be used as the returnable. This affidavit will be used as confirmation of employment of the resources, named on the authorization, at the tendering company during the tender period.	

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5. ACCEPTANCE

This document has been seen and accepted by:

Name	Designation
Mmedi Motaung	Manager: Standards Implementation
Pravind Orrie	Senior Manager: Asset Creation
Baldwin Maudu	Middle Manager: Network Engineering Manager
Faans van Zyl	Middle Manager: Network Planning
Bafana Sithole	Middle Manager: Project Execution
Siphe Majola	Middle Manager: Project Execution
Nsela Kekana	Middle Manager: Specialized Maintenance and Support
Blessing Mbatha	Middle Manager: Specialized Maintenance and Support
Johan Otto	Middle Manager: Plant Engineering
Sthembiso Kunene	Middle Manager: Plant Engineering

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6. REVISIONS

CONTROLLED DISCLOSURE

Date	Rev.	Compiler	Remarks
November 2023	5	M. Motaung	<ol style="list-style-type: none"> 1. Removed "acceptable minor deviations" from Mandatory Requirements. 2. Changed Table 4: Scoring Methodology for Training & Accreditations Requirements (Item 1) to be in percentages instead of numbers. 3. Rephrased: "An affidavit for employee, in the template provided (see Annexure B: Affidavit Confirming Employment of Resource), completed by the resource named on the certificate and certified by a Commissioner of Oaths" to singular phrase to align it with the number of certificates required.
May 2023	4	M. Mathonsi	<ol style="list-style-type: none"> 4. Moved Construction regulations requirements (SACPCMP registration certificate as a construction project manager) from Mandatory Requirements to Functional Requirements and replaced it with Letter of Registration as Electrical Contractor (DoL), removed it from contractual requirements. 5. Reduced the overall threshold from 80% to 70%. 6. Removed organogram. 7. Reviewed experience requirements and removed CV requirements and its scoring methodology. 8. Removed some safety requirements (working at heights, FAS Rescue requirements) from Tool & Equipment requirements. 9. Reduced the tools & equipment list 10. Removed method statement and Annexure A: acknowledgement of method statement. 11. Removed Annexure E: Company Work Related register. 12. Removed construction supervisor requirements from contractual requirements. 13. Reviewed all scoring methodologies 14. Added and reworked tables 3 to 13 15. Rearranged and rephrased the entire document and corrected some spelling mistakes.

CONTROLLED DISCLOSURE

August 2022	3	M Venter	1. Changed substation construction course requirements to allow for more than one personal and included curriculum of training per completed substation construction course. Training authorities e.g. NQF / SAQA / EWSETA, SETA added. 2. Removed mandatory indication under vehicle requirements. 3. SACPCMP requirement updated.
June 2022	2	M Venter	Removed Control Plant Requirements. Modified Scoring Methodology.
February 2022	1	I Phafula	First Revision

7. DEVELOPMENT TEAM

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

- Bafana Tihuhlu
- Boreman Risiva
- Christo van Zyl
- Decky Shabangu
- Itani Phafula
- Itumeleng Mogane
- Jabu Mahlangu
- Malusi Mathonsi
- Martin Venter
- Matthews Baloyi
- Osie Oosthuizen
- Pat Magakwe
- Sello Lekalakala
- Thendo Ramulondi
- Vhusani Mukhwevho

8. ACKNOWLEDGEMENTS

Nkateko Khoza for developing the original document - SI-LIMLANGA-365. The author acknowledges Malusi Mathonsi and Mmedi Motaung for detailed contribution to produce revision 3 and 4 of this document.

CONTROLLED DISCLOSURE

ANNEXURE A – ACKNOWLEDGEMENT OF METHOD STATEMENTS

TET Team Leader

Eskom Holdings SOC Ltd

2 Maxwell Drive

Sunninghill

Sandton

2157

Date: _____

Enquiries: Eskom Procurement Office (Buyer)

Dear Sir/ Madam

RE: ACKNOWLEDGEMENT OF ESKOM METHOD STATEMENTS

This letter serves to confirm that our company acknowledges and will make use of Eskom's work specifications and method statements. Where required, we will provide Eskom with written method statements for site specific scope of works.

Our company acknowledges that the Eskom method statements are minimum guidelines and shall adapt these to suite the project specific requirements.

Yours Sincerely

Name : _____ (Company Owner)

Signature : _____ (Company Owner)

Company Name : _____

CONTROLLED DISCLOSURE

ANNEXURE B – AFFIDAVIT CONFIRMING EMPLOYMENT OF RESOURCE

I, _____ (full names),

ID Number: _____,
hereby confirm that I am currently employed as (tick all where appropriate):

☐

Accredited Training Resource

☐

Eskom Authorized Person

_____ (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 not older than
three months from the date of tender close)*

CONTROLLED DISCLOSURE

ANNEXURE C – TOOLS AND EQUIPMENT LIST / REGISTER

This Tools and equipment List will be evaluated Functional Requirements. Refer to Section **Error! Reference source not found.. Error! Reference source not found.** for notes relating to the Tools and Equipment List.

A	B	C	D	E	F	G	H
Item No	Equipment Description	Size	Min Qty	Indicate if Owned or Hired?	Quantity Owned or Hired	Calibration Required?	Max. Score
Lifting Equipment							
1.	Slings (Steel, chain and canvas – as per application)	Min. 1.5T	3				
2.	Tirfor (Winch)	1600kg	1				
3.	Conductor Grip (Steel)	8-15mm dia.	3				
4.	Conductor Grip (Aluminium)	25-40mm dia.	3				
5.	Lever Hoists (Kitos)	1.5T & 3T	3				
6.	D-Shackles (Containing SWL)		6				
7.	Snatch blocks		2				
8.	Stringing wheels / Conductor pulleys	Up to Bull conductor	9 (3x3)				
TOTAL POINTS (LIFTING EQUIPMENT)							
Safety & Working at Heights							
9.	Ladders (Step and Extension)	2,54m & 8-9m	1 each per team				
10.	Scaffolding	2m high	1 set per team				
TOTAL POINTS (SAFETY & WORKING AT HEIGHTS)							
Operating & Testing							
11.	Portable earths (Working - Substation) (if applicable)	40mm ²	2 sets per authorized person				
12.	Safety Tester (Voltage detectors) (if applicable)	Up to 132kV	1 per authorized person				
13.	Earthing Stick / Telescopic Link stick (if applicable)	25-40mm dia.	1 per authorized person				
14.	Earth resistance tester with suitable wires	N/A	1				
15.	Continuity tester	Min. 10A	1 per electrician				
16.	Insulation tester	5kV	1				
TOTAL POINTS (OPERATING & TESTING)							
Conductor Work Tools							
17.	Hydraulic conductor cutter		1				
18.	Cable/Conductor drum trestle (braked)		1 per team				
19.	Thermometer		1				

CONTROLLED DISCLOSURE

**TECHNICAL EVALUATION CRITERIA FOR
SUBSTATION CONSTRUCTION (POWER PLANT AND
CIVIL) CONTRACTORS IN LIMLANGA CLUSTER**

Unique Identifier: **SILC-685**

Revision: **5**

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A	B	C	D	E	F	G	H
Item No	Equipment Description	Size	Min Qty	Indicate if Owned or Hired?	Quantity Owned or Hired	Calibration Required?	Max. Score
20.	Dynamometer	10kN	1				
21.	Hydraulic power pack with crimper head	30T & 100T	1 per team				
22.	Full set of hexagon Dies	Hornet, Centipede and Bull	1 per team				
23.	Conductor wire brush		1 per team				
TOTAL POINTS (CONDUCTOR WORK TOOLS)							
Civil Work Tools							
24.	Theodolite / automatic level & accessories		1				
25.	Dynamic Cone penetrometer (DCP)		1				
26.	Hand Compactors	8kg	2 per team				
27.	Mechanical Compactors - Trenches (Wacker) & Surface (roller)		1 per team				
28.	Dumper (concrete tipper)		1				
29.	Concrete Mixer		1				
30.	Vibrators for concrete		1				
31.	Boxing/Shutters for foundations (Steel only) (The score of 1 will be obtained for each)	Set	5				
32.	Compressor (with jackhammers)		1				
33.	Rollers	12-20 Ton	1				
34.	Concrete testing formwork (Cube and slump mould)		1 set per team				
TOTAL (CIVIL WORK TOOLS)							
General Work Tools							
35.	Electricians Toolbox	Complete	1 per accredited electrician				
36.	General Builder Tools	Complete	1 per accredited builder				
37.	Bolt-cutter Med.	Medium	1 per team				
38.	Gas Welding/Exothermic Welding Set Complete	Complete	1 per team				
39.	Hole alignment wedge		1 per team				
40.	Torque Wrench	30-150Nm	1 per team				

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**TECHNICAL EVALUATION CRITERIA FOR
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A	B	C	D	E	F	G	H
Item No	Equipment Description	Size	Min Qty	Indicate if Owned or Hired?	Quantity Owned or Hired	Calibration Required?	Max. Score
41.	Jacks & Props		1 per team				
42.	Generator	>5kW	1 per team				
Total Points (General Work Tools)							
GRAND TOTAL FOR TOOLS AND EQUIPMENT SCORE (57x5)							
	<p>Note: The blocks shaded in WHITE colour indicates tools & equipment that requires calibration</p> <p>The final weighted score for Tools and Equipment will be calculated by the formula below:</p> $Final\ Score = \frac{Tenderer\ Score}{Grand\ Total\ Points} \times 15\%$						
<p>I hereby confirm that the list above, as per Annexure C, is a true reflection of the Tools and Equipment owned or hired by my company.</p> <p>Name : _____ (Company Owner)</p> <p>Signature: _____ (Company Owner)</p> <p>Date : _____</p>							

CONTROLLED DISCLOSURE

ANNEXURE D – VEHICLES LIST / REGISTER

This Vehicles List will be evaluated as Functional Requirements. Refer to Section Error! Reference source not found.. **Error! Reference source not found.** for notes relating to the Vehicles List.

A	B	C	D	E	F	G
Item No.	Vehicle	Min Qty.	Indicate if Owned or Hired	Vehicle Make	Registration Number	Max. Score
1.	Truck with suitable VMC (with aerial device) - (Valid Crane Inspection Certificate indicating minimum reach of 15m)					
2.	Suitable transport for workers: Minimum 4 workers					
3.	Bakkie / LDVs					
4.	TLB / Excavator					
5.	Tipper Truck,					
6	Grader					
7	Water tanker					
TOTAL POINTS						
<p>Note: the tenderer will obtain a point for each LDV</p> <p>The final weighted score for Vehicles will be calculated by the formula below:</p> $Final\ Score = \frac{Tenderer\ Score}{Total\ Points} \times 20\%$						
<p>I hereby confirm that the list above, as per Annexure D, is a true reflection of the Vehicles owned or hired by my company.</p> <p>Name : _____ (Company Owner)</p> <p>Signature : _____ (Company Owner)</p> <p>Date : _____</p>						

CONTROLLED DISCLOSURE

ANNEXURE E – WORK EXPERIENCE LIST / REGISTER

This Work Experience List will be evaluated under Functional Requirements. Refer to Section 4.2.2. **Error! Reference source not found.** for notes relating to Work experience.

No:	Project name	Client Name and contact details	Approx. value (R)	Start Date	End Date	Brief Project description
Projects Related to Substation civil work (access road, earthworks, equipment foundations)						
1						
2						
3						
Projects Related to Conductor and Tubular Busbar installation						
1						
2						
3						
Substation Earth mat construction						

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No:	Project name	Client Name and contact details	Approx. value (R)	Start Date	End Date	Brief Project description
1						
2						
3						
Perimeter Fence erection						
1						
2						
3						
Building Structure (e.g. Control Room, Housing structure)						

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No:	Project name	Client Name and contact details	Approx. value (R)	Start Date	End Date	Brief Project description
1						
2						
3						
Substation Steel work & Equipment assembly, installation and erection						
1						
2						
3						
Wiring, Cable installation, jointing and terminations						
1						

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No:	Project name	Client Name and contact details	Approx. . value (R)	Start Date	End Date	Brief Project description
2						
3						

The final weighted score for Work Experience will be calculated by the formula below:

$$Final\ Score = \frac{Tenderer\ Score}{Total\ Points} \times 35\%$$

CONTROLLED DISCLOSURE