



Eskom

Standard

Technology

Title: **TECHNICAL EVALUATION
CRITERIA FOR FIBRE OPTIC
CABLES INSTALLATION**

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1. Introduction

This document aims to describe the technical criteria which will govern the evaluation of tender submissions by external contractors for installation and repair of Fibre Optic Cables (including OPGW, ADSS, and DUCT).

The criteria consist of both Stage 1 Mandatory and Stage 2 functional scoring requirements.

2. Supporting clauses

2.1 Scope

This document outlines the technical evaluation process and criteria associated with the installation, commissioning and repair of fibre optic cables as described by the relevant Eskom standards. The scope of work entails but not limited to the installation, commissioning and repair of various fibre optic cables.

- Installation of OPGW, ADSS and Duct Fibre Optic cable
- Installation of Fibre Optic Aerial Hardware
- Supply and installations Patch panel and accessories
- Supply and installations Sarel boxes and accessories
- Provide labour for trenching
- Provide labour for Splicing
- Provide labour for testing (end to end from patch panel to patch panel)
- Provide as-built drawings/test results/pictures/position of joint boxes and GPS location

2.1.1 Purpose

The purpose of this document is to describe the criteria which are to be used when evaluating tender submissions for the installation, commissioning and repair of fibre optic cables in Eskom Distribution Central East Cluster.

2.1.2 Applicability

This document shall apply throughout Eskom Distribution Central East Cluster.

2.2 Normative/informative references

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

2.2.1 Normative

- [1] 240-110403330 - OPGW Hardware and Installation Requirements for Overhead Lines
- [2] 240-72274816 - Fibre Optic Cable Joint Enclosures for Aerial Cables.
- [3] 240-70732888 – Fibre Optic Cable System Acceptance Testing.
- [4] 240-70733995 – Optical Distribution Frame / Patch Panel
- [5] 240-106030205 – Fibre Optic Gantry to Substation Control Room Scope of Work Guideline
- [6] 240-60777474 – Specification for Suspension and Strain Assemblies and for Hardware for Transmission Lines
- [7] NRS 061-1 – Overhead Ground-wire with Optical Fibre Part 1: Product Specification.

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- [8] NRS 061-2 - Overhead Ground-wire with Optical Fibre Part 2: Installation Guidelines.
- [9] NRS 078-1 – Long Span Self Supporting Dielectric Fibre Optic Cables Part 1: Product Specification.
- [10] NRS 078-2 - Long Span Self Supporting Dielectric Fibre Optic Cables Part 2: Installation Guidelines.
- [11] NRS 088-1 – Duct and Direct Buried Underground Fibre Optic Cable Part 1: Product Specification.
- [12] NRS 088-2 - Duct and Direct Buried Underground Fibre Optic Cable Part 2: Installation Guidelines.

2.2.2 Informative

- [13] ISO 9001 Quality Management Systems.
- [14] 32-1034 - Eskom Procurement and Supply Management Procedure.
- [15] 240-48929482 Tender Engineering Evaluation Procedure
- [16] 240-70413865 Power Delivery Operating Assessment, Authorization and Training standard.

2.3 Definitions

2.3.1 General

Definition	Description
Inquiry	A competitive or non-competitive request for information, interest, quotations or proposals made to a supplier, a group of suppliers or the market at large.
Tender	A tender refers to an open or closed competitive request for quotations / prices against a clearly defined scope / specification
Criteria	Process by which the inquiry will be evaluated and scored
Submission	The tender in accordance with the requirements of the enquiry
Technical Evaluator	End-users, technical experts nominated by the end-user and Divisional technical functionaries with the necessary technical expertise
Pre-Engineering outputs	Outputs from a line walkdown, BOQ acceptance, formulation of method statements.
Dead line	Line that is de-energized
Installation	Stringing of new fibre, regulating & clamping
Live line	Line that is energized
Dressing Preparation	Installation of running blocks, detaching old hardware, if required on structure and attaching of new hardware (strain/suspension assemblies, vibration dampers, insulators & earth bonds) to tower.
Dressing	Dressing of Joint Strain Tower (includes installation of downlead clamps, slack take-up spool & joint box)
Removal	Removal (to take cable off attachment point & storing) of existing earth-wire or OPGW (only if not used to pull in new OPGW), ADSS or ADLash
Splicing	Joining / fusion of two fibre cores together or termination of fibre onto the patch panel mid-couplers & connectors

Definition	Description
Mandatory Criteria	Mandatory criteria (gatekeepers) are 'must meet' criteria. These criteria shall not be weighted, or point scored but shall be assessed on a Yes/No basis as to whether the criteria are met. An assessment of 'No' against any criterion shall technically disqualify the tenderer and shall not be further evaluated against Functional Criteria.
Fibre Optic Repair	Refers to the restoration of damaged or faulty fibre optic links to ensure uninterrupted data transmission. This process is essential when cables suffer physical damage (e.g., cuts, bends, or environmental wear) or connector faults. Test with an Optical Power Meter to ensure signal integrity.
Functional Criteria	Bids meeting the Mandatory Evaluation Criteria will be evaluated against the Functional Evaluation Criteria to allocate an evaluation result (score). Only those submissions achieving a score meeting or exceeding the defined threshold will be considered for further processing.

2.3.2 Disclosure classification

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

2.4 Abbreviations

Abbreviation	Description
ADSS	All-Dielectric Self Supporting
BOQ	Bill of Quantities
CIDB	Construction Industry Development Board
HDPE	High-density polyethylene
HV	High Voltage
ISO	International Organization for Standardization
NRS	National Rationalised Specifications
ODF	Optical Distribution Frame
OEM	Original Equipment Manufacturer
OPGW	Optical Ground Wire
ORHVS	Operating Regulations for High Voltage Systems
OTDR	Optical Time Domain Reflectometer
SANS	South African National Standard
SI	Standards Implementation
TET	Technical Evaluation Team

2.5 Roles and responsibilities

It is the role of the SI department to utilise this document to establish the technical criteria and to evaluate the submissions accordingly. The process will be initiated by Commercial department when required. It is the responsibility of the Commercial department to ensure that this document is made available to the tenderers. The tenderer is to ensure that they comply with these criteria.

- **Procurement:** Enquiry Process Owner
- **Subject Matter Expert:** Lead Technical Evaluator.
- **Technical Evaluation Team member:** The delegated Engineer / Technical specialist who are responsible to review and evaluate technical aspects of the tender documents as per predefined evaluation criteria / strategy.
- **Moderator(s):** A person(s) selected to oversee the tender technical evaluation process.

2.6 Process for monitoring

The document will be reviewed as and when required.

2.7 Related/supporting documents

Not applicable.

3. Technical Evaluation Strategy

The evaluation strategy and supporting criteria described in the following sections will be used to evaluate qualifying bids.

The technical evaluation process will follow a sequential order which will start with Stage 1, namely the Mandatory requirements. If all Stage 1 Mandatory requirements have been satisfied then the evaluation will proceed to Stage 2, which is the evaluation of the predefined Functional Scoring requirements.

All Functional Scoring criteria will be scored, and a threshold is set for stage 2. If the stage 2 threshold is met, then the qualifying bids will be processed further for selection.

3.1 Stage 1: Mandatory Criteria and Returnable

If the Mandatory requirements **ARE NOT MET**, then the evaluation will **NOT PROCEED** further and the Tender submission shall be deemed non-responsive.

If the Mandatory requirements **ARE MET**, then the Tender submission shall proceed to the next stage that is the Functional Scoring Stage.

Where certification by a Commissioner of Oaths is required, copies must be **clearly legible and not older than three months** from the date of tender close. The Commissioner must provide their name, date, position and address, with signature and date **must be clearly visible**.

Evidence requiring clarification will be managed under the terms of 32-1034. Where the clarification outcomes confirm that the evidence in question is non-compliant, it will be processed accordingly in terms of the relevant criterion.

Table 1: Mandatory Criteria and Returnables

No	Criteria	Returnable	Further Notes	Minimum Requirement
1.	Organogram and Annexure I	Organogram signed by the Managing Director/CEO/Owner. Annexure I to be fully completed for each resource listed in the organogram.	Refer to Note 1: item number 2 below. Both items are required to comply fully with these criteria.	Organogram must be signed by the director/CEO/owner and certified by a Commissioner of Oaths in last three months prior to tender close. Organogram should include the names and ID numbers of the members as well as their job title in the related work. Annexure I to be completed for each employee in organogram.
2.	Previous recent experience (past 5 years) with installation of Fibre Optic cables.	Completed Experience Register in the required format– See format Annexure B	Refer to Note 1: item number 4 below.	Must be signed and certified by a Commissioner of Oaths in last three months prior to tender close.
3.	Tools and Equipment Register	Specific equipment must be listed on register – See format Annexure C	Refer to Note 1: item number 1 below.	Register not older than three months
4.	Vehicle Register	Vehicle registration documents indicating who is the owner of the vehicles or hiring (contracts/agreements) – See format Annexure D	Refer to Note 1: item number 3 below.	Completed, Dated and signed Vehicle Register in the required template by the CEO/Managing Director/Owner (see template in Annexure D). Vehicle hiring/contracts/agreements from a bona fide hiring company to be provided if applicable. Register not older than twelve months
5.	Technical Compliance Schedule AB	Completed register in Annexure E		To be completed in full.
6.	Fibre Optic cable Installation Methodology	Installation methodology for the following types of fibre optic <ul style="list-style-type: none"> • ADSS • OPGW • DUCT 	Refer to Note 1: item number 6 below.	Fibre optic installation methodology needs to be completed for all three types of fibre (ADSS, OPGW, DUCT) as per relevant NRS 061-2, NRS 078-2 and NRS 088-2 standards. The tenderer can complete the methodologies in their own template.
7.	HV Accredited Linesman	Completed Linesman Register in the required format– See format Annexure A Min 1 resource	“Awareness Courses” shall not be deemed to be accredited training.	Completed accredited courses plus 2 years relevant experience or five years’ experience with RPL (recognition of prior learning) process or qualified Electrical Line Mechanic

No	Criteria	Returnable	Further Notes	Minimum Requirement
8.	Splicer and commissioning technician/engineer	Training Certificates Min 1 resource		Certificates from SETA or equivalent registered service providers must be certified by a commissioner of Oaths, with a signature and date not older than three months from the issue date of this tender. Training certificates or permits are to be valid on the date of tender close. Certificates that have expired prior to this date will not be accepted as valid evidence.
9.	Affidavit Declaration Form	Completed and signed Affidavit - Declaration Form in the required template (see template in Annexure H) Signed by the Managing Director/CEO/Owner and in the presence of a Commissioner of Oaths/ Justice of Peace "Completed" means that the relevant information is filled in, AND the affidavit is not left blank.	Refer to Note 1: item number 5 below.	1 Affidavit - Declaration Form

Note 1: MANDATORY CRITERIA AND RETURNABLE

1. Tools & Equipment Registers:
 - 1.1. Tools & Equipment Registers: Shall demonstrate compliance with the requirements of **Table 1 above**
 - 1.2. If the tools lists are not dated, signed and incomplete, they will not be accepted as valid evidence.
 - 1.3. Refer to Annexure C for the *Tools and Equipment Register* Template.
 - 1.4. "Completed" means that the company name and relevant information is filled in
 - 1.5. If the submission proceeds to Stage 2, the same register will be used for scoring. An additional copy of the register for scoring purposes is not required.
2. Company Organogram – Technical team:
 - 2.1. Include names and /or ID numbers of the company owner(s), vehicle owner(s) and technical staff.
 - 2.2. **Important note:** If the organogram is not dated, signed and incomplete by the required signatories it will not be accepted as valid evidence.
 - 2.3. "Completed" means that the company name and relevant information is filled in, AND the Organogram contains relevant information and is not left blank.
3. Vehicle Register:
 - 3.1. Vehicle Register: Shall demonstrate compliance with the requirements of **Table 1 above**
 - 3.2. If the Vehicle Registers are not dated, signed or incomplete they will not be accepted as valid evidence.
 - 3.3. Refer to Annexure D *Vehicle Register* Template.
 - 3.4. "Completed" means that the company name and relevant information is filled in, AND relevant tables in the Vehicle register contain information and are not left blank.
 - 3.5. If the submission proceeds to Stage 2, the same register will be used for scoring. An additional copy of the register for scoring purposes is not required.

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3.6. No hiring agreements from private individuals will be accepted.

4. Project Experience Registers:

4.1. Contractors Project Experience Registers: Shall demonstrate compliance with the requirements of **Table 1 above**

4.2. If the Contractors Project Experience registers are not dated, signed and incomplete they will not be accepted as valid evidence.

4.3. Refer to Annexure B for the Contractors Project Experience Register Templates.

4.4. "Completed" means that the company name and relevant information is filled in, AND relevant tables in the Contractor's Project Experience Registers contain information and are not left blank.

5. Affidavit - Declaration Form

5.1. The Affidavit - Declaration Form shall be signed in the presence of a Commissioner of Oaths / Justice of Peace. Refer to Annexure H Affidavit - Declaration Form for the required template.

5.2. The template provided in Annexure H shall be used as the returnable.

5.3. Each of the submitted Returnables, where it has been stated, shall be initialled in presence of a Commissioner of Oaths / Justice of Peace.

5.4. The details of the Company Signatory as well as the Commissioner of Oaths / Justice of Peace shall match those in each of the Returnables initialled in the presence of the Commissioner of Oaths / Justice of Peace and the Affidavit - Declaration Form submitted.

5.5. "Completed" means that the relevant information is filled in, AND the declaration is not left blank.

6. Fibre Optic cable Installation Methodology:

6.1. Three separate installation methodologies are required, one for each type of fibre optic cable installation

6.2. The tenderer is required to provide each installation methodology on their own template.

7. Tenderers shall not modify the template forms / tables in any manner. Only the relevant data is to be populated in the template forms / tables (refer to templates provided in the various Annexures at the end of this document. Modification of the forms / tables will lead to exclusion of the data which will impact final scoring.

8. Submissions that contain suspected fraudulent evidence will be referred to the appropriate forensic departments for further investigation

3.2 Stage 2: Functional Criteria and Returnable

The evidence must be submitted at tender stage. The evidence will be assessed and scores will be allocated accordingly.

Note that the stipulated criteria do not represent the full extent of training, tools and equipment required for the execution of the works. The full requirements must be defined and fulfilled by the appointed contractor.

The minimum threshold is set at 80%.

Where certification by a Commissioner of Oaths is required, copies must be **clearly legible and not older than three months** from the date of tender close. The Commissioner must provide their name, date, position and address, with signature and date **must be clearly visible**.

The functional criteria will consist of 5 main sections and each section will be weighted as per **Table 2**, below.

Table 2: Summary of functional criteria and weighting

Item No.	Criteria Description	Weights
1	Tools and equipment	10%
2	Vehicles	10%
3	Related Project Experience	40%
4	Installation Methodology for ADSS, OPGW and DUCT fibre	20%
5	Technical Compliance	10%
6	Skills and Training	10%

The following evidence must be submitted by tender closing date.

3.2.1 Tools and equipment

- a) The criteria (i.e., the list of tools and equipment requirements) are stated in Annexure C.
- b) The requirement is to demonstrate access to the listed tools and equipment either through ownership or hiring. A minimum threshold of 80% is required.
- c) The returnable will be as follows:
 - Return a **COMPLETED, DATED AND SIGNED** Tools and Equipment lists (Annexure C), indicating on the submission if the item is **owned** or being **hired**,
 - **AND** The register shall be certified by a Commissioner of Oaths clearly legible and not older than three months from the date of tender close. The Commissioner’s details, with signature and date must be clearly visible.
 - **AND** if the item is being hired then for proof of hiring is required. Include a letter from a **bona fide** hiring company stating the items that are being hired (i.e., all items in the table or the specific items that are being hired). The letter issued will only be accepted if it is issued from a bona fide tool hiring companies or suppliers; letters from Construction Companies will not be accepted. The hiring letter shall be signed by the lessor (hiring company representative).
 - The Returnable/s shall be completed, dated and signed off by the Company Managing Director / Chief Executive Officer / Owner.
 - Tenderers shall not modify the forms / tables in any manner. Only the relevant data is to be populated in the template forms / tables (refer to Annexure C for the templates). Modification of the forms/tables will lead to exclusion of the data which will impact final scoring.

Table 3: Tools and equipment

Section	Criteria	Returnable
Tools and equipment	Fully completed tools and equipment register	Information at time of tender – Please complete Annexure C, all fields must be populated.

3.2.2 Vehicles

- a) The criteria (i.e. the list of vehicle requirements) are stated in Table 4 below.
- b) The requirement is to demonstrate access to the listed vehicles either through ownership or hiring.
- c) The returnable will be as follows:
 - Return a **CORRECTLY COMPLETED, DATED AND SIGNED** Vehicle Register in Annexure D which includes all items stated in the table below, indicating on the submission if the vehicle is **owned** or being **hired**.
 - **AND** The vehicle register shall be certified by a Commissioner of Oaths clearly legible and not older than three months from the date of tender close. The Commissioner’s details, with signature and date must be clearly visible.
 - Vehicles indicated as Owned will need to be further substantiated by providing the Vehicle Owner’s information and position in the tendering company. If the vehicle owner does not hold a position in the company, then the vehicle will not be considered “owned” The organogram will be used as substantiating evidence and the owner stated on the vehicle register must appear on the organogram, in cases where the vehicle is not registered in the tendering company’s name
 - **AND** if the vehicle is being hired, then for proof of hiring is required. Include a letter from a **bona fide** hiring company stating the items that are being hired (i.e., all items in the table or the specific items that are being hired). The letter issued will only be accepted if it is issued from a bona fide vehicle hiring companies or suppliers; letters from Construction Companies will not be accepted. The hiring letter shall be signed by the lessor (hiring company representative).
 - The Returnable/s shall be signed off by the Company Managing Director / Chief Executive Officer / Owner.
 - Tenderers shall not modify the form/table in any manner. Only the relevant data is to be populated in the template forms / tables (refer to Annexure D for the template). Modification of the forms/tables will lead to exclusion of the data which will impact final scoring.
 - Hiring from other contractors is not accepted.

Note:

- If the vehicle register is not signed, it will not be accepted as valid evidence.
- Company asset registers that are not compliant with the vehicle listing contained in Annexure D, will not be accepted as valid evidence.
- A Double Cab Bakkie may be used to transport employees, but only to the maximum carrying capacity for passengers, and tools & equipment up to its load carrying limit may be carried.

Table 4: Mandatory vehicles

MANDATORY VEHICLE’S - OWNED OR HIRED				
Section	Criteria	Returnable	Evidence Notes	Min Quantity
Vehicles	Bakkies	Proof of ownership / Hire Letter	In order to demonstrate ownership, license documents are to be submitted, clearly showing the type of vehicle and the owner’s name.	1

	Truck with Mounted Crane - 8T minimum -	Proof of ownership + Proof of Crane / Hire Letter Excluding drop side trucks	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 specific truck must be submitted. Footplate specification according to 240-69125290	1
	Other vehicle for transporting staff	Proof of ownership / Hire Letter	In order to demonstrate ownership, license documents are to be submitted, clearly showing the type of vehicle and the owner's name.	1
	Fully completed vehicle register	Completed register in Annexure D	Information at time of tender – Please complete Annexure D, all fields must be populated. Please refer to Annexure G for scoring	N/A

3.2.3 Related Project Experience

a) The criteria (i.e. related work experience and references) are stated in table 5 below.

b) The returnable will be as follows:

- Return a **COMPLETED AND SIGNED** Contractor's related project experience register in accordance with the provided template in Annexure B which includes all project details and compliance with criteria stated above.
- Listed projects will undergo verification and it is thus advisable to include alternative contact numbers for the Client and/or Project Manager if possible.
- Tenderers shall not modify the form/table in any manner. Only the relevant data is to be populated in the template forms / tables (refer to Annexure B for the template). Modification of the forms/tables will lead to exclusion of the data which will impact final scoring.
- If the register is not signed, or the project does not meet the criteria stated above, or the project details are incomplete or incorrect, it will not be accepted as valid evidence.

Table 5: Project Experience Evidence

Section	Criteria	Returnable
Related work experience and references	Complete schedule indicating projects for work completed and work references	Information at time of tender – Please complete Annexure B, all fields must be populated. Please refer to Annexure G for scoring

3.2.4 Fibre Installation and Repair Methodologies

a) The criteria (i.e. fibre installation methodologies) are stated in Table 6 below.

b) A comprehensive installation methodology as per relevant NRS standards is necessary for all three types of fibre installation. Kindly consult Annexure F to identify the specific areas that should be addressed within each methodology.

c) The returnable will be as follows:

- A detailed installation methodology each for ADSS, OPGW, and DUCT fibre using your **own template**. Use Annexure F as a **guide**, but submit each methodology separately from Annexure F. **Each fibre type requires its own methodology.**

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Table 6: Fibre Installation and Repair Methodology Evidence

Section	Criteria	Returnable
Fibre installation methodologies	Provide complete detailed installation and repair methodologies, the areas of importance and scoring are shown in Annexure F. Include Cable Installation, Patch Panel/Joint Box Installation, Fibre Testing and Commissioning and Fibre Repair in the methodologies.	A completed and detailed installation methodology for each fibre installation type: 1. OPGW 2. ADSS 3. DUCT

3.2.5 Technical Compliance

- a) The criteria (i.e. technical compliance) are stated in Table 7 below.
- b) The returnable will be as follows:
 - A fully completed AB Schedule in Annexure E.

Table 7: Technical Compliance Evidence

Section	Criteria	Returnable
Compliance to technical standards	Ensure material supplied and the installation of the fibre optic system is to the required standards	Completed AB Schedule in Annexure E. All fields are required to be completed.

3.2.6 Skills and Resources

Table 8 lists the details of the skills and training requirements that will be evaluated.

The following functional evidence (table 8) must be submitted by the tender closing date. Please note that the quantity stated is for scoring purposes only. Resource requirements specific to the scope of work of the Task Order may differ from the quantities stated below. The Contractor is expected to fulfil the resource requirements as per the Task Order if successfully awarded on this contract.

Table 8: Skills and Resources

Criteria	Returnable	Notes	Quantity
Truck-mounted crane operator employed by the tendering company or hired from vehicle hiring company	<p>Option 1: For employed resources - Training certificates demonstrating operator training for cranes mounted on a truck (e.g. C32 or F32) or mobile crane</p> <p>Option 2: Proof of hiring of operator when hiring the crane truck from a bona fide hiring company. This option is only applicable for trucks hired by the tendering company and may not be used if the truck evidence on the vehicle register demonstrates truck ownership.</p>	For option 2: If the Crane Truck in the vehicle evidence is hired from a Bona Fide hiring company, an operator may be hired with the crane from the same hiring company. The hiring letter must clearly state the truck mounted crane operators are available for hire.	Maximum 1 required
ORHVS	ORHVS Training Certificates	Certificates must be from Eskom or Eskom accredited training service provider & certified by Commissioner of oaths	Minimum 1 required
Splicer and commissioning technician/engineer	Fibre Optic Training Certificates	Certificates must be from accredited training service provider (SETA or equivalent) & certified by Commissioner of oaths	Minimum 1 resource

3.3 Requirements at Contracting Stage – Stage 3

These requirements will be required at contracting stage as they have been identified as important for the scope of fibre optic cable installation and repair but were seen as not critical (low risk) at desktop evaluation stage.

Table 9: Requirements at Contracting Stage

Item No.	Description	Proof documentation
1	PDE SCOT Website Access	Letter showing username and password
2	Letter of Registration as Electrical Contractor (DoL)	Certified copy

Note on item 2:

3.3.1 Department of Labour Registration:

It is the responsibility of the Electrical Contractor to ensure that their Department of Labour Registration is valid and current in order to be considered for this contract.

The Electrical Contractor must be registered with the Department of Labour in terms of regulation 6(4) of the Electrical Installation Regulations.

The evidence required is a certified copy of the Letter of Registration as an Electrical Contractor from the Department of Labour.

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Before the tenderer can sign the contract, their certified copy of the registration letter from the Department of Labour must:

- be valid at the time of contract signing.
- not be certified older than three months at the time of contract signing.
- be issued in the correct name of the applicable tenderer i.e. Name of Company / Trading Name or Company Owner.
- The Electrical Contractor's Department of Labour Registration must be reapplied for if:
 - the registered person departs from the Company; or
 - if the letter expires within the duration of the Eskom contract – This must be checked by Project Management.

The Eskom contract buyer must confirm that the registration is valid at the time of contract signing.

3.4 Technical Evaluation Thresholds

The minimum weighted final score (threshold) required for a tenderer to be considered from a technical perspective is 80% in compliance.

Eskom reserves the right to reduce the functionality threshold to 70% in the event that less than the required number of tenderers meet the stipulated functionality threshold of 80%.

4. Authorization

Name and surname	Designation

5. Revisions

Date	Rev	Compiler	Remarks
2025/09/15	0	Yadev Harigen Yusuf Peer	New Document

6. Development team

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

- Yadev Harigen
- Yusuf Peer

7. Acknowledgements

- Wimpie Van Der Merve
- Michael Lombard

Annexure A – Linesman Register

No.	Name	ID Number	Date when course completed or practical period	Training Course/ELW Modules	Training Facility	Practical experience with details of Company name	Is the resource currently employed with the Tendering Company?

Guideline:

- 1) Only training from accredited training facilities listed on Eskom National Facilitators Database will be accepted.
- 2) Indicate Y to confirm the resource is currently employed with the Tendering Company and to indicate employment contracts are available.

Requirements to demonstrate compliance:

In order for this evidence to be considered compliant the register must be completed with a minimum of 1 entry.

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Annexure B – Previous Project Experience in the last 5 years

#	Project name and reference numbers	Client Name	Client Contact Number	Type of fibre installed (OPGW/ADSS /DUCT)	Project Value	Completion Date & Duration	Scope
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							

I hereby confirm that the previous experience listed above is a true reflection of the projects completed by my Company.

Name: _____ (Managing Director / Chief Executive Officer / Owner)

Signature: _____ (Managing Director / Chief Executive Officer / Owner) Date: _____

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Annexure C – Tools and Equipment Register

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”) in the tool list provided.
- For proof of hiring, indicate “hiring” on the tool list provided and include a letter from a bona fide hiring company stating the quantity and the period.
- Minimum threshold of 80% is required.

Company Name: _____

TOOL LIST: Mandatory

No.	Mandatory Tool	Min Required	Actual Quantity Owned	Actual Quantity Hired	Score
1	Winch and tension set pulling capacity (greater or equal to 30 kN)	1			3
2	Dielectric pilot rope	5000m			0.5
3	Running out blocks for OPGW and ADSS	30			3
4	Lifting Tackle & pulling blocks complete with wire rope	1			0.5
5	Tensioning ratchet hoists	2			0.5
6	Come along clamps	2			0.5
7	Hydraulic Cutters	1			1
8	Tension measuring devices (Dynamometer)	2			2
9	Specialized line construction tools and safety equipment (e.g. Safety Harness, Earth kit, Webbing & Slings, etc)	1			2
10	Drum Jacks (with Shaft)	1			0.5
11	Running Earths	1			0.5
12	Manual Bobbin Stand	1			0.5
13	Steps For Monopoles	25			0.5
14	Ladders (including Live line ladders)	1			0.5
15	Hand line/rope	60m			0.5

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16	Multimeter	1			0.5
17	Earth resistance tester	1			0.5
18	Earth leakage/Polarity tester	1			0.5
19	Crimping Tools 4PI MV	1			0.5
20	Hex Crimping Tool LV	1			0.5
	Fibre Testing & Splicing equipment				
1	OTDR/MAX Tester (Calibration Certificate Required)	1			2
2	Power Meter and Light Source (Calibration Certificate Required)	1			2
3	Optical Talk Sets (Calibration Certificate Required)	2			0.5
4	Fusion splicers (Calibration Certificate Required)	1			2
	Subtotal				25
	Threshold (80%)				20

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 will be enough to cater for one or two full teams and which require calibration that certificates must be submitted and will be calibrated before the execution of work.

Name: _____ (Company Managing Director/Chief Executive Officer/Owner)

Signature: _____ (Company Managing Director/Chief Executive Officer/Owner)

Date: _____

Annexure D – Vehicle Register

Mandatory Requirements (Refer To Table 4 For Evidence 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 disc or license information.
- For proof of hiring, include a letter from a bona fide hiring company.

Company Name: _____

VEHICLE LIST

Mandatory Vehicle		Owned or Hired		If "Owned", provide the following information:		
				Vehicle Registration Number	Vehicle Make	Vehicle Model
		Quantity Owned	Quantity Hired			
Bakkie or Light Delivery Vehicle (LDV) Minimum 1						
Truck with Crane (Crane – 8T minimum) Minimum 1						
People Carriers (for transporting staff) Minimum 1						
Total 3						
Score out of 5						

- If contractor owns all three or more vehicles score is 5
- If contractor owns Bakkie and any other of the two vehicles score is 4
- If contractor owns Bakkie and hire the Truck and Transporting vehicle score is 3
- If contractor needs to hire all three score is 2

Evidence (copy the vehicle license document stating owner / company name information) as per the vehicle list above.

Evidence to be in the company name or company owner.

I hereby confirm that the vehicle list above is a true reflection of the vehicles owned or hired by my Company and vehicle/s (bakkie/s) stipulated are enough for one or two complete teams.

Name: _____ (Managing Director / Chief Executive Officer / Owner)

Signature: _____ (Managing Director / Chief Executive Officer / Owner)

Date: _____

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Annexure E – Technical Documentation Compliance

Item	Description	Schedule A	Schedule B	Score
1	HDPE Sleeve for Fibre Optic Installation			
1.1	It shall abide by SANS 61386-24 (Conduit systems for cable management, Part 24: Requirements – Conduit systems buried underground)	Comply		
1.2	The material properties shall abide by the ISO 1183(Plastics) and ISO527(Plastics Determination of tensile properties) standards.	Comply		
1.3	The conduit should be made of HDPE material	Comply		
2	Sprague Tubing (CABLE COMM: FLEXIBLE CONDUIT)			
2.1	The Sprague tubing shall comply with SABS IEC 60614-1:1994	Comply		
3	Fibre Termination (Patch Panel and Patch leads) Patch Panel and Patch leads			
3.1	ODFs shall conform to the Schedule A/B Distribution Frame/Patch Panel standard 240-70733995	Comply		
3.2	Patch leads (Normal and Ruggedized) shall conform to IEC 60332-1 and IEC 60332-3	Comply		
3.3	The ODF shall be installed in an Equipment panel according to 240-70733995: OPTICAL DISTRIBUTION FRAME / PATCH PANEL / PATCH BOX when new is required.	Comply		
4	Fibre optic system			
4.1	Conformance to Eskom Fibre Optic Design and Installations – Substations, 240-46264031	Comply		
4.2	Conformance to Eskom Fibre Acceptance Testing Standard, 240-70732888	Comply		
4.3	Conformance to Eskom labelling of fibre optic cables, 240-46263618	Comply		
	Maximum Score			10

Annexure F – Fibre Optic Installation Methodology Criteria

Item	Description	Included (Yes/No)	Included (Yes/No)	Included (Yes/No)
1	Cable Installation (OPGW, ADSS & DUCT)	OPGW (NRS 061-2)	ADSS (NRS 078-2)	DUCT (NRS 088-2)
1.1	Safety and Cleanliness Total score = 1			
1.2	Handling of Drums and Cable Total score = 1			
1.3	Pulling Tension, Bending radius, twist (OPGW and ADSS only) Total score = 2			
1.4	Specialised Equipment Total score = 1			
1.5	Joint Box Connectivity Total score = 1			
2	Patch Panel/Joint Box Installation			
2.1	Equipment Total score = 1			
2.2	Preparation Total score = 1			
2.3	Splicing Total score = 1			
2.4	Waste handling Total score = 1			
3	Fibre Testing			
3.1	Equipment Total score = 1			
3.2	Pre-haul testing Total score = 1			
3.3	Splicing Procedure Total score = 1			

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4	Fibre Repair			
4.1	Equipment Total score = 1			
4.2	Preparation Total score = 1			
4.3	Splicing Procedure Total score = 1			

Annexure G – Scoring Matrix

Item No.	Description	Evaluation	Weights	Score
1	Tools and equipment – Annexure C	25	10%	10
2	Vehicles - Annexure D	5	10%	10
3	Previous Company related experience with Fibre Optic Installations – Annexure B for 1 - 2 projects = a score of 1 for 3 - 5 projects = a score of 2 for more than 5 projects = a score of 3 for 3 - 5 projects (All 3 types – OPGW/ADSS/DUCT) = a score of 4 for more than 5 projects (All 3 types – OPGW/ADSS/ DUCT) = a score of 5	5	40%	40
4	Fibre optic Installation Methodology document OPGW = a score of 16 ADSS = a score of 16 DUCT = a score of 14	46	20%	20
5	Compliance with Technical documentation for material (HDPE, Sprague Tubing, Patch Panels, Patch Leads) and system installation – Annexure F	10	10%	10
6	Skills and Resources Truck Mounted Crane Operator = a score of 1 ORHVS = a score of 4 Splicer and commissioning technician/engineer = a score of 4	9	10%	10
	Maximum Score		100%	100
	Threshold		80%	

Annexure H – Affidavit - Declaration Form

I, _____ (full names),

ID Number: _____,

Managing Director / Chief Executive Officer / Owner (underline which is applicable) at/of

_____ (Tendering Company Name),

solemnly declare that all the information contained in this tender submission is true.

Signature of Managing Director / Chief Executive Officer / Owner (underline which is applicable):

Sworn to/Affirmed before me at _____

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

Commissioner of Oaths/Justice of Peace:

(Commissioner's details with signature and date)

Annexure I – Consent Form For Processing Personal Information
(In compliance with the Protection of Personal Information Act, 4 of 2013)

This consent form is provided in accordance with the **Protection of Personal Information Act, 4 of 2013 (POPIA)** to ensure that your personal information is collected, processed, and stored in a lawful and responsible manner.

I, _____ **[Full Name]**, employed by
_____ **[Third Party Company Name]** (hereinafter referred to as the "Third Party"), hereby provide my voluntary and informed consent to **Eskom Holdings SOC Ltd.** (hereinafter referred to as the "Primary Party") to process my personal information as outlined below.

The following personal information may be collected and processed by the Primary Party:

- Full Name
- Identification Number/Passport Number
- Contact Details (e.g., phone number, email address)
- Physical and/or Postal Address
- Employment Details (e.g., position, work location)
- Qualifications, Certifications and Training

I understand that my personal information will be collected, stored, and processed for the following purposes:

- Verification of employment
- Validation of Qualifications and Training

The Primary Party undertakes to:

- Process my personal information **lawfully, fairly, and transparently** in accordance with POPIA.
- Implement **appropriate security measures** to prevent unauthorized access, loss, or misuse of my personal data.
- Retain my personal information **only for as long as necessary** to fulfil the specified purpose or as required by law.

I acknowledge that I have the following rights under POPIA:

- To request access to my personal information.
- To request correction, deletion, or restriction of my personal information.
- To object to the processing of my personal data.
- To lodge a complaint with the **Information Regulator of South Africa** if my rights are violated.

I understand that I may withdraw my consent at any time by providing written notice to the Primary Party. However, I acknowledge that this may affect the provision of certain services or compliance with contractual obligations.

I, **[Full Name]**, hereby declare that:

- I have read and understood the terms of this consent form.
- I voluntarily grant permission to the Primary Party to process my personal information.
- I confirm that the information provided is accurate and up to date.

Full Name: _____ **Signed at:** _____ **Date:** _____

Employee of _____ **[Third Party Name] Signature:** _____

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