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CRITERIA FOR LV CABLE
ACCESSORIES**

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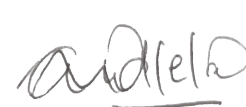
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1. Introduction

This document has been developed to set the standard Technical Evaluation Criteria to be used when performing technical evaluations on the tender submissions for LV cable accessories for use in Eskom Distribution. It has been developed based on the Eskom Standards as well as the applicable National Standards.

Eskom has standardised on heat shrink and cast resin LV cable accessories.

2. Supporting clauses

2.1 Scope

The document covers the criteria for the evaluation of LV cable accessories used on electrical networks throughout Eskom Distribution.

2.1.1 Purpose

The document aims to standardise on the Technical Evaluation Criteria to be used when evaluating the tender submissions for LV cable accessories in line with the Eskom requirements, and it is applicable to all the technical evaluations for the related tender submissions.

2.1.2 Applicability

This document shall apply throughout Eskom Distribution. This document shall also be applicable to any nominated supplier as part of possible contract award or pre-qualification.

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] NRS 074-2, low-voltage (600/1000 V) cable systems for underground electrical distribution Part 2: accessories.
- [2] NRS 075, Mechanical torque shear connectors for medium voltage applications.
- [3] BS EN50393, Test methods and requirements for accessories for use on distribution cables of rated voltage 0,6/1,0 (1,2) kV.
- [4] SANS 1213, Mechanical cable glands.
- [5] SANS 61238-1, Compression and mechanical connectors for power cables for rated voltages up to 30 kV (Um = 36 kV) - Part 1: Test methods and requirements
- [6] SANS 1507-3, *Electric cables with extruded solid dielectric insulation for fixed installations (300/500 V to 1 900/3 300 V) — Part 3: PVC Distribution cables.*
- [7] SANS 61442, Test methods for accessories for power cables with rated voltages from 6 kV (Um = 7,2 kV) up to 30 kV (Um = 36 kV)
- [8] 240-56062542, Accessories for low-voltage power cables for systems with nominal voltages up to and including 1 kV.
- [9] DDT-8031, Heat shrink joints
- [10] D-DT-8014, Resin Joints
- [11] D-DT 3147, LV Termination kit
- [12] D-DT 3102, Lugs

- [13] D-DT 3076, Ferrules
- [14] D-DT 3070, Cable Glands
- [15] D-DT 3148, Cable end
- [16] D-DT 3138, Tubing set

2.2.2 Informative

- [17] 32-9: Definition of Eskom documents.
- [18] 32-644: Eskom documentation management standard.
- [19] 474-65: Operating manual of the Steering Committee of Technologies (SCOT).

2.3 Definitions

2.3.1 General

Definition	Description
Eskom Evaluating Representative(s)	The person(s) appointed by Eskom to perform the evaluation of tender submission(s) in line with the Eskom requirements.
Heat shrink	Joints, terminations and any part thereof that is constructed with pre-expanded components that require heat to fit and shrink into position. Excluding cold shrink components.
Indoor termination	Terminations that is intended for use in an enclosure or indoors; the exposure to solar radiation or weathering is reduced.
Outdoor terminations	Terminations that is intended for use where it is exposed to either solar radiation or weathering.

2.3.2 Disclosure classification

Confidential: the classification given to information that may be used by malicious/opposing/hostile elements to harm the objectives and functions of Eskom Holdings Limited.

2.4 Abbreviations

Abbreviation	Description
Al	Aluminium
Cu	Copper
LV	Low Voltage
SI	Standards implementation

2.5 Roles and responsibilities

All Eskom employees and/or appointed bodies involved in the procurement of LV cable accessories shall ensure that the project deliverable meets the requirements as stated in this Technical Evaluation Criteria.

All suppliers of LV cable accessories to Eskom must be conversant with the requirements of this standard, and shall ensure compliance with the requirements. Suppliers shall ensure that they obtain clarity where required and obtain all supporting information or documents necessary to comply with this document.

2.6 Process for monitoring

LV cable accessories acceptance shall be based on fully compliant submission of documents, factory evaluation and factory samples evaluations.

2.7 Related/supporting documents

Not applicable.

3. Requirements

The evaluation methodology will include three main phases:

- a) Documentation evaluation; which consist of two phases i.e Mandatory Evaluation Criteria and Qualitative Evaluation Criteria,
- b) Factory Evaluation Criteria, and
- c) Factory Sample Evaluation Criteria.

3.1 Three Phases of the Evaluation Process

3.1.1 Documentation Evaluation

The documentation evaluation exercise is performed by the Eskom evaluating representatives. This initial part of the evaluation starts when submissions are opened and assessed for the first time.

During the documentation evaluation; fully compliant units in accordance with this document and the listed normative referenced document will be required.

The documentation evaluation will consist of two phases:

- a) Mandatory Technical Evaluation Criteria, and
- b) Qualitative Technical Evaluation Criteria

The tender submission must meet all the Mandatory Technical Evaluation Criteria in order to proceed to the Qualitative Technical Evaluation Criteria. Failure to submit and comply with the requirements specified in the Mandatory Technical Evaluation Criteria will lead to immediate disqualification.

Qualitative Technical Evaluation Criteria consist of a scoring system. Tenderers will be required to score a minimum of 70% from the Qualitative Technical Evaluation to proceed to the Factory Evaluation and Factory Sample Evaluation stage. Any tenderer not achieving the 70% scoring required for Qualitative Technical Evaluation Criteria will be disqualified.

Only tenderers that have achieved a minimum score of 70% in Qualitative Technical Evaluation Criteria will proceed to Factory Evaluation and Factory Sample Evaluation. However, tenderers shall note that a 100% score for Qualitative Technical Evaluation Criteria shall be required before contract award. This will require any pending information to be submitted during factory/factory sample evaluation for acceptance before contract award.

Note: It is advisable that any information/ documents submitted in electronic copies shall be submitted in hard copies; in an event that the electronic copies cannot be accessed.

The Technical Evaluation Criteria includes the following list of LV cable accessories:

- a) Cable joints,
- b) Cable terminations, cable ends and cable tubing,
- c) Lugs and ferrules, and
- d) Cable glands.

3.1.2 Factory Evaluation

The factory evaluations will only be performed on the submissions that have met all the Mandatory Technical Evaluation Criteria as stated in this document and have scored the minimum of 70% Qualitative Technical Evaluation Criteria. Eskom Commercial shall make the arrangements for Factory visits and ensure the technical representatives are invited on time.

At the factory; the Eskom evaluating representative(s) conducts the evaluation through the use of checklists. The checklists are used to verify factory capability and packaging method compliance to the type tested LV cable accessories offered.

The factory evaluation will be done at the South African Factory/ Site where the packaging of the LV cable accessories will be performed (as indicated by the Tenderer during Tender submission).

The following areas shall be assessed during the Factory Evaluation:

- a) Plant setup and machinery capabilities,
- b) Routine testing and testing facilities at the factory,
- c) Validity of calibration certificates for testing labs and machineries,
- d) Research, testing and design (RT&D): (department responsible for designs, design tools and etc),
- e) Ordering and receiving of goods (component) from OEM,
- f) Procedure for quality checks of received goods,
- g) Handling, packaging and storage of goods, and
- h) Procedure followed for ordering of goods to be delivered to the client.

Any non-conformances on the Factory Evaluation ((a) to (d) above) will have to be addressed before contract award if a tenderer is successful.

3.1.3 Factory Sample Evaluation

The factory sample evaluations will be the evaluation of the exact replica product; this means that an exact unit that would be supplied to Eskom shall be evaluated as a factory sample that was offered to Eskom during tender. The number of samples to be prepared by each Tenderer will be indicated by Eskom; where each tenderer will be required to prepare only one exact replica sample per product range type offered for factory sample evaluations. The factory sample evaluation shall be performed at the South African Factory/ Site where the packaging of the LV cable accessories will be performed (as indicated by the Tenderer during Tender submission).

Note: The Factory Evaluation and Factory Sample Evaluation shall be performed on the same date/s and at the same location as indicated by the Tenderer.

The following shall be assessed during Factory Sample Evaluation:

- a) Packaging and Marking (including Eskom SAP number) of the sample,
- b) Verification of components with type test reports,
- c) Verification of components with bill of material in each package, and
- d) Verification of installation instruction.

Failure to produce sample/s to be evaluated during factory sample evaluation shall lead to immediate disqualification.

Any non-conformances on the Factory sample Evaluation ((a) to (d) above) will have to be addressed before contract award if a tenderer is successful; provided a sample was prepared and submitted for the factory sample evaluation.

3.2 Technical Evaluation Criteria for LV Cable Joints**3.2.1 Mandatory Technical Evaluation Criteria for LV Cable Joints**

This evaluation section will cover all LV cable joints for all application i.e. single core, two core and four core joints, heat shrink joints or cast resin joints.

Table 1: Mandatory Technical Evaluation Criteria for LV cable Joints

Criteria	Clause	Acceptance: Yes/ No
Is a detailed covering letter containing a list of items offered submitted?	DDT 8014 and DDT 8031	
Is a written consent between the RSA cable accessory manufacturing company and the OEM submitted? Note: The letter of consent to indicate the name of the OEM, the items manufactured by the OEM and supplied to the RSA cable accessory manufacturer (kiting company).		
Is the manufacturing location and component description of each type tested component submitted? Note: Location for the OEM.		
Is the location of final assembly manufacturing location of the offered product submitted? Note: Final assembly (kiting) shall be done in RSA.		
Is a written guarantee stating that the accessories are suitable for cables that comply with SANS 1507-3 provided?		
Are the completed tests schedule summaries submitted electronically in the provided excel format?	NRS 074-2 Schedule A&B	
Are the completed technical schedules B electronically submitted in the provided excel format?	Schedule A&B	
Do the completed Technical Schedules A&B comply with Eskom requirements?	Schedule A&B	
Are Type testing requirements met in accordance with Eskom requirements? Or Submit a written consent indicating that additional type test shall be performed in accordance with BSEN 50393. The written consent to indicate that the: range of approval, number of samples and the correct sequence shall be followed in accordance with BSEN 50393. Furthermore there shall be an indication for the test date from the test laboratory. Note: the second option will be applicable if the existing type test reports from the manufacturers does not fully comply with BSEN 50393. The existing type test reports shall be submitted as part of tender submission.	BS EN 50393	
Is the torque shear lug or ferrule tested in accordance with SANS 61238-1?	SANS 61238-1	
Does the LV cable joint range taking comply with the requirements of DDT 8014 (for cast resin joints) or DDT 8031 (for heat shrink joints)?	DDT-8014 and DDT 8031	
Is at least one bill of material per product range offered submitted?	NRS 074-2 Clause 5.3.3	
Is a copy of the installation instruction per product range offered submitted?	NRS 074-2 Clause 5.3.2	

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Criteria	Clause	Acceptance: Yes/ No
Required for cables $\geq 150 \text{ mm}^2$: Has a screen short circuit type test report been submitted in accordance with BS EN 50393? Note: This clause will be waived for joints required for cables $< 150 \text{ mm}^2$.	NRS 074-2 and BS EN 50393	
For single core cable joints: $3 \times 70 \text{ mm}^2$ earth braids connections are required. Does the provided bill of material include $3 \times 70 \text{ mm}^2$ earth braids for single core cable joints? Note: This clause will be waived if tenderer did not offer single core cable joints.	240-56062542 Clause 4.	
For multiple core cable joints: thermal short-circuit (earth fault) test in accordance with clause 10 of SANS 61442 shall be performed at 10 kA for 1 s. Has the type test report for the 10 kA for 1s been submitted? Note: This clause will be waived if tenderer did not offer multiple core cable joints.	NRS 074-2 Clause 4.6	
Any one "NO" on the above scores the supplier will be disqualified. The Type testing should fully comply with the requirements of NRS 074-2 and BS EN 50393 or equivalent in order to obtain YES under testing requirements. The evaluation of the type test reports in accordance with equivalent standard shall be at the discretion of Eskom. The range of approval for type test report shall be applied in accordance with NRS 074-2 clause 4.6.		

3.2.2 Qualitative Technical Evaluation Criteria for LV cable Joints

The Qualitative Technical Evaluation Criteria shall only be performed on submission that have passed the Mandatory Technical Evaluation Criteria for LV Cable Joints (see table 1 above).

Table 2: Qualitative Technical Evaluation Criteria for LV cable Joints

Type testing Weight: 70 Total			
Criteria	Clause	Weight	Score
Were type tests performed in the last 10 years?	240-56030619 Clause 3.2.1	5	
Were the type tests performed in the correct sequence on correct number of samples as specified in BS EN 50393-2015 and NRS 074-2 followed during testing?	BS EN 50393-2015 and NR74-2	10	
Are the submitted type test reports compliant in accordance with BS EN 50393-2015 and SANS 61238-1? Note: Tenderers will get full weight for full compliance in all the required type test reports in accordance with BS EN 50393-2015, and will lose all weight for any none compliance on the submitted type test reports. Or To ensure full compliance in terms of range of approval and number of samples in accordance BS EN 50393: a test schedule from an accredited test laboratory shall be submitted as part of tender submission. The Test schedule shall indicate: <ul style="list-style-type: none"> the booked date of the test/s (not longer than 12 months from the date of tender submission), the location of the laboratory, the name of the laboratory, and the sequence of tests to be performed. 	BS EN 50393-2015, NRS 074-2 and SANS 61238-1	35	

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Note: The second option shall be applicable to those who have type tested in accordance with the range of approval as stated in NRS 074-2 and submitted a written consent indicating that additional type test shall be performed in accordance with BS EN 50393,			
For cable joints: thermal short-circuit (earth fault) test in accordance with clause 10 of SANS 61442 shall be performed at 10 kA for 1 s. Has the type test report for the 10 kA for 1s been submitted and compliant?	NRS 074-2 Clause 4.6	20	
Supplier will be marked negatively for Type testing performed more than 10 Years ago, supplier will lose 20 % for each additional year.	Total	/70	
Technical schedules Weight: 10			
Criteria	Clause	Weight	Score
Correctness of completion i.e. no “TBA, Comply, Noted, supplied later, noted, acceptable only when Eskom informs”	Technical schedules A & B	5	
No unsupported technical deviations on technical schedules.	Deviation schedules	5	
NB: The technical schedules A & B are provided in a separate excel sheets as part of the Tender Technical Documents. <ul style="list-style-type: none">A penalty of 25 % will be applicable for each incorrect completion.A penalty of 50 % will be applicable for each unsupported deviation from meeting Eskom specification. Tenderers to complete the deviation schedule for any deviation on technical schedule A&B.	Total	/10	
Installation instruction Weight: 20			
Criteria	Clause	Weight	Score
Is it supported by legible illustrations that clearly indicate the application and assembly of all components of the accessory?	NRS 074-2 5.3.2 (a)	3	
Does it reference the bill of materials by quoting the relevant part number at least once when describing the components?	NRS 074-2 5.3.2 (b)	3	
Does it indicate a date of issue and a revision number?	NRS 074-2 5.3.2 (c)	3	
Is it individually printed and not photo-copied?	NRS 074-2 5.3.2 (d)	3	
Installation instruction Weight: 20			
Criteria	Clause	Weight	Score
Does it indicate how, where and when the accessory identification tag shall be attached?	NRS 074-2 5.3.2 (e)	4	
Does it indicate the maximum length and diameter of the ferrule (s) that may be used with the joint?	NRS 074-2 5.3.2 (g)	4	
	Total	/20	
70% minimum required to proceed to Factory and Factory Sample Evaluation.	Grand Total	/100	

3.3 Technical Evaluation Criteria for LV Cable Terminations, Cable Ends and Tubing

This evaluation section will cover all LV cable termination, cable ends and tubing for all application i.e: single core, two core, and four core terminations for indoor and outdoor application.

3.3.1 Mandatory Technical Evaluation Criteria for LV Cable Terminations, Cable Ends and Tubing**Table 3: Mandatory Technical Evaluation Criteria for LV Cable Terminations, Cable Ends and Tubing**

Criteria	Clause	Acceptance: Yes/ No
Is a detailed covering letter containing a list of items offered submitted?	D-DT 3147, DDT 3148 & DDT 3138	
Is a written consent between the supplier and the OEM submitted? Note: the letter of consent to indicate the name of the OEM, the items manufactured by the OEM and supplied to the RSA cable accessory manufacturer (kiting company).		
Is the manufacturer manufacturing location and component description of each type tested component submitted? Note: Location for the OEM		
Is the location of final assembly manufacturing location of the offered product submitted? Note: Final assembly shall be done in RSA.		
Is a written guarantee stating that the accessories are suitable for cables that comply with SANS 1507-3 provided?		
Are the completed tests schedule summaries submitted electronically in the provided excel format?	NRS 074-2 Schedule A&B	
Are the completed technical schedules B electronically submitted in the provided excel format?	Schedule A&B	
Do the completed Technical Schedules A&B comply with Eskom requirements?	Schedule A&B	
Are Type testing requirements met in accordance with Eskom requirements? Or Submit a written consent indicating that additional type test shall be performed in accordance with BSEN 50393. The written consent to indicate that the: range of approval, number of samples and the correct sequence shall be followed in accordance with BSEN 50393. Furthermore there shall be an indication for the test date from the test laboratory. Note: the second option will be applicable if the existing type test reports from the manufacturers does not fully comply with BSEN 50393. The existing type test reports shall be submitted as part of tender submission.	BS EN 50393	
Is the torque shear lug or ferrule tested in accordance with SANS 61238-1? Note: This is not applicable to the cable end and the tubing.	SANS 61238-1	
Does the LV cable termination range taking comply with the requirements of DDT 3147, DDT 3148 and DDT 3138?	D-DT 3147, DDT 3148 & DDT 3138	
Is at least one bill of material per product range offered submitted?	NRS 074-2 Clause 5.3.3	
Is a copy of the installation instruction per product range offered submitted?	NRS 074-2 Clause 5.3.2	
Any one "NO" on the above scores the supplier will be disqualified. The Type testing should fully comply with the requirements of NRS 074-2 and BS EN 50393 or equivalent in order to obtain YES under testing requirements. The evaluation of the type test reports in accordance with equivalent standard shall be at the discretion of Eskom. The range of approval for type test report shall be applied in accordance with NRS 074-2 clause 4.6.		

3.3.2 Qualitative Technical Evaluation Criteria for LV cable Terminations, Cable Ends and Tubing

The Qualitative Technical Evaluation Criteria shall only be performed on submission that have passed the Mandatory Technical Evaluation Criteria for LV Cable terminations, cable ends and tubing (see table 3 above).

Table 4: Qualitative Technical Evaluation Criteria for LV cable Terminations, Cable Ends and Tubing Sets

Type testing Weight: 70 Total			
Criteria	Clause	Weight	Score
Were type tests performed in the last 10 years?	240-56030619 Clause 3.2.1	5	
Were the type tests performed in the correct sequence on correct number of samples as specified in BS EN 50393-2015 and NR74-2 followed during testing?	BS EN 50393-2015 and NR74-2	10	
Are the submitted type test reports compliant in accordance with BS EN 50393-2015 and SANS 61238-1? Note: Tenderers will get full weight for full compliance in all the required type test reports in accordance with BS EN 50393, and will lose all weight for any none compliance on the submitted type test reports. Or To ensure full compliance in terms of range of approval and number of samples in accordance BS EN 50393: a test schedule from an accredited test laboratory shall be submitted as part of tender submission. The Test schedule shall indicate: <ul style="list-style-type: none"> the booked date of the test/s (not longer than 12 months from the date of tender submission), the location of the laboratory, the name of the laboratory, and the sequence of tests to be performed. Note: The second option shall be applicable to those who have type tested in accordance with the range of approval as stated in NRS 074-2 and submitted a written consent indicating that additional type test shall be performed in accordance with BS EN 50393,	BS EN 50393-2015, NR74-2 and SANS 61238-1	35	
For cable terminations: thermal short-circuit (earth fault) test in accordance with clause 10 of SANS 61442:2006 shall be performed at 10 kA for 1 s. Has the type test report for the 10 kA for 1s been submitted and compliant?	NRS 074-2 Clause 4.6	20	
Supplier will be marked negatively for Type testing performed more than 10 Years ago, 20 % for each additional year.		Total	/70
Technical schedules Weight: 10			
Criteria	Clause	Weight	Score
Correctness of completion i.e. no "TBA, Comply, Noted, supplied later, noted, acceptable only when Eskom informs"	Technical schedules A & B	5	
No unsupported technical deviations on technical schedules.	Deviation schedules	5	

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Criteria	Clause	Weight	Score
NB: The technical schedules A & B are provided in a separate excel sheets as part of the Tender Technical Documents. <ul style="list-style-type: none"> A penalty of 25 % is applicable for each incorrect completion. A penalty of 50 % is applicable for each unsupported deviation from meeting Eskom specification. Tenderers to complete the deviation schedule for any deviation on technical schedule A&B. 	Total	/10	
Installation instruction Weight: 20			
Criteria	Clause	Weight	Score
Is it supported by legible illustrations that clearly indicate the application and assembly of all components of the accessory?	NRS 074-2 5.3.2 (a)	3	
Does it reference the bill of materials by quoting the relevant part number at least once when describing the components?	NRS 074-2 5.3.2 (b)	3	
Does it indicate a date of issue and a revision number?	NRS 074-2 5.3.2 (c)	3	
Is it individually printed and not photo-copied?	NRS 074-2 5.3.2 (d)	3	
Does it indicate how, where and when the accessory identification tag shall be attached?	NRS 074-2 5.3.2 (e)	3	
Does the installation instruction indicate how, where and when the accessory identification tag shall be attached?	NRS 074-2 5.3.2 (f)	3	
Does it indicate the maximum length and diameter of the ferrule (s) that may be used with the joint?	NRS 074-2 5.3.2 (g)	2	
	Total	/20	
70% minimum required to proceed to Factory and Factory Sample Evaluation.	Grand Total	/100	

3.4 Technical Evaluation Criteria for Lugs and Ferrules

This evaluation section will cover all Lugs and ferrules for all application

3.4.1 Mandatory Technical Evaluation Criteria for Lugs and ferrules**Table 5: Mandatory Technical Evaluation Criteria for Lugs and Ferrules**

Criteria	Clause	Acceptance: Yes/ No
Is a detailed covering letter containing a list of items offered submitted?	DDT 3102 and DDT 3076	
Is a written consent between the supplier and the OEM submitted? Note: the letter of consent to indicate the name of the OEM, the items manufactured by the OEM and supplied to the RSA cable accessory manufacturer (kiting company).		
Is the manufacturer manufacturing location and component description of each type tested component submitted? Note: Location for the OEM		
Is the location of final assembly manufacturing location of the offered product submitted? Note: Final assembly shall be done in RSA.		

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Criteria	Clause	Acceptance: Yes/ No
Is a written guarantee stating that the lugs and ferrules are suitable for cables that comply with SANS 1507-3 provided?	SANS 61238-1 and NRS 075	
Are the completed tests schedule summaries submitted electronically in the provided excel format?	SANS 61238-1, NRS 075 and Schedule A&B	
Are the completed technical schedules B electronically submitted in the provided excel format?	Schedule A&B	
Are Type testing requirements met in accordance with Eskom requirements?	SANS 61238-1 and NRS 075	
Has type testing been performed at an accredited Test facility?	SANS 61238-1 and NRS 075	
Does the Lug or Ferrule range taking comply with the requirements of DDT 3102 and DDT 3076?	DDT 3102 and DDT 3076	
Is at least one bill of material per product range offered submitted?	SANS 61238-1 and NRS 075	
Is a copy of the installation instruction per product range offered submitted?	SANS 61238-1 and NRS 075	
Do the completed Technical Schedules A&B comply with Eskom requirements?	Schedule A&B	
Any one "NO" on the above scores the supplier will be disqualified. The Type testing should fully comply with the requirements of SANS/ IEC 61238-1 and NRS 075 in order to obtain YES under testing requirements.		

3.4.2 Qualitative Technical evaluation criteria for Lugs and ferrules

Qualitative Technical Evaluation Criteria for Cable Lugs and ferrules for the documentation exercise will only be performed on submissions that were successful on the Mandatory Technical Evaluation Criteria of Lugs and ferrules.

Table 6: Qualitative Technical Evaluation Criteria for Lugs and Ferrules

Type testing Weight: 70 Total			
Criteria	Clause	Weight	Score
Were type tests performed in the last 10 years?	SANS 61238-1 and NRS 075	20	
Are the submitted type test reports compliant in accordance with SANS 61238-1 and NRS 075 followed during testing? Note: Tenderers will get full weight for full compliance in all the required type test reports in accordance with SANS 61238-1 and NRS 075 followed during testing, and will lose all weight for any none compliance on the submitted type test reports.	SANS 61238-1 and NRS 075	60	
Does the installation instruction comply with the documentation requirements as stated in clause 7 of NRS 075?	NRS 075	10	
Supplier will be marked negatively for Type testing performed more than 10 Years ago, 20 % for each additional year.		Total	/90

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Technical schedules Weight: 10			
Criteria	Clause	Weight	Score
Correctness of completion i.e. no "TBA, Comply, Noted, supplied later, noted, acceptable only when Eskom informs"	Technical schedules A & B	5	
No unsupported technical deviations on technical schedules.	Deviation schedules	5	
NB: The technical schedules A & B are provided in a separate excel sheets as part of the Tender Technical Documents. <ul style="list-style-type: none"> A penalty of 25 % is applicable for each incorrect completion. A penalty of 50 % is applicable for each unsupported deviation from meeting Eskom specification. Tenderers to complete the deviation schedule for any deviation on technical schedule A&B. 	Total	/10	
70% minimum required to proceed to Factory and Factory Sample Evaluation.	Grand Total	/100	

3.5 Technical Evaluation Criteria for Cable Glands

This evaluation section will cover all cable glands for all application.

3.5.1 Mandatory Technical Evaluation Criteria for Cable Glands

Table 7: Mandatory Technical Evaluation Criteria for Cable Glands

Criteria	Clause	Acceptance: Yes/ No
Is a detailed covering letter containing a list of items offered submitted?	DDT 3070	
Is a written consent between the supplier and the OEM submitted? Note: the letter of consent to indicate the name of the OEM, the items manufactured by the OEM and supplied to the RSA cable accessory manufacturer (kiting company).		
Is the manufacturer manufacturing location and component description of each type tested component submitted? Note: Location for the OEM		
Is the location of final assembly manufacturing location of the offered product submitted? Note: Final assembly shall be done in RSA.		
Is a written guarantee stating that the lugs and ferrules are suitable for cables that comply with SANS 1507-3 provided?	SANS 1213	
Are the completed tests schedule summaries submitted electronically in the provided excel format?	SANS 1213 and Schedule A&B	
Are the completed technical schedules B electronically submitted in the provided excel format?	Schedule A&B	
Are Type testing requirements met in accordance with Eskom requirements?	SANS 1213	
Has type testing been performed at an accredited Test facility?	SANS 1213	
Does the cable gland size designation and the cable range taking comply with the requirements of D-DT 3070?	DDT-3070	

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Criteria	Clause	Acceptance: Yes/ No
Do the completed Technical Schedules A&B comply with Eskom requirements?	Schedule A&B	
Any one "NO" on the above scores the supplier will be disqualified. The Type testing should fully comply with the requirements of SANS 1213 in order to obtain YES under testing requirements.		

3.5.2 Qualitative Technical evaluation criteria for cable glands

Qualitative Technical Evaluation Criteria for cable glands for the documentation exercise will only be performed on submissions that were successful on the Mandatory Technical Evaluation Criteria of cable glands.

Table 8: Qualitative Technical Evaluation Criteria for Cable Glands

Type testing Weight: 70 Total			
Criteria	Clause	Weight	Score
Were type tests performed in the last 10 years?	SANS 1213	20	
Are the submitted type test reports compliant in accordance with SANS 1213? Note: Tenderers will get full weight for full compliance in all the required type test reports in accordance with SANS 1213, and the sequence followed during testing? Tenderer will lose all weight for any none compliance on the submitted type test reports.	SANS 1213	60	
Does the documentation comply with the documentation requirements as stated in clause 7.2 of SANS 1213?	SANS 1213	10	
Supplier will be marked negatively for Type testing performed more than 10 Years ago, 20 % for each additional year.		Total	/90
Technical schedules Weight: 10			
Criteria	Clause	Weight	Score
Correctness of completion i.e. no "TBA, Comply, Noted, supplied later, noted, acceptable only when Eskom informs"	Technical schedules A & B	5	
No unsupported technical deviations on technical schedules.	Deviation schedules	5	
Criteria	Clause	Weight	Score
NB: The technical schedules A & B are provided in a separate excel sheets as part of the Tender Technical Documents. <ul style="list-style-type: none"> A penalty of 25 % is applicable for each incorrect completion. A penalty of 50 % is applicable for each unsupported deviation from meeting Eskom specification. Tenderers to complete the deviation schedule for any deviation on technical schedule A&B. 	Total	/10	
70% minimum required to proceed to Factory and Factory Sample Evaluation.	Grand Total	/100	

3.6 Conclusion

This document is effective to state the technical evaluation criteria for LV cable accessories to be used in Eskom Distribution networks. Eskom reserves the right to perform evaluation of type test reports performed on other test standards not specified in this document (where applicable).

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4. Authorization

This document has been seen and accepted by:

Name and surname	Designation
Alex Ndlela	Senior Manager: Dx Ops Support - HV Plant
Modisana Letsaba	Commodity Manager: Commercial

5. Revisions

Date	Rev	Compiler	Remarks
March 2021	2	Queeneth Khumalo	Option for allowance to perform type testing for LV cable joints and terminations before contract award.
Feb 2021	1	Queeneth Khumalo	New document.

6. Development team

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

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7. Acknowledgements

Not applicable.