

Title: **TECHNICAL EVALUATION
CRITERIA FOR HIGH VOLTAGE
CABLE ACCESSORIES**

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1. Introduction

This document has been developed to set the standard technical evaluation criteria to be used when performing Eskom National Contracts and Adhoc Technical evaluation for High Voltage Cable accessories. This Technical Evaluation Criteria covers HV cable accessories for: XLPE, PILC, and oil-filled cables. The voltages covered in this document are 44 kV up to 132 kV. This document contains the technical evaluation criteria used for the documentation evaluation and sample evaluation.

2. Supporting clauses

2.1 Scope

The document covers the criteria for the evaluation of HV cable accessories for XLPE, PILC and oil-filled cables within Eskom Holdings SOC (Ltd).

2.1.1 Purpose

The document addresses the standard documented technical evaluation criteria to be used when evaluating the tender submissions for the HV cable accessories in line with the Eskom Holdings SOC (Ltd) requirements and it is applicable to all the technical evaluations for the related tender submissions.

2.1.2 Applicability

This document shall apply for Eskom Holdings Limited, Distribution division
Where in Eskom has a controlling interest. This document shall also be applicable to any nominated subcontractors as 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 National document(s)

- [1] NRS 077: XLPE-insulated cables and accessories for systems with nominal voltages of 44 kV, 66 kV, 88 kV and 132 kV
- [2] SANS 62271-209: High-voltage switchgear and control gear Part 209: Cable connections for gas-insulated metal-enclosed switchgear for rated voltages above 52 kV - Fluid-filled and extruded insulation cables - Fluid-filled and dry-type cable-terminations
- [3] SANS 60840: Power cables with extruded insulation and their accessories for rated voltages above 30 kV ($U_m = 36$ kV) up to 150 kV ($U_m = 170$ kV) - Test methods and requirements
- [4] SANS 60141-1: Tests on oil-filled and gas-pressure cables and their accessories - Part 1: Oil-filled, paper or polypropylene paper laminate insulated, metal-sheathed cables and accessories for alternating voltages up to and including 500 kV

2.2.2 Eskom document(s)

- [1] 240-56030625: Specification for XLPE-insulated power cables and accessories for systems with nominal voltages of 44 kV to 132 kV
- [2] 240-56030399: Specification for oil-filled power cables and accessories for systems with nominal voltages of 44 kV to 132 kV
- [3] 240-56030640: General Information and requirements for high-voltage cable systems and requirements for high-voltage cable systems.

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- [4] D-DT-2872: Term kit / sealing end HV 1 core paper insulated / oil filled; Term kit HV 1 core XLPE
- [5] D-DT-2874: Box, link disconnecting.
- [6] D-DT-8071: Joint kit HV 1c Al/Cu XLPE str/sh. inter; Joint kit 44 kV Al I core XLPE
- [7] D-DT-8072: Termination kit 1C AL / SF6 XLPE; Termination kit 1C AL XLPE; Plug-in Termination kit 1C AL XLPE;
- [8] D-DT-8074: Link disconnection box + earth manhole/kiosk.
- [9] D-DT-8075: Bonding lead XLPE

2.2.3 Informative

- [1] 32-9: Definition of Eskom documents.
- [2] 32-644: Eskom documentation management standard.
- [3] 474-65: Operating manual of the Steering Committee of Technologies (SCOT).

2.3 Definitions

2.3.1 General

Definitions listed in 240-56030625, 240-56030399, 240-56030640 and the one below shall apply.

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.

2.3.2 Disclosure classification

Confidential

2.4 Abbreviations

Abbreviations listed in 240-56030625, 240-56030399, 240-56030640 shall apply.

2.5 Roles and responsibilities

All Eskom employees and/or appointed bodies involved in the procurement of High Voltage Cable accessories shall ensure that the product deliverable meets the requirements of these technical evaluation criteria. Any deviation from these requirements shall constitute non-conformance, unless it was in advance agreed to by a delegated Cable Systems Specialist and is based on sound engineering judgement.

All suppliers of the High Voltage Cable accessories to Eskom must be conversant with the requirements of this standard, and shall comply with the requirements. No deviations will be accepted and 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

The High Voltage Cable accessories acceptance shall be based on fully compliant submission of documents, the factory testing of the accessories, and proving manufacturing capability and capacity during factory evaluations.

2.7 Related/supporting documents

Refer to clause/ section 2.2.

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3. Requirements

This document contains the technical evaluation criteria for HV cable accessories for: XLPE, PILC and oil-filled cables. The technical evaluation criteria are specific to each of the cable equipment types evaluated. The evaluation methodology will include two stages, namely the documentation evaluation and sample evaluations.

3.1 Technical Evaluation

The technical 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. The submitted documents will be evaluated against the evaluation criteria as stated in clause 3.4.1 to clause 3.4.8.

During the technical evaluation fully compliant tested HV cable accessories for XLPE, PILC and oil-filled cables in accordance with NRS 077, SANS 62271-209, 240-56030625 and 240-56030399 shall be required. Failure to submit and comply with the type test requirements specified in these documents will lead to immediate disqualification.

The technical evaluation will be performed by conducting a documentation evaluation exercise and sample evaluation. The documentation evaluations are meant for establishing if all the key tender deliverables are met with regard to the HV cable accessories offered.

Only 95% score achieved at documentation evaluation exercise equates to full compliance; thus will proceed to sample evaluation when necessary. A pre-delivery inspection will be conducted at the supplier's premises for all the suppliers that have become successful in the evaluation. Any score below 95% will result to immediate disqualification.

Sample Evaluation

The sample evaluations will be the evaluation of the exact replica product that is offered to Eskom during tender. A product range sample quantity allowance will be made by Eskom whereby each tenderer is required to prepare only one exact replica sample per product range type offered for sample evaluations. The sample evaluation shall be performed at the respective supplier's premises in RSA.

3.1.1 HV Cable Joints Product Range

- Single core cable joints,
- Three core cable joints,
- Transition cable joints and
- Trifurcating cable joints,

3.1.2 HV Cable Terminations Product Range

The following are the different HV cable termination product range used by Eskom:

- Outdoor termination design,
- GIS/GIL cable terminations, and
- Transformer cable terminations.

3.1.3 HV Cable Ancillary Equipment

- Link box disconnecter (manhole and kiosk types), and
- Bonding leads.

3.2 Technical Evaluation Criteria for HV Cable Accessories**3.2.1 Technical Evaluation Criteria for HV XLPE Cable Joints:**

Technical evaluation criteria for HV XLPE cable joint kits			
TASK / MEASURE			
Criteria	Clause	Weighting	Score
Is a detailed covering letter containing a list of items offered submitted?	Buyer's guides	5	
Is a full list, as well as the complete English copies of all type test reports as per all the Eskom and normative referenced specification requirements submitted for the cable joints offered?	GOU SI SM02_02/2019	10	
Are the completed technical schedules B in the provided Excel submitted in a signed printed pdf format for the item offered?	Technical Schedules A and B	5	
Are the cable joints designed in accordance with and comply with requirements of 240-56030625, NRS 077, D-DT-8071 and D-DT-2871?	240-56030625 NRS 077 clause 4.4 D-DT-8071 D-DT-2871	10	
Is the cable joint fully assembled manufacturer's construction and dimensional drawing submitted?	GOU SI SM02_02/2019	10	
Does the drawing include the drawing number, revision number, detailed description, approved date, cable accessory layers and a legend?	GOU SI SM02_02/2019	5	
Are the cable joint installation instructions submitted?	D-DT-8071 D-DT-2871	10	
Is the cable joint tested in accordance with SANS 60840?	240-56030625 clause 1	10	
Do minimum test voltages comply with requirements in SANS 60840?	SANS 60840 clause 15.2	5	
Do the type test results in the test report prove compliance of the sample tested?	GOU SI SM02_02/2019	10	
Is the packaging and marking of the HV XLPE cable joint according to Eskom requirements?	240-56030625 clause 4	5	
Has type testing been performed at an accredited Test facility? NRS 077 clause A.5 10	GOU SI SM02_02/2019	5	
Are the cable joint kits individually packed in wooden crates suitable for storage over long periods?	D-DT-8071	5	
Are drawings or a catalogue showing the different ranges of accessories submitted? Drawings/catalogue to be printed in colour.	GOU SI SM02_02/2019	5	
Notes: Supplier will lose marks for each deviation from Eskom specification			

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Technical evaluation criteria for HV XLPE cable joint kits			
TASK / MEASURE			
Criteria	Clause	Weighting	Score
TOTAL		/100	

3.2.2 Technical Evaluation Criteria for HV Oil-filled Cable Joints:

Technical evaluation criteria for HV Paper insulated and Oil-filled cable joint kits (1C, 3C, transition and trifurcating)			
TASK / MEASURE			
Criteria	Clause	Weighting	Score
Is a detailed covering letter containing a list of items offered submitted?	Buyer's guides	5	
Is a full list, as well as the complete English copies of all type test reports as per all the Eskom and normative referenced specification requirements submitted for the cable joints offered?	GOU SI SM02_02/2019	10	
Are the completed technical schedules B in the provided excel submitted in a signed printed pdf format for the item offered?	Technical Schedules A and B	10	
Are the cable joints designed in accordance with and comply with requirements of 240-56030399, NRS 077 (where indicated) and D-DT-2871?	240-56030399 clause 4 NRS 077 D-DT-2871	5	
Is the cable joint fully assembled manufacturer's construction and dimensional drawing submitted (straight through and/or transition and/or trifurcating joints)?	GOU SI SM02_02/2019	10	
Does the drawing include the drawing number, revision number, detailed description, approved date, cable accessory layers and a legend?	GOU SI SM02_02/2019	5	
Are the cable joint installation instructions submitted?	D-DT-2871	10	
In case of a trifurcating transition joint, is the splitter box drawing supplied?	240-56030399 clause 4.4.2	5	
Is the cable joint tested in accordance with IEC 60141-1?	240-56030399 clause 5	5	
Do minimum test voltages comply with requirements in IEC 60141-1?	IEC 60141-1	5	
Do the type test results in the test report prove compliance of the sample tested?	GOU SI SM02_02/2019	5	
Is the packaging and marking of the HV XLPE cable joint according to Eskom requirements?	240-56030399 clause 6.1	5	

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Technical evaluation criteria for HV Paper insulated and Oil-filled cable joint kits (1C, 3C, transition and trifurcating)			
TASK / MEASURE			
Criteria	Clause	Weighting	Score
Are the cable joint kits individually packed in wooden crates suitable for storage over long periods?	D-DT-2871	5	
Has type testing been performed at an accredited Test facility?	NRS 077 clause A.5	10	
Are drawings or a catalogue showing the different ranges of accessories submitted? Drawings/ catalogue to be printed in colour.	GOU SI SM02_02/2019	5	
Notes: Supplier will lose marks for each deviation from Eskom specification			
TOTAL		/100	

3.2.3 Technical Evaluation Criteria for HV PILC Cable Joints:

Technical evaluation criteria for HV PILC cable joint kits			
TASK / MEASURE			
Criteria	Clause	Weighting	Score
Is a detailed covering letter containing a list of items offered submitted?	Buyer's guides	5	
Is a full list, as well as the complete English copies of all type test reports as per all the Eskom and normative referenced specification requirements submitted for the cable joints offered?	GOU SI SM02_02/2019	10	
Are the completed technical schedules B in the provided excel submitted in a signed printed pdf format for the item offered?	Technical Schedules A and B	5	
Are the cable joints designed in accordance with and comply with requirements of 240-56030399, NRS 077 and D-DT-2871?	240-56030399 clause 4 NRS 077 D-DT-2871	10	
Is the cable joint fully assembled manufacturer's construction and dimensional drawing submitted?	GOU SI SM02_02/2019	10	
Does the drawing include the drawing number, revision number, detailed description, approved date, cable accessory layers and a legend?	GOU SI SM02_02/2019	5	
Are the cable joint installation instructions submitted?	D-DT-2871	10	
Is the cable joint tested in accordance with IEC 60141-1?	240-56030399 clause 5	10	
Do minimum test voltages comply with requirements in IEC 60141-1??	GOU SI SM02_02/2019	5	

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Technical evaluation criteria for HV PILC cable joint kits			
TASK / MEASURE			
Criteria	Clause	Weighting	Score
Do the type test results in the test report prove compliance of the sample tested?	GOU SI SM02_02/2019	5	
Has type testing been performed at an accredited Test facility?	NRS 077 clause A.5	10	
Is the packaging and marking of the HV XLPE cable joint according to Eskom requirements?	240-56030399 clause 6.1	5	
Are the cable joint kits individually packed in wooden crates suitable for storage over long periods?	D-DT-8071	5	
Are drawings or a catalogue showing the different ranges of accessories submitted? Drawings/ catalogue to be printed in colour.	GOU SI SM02_02/2019	5	
Notes: Supplier will lose marks for each deviation from Eskom specification			
TOTAL		/100	

3.2.4 Technical Evaluation Criteria for HV Cable Terminations:

Technical evaluation criteria for HV XLPE and PILC cable termination			
TASK / MEASURE			
Criteria	Clause	Weighting	Score
Is a detailed covering letter containing a list of items offered submitted?	Buyer's guides	5	
Is a full list, as well as the complete English copies of all type test reports as per all the Eskom and normative referenced specification requirements submitted for the items offered?	GOU SI SM02_02/2019	10	
Are the completed technical schedules B in the provided Excel submitted in a signed printed pdf format for the item offered?	Technical Schedules A and B	10	
Are the HV XLPE cable terminations designed in accordance with and comply with requirements of 240-56030625, NRS 077, D-DT-8072 and D2872?	240-56030625 NRS 077 D-DT-8072 D-DT-2872	5	
Are the HV XLPE and PILC cable termination manufacturer's constructional and dimensional drawings submitted?	GOU SI SM02_02/2019	10	
Does the drawing include the drawing number, revision number, detailed description, approved date, cable accessory layers and a legend?	GOU SI SM02_02/2019	5	
Are the HV cable terminations installation instructions submitted?	D-DT-8072	10	

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Technical evaluation criteria for HV XLPE and PILC cable termination			
TASK / MEASURE			
Criteria	Clause	Weighting	Score
	D-DT-2872		
Have the HV XLPE cable terminations tested in accordance with SANS 60840?	240-56030625 clause 1	10	
Do minimum test voltages comply with requirements in SANS 60840?	SANS 60840	5	
Do the type test results in the test report prove compliance of the sample tested?	GOU SI SM02_02/2019	5	
Has type testing been performed at an accredited Test facility where applicable?	NRS 077 clause A.5	10	
Is the packaging and marking of the HV outdoor cable terminations according to Eskom requirements?	240-56030625 clause 4	5	
Are the HV XLPE cable terminations individually packed in wooden crates suitable for storage over long periods?	D-DT-8072 D-DT-2872	5	
Are drawings or a catalogue showing the different ranges of accessories submitted? Drawings/ catalogue to be printed in colour.	GOU SI SM02_02/2019	5	
Notes: Supplier will lose marks for each deviation from Eskom specification			
TOTAL		/100	

3.2.5 Technical Evaluation Criteria for HV GIS/GIL and Transformer Cable Terminations:

Technical evaluation criteria for HV GIS/GIL and Transformer cable terminations			
TASK / MEASURE			
Criteria	Clause	Weighting	Score
Is a detailed covering letter containing a list of items offered submitted?	Buyer's guides	5	
Is a full list, as well as the complete English copies of all type test reports as per all the Eskom and normative referenced specification requirements submitted for the HV GIS/GIL and Transformer cable terminations offered?	GOU SI SM02_02/2019	5	
Are the completed technical schedules B in the provided Excel submitted in a signed printed pdf format for the item offered?	Technical Schedules A and B	10	
Are the HV GIS/GIL and Transformer cable terminations designed in accordance with and comply with requirements of 240-56030625,	240-56030625 NRS 077	5	

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Technical evaluation criteria for HV GIS/GIL and Transformer cable terminations			
TASK / MEASURE			
Criteria	Clause	Weighting	Score
NRS 077, and SANS 62271-209?	SANS 62271-209 D-DT-8072 D-DT-2872		
Does the environmental sealing for GIS/GIL cable terminations include heat shrink tubes fitted up to and onto the insulated metal base plate	240-56030640 clause 3.16 d)	10	
Are the HV GIS/GIL and Transformer cable terminations manufacturer's construction and dimensional drawing submitted?	GOU SI SM02_02/2019	10	
Does the drawing include the drawing number, revision number, detailed description, approved date, cable accessory layers and a legend?	GOU SI SM02_02/2019	5	
Are the HV GIS/GIL and Transformer cable terminations installation instructions submitted?	D-DT-8072 D-DT-2872	5	
Have the HV GIS/GIL and Transformer cable termination tested in accordance with SANS 60840?	240-56030625 clause 1	10	
Do minimum test voltages comply with requirements in SANS 60840?	SANS 60840	5	
Do the type test results in the test report prove compliance of the sample tested?	GOU SI SM02_02/2019	10	
Is the packaging and marking of the HV GIS/GIL and Transformer cable terminations according to Eskom requirements?	240-56030625 clause 4	2.5	
Has type testing been performed at an accredited Test facility where applicable?	NRS 077 clause A.5	10	
Are the HV GIS/GIL and Transformer cable terminations individually packed in wooden crates suitable for storage over long periods?	D-DT-8072 D-DT-2872	5	
Are drawings or a catalogue showing the different ranges of accessories submitted? Drawings/ catalogue to be printed in colour.	GOU SI SM02_02/2019	2.5	
Notes: Supplier will lose marks for each deviation from Eskom specification			
TOTAL		/100	

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3.2.6 Technical Evaluation Criteria for Sealing Ends for Oil-filled cables:

Technical evaluation criteria for Sealing Ends for Oil-filled cables			
TASK / MEASURE			
Criteria	Clause	Weighting	Score
Is a detailed covering letter containing a list of items offered submitted?	Buyer's guides	5	
Is a full list, as well as the complete English copies of all type test reports as per all the Eskom and normative referenced specification requirements submitted for the sealing ends offered?	GOU SI SM02_02/2019	10	
Are the completed technical schedules B in the provided Excel submitted in a signed printed pdf format for the item offered?	Technical Schedules A and B	10	
Are the sealing ends designed in accordance with and comply with requirements of 240-56030399, NRS 077 (where indicated) and D-DT-2872?	240-56030399 clause 4.4.4 NRS 077 clause 4.4.2 D-DT-2872	10	
Is the sealing end manufacturer's construction and dimensional drawing submitted?	GOU SI SM02_02/2019	10	
Does the drawing include the drawing number, revision number, detailed description, approved date, cable accessory layers and a legend?	GOU SI SM02_02/2019	5	
Are the sealing ends installation instructions submitted?	D-DT-2872	10	
Is the sealing end tested in accordance with IEC 60141-1?	240-56030399 clause 5	10	
Do minimum test voltages comply with requirements in IEC 60141-1?	IEC 60141-1	5	
Do the type test results in the test report prove compliance of the sample tested?	GOU SI SM02_02/2019	5	
Is the packaging and marking of the sealing ends according to Eskom requirements?	240-56030399 clause 6.1	5	
Has type testing been performed at an accredited Test facility where applicable?	NRS 077 clause A.5	5	
Are the sealing ends individually packed in wooden crates suitable for storage over long periods?	D-DT-2872	5	
Are drawings or a catalogue showing the different ranges of accessories submitted? Drawings/ catalogue to be printed in colour.	GOU SI SM02_02/2019	5	
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Technical evaluation criteria for Sealing Ends for Oil-filled cables			
TASK / MEASURE			
Criteria	Clause	Weighting	Score
TOTAL		/100	

3.2.7 Technical Evaluation Criteria for Link Disconnecting Boxes:

Technical evaluation criteria for Link Disconnecting Boxes			
TASK / MEASURE			
Criteria	Clause	Weighting	Score
Is a detailed covering letter containing a list of items offered submitted?	Buyer's guides	5	
Is a full list, as well as the complete English copies of all type test reports as per all the Eskom and normative referenced specification requirements submitted for the link disconnecting boxes offered?	GOU SI SM02_02/2019	10	
Are the completed technical schedules B in the provided Excel submitted in a signed printed pdf format for the item offered?	Technical Schedules A and B	10	
Are the link disconnecting boxes manufactured with stainless steel and have colour G29 in accordance with SANS 1091?	240-56030625 clause 2.2.4.3	10	
Are the link disconnecting boxes of the kiosk and/or manhole type?	240-56030640 clause 3.29 b) (general HV standard- put as normative ref)	10	
Is the link disconnecting boxes manufacturer's construction and dimensional drawing submitted?	GOU SI SM02_02/2019	10	
Does the drawing include the drawing number, revision number, detailed description, approved date and a legend?	GOU SI SM02_02/2019	10	
Are the link disconnecting box tested in accordance with SANS 60840?	240-56030625 clause 1	10	
Do the test results in the test report prove compliance of the sample tested?	GOU SI SM02_02/2019	10	
Has type been performed at an accredited Test facility where applicable?	NRS 077 clause A.5	10	
Are drawings or a catalogue showing the different ranges of accessories submitted? Drawings/ catalogue to be printed in colour.	GOU SI SM02_02/2019	5	
Notes: Supplier will lose marks for each deviation from Eskom specification			
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3.2.8 Technical Evaluation Criteria for Bonding and Earth Leads:

Technical evaluation criteria for bonding and earth leads			
TASK / MEASURE			
Criteria	Clause	Weighting	Score
Is a detailed covering letter containing a list of items offered submitted?	Buyer's guides	5	
Is a full list, as well as the complete English copies of all type test reports as per all the Eskom and normative referenced specification requirements submitted for the bonding and earth leads offered?	GOU SI SM02_02/2019	10	
Are the completed technical schedules B in the provided Excel submitted in a signed printed pdf format for the item offered?	Technical Schedules A and B	10	
Are the bonding and earth leads designed in accordance with and comply with requirements of 240-56030625, NRS 077 and D-DT-8075?	240-56030625 NRS 077 clause 4.4.5 D-DT-8075	10	
Do the insulation requirements comply with those stipulated in SANS 60840:2006?	NRS 077 clause 4.4.5	10	
Are the bonding and earth leads manufacturer's construction and dimensional drawings submitted?	GOU SI SM02_02/2019	10	
Does the drawing include the drawing number, revision number, detailed description, approved date, all layers and a legend?	GOU SI SM02_02/2019	5	
Are the bonding and earth leads tested in accordance with SANS 60840?	240-56030625 clause 1	10	
Do minimum test voltages comply with requirements in SANS 60840?	SANS 60840	10	
Do the test results in the test report prove compliance of the sample tested?	GOU SI SM02_02/2019	5	
Has type been performed at an accredited Test facility where applicable?	NRS 077 clause A.5	10	
Are drawings or a catalogue showing the different ranges of accessories submitted? Drawings/ catalogue to be printed in colour.	GOU SI SM02_02/2019	5	
Notes: Supplier will lose marks for each deviation from Eskom specification			
TOTAL		/100	

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3.3 Conclusion

This report is effective to specify the technical evaluation criteria for HV cable accessories to be used in Eskom Gauteng Operating Unit. The HV cable accessories suppliers are to complete technical schedule B in accordance with 240-56030625, 240-56030399, NRS 077 and SANS 62271-209 as part of the tender deliverables.

The technical evaluation criteria for this project are specified in clause 3.4.1 to clause 3.4.8 of this document.

4. Authorization

This document has been seen and accepted by:

Name and surname	Designation
Stephen Nkwane	Manager: SI GOU
Bev Proctor-Golding	Manager: Procurement

5. Revisions

Date	Rev.	Compiler	Remarks
Nov 2018	1	S. Mtshaulana & K Senosi	New document

6. Development team

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

- Kagiso Senosi: Senior Technologist SI-GOU, Group Technology
- Sandisiwe Mtshaulana: Engineer SI-GOU, Group Technology

7. Acknowledgements

Not applicable.