

Technical Evaluation Criteria

Desktop evaluation

The Eskom assessment representative will go through the details of the returnable submissions that are required and will ensure that Level 1 qualification criteria are met.

Submissions that pass Level 1 will be allocated 90 points within the framework of the Eskom scoring mechanism.

Submissions that obtain a NO for **any** of the level 1 criteria will be scored 0 out of 90. Scoring in Level 2 consists of discretionary criteria and will be assessed out of 10 points.

Thus, the full score attainable will be 100 points if all criteria are met in levels 1 and 2.

1. The technical **Schedule A&B _ 22 kV Distribution Class Surge Arresters.xls** is a Microsoft Excel document consisting of the following sheets:
 - o Item4 22kV Coastal SA
 - o Type Test Report
 - o Deviation Schedule
2. The document is in electronic format and must be completed using a computer and converted to Pdf format when submitted to avoid unclear handwritings and the possibility of the information being tampered with.
3. The technical **Schedule A&B _ 22 kV Distribution Class Surge Arresters.xls** must be submitted in both Excel and Pdf formats respectively.

The **minimum** threshold for tenderers to qualify in the desktop evaluation is **90 points**.

Specification Referred to **240-56062768: DISTRIBUTION CLASS METAL OXIDE SURGE ARRESTERS WITHOUT SPARK GAPS SPECIFICATION.**

Level-1 Basic Compliance: Tender Deliverables and Mandatory Technical Requirements Weight – 90 points

1. Tender Deliverables

Activity	Compliance		Qualification Criteria
1.1.1 Is completed Technical Schedule B submitted in Excel/PDF format?	Yes/No		Level 1
1.1.2 Is the Type Test Report summary sheet completed and submitted together with all the required test reports and other requested information?	Yes/No		Level 1
1.1.3 Have the outlines and characteristic curves been submitted?	Yes/No		Level 1
1.1.4 Is the Deviations form submitted?	Yes/No		Level 1
Clause 4.1.3: Is all required information submitted in English?	Yes/No		Level 1
Clause 4.1.1: Has evidence supporting that all required type testing has been performed at an accredited test facility been submitted?	Yes/No		Level 1

2. SA Functional Requirements

Activity	Compliance		Qualification Criteria
Clause 3.3: Electrical characteristics meet requirement for specific voltage level	Yes/No		Level 1
Clause 3.4: Arrester housing meet requirements	Yes/No		Level 1
Clause 3.5: Mounting arrangement meet requirements	Yes/No		Level 1
Clause 3.6: Terminal arrangement meet requirements	Yes/No		Level 1

3. Type Test Requirements: All tests shall be conducted in accordance with IEC60099 and passed

Activity	Compliance		Qualification Criteria
Clause 4.2.1: Insulation withstand testing	Yes/No		Level 1
Clause 4.2.2: Insulation withstand test on insulated mounting bracket	Yes/No		Level 1
Clause 4.2.3: Residual voltage test	Yes/No		Level 1
Clause 4.2.4: Long duration current impulse withstand test	Yes/No		Level 1
Clause 4.2.5: Operating duty test	Yes/No		Level 1
Clause 4.2.6: Power frequency voltage versus time characteristic	Yes/No		Level 1
Clause 4.2.7: Short-circuit tests	Yes/No		Level 1
Clause 4.2.8: Internal partial discharge test	Yes/No		Level 1
Clause 4.2.9: Water immersion test	Yes/No		Level 1
Clause 4.2.10: Weather ageing and pollution performance test	Yes/No		Level 1
Clause 4.2.11.1: GLD long duration current impulse withstand test	Yes/No		Level 1
Clause 4.2.11.2: GLD time versus current curve test	Yes/No		Level 1
Clause 4.2.11.3: GLD operating duty test	Yes/No		Level 1
Clause 4.2.11.4: GLD high lightning duty current impulse withstand test	Yes/No		Level 1
Clause 4.2.11.5: GLD repetitive surge withstand ability test	Yes/No		Level 1
Clause 4.2.11.6 GLD water immersion test	Yes/No		Level 1
Clause 4.2.11.7: GLD mechanical test	Yes/No		Level 1

Level-2 Scoring Criteria Weight – 10 points				
Activity	Clause in 240-56062768	Weight	Score	
Packaging, Transport and Storage information	5.2	5	0 – Minimal Information (Below level of detail requested in [2]) 3 – Acceptable Information (Meeting level of detail requested in [2]) 5 – Detailed Information (Exceeding level of detail requested in [2])	
Installation and assembly information	5.2	5	0 – Minimal Information (Below level of detail requested in [2]) 3 – Acceptable Information (Meeting level of detail requested in [2]) 5 – Detailed Information (Exceeding level of detail requested in [2])	