Eskom	Strategy	Arnot Power Station

Title: **Tender Technical Evaluation Strategy for Arnot New MV Switchgear Replacement project**

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Compiled by	Supported by	Functional Responsibility	Authorised by
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System Engineer	**Snr Engineer**	**Electrical Engineer Manager**	Engineering Manager
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TABLES

1. INTRODUCTION

The medium voltage switchgear at Arnot Power Station has exceeded its end-of-life and is no longer supported by the original equipment manufacturer (OEM). The switchgear currently has unreliable protection systems, and there have been previous incidents of explosions that caused equipment damage, making it unsafe to operate or maintain these boards.

The switchgear was installed during the original commissioning of Arnot Power Station, at a time when compliance with internal arc protection requirements was not mandatory. As a result, the existing switchgear is now non-compliant with current internal arc standards. Furthermore, the switchgear lacks arc protection features and cannot contain an arc fault within a single compartment. When arcing occurs, it propagates to adjacent panels or boards, increasing the risk of catastrophic failure.

In addition, the switchgear is difficult to maintain due to obsolescence and the unavailability of spare parts, further compromising reliability and safety.

The above assessment has led Arnot Power Station to initiate the replacement of the outside plant switchgear to address all identified concerns. The replacement project will eliminate obsolescence issues, improve reliability, and ensure a safe and stable electrical supply. Furthermore, the new switchgear will comply with internal arc protection standards, incorporate advanced arc mitigation systems, and align with current regulatory and safety requirements.

The scope of the project includes decommissioning and removal of the installed MV switchgear, battery chargers, batteries, associated power and control cables, and existing extraction fans. All removed equipment will be relocated to dedicated areas in accordance with site requirements. The project further entails the design and manufacturing of new MV switchgear, factory acceptance testing (FAT), supply and delivery to site, offloading, positioning, installation in the outside plant MV switchgear rooms at Arnot Power Station, site acceptance testing (SAT), commissioning, and final handover to the station.

2. SUPPORTING CLAUSES

2.1 SCOPE

This document refers to the Arnot Power Station Outside Plant New MV Switchgear Replacement Project and covers the different aspects that will be evaluated and scored by the multi-disciplinary Technical Evaluation Team (TET) to complete the technical evaluation of the enquiry. The team members are listed and appointed in this document along with their responsibilities. The document also describes the acceptable and unacceptable risks and qualifications and/or conditions.

The Technical Evaluation Strategy will define the following technical evaluation criteria:

- Mandatory Evaluation Criteria
- Qualitative Evaluation Criteria
- TET Member Responsibilities
- Acceptable / Unacceptable Qualifications

Once the Technical Evaluation Strategy is authorised no changes will be made to the evaluation criteria.

2.1.1 Purpose

The purpose of this tender technical evaluation strategy is to define the Mandatory Evaluation Criteria, Qualitative Evaluation Criteria and TET member responsibilities for tender technical evaluation. The technical evaluation strategy serves as basis for the tender technical evaluation process.

2.1.2 Applicability

This document applies to the Arnot Power Station New MV Switchgear Replacement Project and is applicable to Eskom Generation and Commercial.

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] 240-168966153: Generation Tender Technical Evaluation Procedure

[2] 32-1034: Eskom Procurement Policy

2.2.2 Informative

[3] Works Information/Technical Specification for the Arnot New MV Switchgear Replacement Project.

2.3 DEFINITIONS

N/A

2.3.1 Classification

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

2.4 ABBREVIATIONS

Abbreviation	Description
OEM	Original Equipment Manufacture.
MV	Medium Voltage.
FAT	Factory Acceptance Testing.
IEC	International Electrotechnical Commission

Abbreviation	Description
SAT	Site Acceptance Testing
STL	Short-circuit Test Liaison

2.5 ROLES AND RESPONSIBILITIES

As per 240-168966153: Generation Tender Technical Evaluation Procedure for Generation.

2.6 PROCESS FOR MONITORING

N/A

2.7 RELATED/SUPPORTING DOCUMENTS

N/A.

3. TENDER TECHNICAL EVALUATION STRATEGY

3.1 TECHNICAL EVALUATION THRESHOLD

The minimum weighted final score (threshold) required for a tender to be considered from a technical perspective is 70%.

3.2 TET MEMBERS

Table 1: TET Members

TET number	TET Member Name	Designation
TET 1	Lesego Kehimile	System Engineer (Elec Eng)
TET 2	Murray Van Niekerk	Snr Consultant (PTM)
TET 3	Brian Mokoena	Snr Technician (Elec Eng)
TET 4	Sthembiso Sibanyoni	Senior Advisor (Tech Support)
TET 5	Seluleko Sikhakhane	System Engineer (C&I)
TET 6	Eric Maasdorp	Senior Advisor (PTM)

3.3 MANDATORY TECHNICAL EVALUATION CRITERIA

Table 2: Mandatory Technical Evaluation Criteria

	Mandatory Technical Criteria Description	Reference to Technical Specification / Tender Returnable	Motivation for use of Criteria
1.	The tenderer must comply with the type testing requirements, including AFLR internal arc tests, as per IEC 62271-200 and, 240-56227573 and 240-56357424 standards for the switchgear offered. If the equipment has been type tested according to standards other than IEC 62271-200, the tenderer must provide the standards referenced, as well as provide specifications comparison and proof that their standard meets the minimum requirements of the IEC standard. If a laboratory used for type testing does not have membership of Short-circuit Test Liaison (STL) the tenderer must provide proof of the laboratory's compliance with the requirements of ISO/IEC 17025. The tenderer must provide a list of all the type test certificate numbers for the equipment which is offered as per the tender requirements.	The tenderer shall submit all of the following documentation or requirement to ensure non disqualification: • Compliance Declaration. • Internal arc test certificate. • Accredited type test certificate and reports. • Short-circuit withstand certificate. • Routine test certificate for the supplied panels. to confirm they are compliant to and make mention that it complies to below Eskom and IEC standard [1] 240-56357424: MV And LV Switchgear Protection Standard. [2] 240-56227573: Air-Insulated Withdrawable AC Metal-Enclosed Switchgear and Control Gear for Rated Voltages above 1kV up to and including 52kV. [3] 240-56030406 RMU Standard [4] Generation Auxiliary Plant Medium Voltage Protection Standard. [4] IEC 62271-200 High-voltage switchgear and Controlgear — Part 200: AC metal-enclosed	• Safety of people and plant. Compliance to applicable standards and regulations.

		switchgear and Controlgear for rated voltages above 1 kV and up to and including 52 kV. and they would adhere to these standards. The tenderer shall submit a fully completed Schedules • 240-9357677_technical schedule AB Arnot PS and 240-56030406 RMU Technical Schedule A&B. • Protection Technical Schedule A and B. Refer: 1. Section 1.2-page 7 Works Information. 2. Technical Specification Section 3.2-page 11. 3. Works Information page 98.	
	All major equipment and devices offered by the tenderer must be of proven technology. Such equipment includes the following: • Switchgear • Protection Devices • Data Communication	The tenderer shall submit a list of the equipment, components, and technologies offered for the switchgear, protection devices, data communication systems, and cabling works. The tenderer shall also provide evidence of experience in projects of a similar nature and complexity, supported by client reference letters, contract award documents, and completion or commissioning certificates. Arnot Power Station will verify the evidence provided.	Technical experience and reliability of equipment.

	• Cabling Works The reference list of identical equipment as offered should indicate the projects on which the technology was implemented, including the names of the clients, the country and the year in which the technology was utilised. The referenced projects must have a minimum duration of five years since installation. Protection Devices should be listed in Eskom standard 240-56227586 (List of approved electronic devices to be used on Eskom Power stations).	Refer: • Technical Specification section 6.3. 17 to 31. • Works Information section 3.1 page 28	
	All major equipment and devices offered must be supplied by the Original Equipment Manufacture (OEMs). The equipment includes the following: • Switchgear • Protection Devices • Data Communication Where tenderer of the Switchgear and related equipment is not the Original	The tenderer shall write a letter committing or confirming that they are the OEM of the switchgear and related equipment. However, should the tenderer of the Switchgear and related equipment not be of the OEM, the Licence agreement letter with the OEM shall be provided by the tenderer in writing and the duration of this agreement should match that of the contract.	Eskom needs assurance that the contracted supplier can provide the required solution, as well as service and support for the system, including but not limited to a situation where a supplier subcontracts any work related to the design, construction and commissioning of the switchgear system. Warranty reservation.

	Equipment Manufacturer (OEM), the license agreements with OEM, their distributors and/or agents shall be in place, with proof of this provided by the tenderer in writing with the tender submission. The duration of the agreement should match that of the Contract.		

3.4 QUALITATIVE TECHNICAL EVALUATION CRITERIA

Table 3: Qualitative Technical Evaluation Criteria

	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)	Criteria Sub Weighting (%)
1.	Switchgear			50		
	1.1	Compliance Schedules	The tenderer shall complete the MV Compliance Schedule.		20	
	1.2	Basic Technical Requirement	Refer to Technical Specification for MV Switchgear Replacement section 6.		4	
	1.3	Type Testing Requirements	Refer to Works Information section 5.4.1 page 86.		4	
	1.4	Maintenance Plan	Refer to Works information section 4.7.3		2	
	1.5	Switchgear Schedule	The tenderer shall complete the Switchgear Schedule • 240-77300784_Conveyor Board 1, • 240-77300784_Conveyor Board 1,		20	

			• 240-77300784_Station Board 1, • 240-77300784_Station 2 Board 1,			
2.	Switchgear Protection			50		
	2.1	Compliance Schedules	The tenderer shall complete Technical Specification appendix I		20	
	2.2	Equipment and system design			20	
	2.2.1	Conceptual design for protection schemes	Tender Returnable: Proposed Design Documentation (Protection) Refer to Technical Specification Section 6.3 to 6.5			8
	2.2.2	Interface with C&I system design	Refer to Technical Specification Section 6.8 A and 6.8B.			4
	2.2.3	Design Drawings	Refer to Works Information sections 2.2, 2.2.5, 2.2.6, 2.6, 3.2.2.11, 4.1.10 and 4.1.11.			8
	2.4	Maintenance Plan	Refer to Works information section 4.7.3		4	

	2.5	Training	Refer to Works Information sections 2.13 page 27 and 6.2.9 page 94 to 96		2	
	2.6	Supporting Documents	Technical Specification appendix J.		4	
				TOTAL: 100		

3.5 TET MEMBER RESPONSIBILITIES

Table 4: TET Member Responsibilities

Mandatory Criteria Number	TET 1	TET 2	TET 3	TET 4	TET 5	TET 6
1	X	X	X	X		X
2	X	X	X	X	X	X
3	X	X	X	X	X	X
Qualitative Criteria Number	**TET 1**	**TET 2**	**TET 3**	**TET 4**	**TET 5**	**TET 6**
1	X	X	X	X		X
2	X	X	X	X	X	X

3.6 FORESEEN ACCEPTABLE / UNACCEPTABLE QUALIFICATIONS

3.6.1 Risks

Table 5: Acceptable Technical Risks

Risk	Description
1.	**N/A**

Table 6: Unacceptable Technical Risks

Risk	Description
1.	**N/A**

3.6.2 Exceptions / Conditions

Table 7: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	The acceptable technical exceptions/conditions are set out as per the requirement under Qualitative Technical Criteria section 3.4 of this document.

Table 8: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	The unacceptable technical exceptions/conditions are set out as per the requirement under Mandatory Technical Evaluation Criteria section 3.4 of this document.

4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation	Signature
Lesego Kehimile	System Engineer	
Murray Van Niekerk	Snr Consultant	
Brian Mokoena	Snr Technician	
Sthembiso Sibanyoni	Senior Advisor	
Seluleko Sikhakhane	System Engineer	
Eric Maasdorp	Senior Advisor	
Mlungisi Msomi	Acting Electrical Engineering Manager	
Tshepo Mokgatle	Engineering Manager	
Dikeledi Zitha	Snr Engineer	

5. REVISIONS

Date	Rev.	Compiler	Remarks
December 2025	1	LL Kehimile	Technical Evaluation Criteria is part of Eskom procedure.

6. DEVELOPMENT TEAM

The people listed on table 1 were involved in the development of this document.

7. ACKNOWLEDGEMENTS

N/A.