Eskom	Report	Technology

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Contents

1. INTRODUCTION

The document is the technical returnable for the High voltage to medium voltage Transformer Gasket is used within the substations. This document provides an overview of Eskom LimLanga Cluster technical evaluation criteria and the process to be adopted by the cluster technical evaluation team when evaluating tender submissions for High voltage to medium voltage Transformer Gasket from the desktop evaluation stage to the verification of other equipment on site. It also outlines the technical requirements to be adhered to by the tenderer and all returnable to be returned by the tenderer at the tender closing date.

2. SUPPORTING CLAUSES

2.1 SCOPE

The document contains the technical requirements and returnable for tenderers of the transformer gaskets that are not on an Eskom national contract. The document contains the requirements for tender's i.e. Evaluation score breakdown as well as schedule A&B.

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] ISO 9001 Quality Management Systems.

[2] 32-1034 - Eskom Procurement and Supply Chain Management Procedure

[3] 240-48929482, Tender Engineering Evaluation Procedure

[4] 240-51757553, Provide Engineering during Project Sourcing

[5] 240-68973110, Specification for Power Transformers Rated for 1.25MVA and Above and with Highest Voltage of 2.2kV or Above

[6] SANS 780, Distribution transformers

2.2.2 Informative

Not applicable.

2.3 DEFINITIONS

All Definitions are applicable as described in the documents listed under Normative Reference of these documents. The following definitions are also applicable:

Definition	Description
Indelible	Marked in such a way that the writing cannot be rubbed off or inadvertently removed through normal wear and tear.
Destroyed	Damaged, deformed, stripped or any other means that renders a component not to be re-used for any purpose other than recycling.
Approved by	The accountability of the Approver of the document is equivalent to the specified role of Functional Responsible/Owner as identified in 240-53114186 and 32-6 for Documents and Records Management.
Desktop Evaluation	An evaluation of the documentation included in the tender returnable.
Functionality	The capability and capacity of a tenderer to provide goods or services in accordance with specifications as set out in the enquiry documents. Tenders evaluated on functionality must be carried out in accordance with 32-1034.
Informal Tender	It is the Procurement mechanism that may be used for transactions not exceeding the Informal Tendering lower limit as set in the Eskom DOA Policy. These transactions must be executed by a Procurement Practitioner and approved by an accredited Procurement Practitioner
Informative Reference	Represents documents that are used as additional information or useful information that relates to this document.
Mandatory Requirements	This are requirements that must be submitted by the tenderer, fail to provide any mandatory tender returnable as clearly specified in the tender enquiry, the tender submission will be deemed non-responsive.
Procurement	Procurement is the process which creates, manages and fulfils contracts relating to the provision of goods, services and engineering and construction works or disposals, or any combination thereof.
Schedule A	Minimum requirements stipulated by the purchaser i.e., Eskom
Schedule B	Offered by the manufacture in response to purchaser's requirements

Standard	A document established by consensus to provide rules, limits, dimensions, tolerances or other characteristics for activities or their results, for common and repeated use. A standard is aimed at the achievement of the optimum degree of order in a given context. Compliance with a Standard is mandatory in its area of applicability
Standards Implementation	Is the department that is responsible for the implementation of standards and for the equipment's Technology at an OU level.
Tenderer	A manufacturer or supplier who wishes to bid on the listed tender.
Type test	It is defined as an element of conformity assessment, and also known as compliance testing, or type testing — is testing or other activities that determine whether a process, product, or service complies with the requirements of a specification, technical standard, contract, or regulation. They are done or when the raw material changes.

2.3.1 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
CFT	Cross Functional Team
CNC	Customer Network Centre
MOU	Mpumalanga Operating Unit
OEM	Original Equipment Manufacturer
PED	Power Delivery Engineering (old DT- Distribution Technology)
SI	Standards Implementation
TET	Technical Evaluation Team

2.5 RELATED/SUPPORTING DOCUMENTS

As per Normative and Informative of all documents listed

2.6 VALIDITY DURATION OF THIS DOCUMENT

This document is only valid for the Technical Returnables required for the contract to be established in MOU within Limlanga cluster. If further contracts need to be established after the lapse of the newly established contract, then the document SI MOU 706 need to be revised by the compiler or a delegate within SI Limlanga Cluster appointed by the SI Limlanga Cluster Manager. Any Updates on applicable or new Standards will require amendments to the established contract.

3. TECHNICAL COMPLIANCE / REQUIREMENTS

3.1 TECHNICAL EVALUATION STRATEGY

The Technical Evaluation Team (as per 240-48929482) will evaluate the submissions. The submissions shall be subjected to a progressive series of evaluation levels. Passing of each stage is a prerequisite for proceeding to the next evaluation stage.

The evaluation stages are as follows:

- Stage 1 Mandatory Requirement
- Stage 2 Functional Scoring Criteria
- Stage 3 Site Evaluation (Sample Functional Evaluation)

3.2 TECHNICAL REQUIREMENTS

These requirements will be used to measure the tenderer's ability to supply Eskom with Transformer gasket that complies with this document and with the specific requirements as stated in Eskom's Standard, the tests may also comply with the International Standards. For this enquiry, stages 1, 2 and 3 evaluations shall take place. The stage 1 evaluation is mandatory, and full compliance with this stage is required in order to be evaluated at stage 2. The tenderer requires **80%** to pass this evaluation stage. The tenderer will be evaluated at stage 3 if they obtain a minimum of **80%** at stage 2 and must be fully compliant at stage 3 evaluation in order to be technically acceptable.

3.2.1 Stage 1: Mandatory Requirements

Table 1: Mandatory Requirements

Title	Requirement	No Compliance	Reference
Test Report	Submission type test report. The test Report shall be from accredited Test facility.	Failure to submit all listed test reports	Annex A
Technical Schedules A&B	Technical schedules shall be completed, signed and submitted.	Failure to submit a completed and signed technical schedule.	Annex B
Deviation Schedule	The technical deviations sheet shall be completed and signed. Where there are no deviations, it shall be indicated as such in the deviation schedule.	Failure to submit a completed and signed deviation schedule form.	Annex C
Manufacturing Drawing	Signed off drawing with labels, drawing number and the revision number.	Failure to submit the drawing which meets the requirements.	None

3.2.2 Stage 2: Functional Scoring Criteria

Only tenderers that passed stage 1 shall be evaluated at stage 2. The tenderer needs to obtain a **minimum weighted score of 80%** in order to pass this stage. The following weights shall apply:

Table 2: Functional Score Distribution

Description	Weight
Contents of the Technical Schedules A & B	40%
Manufacturing drawing	40%
Evaluation of Test Reports	20%

3.2.3 Functional Scoring Methodology

The following scoring methodology will be used to assess the tenderers submissions towards allocating scores for the functional criteria indicated in section 3.2.4 to 3.2.6.

Table 3: Functional Scoring Methodology

Submission Assessment	Score Allocation
Compliant	100%
Compliant with associated qualifications	80%
Non-Compliant	40%
Totally deficient or non-responsive	0%

3.2.4 Functional Scoring Criteria

Table 4: Technical Schedules Evaluation

Description	Weight Score	Achievable Score
Fully completed technical schedule	40%	40%
Completed technical schedule with the maximum of two omissions		32%
Completed technical schedule with more than two omissions		16%
No returnable or incomplete		0%
Maximum Weight Score		**40%**

3.2.5 Manufacturing Drawing

For all the SAP numbers, table 5 below will be used to assess the drawing for each item individually i.e., assessment for the relevant size.

Table 5: Drawing Assessment Criteria

Sap Number	Description	Requirement	Weight
N/A	Transformer gasket used in Eskom	Detailed Drawing with labels and dimensions	50%
		Drawing Number	25%
		Drawing Revision Number	25%
Sum of Weight Score			**100%**

3.2.6 Evaluation of Test Reports

The type test shall be submitted per type test schedule in case where all the sap numbers are covered in one report, it shall be clearly stipulated on the submission which are covered and table 6 below will be used for this assessment.

Table 6: Test Evaluation

Item	Type tests to be conducted	Procedure	Score
Item	Description	Standard	
1.	Temperature-rise test	SANS 61230	1
2.	Dielectric type tests		1
3.	Corrugated tank fatigue test		1
4.	Thermal trip test (CSP transformers)		1
5.	Thermal trip test (CSP transformers)		1
6.	Short-circuit trip test and transformer short-circuit withstand test (CSP transformers)		1
7.	Cable connected boxes test		1
8.	Zero sequence impedance test		1
9.	Overload temperature rise test		1
Total weight score			20%
Each score for number 1 to 17 will be prorated as follows: $$Obtained\ Score = \frac{number\ of\ obtained\ points}{total\ number\ of\ point} \times 20\%$$			

3.2.7 Stage 3: Sample Evaluations Criteria

The tenderer shall submit a sample of the produced-on tender with the tender documentation. The sample will be assessed visual. The sample's compliance will be checked, and the result will be a "Yes" or "No". The tenderer's sample must achieve a "Yes" in the following requirements tabulated in Table 7. A "No" will result in the sample being rejected or sent back for modifications.

Table 7: Sample Evaluation Criteria

Description	Compliance
Clear marking on packaging	Yes/No
Visual Inspection	Yes/No
Verification of the dimensions	Yes/No
Correct size	Yes/No
Protective Bag	Yes/No
Verification of weight	Yes/No

4. ITEMS TO BE PROCURED

Please tick the item to be procured from table 9 below.

Table 8: Procured items.

Item Number	Sap Number	Description	Item to be procured (□)
1.	N/A	SHEET GSKT;THK 1.5 MM;LG 1.2 M	
2.	N/A	SHEET GSKT;THK 3 MM;LG 1.2 M	
3.	N/A	SHEET GSKT;THK 6 MM;LG 1.2 M	
4.	N/A	SHEET GSKT;THK 9.5 MM;LG 1.2 M	
5.	N/A	SHEET GSKT;THK 12.5 MM;LG 1.2 M	

5. REVISION HISTORY

Table 9: Revision history

Date	Revision	Compiler	Remarks
May 2022	1	Mathonsi M.M.	First issue document.
December 2024	2	Mahlangu J.S.	Reviewed the introduction. Added Stage 3: Site Evaluation (Sample Functional Evaluation).

ANNEXURE A

Table 10: Test Report Summary

Test	Specification	Report no.	Test facility	Product Code	Manufacturer	Has the type tested Raw Material Changed (Y/N)	Submitted (Y/N)
Temperature-rise test	SANS 780						
Dielectric type tests							
Corrugated tank fatigue test							
Thermal trip test (CSP transformers)							
Thermal trip test (CSP transformers)							
Short-circuit trip test and transformer short-circuit withstand test (CSP transformers)							
Cable connected boxes test							
Zero sequence impedance test							
Overload temperature rise test							
Temperature-rise test							

SIGNATURES

Tenderer

Name (Print) _____ Sign _____ Date _____

ANNEXURE B

Table 11: Technical Schedule A&B

Item		Description	Requirements	Schedule A	Schedule B
1.		**Product Information**			
		Purchasing details			
1.1		Supplier	Supplier Name	xxxxxxxxxx	
1.2		Manufacturer	Manufacturer name	xxxxxxxxxx	
1.3		Manufacturer's Product Code	Specify Code	xxxxxxxxxx	
1.4		Serial Number	Specify Code	xxxxxxxxxx	
1.5		Manufacturer's Drawing number & Revision number	Specify No and Rev	xxxxxxxxxx	
1.6		Manufacturer's physical unique identifier and product code indelibly marked on product body.	Specify markings	Yes	
1.7		Date of Manufacture	Specify the `date	xxxxxxxxxx	
2.		**Buyers Guide Compliance**			
2.1.		Transfomer gasket	groove joints	Yes/No	
2.2.		Dimensions	1.2M by 1.2 M	Yes/No	
2.3.		**Thickness**	1.5/3/6/9.5/12.5mm	Yes/No	
2.4.		Raw product	Nitrile rubber and cork or better	Specify	
2.5.		Highest Temperature	110°C	Indicate	
3		**Packaging**			
3.1		Transformer gasket individually packed in 1 x protective bag	Comply	Yes/ No	
3.2		Bulk Packaging material, method not more than 30kG	Supplier to specify	Supplier to provide details	

Note: Deviations to any of the stated requirements are to be captured on the Deviation Schedule

SIGNATURES

Tenderer

Name (Print) _____ Sign _____ Date _____