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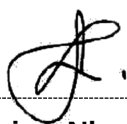
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1. Introduction

This document is the evaluation criteria for tender for the supply of new SF6 gas supplied in cylinders. This evaluation exercise is performed by the Eskom technical evaluators.

2. Supporting Clauses

2.1 Scope

This document covers the evaluation criteria to be used for evaluating.

2.1.1 Purpose

This document aims to address the requirement by the 32-1034 Eskom Procurement and Supply Chain Management, when evaluating.

2.1.2 Applicability

This document shall apply throughout Eskom Holdings Limited Divisions.

2.1.3 Effective date

Not applicable.

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] 240-151122225, Specification for New SF6 Gas Supplied in Standard Gas Cylinders with the Technical Evaluation Criteria.

2.2.2 Informative

- [3] 32-1034, Eskom Procurement and Supply Chain Management.

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2.3 Definitions

Definition	Description
Technical evaluator	End-users, technical experts nominated by the end-user and Divisional technical functionaries with the necessary technical expertise. NB: The technical evaluation shall be performed by the switchgear representatives in the Commodity Cross Functional team.
Threshold for Qualification	This is the threshold that has been determined by Eskom Technical evaluation, which the submission must meet in order to proceed with the technical evaluation after scoring stage.
Multiplier-score	This is a number that is only intended to be used to multiply the final score of Stage 2, and is not to be mathematically added to the scores.

2.3.1 Document:

2.4 Abbreviations

Abbreviation	Explanation
AIS	Air Insulated Switchgear
CB	Circuit-breaker
CG	Care Group
CORP	Commercial Procurement
Dx	Distribution
Eskom	Eskom Holdings SOC (Ltd)
HV	High Voltage
kV	Kilo Volts
ENC	Eskom National Contract
OEM	Original Equipment Manufacturer
RFQ	Request for Quotation
SF6	Sulphur-hexafluoride gas
SME	Subject Matter Expert
SOW	Scope of Work
STT	Switchgear Task Team
Tx	Transmission Division

2.5 Roles and Responsibilities

Asset Management – shall ensure the correctness of this document and that it is in line with the Eskom standard for new SF6 gas in cylinders, 240-151122225.

Technical evaluator – Implement the contents of this document. Technical evaluation report shall be compiled for Eskom purposes that indicates and refers to the clauses of this document.

Commercial and Project Management – Make use of the up to date version of this document during commercial processes.

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Suppliers – shall prepare their technical submission in alignment with this document for compliance with Eskom requirements, as stated in this document with its Appendix, and respond to Eskom accordingly. Also, ensure compliance to this document during the Eskom contracting phase.

2.6 Process for Monitoring

Not applicable.

2.7 Related/Supporting Documents

Not applicable.

3. Technical Evaluation Criteria for Procurement of SF6 Gas in Cylinders

This part of the evaluation starts when the technical submissions are opened for the first time. It begins when the Technical Evaluator confirms the technical submission has the returnables for technical evaluation (Refer to 3.1). Then the Mandatory criteria Stage 1 (Table A1), and proceeding to the Scoring – Stage 2 (Table A2). At this point the evaluation final scoring formula is applied to confirm if the technical submission meets the minimum threshold for qualification (80%).

The returnables for technical evaluation are listed below under sub-clause 3.1:-

3.1 Returnables for Technical Evaluation

The Supplier shall prepare and submit the following technical returnables which are required for Eskom technical evaluator to start evaluating the Supplier's technical submission:-

- a) Clause-by-clause responses that answers to the clauses of the Eskom specification (240-151122225)
- b) Certificate of compliance (issued by the authority that performed tests);
- c) Technical data specification sheet of the cylinder;
- d) Certificate of gas purity (of compliance to IEC 376);
- e) Documented proof (evidence) of colour code marking used to comply with Protea as SANS 10019;
- f) Photo (evidence) of cylinder stamping evidencing compliance with the requirements of SANS 10019;
- g) Certificate of compliance with BS341-3 (for valve outlets and connections);
- h) Valid Test Certificate of hydrostatic testing (issued by the authority that performed tests);

Note: If the above returnables for technical evaluation are not available on each technical submission of that particular item tendered for, that technical submission is regarded as non-responsive and shall be disqualified.

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3.1.1 Mandatory Criteria for Stage 1

The Eskom technical evaluator will go through the details of the returnables for technical evaluation on the technical submissions and will ensure that Stage 1 qualification criteria is met. The following technical requirement shall be met by the Supplier's technical offered items:-

- a) Compliance to the law requirement, SANS 10019.

The technical submission that has complied with the requirement above (in a)), shall receive a Multiplier-score of one (= 1) which will be used in the final formula calculating the final score for the submission. The technical submission that does not comply with the requirement above (in a)) shall receive a **Multiplier-score** of zero (= 0).

3.2 Stage 2 – Scoring for technical submission confirming threshold of 80%

The Eskom technical evaluators shall perform evaluation in accordance to Table 2 which contains the Scoring Stage 2. The technical scoring shall be summed up on the following formula (1):-

Technical submission final score = *Multiplier-score* X (sum of all Stage 2 scoring).....(1)

NOTE: **Multiplier-score** can only be one (1) or zero (0), which will be entered in the formula (1) above

Only the technical submission that has successfully met the technical threshold for qualification of 80 % shall be considered for further evaluation. For that submission that meets the technical threshold for qualification, the technical evaluators shall compile the following of it:-

- a) The list of technical deviations, if any.

Note: It must be noted that when the Supplier has listed the technical deviations on an offered item, it does not mean that such are already acceptable to Eskom.

4. Acceptance

This document has been seen by:

Name	Designation
Bheki Ntshangase	Senior Manager, Substation Equipment & Diagnostics

5. Revisions

Date	Rev.	Compiler	Remarks
Sept 2021	3	S Nkosi	Official version.
Sept 2021	Draft 2.1	S Nkosi	Review notes – page 1 updated; sub clause 2.3; 3.1 first paragraph updated; 3.1.1 and 3.2 updated; removal of Appendix A's Table A3 and updated Table A2

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Date	Rev.	Compiler	Remarks
Aug 2021	2	G Drake, S Nkosi	Official version, revised clauses – 1 to 6; Annex A. and updated title page
June 2021	1	G Drake, S Nkosi, T Muchna	Official version for CORP RFQ _____.
May 2021	0.1	G Drake, S Nkosi, T Muchna	First draft version for CORP RFQ _____.

6. Development Team

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

- Garth Drake – Tx Asset Management, Research, Testing & Development
- Sphiwe Nkosi – Tx Asset Management, Substation Equipment & Diagnostics

7. Acknowledgements

The Compiler acknowledges the input from the SF6 gas Cross-Functional Team SF6 members of their contribution to prepare this document.

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Appendix A – Evaluation Criteria and Stages

A.1 Technical Returnables for Evaluation and Mandatory requirements - Stage 1

Below is the table consisting of the list of technical returnables for evaluation and the mandatory requirement for Stage 1:-

Table A1: Technical returnables for evaluation and mandatory requirements – Stage 1

STAGE 1- BASIC COMPLIANCE: TENDER DELIVERABLES AND MANDATORY TECHNICAL REQUIREMENTS FOR EVALUATION				
Item	240-151122225 Clause Ref No.	Description of technical requirement	Comply (Yes/ No)	Eskom assessment
		Returnables for technical evaluation		
		a) Clause-by-clause responses that answers to the clauses of the Eskom specification (240-151122225) b) Certificate of compliance to Class 1 (issued by the authority that performed tests); c) Technical data specification sheet of the cylinder; d) Certificate of gas purity (of compliance to IEC 60376); e) Documented proof (evidence) of colour code marking used to comply with Protea as SANS 10019; f) Photo (evidence) of cylinder stamping evidencing compliance with the requirements of SANS 10019; g) Certificate of compliance with BS341-3 (for valve outlets and connections); h) Valid Test Certificate of hydrostatic testing (issued by the authority that performed tests);		
Note: If the above returnables for technical evaluation are not available on each technical submission of that particular item tendered for, that technical submission is regarded as non-responsive and shall be disqualified.				

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1		Mandatory Technical scoring				
Item	240-151122225 Clause Ref No.	Description of technical requirement	Required Returnable Documentation	Weight	Comply / No doesn't Comply	Eskom assessment
		Returnables for technical evaluation		(Submitted/ Not submitted)		
a)	3.1	Compliance to the law requirement, SANS 10019		Yes Comply – then submission allocated a Multiplier-score of = 1; No Doesn't Comply – then submission allocated a Multiplier-score of = 0		

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A.2 Technical evaluation scoring – Stage 2

Below is the Table consisting of the list of technical evaluation criteria scoring requirements:-

Table A2: Technical evaluation scoring – Stage 2

2		STAGE 2 – SCORING AGAINST CRITERIA FOR EVALUATION (Total = 100 %, minimum threshold for qualification = 80 %)				
Item	240-151122225 Clause Ref No.	Description of technical requirement	Required Returnable Documentation	Weight	Score	Eskom assessment
1)		Compliance to Eskom specification				
	3.1	Compliance to the law requirement, SANS 10019				
		(at the end of scoring items 2 to 8, add all the percentage "Score". Then apply the formula (1) and use the score from Stage 1, that is:- if Yes Comply – allocate Multiplier-score of one (1); (to the formula (1)) (if No doesn't Comply – allocate Multiplier-score of zero (0); (to the formula (1))				
2	3.1	SF6 is to be supplied in Class 1 standard type gas cylinders in which the SF6 is stored in liquid form under its own vapour pressure when the cylinder is fully charged. Note: A ring type guard shall be supplied with each cylinder.	Certificate of compliance to Class 1 type (issued by the authority that performed tests)	+20% = Comply (Class 1)		
				+0 % = (does not comply)		
3	3.1	SF6 gas is to be supplied in cylinder sizes 10 (±1) kg, 20 (±2) kg and 50 (±3) kg.	Technical data sheet of the cylinder	+20 % = (Comply (as per Eskom sizes)		

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				0 % = (does not comply)		
4	3.2	The required purity of new SF6 gas to be used in SF6 gas insulated equipment is detailed in the latest edition of IEC 60376 standard [3]. Note: Proof of the SF6 gas purity shall be supplied in the form of a batch certificate as well as a batch reference label attached to each and every gas cylinder.	Certificate of gas purity (of compliance to IEC 60376)	+10 % = (Comply to IEC 60376);		
				0 % = (doesn't comply to IEC 60376)		
5	3.3	The standard colour code marking of the gas cylinder shall be Protea colour (Protea 1020-Y80R) in accordance to gas type "Special gas" in SANS/ IEC 10019 standard [4], of which the colour is referred by Eskom as pink colour.	Documented proof (evidence) of colour code marking used to comply with Protea as SANS 10019	+10 % = Comply (Protea)		
				0 % = (doesn't comply, it uses different colour)		
6	3.3	Cylinder stampings shall comply with the requirements of an approved manufacturing standard according to the requirements of SANS 10019 standard [4].	Photo (evidence) of cylinder stamping evidencing compliance with the requirements of SANS 10019	+10 % = (comply) (stamped but meeting other standard that SANS 10019 states)		
				0 % = (is not stamped at all)		
7	3.4	Each cylinder shall be equipped with a one-way type shutoff valve.	Certificate of compliance with BS341-3 (for valve outlets and connections)	+20 % = (Comply to BS 341-3);		
				0 % = (doesn't comply to BS 341-3)		

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8	4	The SF6 gas cylinders require hydrostatic testing (hydraulic bursting test) every 10 years. Does your company insist on hydrostatic (hydraulic bursting test) testing of its SF6 gas cylinders? (minimum 10 yearly interval) (Also as per Important Note)	Valid Test Certificate of hydrostatic testing (issued by the authority that performed tests)	+10 % = (Comply – valid hydrostatic test)		
				0 % = (doesn't comply- no hydro-testing 10-yearly)		
		Apply formula (1) to get the submission final score: Technical submission final score = <i>Multiplier-score</i> X (sum of all Stage 2 scoring).....(1)				
		Minimum Threshold for qualification		80 %		
		Subtotal (Scored)				
		Grand total (Scored)		100 %		

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