

 Eskom	Strategy	Grootvlei Power Station
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Strategy – Correlation and Parallel
Testing as when required for 5
years.**

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1. Introduction

The Tender Technical Evaluation strategy defines the mandatory and qualitative evaluation criteria that serve as a basis for the tender evaluation process. Various tender returnable will be evaluated based on the qualitative criteria specified in this document, and the tenderers meeting the minimum threshold will be considered further

2. Supporting Clauses

2.1 Scope

Scope: North Stack	
Activity	Responsible person
Ensure a QCP is in place and signed by engineering before any work commence	Contractor
<u>General Scope Requirements:</u>	
The supplier must conduct: • Dust Monitor Correlation Test (Isokinetic Sampling) • Gas Monitor Parallel Verification Test (QAL2) • Biannual Isokinetic Sampling NB. All tests will be conducted by SANAS accredited labs or labs accredited by similar foreign authorities.	Contractor
<u>Dust Monitor Correlations Test (PM):</u>	
• Particulate emissions correlation tests shall be conducted every two years unless more frequent checks are required by the power station's AEL. The Minimum Emission Standards (MES) requires that continuous emission monitoring systems must be audited by a SANAS accredited laboratory at least once every two (2) years. While requires accreditation process is still being developed, this requirement will be satisfied by the bi-annual correlation tests and spot checks conducted by independent consultants. Once the SANAS accreditation process is finalized, a SANAS accredited provider must be used to perform the correlation tests and spot checks. Frequency of test – Each dust monitor shall be correlated at least once every two years. Spot checks – a spot check will be conducted on each monitor to confirm the readings and is done as and when required. Estimating two spot checks per year.	Contractor
<u>Parallel (QAL2) Verification Test (VT) Requirements for Gas Monitors:</u>	Contractor

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The Verification Tests is a procedure which is used to evaluate whether the measured values obtained from the AMS still meet the required uncertainty criteria – as demonstrated in the previous QAL2 test. It also determines whether the calibration function obtained during the previous QAL2 test is still valid. The validity of the measured values obtained with the AMS is checked by means of a series of functional tests as well as by the performance of a limited number of parallel measurements using an appropriate SRM. Frequency of test – Verification Test on each gas monitor shall be conducted at least once every two years. Spot checks – a spot check will be conducted on each monitor to confirm the readings and is done as and when required. Estimating two spot checks per year. Gas flows verifications- Gas flows to be verified as when required.	Contractor
<u>Biannual Isokinetic Sampling:</u>	
Biannual Isokinetic Sampling to be conducted as per Annexure A of GN 893 22 November 2013. This is a requirement as per Grootvlei Power Station AEL No: Dipaleseng/Eskom H SOC Ltd/GPS/0015/2024/F04 Frequency of sampling – Isokinetic sampling of pollutants (PM, SO2 and NOx) to be conducted once every two years.	Contractor

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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 evaluation strategy applies to:

- Grootvlei Power Station.
- All tenderers responding to the Scope of Work - Correlation and Parallel testing defined in GVL/0811.
- Engineering, Quality, and Procurement teams responsible for the technical adjudication of tenders at Grootvlei.

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] 240-168966153 Generation Tender Technical Evaluation Procedure.

2.2.2 Informative

- [3] Insert informative document references here.
- [4] Air Quality Act No. 39 of 2004.
- [5] ISO 9096 Stationary source emission – Manual Determination of mass concentration of particulate matter.
- [6] ISO 12141 Stationary source emission – Determination of concentration of particulate matter (Dust) at low concentrations – Manual gravimetric method.
- [7] ISO 10155 Stationary source emissions – Automated monitoring of mass concentrations of particles – Performance characteristics, test Methods and specifications.
- [8] 240-56242363 ESKOM Standard for Emission Monitoring and Reporting – All relevant standards are in this document.
- [9] BS EN 15259 – Requirements for measurement systems.
- [10] BS EN 14181 – Quality Assurance of Automated Measuring Systems.

2.3 Definitions

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Definition	Explanation
Employer	The organization (Eskom) to which the supplier will be contracted for this tender and contracts that may result therefrom
Employer's Premises	Grootvlei Power Station
Industrial Storage Facility	Physical space suitable for the storage of the items specified in the scope of work

2.4 Abbreviations

Abbreviation	Explanation
ISO	International Organisation of Standardisation
NEC	New Engineering Contract
OEM	Original Equipment Manufacturer
Gx Eng.	Generation Engineering
kPa	Kilo Pascal
m	meter
m/s	Meters per second
m ²	Square meter
mg/Nm ³	Milligrams per standard cubic meter (at 0 °C, 101.3 KPa, normalised to 1% O ₂ , Dry)
°C	Degrees Celsius
Am ³ /s	Actual cubic meter per seconds

2.5 Roles and Responsibilities

System Engineer: Custodian of the technical specification ensures compliance with Eskom standards. Reviews technical returnables and provides expertise during evaluation and site inspections.

Tender Evaluation Team: Conducts desktop and site evaluations of tenders against technical requirements.

Grootvlei Engineering Management: Approves and endorses the evaluation outcomes. Ensures the process follows Eskom governance and site engineering policies.

Contractor: Provides mandatory returnables.

Quality: QA/QC ensures ISO 9001 and Eskom QM-58 compliance.

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3. Tender TECHNICAL Evaluation Strategy

3.1 Technical Evaluation Threshold

- For an equitable technical evaluation of the tenders the Contractor must provide all documentation as per the requirements below. All tender returnables given below must be provided.
- A weighted score-card approach is used to evaluate the technical compliance of the tenders against the specifications or ability to perform the work. Tenderers need to have a minimum weighted score of 70% overall or more to technically qualify for further evaluation.
- Failure to provide all the required technical tender returnables as detailed in this section, will render the tender to be non-responsive, and thus tender will be rejected

3.2 TET Members

Technical evaluation will be done by the member listed on table below:

Table 1: TET Members

TET number	TET Member Name	Designation
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3.3 Scoring Criteria

Score	(%)	Definition
5	100	COMPLIANT Meet technical requirement(s) AND; No foreseen technical risk(s) in meeting technical requirements.
4	80	COMPLIANT WITH ASSOCIATED QUALIFICATIONS Meet technical requirement(s) with; Acceptable technical risk(s) AND/OR; Acceptable exceptions AND/OR Unacceptable conditions.
2	40	NON-COMPLIANT Does not meet technical requirement(s) AND/OR; Unacceptable technical risk(s) AND/OR; Unacceptable exceptions AND/OR; Unacceptable conditions.
0	0	TOTALLY DEFICIENT OR NON-RESPONSIVE

Note:

- This Scoring Criteria is to be used for the Qualitative evaluation.
- The Scoring Criteria does not allow for scores of 1 and 3.

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4. TECHNICAL TENDER EVALUATION CRITERIA

The Technical Evaluation Criteria for the Correlation and Parallel Testing:

- *Mandatory Technical Evaluation Criteria (Gatekeepers):* These are non-negotiable requirements. Failure to comply results in automatic disqualification and the tender being declared non-responsive.
- *Qualitative Technical Evaluation Criteria: Assessment of technical returnables such as method statements in compliance with Eskom and international standards.*

4.1 Mandatory Technical Evaluation Criteria

The mandatory technical evaluation criteria serve as gatekeepers and represent the minimum “must meet” requirements for tender compliance. These criteria will be assessed using a yes or no. A no response to mandatory criteria will result in immediate disqualification of tender submission, and bidder will not progress to detailed technical evaluation.

Table 2: Mandatory Criteria Questionnaire

	Mandatory Technical Criteria Description	Meet (Yes/No)
1	SANAS Accreditation The service provider is SANAS accredited for Stack Emission Testing in accordance with ISO/IEC 17025:2017. The service provider is to provide proof of SANAS accreditation certificate.	

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4.2. Qualitative Technical Evaluation Criteria – Phase 1 Desktop Review

Table 3: Qualitative Technical Evaluation Criteria

	Qualitative Technical Criteria Description		Reference to Technical Specification / Tender Returnable	Criteria Weighting (%)	Criteria Sub Weighting (%)
1.	Company Profile and Capability			30	100
	1.1	Evidence of historical stack correlation and parallel testing. Supplier to provide proof of three (3) correlation tests and parallel tests completed on a stack with diameter greater 8m.	Submit previous order or test signed reports for correlation and parallel testing. Report must have signature of service provider and client.		Score 0 – no submissions Score 2 - proof of only 1 correlation and 1 parallel test completed Score 4 – proof of 2 correlation tests and 2 parallel tests completed Score 5 - proof of 3 correlation tests and 3 parallel tests or more completed
2.	Method statement detailing step by step based on 240-56242363 requirements.			25	100
	2.1	Method statement addressing the scope. Demonstrate in detail how the requirements of scope will be executed and any requirements from the employer about correlation and	Method Statement Shall cover the following: 1. Test procedure for correlation test in line emissions and monitoring standard 240- 56242363. [10 points]		Score 0 – No method statement submitted Score 2 – Only Procedure 1 and 2 submitted method statement not score = 30 points.

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		parallel testing.	2. Test procedure for parallel test in line emissions and monitoring standard 240-56242363. [10 points]. 3. Step by step calculations to develop correlations curves used previously to develop curves from the measured pollutants. This must include air to gas curves, moisture, O2 and CO2 factors. [10 points] 4. Step by step calculations to develop parallel curves used previously to develop curves from the measured pollutants. [10 Points] 5. Requirements for both correlations and parallel tests during testing. [10 points]		Or – Only Procedure 3 and 4 submitted Score 4 – – all 1 to 4 procedures but method statement not in line with 240-56242363. Score 5 – all 1 to 4 procedures method statement score = 50 points.
3.		Turnaround time from correlation and parallel tests completion to report issue.		15	100
	3.1	Signed letter indication time (weeks), it will take to issue full report	Signed letter indication the turnaround time from the completion of the tests to report issue.		Score 0 – submissions more than 6 weeks after testing

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		to station for when test is completed.			Score 2 – 5-6 weeks after testing
					Score 4 – 3-4 weeks after tests
					Score 5 – 0- 2 weeks after tests
4.	Test program			15	
	4.1	Test program with requirements for correlation and parallel tests.	Previous program or new drafted program specifying requirements for the stations during testing 1. Correlation test program which covers the specified tests on 240-56242363 and requirements for station before, during and after testing. 2. Parallel test program that in line with 240-56242363 and requirements for station before, during and after testing. 3. Correlation test program that covers insufficient no. of test and requirements for station before, during and after testing.		Score 0 – No submissions. Score 2 – criteria 3 & 4. Score 4 – combination of criteria 1 & 4 or 2 & 3. Score 5 – criteria 1 & 2.

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			4. Parallel test program that covers insufficient no. of test and requirements for station before, during and after testing.		
5.	Skilled Personnel			15	100
	5.1	CV Indicating Qualifications, Experience and training on emission testing.	1. Grade 12 + Technical Qualification, BSc Engineering or National Diploma in Engineering. 2. Stack tester certification - Trained as smokestack tester for the purpose of correlation and parallel testing.		Score 0 – No Submission or No certificates attached or Experience < 2 years. Score 2 - > 2 to 3 years plus criteria 1&2. Score 4 - > 4 to 5 years plus criteria 1&2. Score 5 - > 5 years plus criteria 1&2.

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4.1. Tet Member Responsibilities

Table 4: TET Member Responsibilities

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

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4.2 Foreseen Acceptable / Unacceptable Qualifications

4.2.1 Table 4: Acceptable Technical Risks

Risk	Description
1.	None

4.2.2 Table 5: Unacceptable Technical Risks

Risk	Description
1.	Supplier does not meet client specifications and delays on conducting Correlation and Parallel test withing the required period.

4.2.3 Exceptions / Conditions

Table 6: Acceptable Technical Exceptions / Conditions

Risk	Description
1.	None

4.2.4 Table 7: Unacceptable Technical Exceptions / Conditions

Risk	Description
1.	None

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5. Acceptance

This document has been seen and accepted by:

Name	Designation
	Boiler Engineering Manager
	Engineering Manager

6. Revisions

Date	Re v	Compiler	Designation	Remarks
July 2026	1		Flue Gas Cleaning Plant System Engineer	Original document

7. Development Team

The following person was involved in the development of this document:

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8. Acknowledgements:

N/A

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