

	<p style="text-align: center;">SCOPE OF WORK</p> <p>Annual Calibration of thermocouples, transmitters and transducers, ovens, balances and manometers</p>	
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1 Description of the service

1.1 Executive overview

Eskom will continue to have a reliance on coal-fired power plant for the foreseeable future, and furthermore coal quality is likely to change, and indeed decline, as the country's good quality resources become depleted. This will place increasing pressure on Eskom plant to change feedstocks, with an inevitable decline in quality. This can be accomplished with adequate precautions, development of methodologies for predicting problems, and training of personnel.

Combustion and primary air are varied during the combustion tests and hence the input parameters/instruments have to be calibrated to ensure the accuracy and reliability of results.

1.2 Employer's requirements for the service

The table below lists equipment and quantities per annum that will be sent for calibration.

Service/ product	Range	Quantity/P A
K-Type thermocouples	0 to 450 degrees Celsius	15
Pressure transmitters	0 to 25KPa	8
Pressure transducers	0 to 700KPa	9
R-Type thermocouples	0 to 1600 degrees Celsius	9
Muffle furnace for coal lab	0 to 1000 degrees Celsius	10
Mass balances	0 to 10kg	17
Verification of Weights	1 to 200g	8
Portable Thermometers	0 to 900 degrees Celsius	5
Zwick tensile tester	0 to 5N	2
Venier Caliper	0 to 500mm	3
N2 and O2 flow meters	0 to 20L/Min	2
K-Type thermocouples for site tests	0 to 900 degrees Celsius	20
Hand held manometers	0 to 5KPa	10

SANAS 17025 Calibration certificate to be issued after calibration of instruments.

SHEQ Requirements

- Submit Letter of Good Standing (valid and the nature of business should be aligned with the scope of work)
- Submit signed SHE Policy
- Submit Baseline Risk Assessment (As per scope of work)
- Acknowledgement of Life Saving Rules
- Acknowledge of Eskom 37(2) Agreement
- SHE File will be required before the project starts.

Quality Requirements

The calibration lab must be SANAS 17025 accredited

- 1) A.2 - Quality Policy Approved by top management.
- 2) B.1 - Documented information for defined roles, responsibilities and authorities (An organogram depicting individuals names and roles)
- 3) B.2 - Documented information for Control of Externally Provided Processes, Products and Services. (A procedure / process indicating how suppliers / subcontractors are managed)

1.3 Interpretation and terminology

The following abbreviations are used in this Scope Document:

Abbreviation	Meaning given to the abbreviation
SHEQ	Safety, Health, Environment and Quality

2 Management strategy and start up.

2.1 The Service Provider's plan for the service

2.2 Management meetings

Meetings of a general nature may be convened and chaired by the Contract Manager as follows:

Title and purpose	Approximate time & interval	Location	Attendance by:

2.3 Management of work done by Task Order

The Contract's Manager will issue a task order for all work.

3 Health and safety, the environment and quality assurance

3.1 Health and safety risk management

The Service Provider shall comply with the health and safety requirements contained in the Mine Health and Safety Act No 29 of 1996. The Contractor must submit a SHE file in accordance with Eskom requirements.

3.2 Environmental constraints and management

The service provider must provide proof of the following

- Signed Environmental policy
- Method statement
- Environmental Aspects and Impacts register as per scope of work

3.3 Quality assurance requirements

The service provider must provide proof of the following

- The contractor must be ISO 14001:2004 compliant
- The contractor must be SANAS 17025 accredited

- The contractor must comply to Eskom Supplier Quality Requirement as per QM58 Specification

4 Price List

Table 1: Proposed Bill of Quantities

Service/ product	Range	Estimated Quantity/P A	Unit Price for 1 year	Total price
K-Type thermocouples	0 to 450 degrees Celsius	15		
Pressure transmitters	0 to 25KPa	8		
Pressure transducers	0 to 700KPa	9		
R-Type thermocouples	0 to 1600 degrees Celsius	9		
Muffle furnace for coal lab	0 to 1000 degrees Celsius	10		
Mass balances	0 to 10kg	17		
Verification of Weights	1 to 200g	8		
Portable Thermometers	0 to 900 degrees Celsius	5		
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N2 and O2 flow meters	0 to 20L/Min	2		
K-Type thermocouples for site tests	0 to 900 degrees Celsius	20		
Hand held manometers	0 to 5KPa	10		
Subtotal excluding VAT per year				
Total Contract amount excluding VAT and CPI for a period of 3 years				

5 Technical Evaluation Criteria

5.1 Technical Evaluation Threshold

A minimum weighted final score required for a tender to be considered from a technical perspective is 85%. The Eskom technical evaluation team will evaluate all tenders, any service provider receiving a score less than 85% will be considered technically unacceptable.

5.2 Technical Evaluation

The technical evaluation will be conducted by Senior Technicians who are the end users of the equipment that needs to be calibrated.

5.3 Mandatory technical evaluation Criteria

Mandatory criteria (gatekeepers) are a 'must meet' criteria. These criteria are is weighted or point scored, as to whether or not the criteria are met. An assessment of 'No' against any criterion shall technically disqualify the tenderer and shall not be further evaluated against Qualitative Criteria.

The Service Provider must provide the required documentation for technical evaluation.

5.4 Technical Evaluation Criteria

The technical evaluation team will assess each tender according to the criteria below

Table 2: Qualitative Evaluation Criteria

RESEARCH, TESTING & DEVELOPMENT (R,T&D) SCOPE OF WORK	SCORE
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DESCRIPTION	
Adherence to scope of work:	
<p>Capability to calibrate all instruments as listed in the scope of work:</p> <p>o Provide lab accredited schedule for equipment accredited for by SANAS</p> <ul style="list-style-type: none"> • 100% as per the scope of work - score 40% • 90% as per the scope of work – score 30% • 80% as per the scope of work – score 20% 	40%
<p>Provide proof of calibrations and or verification of instruments as listed in the scope of work for the stated range:</p> <ul style="list-style-type: none"> • Proof provided as per the scope of work – score 40% • 90% of the scope of work proof provided – score 30% • 80% of the scope of work proof provided – score 20% 	40%
<p>Lead time for calibration of instruments:</p> <ul style="list-style-type: none"> • 1 week calibrated after instruments has been submitted – Score 20% • 2 weeks calibrated after instruments has been submitted – Score 15% • 3 weeks calibrated after instruments have been submitted Score 10% 	20%
Total Score	100%