Eskom	**Scope of Work**	**Kusile Power Station**

Title: **Kusile Power Station Calibrations and Maintenance of Plant Performance and Testing Instruments including replacements of Components and Spares on as and when Basis for a period of five years.**

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1. Introduction

Calibration is fundamental to quality assurance programs. It verifies that instruments are performing within specified tolerances and can detect any deviations early, preventing potential defects or errors in process operations or services. Accurate and reliable instrumentation data serves as the foundation for data-driven decision-making and process optimization by ensuring the quality, integrity of performance data, the plant trends, optimize operational parameters, and implement continuous improvement initiatives effectively.

2. Supporting Clauses

2.1 Scope

The scope of work focusing on calibrations, repairs, replacements, maintenance, and the adoption of new technologies demonstrates a commitment to enhancing plant performance, reliability, and innovation. By maintaining high standards in instrumentation management at Kusile Power Station, the plant can achieve operational efficiency, compliance with regulatory standards, and sustained competitiveness in the marketplace. Embracing the latest technologies and innovations in instrumentation enhances the plant's capability to adapt to evolving industry standards and customer requirements. This proactive approach fosters innovation within the organization and supports strategic initiatives for operational excellence.

2.1.1 Purpose

The document aims to provide guidelines to enhance key performance indicators such as thermal efficiency, EAF (Energy Availability Factor) and PCLF (Planned Capability Loss Factor). These metrics directly impact operational efficiency and overall plant productivity by minimizing unplanned downtime and optimizing equipment utilization. By establishing proper governance frameworks and rigorous testing protocols for analysers, the document ensures the integrity and reliability of measurement data. This is crucial for maintaining accuracy in process control and compliance with regulatory standards. Such initiative involves proactive monitoring of instrument health, early detection of potential issues, and swift remedial actions to prevent capacity losses.

2.1.2 Applicability

This document is applicable throughout Kusile Power Station all Plants.

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2.1.3 Effective Date

This document is effective from the approval date.

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 System

[2] 240-44175132 PPE Specification

[3] 32-520 Occupational Health & Safety Risk Assessment Procedure

[4] 32-95 Environmental, Occupational Health and Safety Incident Management Procedure

[5] 32-245 Waste Management Procedure

[6] 32-418 Working at Height Procedure

[7] Occupational Health and Safety Act No. 85 of 1993

[8] 240-62196227 Eskom Lifesaving rules.

[9] The OHS Act No. 85 of 1993

[10] Plant Safety Regulations – GGR 0992

2.2.2 Informative

[1] Coal Accounting Methodology-PG/EA/001

[2] 24087607698-Coal Quantity and Quality Accounting Standard for Thermal Efficiency Determination

[3] 240-164310667-Kusile Power Station Plant Performance Scope of Work

[4] 240-62946386-Vehicle and Driver Safety Management

[5] 240-126130367- Kusile Power Station Cegrits Sampler maintenance

[6] 240-109665332- Medupi Power Station Fly Ash Work Instruction

[7] 15ENG PERF-0405 - Fly Ash Sampling, Calibration Maintenance

2.3 Definitions

Definition	Explanation
Appointed contractor	Means the main contractor awarded the contract.
Baseline risk assessment	(32-520) baseline operational risks refer to the health and safety risks associated with all standard processes and routine activities in the business.

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CEMS	CEMS (Continuous Emission Monitoring System) – is the technology used to monitor gaseous pollutants by heating extraction method. It measures and monitors the SO2, NO, CO, CO2 and O2 gases at the same time.
Client	(OHS Act) Eskom representative (Internal – Asset Owner), also referred to as the contract administrator/custodian or agent or project manager (as defined in the contract). He/she is the person responsible for ensuring that the works or services are executed in terms of the contract, as well as adherence to legislation pertaining to the contract.
Competent person	(OHS Act) means any person having the knowledge, training, experience, and qualifications, specific to the work or task being performed, provided that, where appropriate, qualifications and training are registered in terms of the South African Qualifications Authority Act, 1995 (Act No. 58 of 1995).
Contractor	(OHS Act) means an employer as defined in section 1 of the Act who performs contracted work and includes principal contractors.
Controlled Disclosure	Control Disclosure to external parties (Enforced by law).
Employer	(OHS Act) means, subject to the provisions of subsection (2), any person who employs or provides work for any person and remunerates that person or expressly or tacitly undertakes to remunerate him/her, but excludes a TES (ex labour broker) as defined in section 1(1) of the Labour Relations Act 1956 (Act No. 28 of 1956).
Hazard	(OHS Act) means a source of, or exposure to, danger.
Hazard identification	(OHS Act) means the identification and documenting of existing or expected hazards to the health and safety of persons, which are normally associated with the type of construction work being executed or to be executed.
Health and safety file	(OHS Act) means a file or other record in permanent form, containing the information required in relation to the contract.
Limited Access Register	An access control system used by person in charge of the plant to give person to enter restricted area, or to carry out an activity on the plant.
Lifesaving Rules	(240-62196227) a rule that, if not adhered to, has the potential to cause serious harm to people.
LIMS	LIMS (Laboratory Information Management Software) is a software-based solution with features that support modern laboratory's operations whose features are not limited to workflow and data tracking support, flexible architecture, and data exchange interfaces.
Risk assessment	(OHS Act) means a programme to determine any risk associated with any hazard at a construction site in order to identify the steps needed to be taken to remove, reduce, or control such hazard.
STEP	STEP (Station Thermal Efficiency Performance) Tool is a tool designed to monitor the plant performance, identify losses and gains by monitoring all process inputs and outputs.

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2.4 Abbreviations

Abbreviation	Explanation
BS	British Standard
CH_4	Methane
CO	Carbon Monoxide
CO_2	Carbon Dioxide
CPD	Cyclone Pressure Drop
CSIR	Council for Scientific and Industrial Research
CSY	Coal stockyard
FFFR	Fossils Fuel Fired Regulation
GAH	Gas Air Heater
HP	High Pressure
H2	Hydrogen
ID	Induced Draft
IP	Intermediate Pressure
ISO	International Standards Organisation
KPI	Key Performance Indicators
LAB	Laboratory
LAR	Limited Access Register
LIMS	Laboratory Information Management Software
CEMS	Continuous Emission Monitoring System
LP	Low Pressure
N/A	Not Applicable
NOx	Nitrogen Oxides
OHS Act	Occupational Health and Safety Act
O2	Oxygen
PA	Primary Air
PF	Pulverised Fuel
PJFFP	Pulse Jet Fabric Filter Plant
P&T	Performance and Testing
PPE	Personal Protective Equipment
PSR	Eskom Plant Safety Regulation
Rev	Revision
SAP	System Application and Products
STAR	Stop, Think, Act & Review
STEP	Station Thermal Efficiency Performance
SOx	Sulphur Oxides

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2.5 Roles and Responsibilities

Performance and Testing: To manage the Kusile Power Station assets on behalf of the Employer.
The Contractor: The Contractor shall ensure that he/she is fully conversant with the requirements of this document, specifications and all relevant health and safety procedures, standards, and agree to those terms and conditions, consistently demonstrate his/her competence and the adequacy of his/her resources to perform the duties as required by Eskom in terms of the contract specifications before commencing work.

The Contractor shall have the following functions:

- Collect the instruments and submits to the OEM for calibrations.
- For all maintenance activities including repairs and replacements of components and spares, the Employer shall be informed by the Contractor prior to commence of those activities to afford the Employer time to carry out their own assessment.
- The Contractor shall ensure frequent communication to the Employer and provide the status of all equipment that are sent out for calibrations so that the Employer is able to determine how long the risk can be mitigated.

2.6 Process for Monitoring

Any change in scope and the functions and responsibilities of the contractor and Employer will be controlled through updating or changing of this document.

2.7 Related/Supporting Documents

N/A

3. Description of works

The scope of work [3] outlined for the *Contractor* at Kusile Power Station is both comprehensive and forward-looking, aiming to ensure optimal performance and continuous improvement through the management of instrumentation.

Scheduled maintenance activities are crucial for prolonging the lifespan of instruments and preventing unexpected failures. This proactive approach minimizes downtime and ensures consistent performance of plant systems. Prompt repairs of faulty instruments are necessary to restore functionality quickly and prevent disruptions to operations. Effective repair services contribute to maintaining high equipment availability and reliability.

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Table 1:List of instruments requiring calibration.

TEST INSTRUMENTS	QTY	FREQUENCY
FLUE GAS ANALYSERS		
Testo 340 gas analysers	8	6 months
Testo 350 gas analysers	2	6 months
Testo 400 gas analyser	5	6 months
DR Fiditch Gas analyser	3	6 months
TESTING PROBES		
S-Type Pitot Tube for traversing	20	6 months
L-Type Pitot Tube for traversing	8	6 months
Heated Smokestack probe for traversing	2	6 months
TEMPERATURE MEASUREMENTS		
Thermocouple compensation lead	4	6 months
Thermocouple for traversing	15	6 months
temperature Gun	2	6 months
IR Camera	3	6 months
Hygrometer Dew point	2	6 months
Humidity meter	2	6 months
wet bulb thermometer	1	6 months
Temperature indicator/thermometers	3	6 months
PRESSURE MEASUREMENTS		
Pressure Transmitter	10	6 months
Barometer	4	6 months
Testo 512 Manometer	7	6 months
Precision manometer	2	6 months
Comark Pressure Meter	1	6 months
Pressure Gauge 1.6mpa	1	6 months
Pressure Gauge 1.6mpa	1	6 months
Pressure Gauge 600bar	1	6 months
Pressure Gauge 600bar	1	6 months
Pressure Gauge 160kpa	1	6 months
Pressure Gauge 160kpa	1	6 months
Pressure Gauge 160kpa	1	6 months
Pressure Gauge 25bar	1	6 months
Pressure Gauge 60bar	1	6 months
Pressure Gauge 60bar	1	6 months
Pressure Gauge 1.6mpa	1	6 months
FLOW MEASUREMENTS		
Flexim Ultrasonic Fluxus Flowmeter	3	6 months
Transducers (3 sets)	3	6 months
Wall thickness Probe	3	6 months

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SPEED MEASUREMENTS&OTHER INSTRUMENTS		
Tachometer	3	6 months
Strobe light	2	6 months
CSI Vibration Analyser	3	6 months
Thickness gauge	1	6 months
Helium Leak Detector	2	6 months
Hydrogen Leak Detector (sniffer)	2	6 months
Endoscope borescope inspection	2	6 months
Isokinetic PF Sampler	2	6 months
Data Logger	2	yearly
Digital Drying oven 40L, automatic temperature control	1	yearly
Mettler Toledo Karl Fischer Mass Balance Machine	1	6 months
Mettler Toledo Karl Fischer Coulometer C20S Titration Cell	1	6 Months
Fluke Acoustic Imager	1	6 months
Dwyer Manometer	2	6 months
Alarm Hygrometer Testo 608-H2	1	6 months
Isokinetic Dust Sampler	6	6 months
GMD Pump	2	6 months
DR Fiditch Gas analyser/Horiba PG350E	3	6 months

The *Contractor* will perform maintenance, repairs, and replacements based on the condition of instruments as assessed during calibrations or as issues arise. This approach ensures that resources are allocated efficiently, and priorities are aligned with immediate operational needs.

When instruments are found to be malfunctioning during calibration, the *Contractor* will promptly alert the Employer. This notification serves to inform the *Employer* of potential risks associated with the malfunctioning instrument and allows for timely assessment and decision-making.

Table 2: List of instruments requiring maintenance and repairs.

TEST INSTRUMENTS	QTY	FREQUENY
FLUE GAS ANALYSERS		
Testo 340 gas analysers	8	ADHOC
Testo 350 gas analysers	2	ADHOC
Testo 400 gas analsyers	5	ADHOC
DR Fiditch Gas analyser	3	ADHOC
TESTING PROBES		
S-Type Pitot Tube for traversing	20	ADHOC
L-Type Pitot Tube for traversing	8	ADHOC
Smokestack probe for traversing	2	ADHOC

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TEMPERATURE MEASUREMENTS		
Thermocouple compensation lead	4	ADHOC
Thermocouple for traversing	15	ADHOC
temperature Gun	2	ADHOC
FLIR T660 Thermal Camera	3	ADHOC
Hygrometer Dew point	2	ADHOC
Humidity meter	2	ADHOC
wet bulb thermometer	1	ADHOC
Temperature indicator/thermometers	3	ADHOC

PRESSURE MEASUREMENTS		
Pressure Transmitter	10	ADHOC
Barometer	4	ADHOC
Testo 512 Manometer	7	ADHOC
Precision manometer	2	ADHOC
Comark Pressure Meter	1	ADHOC
Pressure Gauge 1.6mpa	1	ADHOC
Pressure Gauge 1.6mpa	1	ADHOC
Pressure Gauge 600bar	1	ADHOC
Pressure Gauge 600bar	1	ADHOC
Pressure Gauge 160kpa	1	ADHOC
Pressure Gauge 160kpa	1	ADHOC
Pressure Gauge 160kpa	1	ADHOC
Pressure Gauge 25bar	1	ADHOC
Pressure Gauge 60bar	1	ADHOC
Pressure Gauge 60bar	1	ADHOC
Pressure Gauge 1.6mpa	1	ADHOC

SPEED MEASUREMENTS&OTHER INSTRUMENTS		
Tachometer	3	ADHOC
Strobe light	2	ADHOC
CSI 2140 Vibration Analyser	3	ADHOC
Thickness gauge	1	ADHOC
Helium Leak Detector	2	ADHOC
Hydrogen Leak Detector (sniffer) NB: b	2	ADHOC
Endoscope borescope inspection	2	ADHOC
Isokinetic PF Sampler	2	ADHOC
Data Logger	2	ADHOC
Digital Drying oven 40L, automatic temperature control	1	ADHOC
Mettler Toledo Karl Fischer Mass Balance Machine	1	ADHOC
Mettler Toledo Karl Fischer Coulometer C20S Titration Cell	1	
Fluke Acoustic Imager	1	ADHOC
Dwyer Manometer	2	ADHOC
Alarm Hygrometer Testo 608-H2	1	ADHOC
Isokinetic Dust Sampler	6	ADHOC
GMD Pump	2	ADHOC
DR Fiditch Gas analyser/Horiba PG350E	3	ADHOC

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FLOW MEASUREMENTS		
Flexim Ultrasonic Fluxus Flowmeter	3	ADHOC
Transducers (3 sets)	3	ADHOC
Wall thickness Probe	3	ADHOC

3.1 Technical Specifications

a) The *Contractor* is responsible for ensuring compliance to Eskom Holdings SOC Limited and Kusile Power Station specific policies, procedures, and standards.

b) The *Employer* will notify the contractor in writing when the instruments are due for calibrations, and the *Contractor* shall respond immediately to collect instruments on site and send them for calibration.

c) The *Contractor* shall use their own transport for collection and delivering instruments from and to site.

d) The *Contractor* shall ensure that the testing equipment is calibrated by SANAS accredited calibration authority, and the certificate always remains valid.

e) The *Contractor* may be required to assess the plant for verification of instruments and conduct demonstrations for new instruments.

f) Kusile Power Station has the latest technology such as Flue Gas Desulphurisation Plant, therefore the *Contractor* shall seek new technology for instruments that will assist the station for good performance.

3.2 Related/Supporting Documents

N/A

3.3 Description of works

This will depend on the condition of the instrument. Effective communication between the *Contractor* and *Employer* is crucial throughout the process. This includes timely reporting of instrument conditions, collaborative risk assessment, and agreement on action plans to mitigate identified risks.

3.4 SHEQ Requirements

3.4.1 Safety Requirement

a) The Contractor shall comply with Eskom occupational health and safety, environmental, risk and quality requirements, standards, and policies.

b) Ensure compliance to all Eskom mandatory standards and statutory requirements.

c) The Contractor shall provide own PPE before commencing any activity on site.

d) The Contractor shall provide valid medical certificates signed by the medical practitioner.

e) The Contractor shall ensure that the induction is done prior to commencement of work.

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f) The Contractor shall provide own transport and ensure compliance to the Eskom Vehicle and Driver Safety Management Procedure.

g) The *Contractor* shall adhere to Eskom Cardinal Rules.

3.5 Environmental Requirements

Environmental protection shall include noise, water pollution, gaseous emissions, noxious and/or offensive odours, liquid waste collection and solid waste separation and collection.

3.6 Kusile Power Station Environmental Rules

a) Duty of care and remediation of environmental damage

Every person who causes, has caused, or may cause significant pollution or degradation of the environment must take reasonable measures to prevent such pollution or degradation from occurring, continuing, or recurring, or, in so far as such harm to the environment is authorized by law or cannot reasonably be avoided or stopped, to minimize and rectify such pollution or degradation of the environment.

b) Polluter Pay Principle

The costs of remedying pollution, environmental degradation, and consequent adverse health effects and of preventing, controlling, or minimizing further pollution, environmental damage or adverse health effects must be paid for by those responsible for harming the environment.

c) Zero Liquid Effluent Discharge Policy

All *Contractors* shall abide to Eskom Zero Liquid Effluent Discharge through the process of reuse and recycling.

d) Waste

All waste shall be stored in marked and labelled containers and be disposed of at a permitted disposal site.
Any hazardous substance to be used should be notified to Protective Services Department accompanied by Safety Material Data Sheet.

All spills/emergency incidents should be reported to the Supervisor and Environmental Officer(s).

All Contractors must consider environmental consideration when carrying out Risk Assessment.

Fuels or oils shall be stored or maintained in bounded areas.

e) Other Rules:

All equipment used on site must be in good working condition and no fuel and/or oil leaks on any plant will be tolerated.

Report all environmental incidents or potential incidents to your supervisor immediately on occurrence or when noted for investigation and correction.

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Do not perform any act which may in any way adversely affect the environmental image of the site or which is in contravention of an environmental requirement; and

Note: You are responsible for your actions, and you will be required to rectify all environmental damage resultant from your activities.

f) Duty of care

The *Contractor* is obliged to exercise due diligence in undertaking of duties and ensuring non-breach on statutory requirements.

Every person who causes, has caused, or may cause significant pollution or degradation of the environment must take reasonable measures to prevent such pollution or degradation from occurring, continuing, or recurring, or, in so far as such harm to the environment is authorized by law or cannot reasonably be avoided or stopped.

g) Dust

The *Contractor* shall provide, maintain, and calibrate fall out dust collectors for the measurement of the dust fallout. Dust measurement will only be required at those portions of the working area where the actual activity is actively occurring. As a minimum, two dust collectors shall be positioned at each of the active working area.

Should the fall out exceed the 0.25g/m²/day then the contractor shall cease with the operations that are causing the dust until such time as remedial measures have been put in place to ensure that dust levels are within the acceptable limits.

The contractor shall keep records of all dust level measurements for the duration of the contract.

h) Protection of watercourses, water bodies and wetlands

The contractor shall ensure that all watercourses and water bodies are protected from contamination or degradation because of their activities. All watercourses and water bodies shall be protected from direct or indirect spills of pollutants such as solid waste, sewage, fuels, chemicals, and contaminated water resulting from the contractor's activities. The contractor shall not permit his employees to make use of any natural watercourse or waterbodies for the purpose of personal washing and washing the machinery or clothes.

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3.7 PPE Requirements



Figure 1: PPE Requirements

The following safety equipment MUST be worn, as a minimum, in the work area:

a) Hard Hat, with Chin strap
b) Gloves
c) Dust mask (where applicable)
d) Safety Boots
e) Safety Glasses (Tinted not to be worn at night)
f) Safety clothing, including a reflective vest
g) Ear plugs or Earmuffs

Six Commandments of Safety

a) Support efforts to make work-place safe and healthful.

b) Do your part; observe safety regulations and established work practices.

c) Act responsibly and with concern for the safety of others, as well as your own.

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d) Check all tools and protective equipment frequently, to make sure they are in safe working order/conditions.

e) Educate yourself and others in the hazards associated with your job and safe ways to perform familiar tasks.

f) Think over accident and injury possibilities before starting on any project.

4. Acceptance

This document has been seen and accepted by:

Name	Designation
	Engineering Group Manager
	Plant Performance Manager
	Process Engineering Manager
	Senior Advisor Quality
	Senior Advisor Environmental
	System Engineer
	Environmental Manager
	Senior Technologist Safety and Occupation Hygiene
	Senior Technician
	Senior Technician
	Senior Technician
	Senior Technician
	Senior Technician

5. Revisions

Date	Rev.	Compiler	Remarks
August 2024	1		New document

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6. Development Team

7. Acknowledgements

Engineering team, Safety, Quality and Environment.

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