Eskom	CONTRACT SCOPE	DUVHA POWER STATION

Title: **SANAS ACCREDITED CALIBRATION SERVICE CONTRACT ON AS AND WHEN REQUIRED BASIS.**

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1. Introduction

There are a number of process calibration equipment in Duvha Power Sation. These needs to be serviced and calibrated by a SANAS accredited company.

2. SUPPORTING CLAUSES

2.1 Scope

This document covers the scope of the service that the contractor must provide.

2.1.1 Purpose

The purpose of this document is to define the scope of work for the SANAS accredited calibration service contract.

2.1.2 Applicability

This document shall apply throughout Duvha Power Station.

2.1.3 Effective Date

This document shall be effective from date of authorisation.

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] Act No 85 of 1993: Occupational Health and Safety Act & Regulations, 1993.

[2] ISO 9001: Quality Management Systems.

[3] Act No 102 of 1980: National Key Points Act, 1980

2.2.2 Informative

[4] NEC3 Supply Contract

2.3 Definitions

Definition	Explanation
Controlled disclosure	controlled disclosure to external parties (either enforced by law, or discretionary).
Calibration (process calibration equipment):	A comparison between a process calibration equipment item and a measuring standard of higher accuracy to detect, correlate, adjust, and document the accuracy of the item being compared.
Authorised person	A person who has been accredited by SANAS to calibrate process calibration equipment in an Eskom or national metrology laboratory.

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Definition	Explanation

2.4 Abbreviations

Abbreviation	Explanation
C&I	Control and Instrumentation
EMD	Electrical Maintenance Department
SANAS	South African National Accreditation System
HMD	Heavy Maintenance Department
TSS	Technical Support Section

2.5 Roles and Responsibilities

This scope of work shall form part of the contract document. The Service Managers must ensure that the Contractor adheres to the conditions of the contract.

2.6 Process for Monitoring

N/A

2.7 Related/Supporting Documents

N/A

3. CONTRACT SCOPE

The scope of this contract is for the SANAS accredited calibration service of the following calibration equipment on as and when required basis for a period of 5 years.

Table 1: C&I Calibration Equipment List

Equipment Description	Frequency	5 years Quantities
Digital Multimeter Fluke 179	**Yearly**	**200**
Digital Multimeter Fluke 233	**Yearly**	**5**
Digital Multimeter Fluke 87	**Yearly**	**90**
Digital Multimeter Fluke 177	**Yearly**	**15**
TEST GAUGE AMETEK Crystal XP2i Digital Pressure Gauge	**Yearly**	**15**
0 - 25MPa Pressure gauge	**Yearly**	**10**
0 - 10MPa Pressure gauge	**Yearly**	**10**
Process Calibrator Fluke 754	**Yearly**	**5**
Hand-held multifunction process calibrator Beamex MC2-MF	**Yearly**	**5**
Hand-held multifunction process calibrator Beamex MC5	**Yearly**	**5**

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Equipment Description	Frequency	5 years Quantities
Handheld digital pressure calibrator AMETEK JOFRA HPC500	**Yearly**	**5**
Multifunction Process Calibrator Fluke 725	**Yearly**	**10**
Beamex multifunction calibrator MC5P with the following modules: PMB, PM20C, PM250 and PM600	**Yearly**	**5**
Beamex multifunction calibrator MC5P with the following modules: PM10mD, PMB, PM400mC and PM6C	**Yearly**	**5**
Beamex multifunction calibrator MC5P with the following modules: PMB, PM6C, PM20C and PO8C	**Yearly**	**5**
Beamex multifunction calibrator MC5P with the following modules: PM600 and PM6C	**Yearly**	**5**
Ametek Jofra Block Temperature Calibrator, model 250SE.	**Yearly**	**5**
Multifunction process calibrator Memocal 81B	**Yearly**	**10**
Handheld process calibrator Memocal 2000	**Yearly**	**10**
handheld, multi-purpose digital process calibrator, Top Tronic T123 Process Source	**Yearly**	**5**
BUDENBERG DEAD WEIGHT TESTER	**Yearly**	**10**
Dead weight tester GaugeCalXP Pressure comparator 10000 PSI-700 bar	**Yearly**	**5**
Dead weight tester GaugeCal HP Pressure comparator 15000 PSI-1000 bar	**Yearly**	**5**
YOKOGAWA SC72 CONDUCTIVITY METER	**Yearly**	**5**
7MC3030-1AE20: Spectral pyrometer MPA20AF4 Ardometer	**Yearly**	**120**
Travelling (Trips)		**130**

Table 2: EMD Calibration Equipment List

Equipment Description	Frequency	5 years Quantities
Digital Multimeter Fluke 179	**Yearly**	**25**
Digital Multimeter Fluke 177	**Yearly**	**230**
DEHN PHE III 6,6 kV single-pole voltage detector (serial number 7253)	**Yearly**	**5**
DEHN PHE III 6,6 kV single-pole voltage detector (serial number 7197)	**Yearly**	**5**
Major Tech insulation resistance tester (megger)	**Yearly**	**5**
Fluke 1550B MegOhmMeter	**Yearly**	**5**
Megger MIT1025, DC insulation resistance tester and megohmmeter	**Yearly**	**5**

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Equipment Description	Frequency	5 years Quantities
Universal VLF & DC HV Tester HVA 30	**Yearly**	**5**
Fluke 381 True-RMS AC/DC clamp meter	**Yearly**	**5**
Fluke 365 True-RMS AC/DC clamp meter	**Yearly**	**10**
Digital Multimeter clamp meter EXTECH 65EA	**Yearly**	**5**
Travelling (Trips)		**50**

Table 3: HMD Calibration Equipment List

Equipment Description	Frequency	5 years Quantities
0 - 2000KPa Pressure gauge	**Yearly**	**10**
0 - 6000KPa Pressure gauge	**Yearly**	**10**
0 - 30MPa pressure gauge	**Yearly**	**5**
0 - 1000KPa Pressure gauge	**Yearly**	**5**
0 - 1600KPa Pressure gauge	**Yearly**	**5**
0 - 2500KPa Pressure gauge	**Yearly**	**5**
0 - 60MPa Pressure gauge	**Yearly**	**10**
Laser alignment machine Fixturlaser 1-0911 NXA Pro	**Yearly**	**10**
Laser alignment machine Fixturlaser 1-0912 NXA D	**Yearly**	**10**
Laser alignment machine Pruftechnik, SHAFALIGN Type ALI 21.210	**Yearly**	**5**
Laser alignment machine Pruftechnik, Optalign smart	**Yearly**	**10**
Laser alignment machine Easy-Laser XT12	**Yearly**	**10**
Travelling (Trips)		**70**

- Only authorised persons who has been accredited by SANAS to calibrate process calibration equipment in an Eskom or national metrology laboratory may perform the maintenance and adjustment of process calibration equipment.
- Calibration certificate to be generated for every equipment calibrated. The results for before and after calibration should be recorded.
- The accreditation of the contractor should be valid for the duration of the contract.
- The contractor should be authorized by SANAS to cover all or majority of the scope of work. For the scope that the contractor is not authorised by SANAS, the contractor can subcontract a contractor who is authorized by SANAS. The subcontractor should meet all the requirements as stipulated in the contract.
- Laser alignment machines fall under dimensional metrology and an accredited calibration certificate is required but OEM calibration certificate is also acceptable on condition that the OEM calibration equipment is traceable.

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4. Acceptance

This document has been seen and accepted by:

Full Name and Surname	Designation
Andries Nxumalo	HMD workshop Senior Supervisor
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Dumisani Thabang	EMD Manager
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Lucky Mtembu	HMD Turbine Manager
Lungani Buthelezi	C&I Maintenance Manager
Mokotedi Ditshego	Auxiliary Maintenance Senior Supervisor
Msizi Ngcoya	Boiler Maintenance Manager
Nokuthula Mahlangu	EMD Technician
Peter Simelane	Oil Burner Senior Supervisor
Sonwabo Xaba	Senior Advisor Technical Support
Tembeka Tshamano	TSS Manager

5. Revisions

Date	Rev.	Compiler	Remarks
November 2026	4	Tabole Mokgothu	Removed Fuji electric handheld communicator from the scope and clarified requirement for laser alignment machines.
June 2026	3	Tabole Mokgothu	Revised the scope of work
November 2025	2	Tabole Mokgothu	Include Electrical and Mechanical Scope
February 2025	1	Tabole Mokgothu	To establish a new contract

6. Development Team

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

- N/A

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7. Acknowledgements

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