



CERTIFICATE OF ACCREDITATION

In terms of section 22(2) (b) of the Accreditation for Conformity Assessment, Calibration and Good Laboratory Practice Act, 2006 (Act 19 of 2006), read with sections 23(1), (2) and (3) of the said Act, I hereby certify that:-

RAYTEN ENGINEERING SOLUTIONS (PTY) LTD

Co. Reg. No.: 2019/310726/07

Facility Accreditation Number: T0894

is a South African National Accreditation System accredited facility
provided that all conditions and requirements are complied with

This certificate is valid as per the scope as stated in the accompanying schedule of accreditation,
Annexure "A", bearing the above accreditation number for

STACK EMISSION AND AMBIENT MONITORING ANALYSIS

The facility is accredited in accordance with the recognised International Standard

ISO/IEC 17025:2017

The accreditation demonstrates technical competency for a defined scope and the operation of a
quality management system

While this certificate remains valid, the Accredited Facility named above is authorised to
use the relevant accreditation symbol to issue facility reports and/or certificates

Mr F Osman
Acting Chief Executive Officer

Effective Date: 17 April 2025
Certificate Expires: 12 February 2030



ANNEXURE A

SCHEDULE OF ACCREDITATION

Facility Number: **T0894****Permanent Address of Laboratory:**

Rayten Engineering Solutions (Pty) Ltd
47 Kroton Street
Wetervreden Park
Roodepoort
1709

Technical Signatories:

Mr J le Roux (All Methods)
Mr J Dube (All Methods)
Mr C Wray (All Methods)
Mr T Ledwaba (All Methods)
Mr JD Nkuna (All Methods)

Postal Address:

PO Box 1369
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2188

Nominated Representative:

Mr J Le Roux

Tel: (011) 792-0880

Issue No.: 06

Fax:

Date of Issue: 26 July 2026

E-mail: jacques.leroux@rayten.co.za

Expiry Date: 12 February 2030

Material or Products Tested	Type of Tests / Properties Measured, Range of Measurement	Standard Specifications, Techniques / Equipment Used
CHEMICAL		
Sample and Velocity Traverses	Determination of Sample and Velocity Traverses for Stationary Sources	USEPA Method 1
Velocity and Flow Rates	Determination of Stack Gas Velocity and Volumetric Flow Rate (Type S Pitot Tube)	USEPA Method 2
Stack Gas Temperature	The gas temperature were measured by means of a thermocouple connected to a digital thermometer (K type)	
Oxygen and Carbon Dioxide Concentrations	Determination of Oxygen and Carbon Dioxide Concentrations-Instrumental	USEPA Method 3a
Water Vapour Content	Determination of Moisture Content in Stack Gases	USEPA Method 4
Measurement of particulate Matter	Determination of Particulate Matter Emission from Stationary Sources	US EPA Method 5
	Dust fall out analysis (soluble and insoluble)	ASTM D1739-98(Re-approved 2017) SANS 1137:2019
Nitrogen Oxides	Determination of Nitrogen Oxides	USEPA Method 7e
Sulphur Dioxide	Determination of Sulphur Dioxide	USEPA Method 6c
Sulphuric Acid, Acid Mist, Sulfur Dioxide and Sulfur trioxide	Determination of Sulfuric Acid, Acid Mist, Sulfur Dioxide and Sulfur Trioxide Emissions from Stationary Sources	US EPA Method 8

Carbon Dioxide	Determination of Carbon Dioxide Instrumental	USEPA Method 10
Volatile Organic Compounds	Measurement of Gaseous Organic Compounds by gas Chromatography	USEPA Method 18
Hydrogen Sulphide	Determination of H ₂ S emissions from Stationery Sources	USEPA Method 11
Hydrogen Halides and Halogens	Determination of Hydrogen Halides and Halogens Emissions from Stationary Source	USEPA Method 26a
Total organic Compounds	Determination of TOC emissions from Stationary Sources using a flame ionization Detector	USEPA Methods 25 A
Ammonia	Compendium Test Methods for the Determination of Ammonia Emissions from Stationary Sources	USEPA Method CTM-027
Metals incl. Mercury	Determination of Metals Emissions from Stationary Source	USEPA Method 29
PCDD/PCDF, PCB's and PAH	Determination of Polychlorinated Dibenzo-p-Dioxins Polychlorinated Dibenzofurans, Polychlorinated Biphenyls, and Polycyclic Aromatic Hydrocarbons from Stationary Sources	US EPA Methods 0023
Continuous Monitoring System Correlation	Specification and Test Procedures for Particulate Matter Continuous Emission Monitoring Systems at Stationary Sources	US EPA Performance Specification 11
Total Chromium and Hexavalent Chromium	Determination of Hexavalent Chromium Emissions from Stationary Sources	US EPA Method 0061
Gaseous Cyanide as Hydrogen Cyanide	Sampling and Analysis for Hydrogen Cyanide Emission from Stationary Sources	US EPA Method OTM-29

Original Date of Accreditation: 13 February 2020

ISSUED BY THE SOUTH AFRICAN NATIONAL ACCREDITATION SYSTEM


 Accreditation Manager