



**PetroSA**

The Petroleum Oil and Gas  
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## **ANNEXURE “A”**

### **SERVICE ORDER**

**ENQUIRY NO: CTT26000**

**DESCRIPTION: PROVISION OF LABORATORY SERVICES FOR CHEMICAL ANALYSIS OF ENVIRONMENTAL AND OCCUPATIONAL HYGIENE SAMPLES AND THE SUPPLY OF CONSUMABLES**

#### **1. SCOPE OF WORK**

##### **1.1 BACKGROUND**

PetroSA requires the services of a laboratory accredited by the South African National Accredited System (SANAS) to conduct chemical analysis for environmental (air, liquid and solid matrices) and occupational hygiene samples and to supply the consumables for these analyses.

##### **1.2 DELIVERABLES**

###### **1.2.1 The services of the laboratory will include the following analyses:**

- Volatile organic compounds, nitrogen dioxide and sulphur dioxide from radiello absorbing cartridges
- Drinking Water Analysis
- Ground Water Analysis
- Soil Analysis
- Waste Analysis
- Various Occupational Hygiene Analysis
- And or other analyses as and when required

The chemical analyses that are required are not exhaustive to the list as at times it will be required to conduct other analyses when required for investigative purposes.

#### **Directors:**

Ms Unati Figlan (Chairperson)  
Ms Brenda Moagi; Mr Llewellyn Delport; Mr Thembinkosi Bonakele  
Mr Mmete Fusi; Ms Ditsietsi Morabe  
Group Chief Executive Officer: Mr Xolile Sizani  
Group Chief Financial Officer: Ms Nombulelo Tyandela  
Group Company Secretary: Ms Nohlanga Motaung

### 1.2.2 Accreditation:

The laboratory needs to be accredited as per the South African National Accreditation System. The SANAS ISO/IEC accreditation certificate must be provided.

The laboratory is required to be accredited for the following type of analysis and methods.

Table 1:

MEDIUM	TYPE OF ANALYSIS	METHOD/s
Air	Alpha Quartz by FTIR	NIOSH 7602 MDHS 101
	Gravimetical Analysis of Respirable, Thoracic and Inhalable Aerosols	MDHS 14/4, NIOSH 0500, NIOSH 0600, GME16/2/3/2/3
	Gravimetical Analysis of Particles not otherwise classified (PNOC)	NIOSH 0500, NIOSH 0600
Air, Liquid and Solid	Metal, metalloids and Fume by ICP-AES	NIOSH 7300, NIOSH 7301, NIOSH 7302, EPA Method 200.7, SANS 6164
	Inorganic Acids by Ion Chromatography	NIOSH 7903, Radiello Method
	Sulphur Dioxide and Nitrogen Dioxide by Ion Chromatography	NIOSH 6004, Radiello Method
	Volatile Organic Compounds by GC-FID/ GC-MS	NIOSH 1003, NIOSH 1300, NIOSH 1500, NIOSH 1501, NIOSH 2549, 3M Method, MHDS 88, Radiello Method
	Fluorides by ion chromatography	NIOSH 7906

### 1.2.3 Lead Time for Sample Analysis

It is expected that the samples to be analysed within 5 days once received so as to maintain the integrity of the samples.

### 1.2.4 Reporting

A Report is required on the analysis of the compounds detailing results of the samples, specific test conditions, limit detections, deviations and or method used.

Test results of the analyses of the samples are to be submitted to PetroSA within 10 days of despatch of samples to the laboratory, unless otherwise agreed upon.

### **1.3 OBLIGATIONS OF THE CONTRACTOR IN TERMS OF SCOPE OF WORK**

#### **1.3.1 The Services**

No services shall be performed without a Work Order / Purchase Order issued by PetroSA's Procurement Office. No invoice will be paid without the corresponding Purchase Order number appearing on the invoice.

A list of any deviations in scope of supply to the requirements set forth in this Scope of Services Document.

#### **1.3.2 Quality Assurance**

The Contractor shall ensure that the Services (including all workmanship) and all products and materials, documentation, tools and equipment used or required for the Services comply with PetroSA's Quality Assurance and Certification Requirements Standard Documentation Ref. OQ/S/00/01.