





Certificate of Accreditation

This is to certify that

LASER ENGINEERING AND RESOURCES CONSULTANTS LIMITED

No 5 East - West Road, Rumuodara, Port Harcourt, Rivers State

Has been assessed by the Nigeria National Accreditation System and meets the requirements of the International Standard

ISO/IEC 17025:2017

with demonstrated technical competence in the field of

Testing

for the specific services listed on the approved Scope of Accreditation.

On behalf of the Nigeria National Accreditation System:



Issue date: June 15, 2022 Validity through: June 14, 2024

Scope of Accreditation

PVT and Environmental Testing Laboratory

Laser Engineering and Resources Consultants Limited

No 5 East - West Road, Rumuodara, Port Harcourt, Rivers State

Schedule NO.: T 0029 Issue No. 1: 15 06, 2022 Valid to : 14 06,2024

Materials/			Types of Tests/ Properties			
Products			Measured / Range of	Standard Specifications / Techniques Used		
Tested			Measurements			
Environmental I	aboratory Scope of Accreditation					
	1.	Calcium, Strontium, Barium, Iron, Zinc, Chromium, Cadmium, Copper, Manganese, Nickel, Lead, Vanadium, Arsenic, Aluminium, Boron, Lithium, Cobalt, Tin, Molybdenum, Silicon & Phosphorus		APHA 3120/MP-AES		
Soil and water	2.		de (mg/l)	APHA 4500-Cl B./Agentometric Method		
	3.	•	te (mg/l)	APHA 4500-SO ₄ E/Spectrophotometer		
	4.	Nitrate		APHA 4500-NO3- E/Spectrophotometer		
	5.	Phosph		APHA 4500-P E/Spectrophotometer		
	6.	Nitrite		APHA 4500-NO2 B/Spectrophotometer		
	7.	Nitrogen-Ammonia		Salicyclate Method/Spectrophotometer		
	8.	Bicarbonate		APHA 2320-ALK-B/HACH Digital Titrator		
	9.	Carbor	nate	APHA 2320-ALK-B/HACH Digital Titrator		
	10.	Total Hardness		APHA 2340 C/EDTA Titrimetric Method		
	11.	рН		APHA 4500-H+ B/pH meter		
	12.	Dissolved Oxygen		APHA 4500-O G/DO meter		
	13.	Total [Dissolved Solids (TDS) (mg/l)	APHA 2510 B/ Conductivity meter		
	14.			APHA/2510 B/ Conductivity meter		
	15.	5. Turbidity		APHA 2130 B/ HACH Turbido meter		
	16.	Water Sampling		SESDPROC-201-R3- EPA		
	17.		mpling	SESDPROC-300-R0 EPA/		
	PVT LABORATORY SCOPE OF ACCREDITATION					
	18.			ASTM D5002/Density		
		Density	y of crude oil	Meter		
	19.	Viscosi	ty of crude oil	ASTM		

Materials/ Products Tested		Types of Tests/ Properties Measured / Range of Measurements	Standard Specifications / Techniques Used
			D7483/Electromagnetic
			Viscometer
	20.		ASTM D4294/Sulphur-
		Sulphur content in crude oil	in-crude Analyser
	21.		ASTM D4057/Manual
		Oil Sampling	Sampling