

CERTIFICATE OF QUALITY AND CONFORMANCE

We the undersigned, Sper Scientific Ltd., located at 8281E. Evans Rd. Suite 103, Scottsdale, AZ 85260 USA, do hereby certify that all products branded and supplied by Sper Scientific meet the established quality standards and operate within the given specifications listed for said product.

850027 Mini Environmental Quality Meter

This statement applies only to the condition of the product in the original unopened package. Sper Scientific cannot and does not assume any responsibility for any failure of the product to meet this Certificate of Quality and Conformance that results from any damage by shipping, accident, tampering, misuse, or abuse of the product.

Except as otherwise set forth, there are no other warranties, expressed or implied, that apply to this certificate.



Stephanie Carmichael

Sper Scientific Ltd.
Sales & Distributor Support
sales@spersscientific.com



BANTE
instruments

CALIBRATION CERTIFICATE

Instrument	Serial Number	Production Date
900P-UK	210317-001	Mar-17

Herewith we certify that the above instrument had been tested and adheres to the technical specifications listed in this document.

Environmental Conditions

Room Temperature (°C)	Relative Humidity (%)	Calibration Date
25	68	Mar-17

pH/Ion Parameters

Testing Item	Input		Tested			
	pH	mV	pH	mV (+)	mV (-)	
pH and mV measurements (58.165mV/pH @20°C)	1	0	1.001	0	0	
	2	200	2.000	200	200	
	3	400	3.000	400	400	
	4	600	4.000	600	600	
	5	800	5.001	800	800	
	6	1000	6.000	1000	1000	
	7	1200	7.000	1200	1200	
	8	1400	8.000	1400	1400	
	9	1600	9.000	1600	1600	
	10	1800	10.001	1800	1800	
	12	---	12.001			
	14	---	14.001			
	Impedance $1 \times 10^{12} \Omega$	✓				
	Temperature compensation	°C	mV	Tested		
0		379.377	7.000			
15		400.210	7.000			
30		421.044	7.000			
45		441.870	7.000			
60		462.711	7.000			
Testing with pH buffer	pH Buffer		Tested 1	Tested 2	Tested 3	Deviation
	4.01		4.010	4.008	4.01	0.002
	7.00		7.002	7.001	7.001	0.002
	10.01		10.012	10.011	10.012	0.002
Repeatability $< \pm 0.005 \text{pH}, \pm 1 \text{mV}$			✓			

Conductivity Parameters

Testing Item	Input	Criterion	Tolerance	Tested		
Resistance input	1 MΩ	1 μS/cm	0.99~1.01 μS/cm	1		
	100 KΩ	10 μS/cm	9.9~10.1 μS/cm	10		
	5.56 KΩ	180 μS/cm	179~181 μS/cm	180		
	8.33 KΩ	120 μS/cm	119~121 μS/cm	120		
	10 KΩ	100 μS/cm	99~101 μS/cm	100		
	20 KΩ	50 μS/cm	49~51 μS/cm	50		
	40 KΩ	25 μS/cm	24~26 μS/cm	24		
	1 KΩ	1 mS/cm	0.99~1.01 mS/cm	1		
	100 Ω	10 mS/cm	9.9~10.1 mS/cm	10		
Temperature coefficient			< ±0.08%/°C	✓		
Temperature compensation	0°C		±1 digit	✓		
	35°C			✓		
Testing with standard solutions	Conductivity Standard		±5 digit	Tested 1	Tested 2	Deviation
	84 μS/cm			84.1	84.0	0.1
	1413 μS/cm			1412	1413	1
	12.88 mS/cm			12.88	12.87	0.01
	111.8 mS/cm			111.7	111.6	0.1
Repeatability			< ±0.5%	✓		

Dissolved Oxygen Parameters

Testing Item	Criterion/Tolerance	Standards (mg/L)	Tested 1	Tested 2	Deviation
Air-saturated water	<ul style="list-style-type: none"> Calibration and measurement at the same temperature: ±0.2 mg/L Calibration and measurement is 10°C different: ±0.4 mg/L 	11.26 (@10°C)	11.27	11.26	0.01
		9.08 (@20°C)	9.08	9.07	0.01
		7.56 (@30°C)	7.57	7.56	0.01
Zero point	< 0.03 mg/L	✓			
Repeatability	< 0.1 mg/L	✓			
Response time	< 45 sec.	✓			

Others

Item	Tested
Clock	✓
Communication	✓
Keypad	✓
No scratches	✓
Color consistency	✓

Test criteria have been meet Yes No

Performed by Mark Xu Date Mar-17-2021

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CALIBRATION CERTIFICATE

Instrument	Serial Number	Production Date
900P-UK	210317-002	Mar-17

Herewith we certify that the above instrument had been tested and adheres to the technical specifications listed in this document.

Environmental Conditions

Room Temperature (°C)	Relative Humidity (%)	Calibration Date
25	68	Mar-17

pH/Ion Parameters

Testing Item	Input		Tested			
	pH	mV	pH	mV (+)	mV (-)	
pH and mV measurements (58.165mV/pH @20°C)	1	0	1.001	0	0	
	2	200	2.000	200	200	
	3	400	3.000	400	400	
	4	600	4.000	600	600	
	5	800	5.001	800	800	
	6	1000	6.000	1000	1000	
	7	1200	7.000	1200	1200	
	8	1400	8.000	1400	1400	
	9	1600	9.000	1600	1600	
	10	1800	10.001	1800	1800	
	12	---	12.001			
	14	---	14.001			
	Impedance $1 \times 10^{12} \Omega$	✓				
	Temperature compensation	°C	mV	Tested		
0		379.377	7.000			
15		400.210	7.000			
30		421.044	7.000			
45		441.870	7.000			
60		462.711	7.000			
Testing with pH buffer	pH Buffer		Tested 1	Tested 2	Tested 3	Deviation
	4.01		4.009	4.008	4.010	0.002
	7.00		7.001	7.002	7.001	0.002
	10.01		10.010	10.012	10.012	0.002
Repeatability $< \pm 0.005 \text{pH}, \pm 1 \text{mV}$			✓			

Conductivity Parameters

Testing Item	Input	Criterion	Tolerance	Tested		
Resistance input	1 MΩ	1 μS/cm	0.99~1.01 μS/cm	1		
	100 KΩ	10 μS/cm	9.9~10.1 μS/cm	10		
	5.56 KΩ	180 μS/cm	179~181 μS/cm	180		
	8.33 KΩ	120 μS/cm	119~121 μS/cm	120		
	10 KΩ	100 μS/cm	99~101 μS/cm	100		
	20 KΩ	50 μS/cm	49~51 μS/cm	50		
	40 KΩ	25 μS/cm	24~26 μS/cm	25		
	1 KΩ	1 mS/cm	0.99~1.01 mS/cm	1		
	100 Ω	10 mS/cm	9.9~10.1 mS/cm	10		
Temperature coefficient			< ±0.08%/°C	✓		
Temperature compensation	0°C		±1 digit	✓		
	35°C			✓		
Testing with standard solutions	Conductivity Standard		±5 digit	Tested 1	Tested 2	Deviation
	84 μS/cm			84.0	84.2	0.2
	1413 μS/cm			1413	1412	1
	12.88 mS/cm			12.88	12.87	0.01
	111.8 mS/cm			111.7	111.6	0.1
Repeatability			< ±0.5%	✓		

Dissolved Oxygen Parameters

Testing Item	Criterion/Tolerance	Standards (mg/L)	Tested 1	Tested 2	Deviation
Air-saturated water	<ul style="list-style-type: none"> Calibration and measurement at the same temperature: ±0.2 mg/L Calibration and measurement is 10°C different: ±0.4 mg/L 	11.26 (@10°C)	11.27	11.26	0.01
		9.08 (@20°C)	9.08	9.07	0.01
		7.56 (@30°C)	7.57	7.56	0.01
Zero point	< 0.03 mg/L	✓			
Repeatability	< 0.1 mg/L	✓			
Response time	< 45 sec.	✓			

Others

Item	Tested
Clock	✓
Communication	✓
Keypad	✓
No scratches	✓
Color consistency	✓

Test criteria have been meet Yes No

Performed by Mark Xu Date Mar-17-2021

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CALIBRATION CERTIFICATE

Instrument	Serial Number	Production Date
900P-UK	210317-003	Mar-17

Herewith we certify that the above instrument had been tested and adheres to the technical specifications listed in this document.

Environmental Conditions

Room Temperature (°C)	Relative Humidity (%)	Calibration Date
25	68	Mar-17

pH/Ion Parameters

Testing Item	Input		Tested			
	pH	mV	pH	mV (+)	mV (-)	
pH and mV measurements (58.165mV/pH @20°C)	1	0	1.001	0	0	
	2	200	2.000	200	200	
	3	400	3.000	400	400	
	4	600	4.000	600	600	
	5	800	5.001	800	800	
	6	1000	6.000	1000	1000	
	7	1200	7.000	1200	1200	
	8	1400	8.000	1400	1400	
	9	1600	9.000	1600	1600	
	10	1800	10.001	1800	1800	
	12	---	12.001			
	14	---	14.001			
	Impedance $1 \times 10^{12} \Omega$	✓				
	Temperature compensation	°C	mV	Tested		
0		379.377	7.000			
15		400.210	7.000			
30		421.044	7.000			
45		441.870	7.000			
60		462.711	7.000			
Testing with pH buffer	pH Buffer		Tested 1	Tested 2	Tested 3	Deviation
	4.01		4.008	4.010	4.009	0.002
	7.00		7.002	7.000	7.001	0.002
	10.01		10.010	10.012	10.012	0.002
Repeatability $< \pm 0.005 \text{pH}, \pm 1 \text{mV}$			✓			

Conductivity Parameters

Testing Item	Input	Criterion	Tolerance	Tested		
Resistance input	1 MΩ	1 μS/cm	0.99~1.01 μS/cm	1		
	100 KΩ	10 μS/cm	9.9~10.1 μS/cm	10		
	5.56 KΩ	180 μS/cm	179~181 μS/cm	180		
	8.33 KΩ	120 μS/cm	119~121 μS/cm	121		
	10 KΩ	100 μS/cm	99~101 μS/cm	101		
	20 KΩ	50 μS/cm	49~51 μS/cm	50		
	40 KΩ	25 μS/cm	24~26 μS/cm	25		
	1 KΩ	1 mS/cm	0.99~1.01 mS/cm	1		
	100 Ω	10 mS/cm	9.9~10.1 mS/cm	10		
Temperature coefficient			< ±0.08%/°C	✓		
Temperature compensation	0°C		±1 digit	✓		
	35°C			✓		
Testing with standard solutions	Conductivity Standard		±5 digit	Tested 1	Tested 2	Deviation
	84 μS/cm			84.0	84.2	0.2
	1413 μS/cm			1413	1412	1
	12.88 mS/cm			12.88	12.87	0.01
	111.8 mS/cm			111.7	111.6	0.1
Repeatability			< ±0.5%	✓		

Dissolved Oxygen Parameters

Testing Item	Criterion/Tolerance	Standards (mg/L)	Tested 1	Tested 2	Deviation
Air-saturated water	<ul style="list-style-type: none"> Calibration and measurement at the same temperature: ±0.2 mg/L Calibration and measurement is 10°C different: ±0.4 mg/L 	11.26 (@10°C)	11.27	11.26	0.01
		9.08 (@20°C)	9.08	9.07	0.01
		7.56 (@30°C)	7.57	7.56	0.01
Zero point	< 0.03 mg/L	✓			
Repeatability	< 0.1 mg/L	✓			
Response time	< 45 sec.	✓			

Others

Item	Tested
Clock	✓
Communication	✓
Keypad	✓
No scratches	✓
Color consistency	✓

Test criteria have been meet Yes No

Performed by Mark Xu Date Mar-17-2021

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CALIBRATION CERTIFICATE

Instrument	Serial Number	Production Date
900P-UK	210317-004	Mar-17

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Environmental Conditions

Room Temperature (°C)	Relative Humidity (%)	Calibration Date
25	68	Mar-17

pH/Ion Parameters

Testing Item	Input		Tested			
	pH	mV	pH	mV (+)	mV (-)	
pH and mV measurements (58.165mV/pH @20°C)	1	0	1.001	0	0	
	2	200	2.000	200	200	
	3	400	3.000	400	400	
	4	600	4.000	600	600	
	5	800	5.001	800	800	
	6	1000	6.000	1000	1000	
	7	1200	7.000	1200	1200	
	8	1400	8.000	1400	1400	
	9	1600	9.000	1600	1600	
	10	1800	10.001	1800	1800	
	12	---	12.001			
	14	---	14.001			
	Impedance $1 \times 10^{12} \Omega$	✓				
	Temperature compensation	°C	mV	Tested		
0		379.377	7.000			
15		400.210	7.000			
30		421.044	7.000			
45		441.870	7.000			
60		462.711	7.000			
Testing with pH buffer	pH Buffer		Tested 1	Tested 2	Tested 3	Deviation
	4.01		4.008	4.010	4.010	0.002
	7.00		7.001	7.001	7.000	0.002
	10.01		10.012	10.011	10.011	0.002
Repeatability $< \pm 0.005 \text{pH}, \pm 1 \text{mV}$			✓			

Conductivity Parameters

Testing Item	Input	Criterion	Tolerance	Tested		
Resistance input	1 MΩ	1 μS/cm	0.99~1.01 μS/cm	1		
	100 KΩ	10 μS/cm	9.9~10.1 μS/cm	10		
	5.56 KΩ	180 μS/cm	179~181 μS/cm	180		
	8.33 KΩ	120 μS/cm	119~121 μS/cm	121		
	10 KΩ	100 μS/cm	99~101 μS/cm	101		
	20 KΩ	50 μS/cm	49~51 μS/cm	50		
	40 KΩ	25 μS/cm	24~26 μS/cm	25		
	1 KΩ	1 mS/cm	0.99~1.01 mS/cm	1		
	100 Ω	10 mS/cm	9.9~10.1 mS/cm	10		
Temperature coefficient			< ±0.08%/°C	✓		
Temperature compensation	0°C		±1 digit	✓		
	35°C			✓		
Testing with standard solutions	Conductivity Standard		±5 digit	Tested 1	Tested 2	Deviation
	84 μS/cm			84.0	84.0	0
	1413 μS/cm			1413	1412	1
	12.88 mS/cm			12.88	12.86	0.02
	111.8 mS/cm			111.7	111.6	0.1
Repeatability			< ±0.5%	✓		

Dissolved Oxygen Parameters

Testing Item	Criterion/Tolerance	Standards (mg/L)	Tested 1	Tested 2	Deviation
Air-saturated water	<ul style="list-style-type: none"> Calibration and measurement at the same temperature: ±0.2 mg/L Calibration and measurement is 10°C different: ±0.4 mg/L 	11.26 (@10°C)	11.27	11.26	0.01
		9.08 (@20°C)	9.06	9.07	0.02
		7.56 (@30°C)	7.57	7.56	0.01
Zero point	< 0.03 mg/L	✓			
Repeatability	< 0.1 mg/L	✓			
Response time	< 45 sec.	✓			

Others

Item	Tested
Clock	✓
Communication	✓
Keypad	✓
No scratches	✓
Color consistency	✓

Test criteria have been meet Yes No

Performed by Mark Xu Date Mar-17-2021

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CALIBRATION CERTIFICATE

Instrument	Serial Number	Production Date
900P-UK	210317-005	Mar-17

Herewith we certify that the above instrument had been tested and adheres to the technical specifications listed in this document.

Environmental Conditions

Room Temperature (°C)	Relative Humidity (%)	Calibration Date
25	68	Mar-17

pH/Ion Parameters

Testing Item	Input		Tested			
	pH	mV	pH	mV (+)	mV (-)	
pH and mV measurements (58.165mV/pH @20°C)	1	0	1.001	0	0	
	2	200	2.000	200	200	
	3	400	3.000	400	400	
	4	600	4.000	600	600	
	5	800	5.001	800	800	
	6	1000	6.000	1000	1000	
	7	1200	7.000	1200	1200	
	8	1400	8.000	1400	1400	
	9	1600	9.000	1600	1600	
	10	1800	10.001	1800	1800	
	12	---	12.001			
	14	---	14.001			
	Impedance $1 \times 10^{12} \Omega$	✓				
	Temperature compensation	°C	mV	Tested		
0		379.377	7.000			
15		400.210	7.000			
30		421.044	7.000			
45		441.870	7.000			
60		462.711	7.000			
Testing with pH buffer	pH Buffer		Tested 1	Tested 2	Tested 3	Deviation
	4.01		4.010	4.012	4.010	0.002
	7.00		7.001	7.001	7.002	0.002
	10.01		10.012	10.011	10.011	0.002
Repeatability $< \pm 0.005 \text{pH}, \pm 1 \text{mV}$			✓			

Conductivity Parameters

Testing Item	Input	Criterion	Tolerance	Tested		
Resistance input	1 MΩ	1 μS/cm	0.99~1.01 μS/cm	1		
	100 KΩ	10 μS/cm	9.9~10.1 μS/cm	10		
	5.56 KΩ	180 μS/cm	179~181 μS/cm	180		
	8.33 KΩ	120 μS/cm	119~121 μS/cm	121		
	10 KΩ	100 μS/cm	99~101 μS/cm	101		
	20 KΩ	50 μS/cm	49~51 μS/cm	50		
	40 KΩ	25 μS/cm	24~26 μS/cm	25		
	1 KΩ	1 mS/cm	0.99~1.01 mS/cm	1		
	100 Ω	10 mS/cm	9.9~10.1 mS/cm	10		
Temperature coefficient			< ±0.08%/°C	✓		
Temperature compensation	0°C		±1 digit	✓		
	35°C			✓		
Testing with standard solutions	Conductivity Standard		±5 digit	Tested 1	Tested 2	Deviation
	84 μS/cm			84.0	84.0	0
	1413 μS/cm			1413	1412	1
	12.88 mS/cm			12.88	12.86	0.02
	111.8 mS/cm			111.7	111.6	0.1
Repeatability			< ±0.5%	✓		

Dissolved Oxygen Parameters

Testing Item	Criterion/Tolerance	Standards (mg/L)	Tested 1	Tested 2	Deviation
Air-saturated water	<ul style="list-style-type: none"> Calibration and measurement at the same temperature: ±0.2 mg/L Calibration and measurement is 10°C different: ±0.4 mg/L 	11.26 (@10°C)	11.27	11.26	0.01
		9.08 (@20°C)	9.06	9.07	0.02
		7.56 (@30°C)	7.57	7.56	0.01
Zero point	< 0.03 mg/L	✓			
Repeatability	< 0.1 mg/L	✓			
Response time	< 45 sec.	✓			

Others

Item	Tested
Clock	✓
Communication	✓
Keypad	✓
No scratches	✓
Color consistency	✓

Test criteria have been meet Yes No

Performed by Mark Xu Date Mar-17-2021

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Certificate of Calibration

No: 2021001001

Customer Information

Richflood Laboratories Limited
No 4, Justice Chukwudifo Oputa Street,
Asokoro, Abuja.

Instrument Identification

Description: Buck Scientific AAS Model: ACCUSYS211 S/N: 1715

Standards/Equipment Used

Description	NIST Traceable Reference
Mercury lamp	OEM's test product
Copper lamp	OEM's test product
Manganese Lamp	OEM's test product

Certificate Information

Engineer: Gabriel Oweh Calibration Date: 30/01/2021 Calibration Due: 29/04/2022

Test Conditions:

Temperature: 24.5°C
Relative Humidity: 65.0%

Calibration Data

	Nominal Value	Measured Value	Tolerance	Error	Comments
Wavelength accuracy	253.7nm	253.8nm	±0.25nm	0.1	Passed
	871.6nm	871.5nm	±0.25nm	-0.1	Passed
Resolution	279.5nm	279.6nm	±0.3nm	0.1	Passed
	279.8nm	279.7nm	±0.3nm	-0.1	Passed
Baseline Stability	0.000A	0.003A	±0.005A	0.003	Passed

This instrument was calibrated using the OEM's test materials and methods. The calibration meets specifications as outlined in ISO9001, ISO/IEC17025, ANSI/NCSL Z540-1-1994 and applicable documents. The results contained herein relate only to the item calibrated.



Senator Adole
Quality Manager

Certificate of Calibration

No: 2021001008

Customer Information

Richflood Laboratories Limited
No 4, Justice Chukwudifo Oputa Street,
Asokoro, Abuja.

Instrument Identification

Description: Gallenkomp Incubator Model: DNP-9052-1A S/N: 36789

Standards/Equipment Used

Description	Serial No	Due Date	NIST Traceable Reference
Thermocouple Calibrator	633877	16/11/2024	1000271467

Certificate Information

Engineer: Gabriel Oweh Calibration Date: 30/04/2021 Calibration Due: 29/04/2022

Test Conditions:

Temperature: 25.5°C
Relative Humidity: 66.5%

Calibration Data Units: °C

Nominal Value	Measured Value	Tolerance	Error	Comments
25.0	25.3	±1.5	0.3	Passed
40.0	40.1	±1.5	0.1	Passed

This instrument was calibrated using a Thermocouple Calibrator traceable to National Institute of Standards and Technology, NIST. The calibration meets specifications as outlined in ISO9001, ISO/IEC17025, ANSI/NCSL Z540-1-1994 and applicable documents. The results contained herein relate only to the item calibrated.



Senator Adole
QC Manager



Flat 3, Isang Estate, Opposite Atali Junction,
Atali,
Port Harcourt,
Rivers State
Tel: 08099834111,
07057832842
Email: info@apex-ng.com,
apexanalyticsltd@gmail.com

MEMORANDUM OF UNDERSTANDING (MOU)

BETWEEN

APEX ANALYTICS LIMITED

AND

RICHFLOOD LABORATORIES LIMITED

This Memorandum of Understanding (MOU) is made on the **30th day of April, 2021**.

Between

APEX ANALYTICS LIMITED (**AAL**) whose office address is Flat 3, Isang Estate, Opposite Atali Junction, Port Harcourt Nigeria.

And

RICHFLOOD LABORATORIES LIMITED (**RICHFLOOD**) whose office address is No 4, Justice Chukwudifo Oputa Street, Asokoro, Abuja.

Here collectively referred to as 'the Parties'.

A. RECITALS

- 1) **WHEREAS**, RICHFLOOD LABORATORIES LIMITED provides ANALYTICAL LABORATORY SERVICES.
AND
- 2) **WHEREAS**, APEX ANALYTICS LIMITED provides INSTRUMENT PRE-PURCHASE SERVICES, TECHNICAL SUPPORT SERVICES, INSTRUMENT POST-PURCHASE SERVICES, TRAINING & EDUCATION SERVICES, CONSULTING SERVICES AND COMPLIANCE SERVICES.

NOW, THEREFORE, In consideration of the foregoing recitals, the agreements hereinafter set forth, and other good and valuable consideration, the receipt and sufficiency of which each of 'the parties' hereto acknowledge and hereby agree to the following Memorandum of Understanding (MoU).

B. THE MOU

AAL agree to use their best efforts, skill, technology and abilities to aid **RICHFLOOD** in improving the overall quality of data generated in their laboratories.

AAL will accomplish the intended in this MOU as detailed as follows:

- i. Conduct trainings on instrument operation and maintenance
- ii. Instrument calibration and performance validation for compliance with regulatory requirement and international standards
- iii. Instrument configuration, sizing and instrument / application compatibility.
- iv. Instrument installation and user training.
- v. Instrument Repairs and recalibration

RICHFLOOD will pay AAL for the aforementioned services at rates and prices mutually agreed by both PARTIES

Terms

The Parties enter into this MOU while wishing to maintain their own separate and unique missions and mandates, and their own accountabilities. Any cooperation among the Parties as outlined in this MOU shall not be construed as partnership or other type of legal entity. However, both parties may agree to collaborate on other areas of interest at future date.

However, the Parties recognize that peculiar operational challenges may arise. In such cases, the Parties may, upon mutual consent expressed in writing these challenges, which the other party should acknowledge.

All activities related to this MOU will be carried out in keeping with the applicable laws, statutes and regulations in effect in Nigeria.

1) Commencement and Validity

The term of this MOU takes effect upon the signature of APEX ANALYTICS LIMITED (AAL) and RICHFLOOD LABORATORIES LIMITED and shall remain valid For 12 months from date of execution unless amended or terminated as set forth herein.

This MoU may be renewed, amended or terminated upon written request of either AAL or RICHFLOOD and the subsequent written



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apexanalyticsltd@gmail.com

concurrences of the other, in any case a notice of thirty (30) days should be given.

IN WITNESS WHEREOF, the Parties hereto have set their hands and seal on the day and year written below; thereby have executed this MOU.

For and on behalf of;

For and on behalf of;

**APEX ANALYTICS LIMITED
LIMITED**

RICHFLOOD LABORATORIES

Name: MICHAEL OCHOCHÉ

Name: PRINCE IJIOMA

Title: DIRECTOR

Title: CHIEF OPERATING OFFICER

Sign & Date:

Michael Ochoche
30/04/2021
APEX ANALYTICS
LIMITED
DATE _____

Sign & Date:

Certificate of Calibration

No: 2021001009

Customer Information

Richflood Laboratories Limited
No 4, Justice Chukwudifo Oputa Street,
Asokoro, Abuja.

Instrument Identification

Description: Hanna Multiparameter/COD Model: HI 83399 S/N: ACA 0217031

Standards/Equipment Used

Description	Serial No	Due Date	NIST Traceable Reference
Hanna HI 931001 pH Calibrator	08323909	NA	OEM's Test Material
Conductivity Standard	HI7031L 1530	08/05/2023	SRM 999Zero
Sealed Formazin Standards	A4142	N/A	OEM standard Material

Certificate Information

Engineer: Gabriel Oweh Calibration Date: 30/04/2021 Calibration Due: 29/04/2022

Test Conditions:

Temperature: 25.0°C
Relative Humidity: 64.0%

Calibration Data

Parameter	Nominal Value	Measured value	Tolerance	Error	Comments
pH	7.0	7.0	±0.1	0.0	Passed
COD	100mg/L	102.0	±5.0	2.0	Passed
	1200mg/L	1194mg/L	±15	-4.0	Passed
Nitrate	5.0mg/L	5.1mg/L	±0.5	-0.1	Passed
	10.0mg/L	10.2mg/L	±0.5	0.2	Passed
DO	5.0mg/L	5.2mg/L	±0.4	0.2	Passed

This instrument was calibrated using a pH Calibrator, DO, COD standards and Nitrate standard traceable to National Institute of Standards and Technology, NIST. The calibration meets specifications as outlined in ISO9001, ISO/IEC17025, ANSI/NCSL Z540-1-1994 and applicable documents. The results contained herein relate only to the item calibrated.



Senator Adole
Lab Manager

Certificate of Calibration

No: 2021001006

Customer Information

Richflood Laboratories Limited
No 4, Justice Chukwudifo Oputa Street,
Asokoro, Abuja.

Instrument Identification

Description: Exttech Noise Meter Model: 407730 Serial No: 10325001

Standards/Equipment Used

Description	Serial No	Due Date	NIST Traceable Reference
Exttech Sound Calibrators	140301704	NA	OEM Test Material

Certificate Information

Engineer: Gabriel Oweh Calibration Date: 30/04/2021 Calibration Due: 29/04/2022

Test Conditions:

Temperature: 24.0°C
Relative Humidity: 65.5%

Calibration Data

Nominal Value	Measured Value	Tolerance	Error	Comments
94.00dB	94.03	±0.15	0.03	Passed
104.00 dB	104.04	±0.30	0.04	Passed

This instrument was calibrated using a standard dual acoustical calibrator traceable to NIST. The calibration meets specifications as outlined in ISO9001, ISO/IEC17025, ANSI/NCSL Z540-1-1994 and applicable documents. The results contained herein relate only to the item calibrated.



Senator Adole
QC Manager

Certificate of Calibration

No: 2021001007

Customer Information

Richflood Laboratories Limited
No 4, Justice Chukwudifo Oputa Street,
Asokoro, Abuja.

Instrument Identification

Description: Exttech Noise Meter Model: 407730 Serial No: 10325006

Standards/Equipment Used

Description	Serial No	Due Date	NIST Traceable Reference
Exttech Sound Calibrators	140301704	NA	OEM Test Material

Certificate Information

Engineer: Gabriel Oweh Calibration Date: 30/04/2021 Calibration Due: 29/04/2022

Test Conditions:

Temperature: 24.0°C
Relative Humidity: 65.5%

Calibration Data

Nominal Value	Measured Value	Tolerance	Error	Comments
94.00dB	94.04	±0.15	0.04	Passed
104.00 dB	103.98	±0.30	-0.02	Passed

This instrument was calibrated using a standard dual acoustical calibrator traceable to NIST. The calibration meets specifications as outlined in ISO9001, ISO/IEC17025, ANSI/NCSL Z540-1-1994 and applicable documents. The results contained herein relate only to the item calibrated.



Senator Adole
QC Manager

Certificate of Calibration

No: 2021001005

Customer Information

Richflood Laboratories Limited
No 4, Justice Chukwudifo Oputa Street,
Asokoro, Abuja.

Instrument Identification

Description: Exttech Noise Meter Model: 407730 Serial No: 10325007

Standards/Equipment Used

Description	Serial No	Due Date	NIST Traceable Reference
Exttech Sound Calibrators	140301704	NA	OEM Test Material

Certificate Information

Engineer: Gabriel Oweh Calibration Date: 30/04/2021 Calibration Due: 29/04/2022

Test Conditions:

Temperature: 24.5°C
Relative Humidity: 65.5%

Calibration Data

Nominal Value	Measured Value	Tolerance	Error	Comments
94.00dB	94.05	±0.15	0.05	Passed
104.00 dB	104.02	±0.30	0.02	Passed

This instrument was calibrated using a standard dual acoustical calibrator traceable to NIST. The calibration meets specifications as outlined in ISO9001, ISO/IEC17025, ANSI/NCSL Z540-1-1994 and applicable documents. The results contained herein relate only to the item calibrated.



Senator Adole
QC Manager

Certificate of Calibration

No: 2021001004

Customer Information

Richflood Laboratories Limited
No 4, Justice Chukwudifo Oputa Street,
Asokoro, Abuja.

Instrument Identification

Description: Hanna Turbidity Meter Model: HI 93414 Serial No: E0090545

Standards/Equipment Used

Description	Serial No	Due Date	Traceable Reference
Sealed Formazin Standards	A4142	N/A	OEM standard Material

Certificate Information

Engineer: Gabriel Oweh Calibration Date: 30/04/2021 Calibration Due: 29/04/2022

Test Conditions:

Temperature: 25.5°C
Relative Humidity: 64.5%

Calibration Data

Nominal Value	Measured Value	Tolerance	Error	Comments
10.0NTU	10.2	±0.5	0.2	Passed
40.0NTU	40.4	±2.0	0.4	Passed
400.0NTU	400.5	±2.0	0.5	Passed
Chlorine (0.50ppm)	0.50	0.01	0.0	Passed

This instrument was calibrated using Formazin primary turbidity standards and free chlorine as specified in USEPA Guidelines and Method 180.1 (1979). The calibration meets specifications as outlined in ISO9001, ISO/IEC17025, ANSI/NCSL Z540-1-1994 and applicable documents. The results contained herein relate only to the item calibrated.



Senate Adole
QC Manager

Certificate of Calibration

No: 2021001002

Customer Information

Richflood Laboratories Limited
No 4, Justice Chukwudifo Oputa Street,
Asokoro, Abuja.

Instrument Identification

Description: Hach UV Spectrophotometer Model: DR6000 Serial No: 1618996

Standards/Equipment Used

Description	Serial No	Due Date	NIST Traceable Reference
Holmium Oxide Filter	F05A06	N/A	38050C
Didymium Glass Filter	M12A13	N/A	38051C

Certificate Information

Engineer: Gabriel Oweh Calibration Date: 30/04/2021 Calibration Due: 29/04/2022

Test Conditions:

Temperature: 24.5°C
Relative Humidity: 65.0%

Calibration Data

Nominal Value	Measured Value	Tolerance	Error	Comments
360.8nm	360.7nm	±0.2	-0.1	Passed
459.9nm	460.0nm	±0.2	0.0	Passed
637.5nm	637.5nm	±0.2	0.0	Passed

This instrument was calibrated using Holmium oxide and Didymium glass filters which are traceable to National Institute of Standards and Technology, NIST by self-declaration following procedures prescribed in NIST publication in the Journal of Research of NIST, December 2007. The calibration meets specifications as outlined in ISO9001, ISO/IEC17025, ANSI/NCSL Z540-1-1994 and applicable documents. The results contained herein relate only to the item calibrated.



Senator Adole
QC Manager

Certificate of Calibration

No: 2021001003

Customer Information

Richflood Laboratories Limited
No 4, Justice Chukwudifo Oputa Street,
Asokoro, Abuja.

Instrument Identification

Description: Medifield Electronic Weighing Balance. Model: MF 500 S/N: 1108495

Standards/Equipment Used

Description	Serial No	Due Date	NIST Traceable Reference
Standard weight set	52999	N/A	ANSI/ASTM Class 7

Certificate Information

Engineer: Gabriel Oweh Calibration Date: 30/04/2021 Calibration Due: 29/04/2022

Test Conditions:

Temperature: 24.5°C
Relative Humidity: 65.0%

Calibration Data

Nominal Value	Measured Value	Tolerance	Error	Comments
0.1000g	0.1030g	±0.0050	0.0030	Passed
1.0000g	1.0030g	±0.0050	0.0030	Passed
10.0000g	9.9997g	±0.0050	-0.0003	Passed
100.0000g	100.0255g	±0.1000	0.0745	Passed

This instrument was calibrated using mass standards traceable to National Institute of Standards and Technology, NIST. The calibration meets specifications as outlined in ISO9001, ISO/IEC17025, ANSI/NCSLZ540-1-1994 and applicable documents. The results contained herein relate only to the item calibrated.



Senator Adole
QC Manager