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CERTIFICATE OF ANALYSIS

{Institute of Public Analysts of Nigeria, IPAN ACT.1.16 LFN 2004 (formerly Decree 100 OF 1992)}

Sample Identification: 10030/MH1/05//061

Certificate No.: 20943

Version No.: 01

**INDIAN LANGUAGE SCHOOL (SENIOR SCHOOL). 14/16, OBANLE ARO STREET, ILUPEJU,
LAGOS.**

I, Morphy Ugar Ifu, the undersigned Public Analyst (No. 00728) of Tetras Environmental and Scientific Services, IPAN Registration No. 0021, do certify that on the **16/05/2025**, a sample (**TESS/QMS/SAMPLI//012**) labeled **R.O Water** measuring 150cl was received by me for physicochemical and microbiological analysis. The said sample was examined by me, or under my direction while in the same condition as received by me. The outcome is as follows:

Name of Sample	R.O Water		
Sample Matrix	Colourless, odourless liquid in plastic bottle and cover		
Sample Identification Number	10030/MH1/05//061	Production Date	Not Stated
Batch/Code Number	Not Stated	Best Before/Expiry Date	Not Stated
Packaging	Plastic bottle and cover	Environmental Condition	Hum. (51%), Temp. (26.9°C)
Date of Completion of Analysis	23/05/2025	Manufacturer	Not Stated

PHYSICOCHEMICAL ANALYSIS			
Test Performed/Unit	Result	Standard NIS977:2017	Test Method
Temperature, °C	25.6	Ambient	2550B APHA
Colour, TCU	ND	3.0	2120C APHA
Odour	Unobj.	Unobj.	Organoleptic
Taste	Unobj.	Unobj.	Organoleptic
Electrical Conductivity, µS/cm	201.00	1000	2510B APHA
Turbidity, NTU	ND	5.0	2130B APHA
pH @ 25°C	6.50	6.5-8.5	4500-H ⁺ B APHA
Total Dissolved Solids, mg/l (max)	130.65	500	2540C APHA
Total Solids, mg/l	136.65	NS	2540B APHA
Suspended Solids, mg/l	6.00	NS	2540D APHA
Total Hardness EDTA, mgCaCO ₃ /l (max)	12.42	100	2340C APHA
Calcium Hardness EDTA, mgCaCO ₃ /l	11.96	NS	3500-CaB APHA
Magnesium Hardness EDTA, mgCaCO ₃ /l	1.26	NS	3500-MgB APHA
Phenolphthalein Alkalinity, mgCaCO ₃ /l	ND	NS	2320B APHA
Total Alkalinity, mgCaCO ₃ /l	4.68	NS	2320B APHA
Total Acidity, mgCaCO ₃ /l	21.70	NS	2310B APHA
Cyanide, mg/l (max)	ND	0.01	4500-CND APHA
Free Residual Chlorine, mg/l (max)	ND	0.2	2120C APHA
Free Carbon Dioxide, mg/l	20.46	NS	4500-CO ₂ C APIA
Ammoniacal Nitrogen, mg/l	ND	NS	4500-NH ₃ C APIA
Chloride, mg/l (max)	20.63	100	4500-Cl ⁻ B APHA
Nitrate, mg/l (max)	7.02	10	4500-NO ₃ ⁻ B APHA
Nitrite, mg/l (max)	ND	0.02	4500-NO ₂ ⁻ B APHA
Phosphate, mg/l	1.76	NS	4500-PC APIA
Sulphate, mg/l (max)	5.00	100	4500-SO ₄ ²⁻ D APHA
Silica, mg/l	0.90	NS	4500-SiO ₂ C APIA
Zinc, mg/l (max)	0.06	5.0	AOAC 985.16
Cadmium, mg/l (max)	ND	0.003	AOAC 974.27
Copper, mg/l (max)	0.05	1.0	AOAC 974.27
Iron, mg/l (max)	0.11	0.3	3500-FeB APHA
Lead, mg/l (max)	ND	0.01	AOAC 986.15
Chromium(Hexavalent), mg/l (max)	ND	0.01	AOAC 977.22
Manganese, mg/l (max)	ND	0.1	AOAC 977.22

MICROBIOLOGICAL ANALYSIS			
Microbial Group/Unit	Result	Standard NIS977:2017	Test Method
Aerobic Plate Count, cfu/ml	7	NS	AOAC 966.23
Coliform, cfu/ml	0	0	9221B APHA
E. coli, cfu/ml	0	0	9221B APHA
Faecal Streptococci, cfu/ml	0	0	IDM
Mould and Yeast, cfu/ml	0	0	AOAC 995.21
Staphylococcus aureus, cfu/ml	0	NS	AOAC 975.55
Clostridium perfringens, cfu/ml	0	0	AOAC 976.30
Salmonella spp., cfu/ml	0	NS	AOAC 967.26
Shigella spp., cfu/ml	0	NS	ISO 21567
Vibrio spp., cfu/ml	0	NS	9260H APHA
Pseudomonas aeruginosa, cfu/ml	0	0	9213E APHA

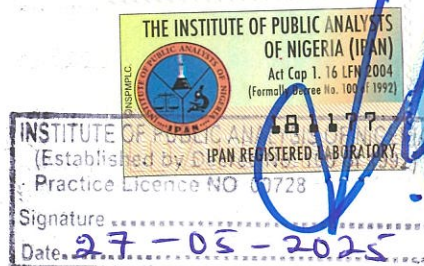
NOTES ON ABBREVIATIONS

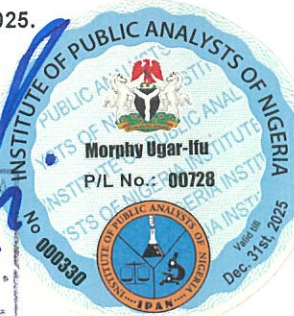
NIS = Nigerian Industrial Standard
 Unobj. = Unobjectionable
 ND = Not Detected
 0 Count = No Growth
 NS = Not Specified
 CfU/ml = Colony forming unit per millilitre
 IDM = In-house Developed Method

COMMENT

The physicochemical and microbiological quality of the R.O water sample is satisfactory.
Hence, the R.O water sample is certified fit for use.

As witness my hand this 27th May, 2025.


THE INSTITUTE OF PUBLIC ANALYSTS OF NIGERIA (IPAN)
 Act Cap 1. 16 LFN 2004
 (Formerly Decree No. 100 of 1992)
INSTITUTE OF PUBLIC ANALYSTS OF NIGERIA (IPAN)
 (Established by IPAN REGISTERED LABORATORY)
 Practice Licence NO 00728
 Signature _____
 Date: **27-05-2025**


INSTITUTE OF PUBLIC ANALYSTS OF NIGERIA
 Public Analyst
Morphy Ugar Ifu
 P/L No.: **00728**
 No 000330
 Dec 31st 2025

This test report is issued according to the requirements of ISO/IEC 17025:2017 standard, accreditation body (IPAN) and traceability to SI units. This report cannot be reproduced except by written approval of the lab director.

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CERTIFICATE OF ANALYSIS

{Institute of Public Analysts of Nigeria, IPAN ACT.I.16 LFN 2004 (formerly Decree 100 Of 1992)}

Sample Identification: 10030/MH1/05//060

Certificate No.: 20942

Version No.: 01

INDIAN LANGUAGE SCHOOL (JUNIOR SCHOOL). 8, OREMEJI STREET, ILUPEJU, LAGOS.

I, Morphy Ugar Ifu, the undersigned Public Analyst (No. 00728) of Tetras Environmental and Scientific Services, IPAN Registration No. 0021, do certify that on the **16/05/2025**, a sample (TESS/QMS/SAMPLI//012) labeled **R.O Water** measuring 150cl was received by me for physicochemical and microbiological analysis. The said sample was examined by me, or under my direction while in the same condition as received by me. The outcome is as follows:

Name of Sample	R.O Water
Sample Matrix	Colourless, odourless liquid in plastic bottle and cover
Sample Identification Number	10030/MH1/05//060
Batch/Code Number	Not Stated
Packaging	Plastic bottle and cover
Date of Completion of Analysis	23/05/2025
Production Date	Not Stated
Best Before/Expiry Date	Not Stated
Environmental Condition	Hum. (51%), Temp. (26.9°C)
Manufacturer	Not Stated

PHYSICOCHEMICAL ANALYSIS			
Test Performed/Unit	Result	Standard NIS977:2017	Test Method
Temperature, °C	25.3	Ambient	2550B APHA
Colour, TCU	ND	3.0	2120C APHA
Odour	Unobj.	Unobj.	Organoleptic
Taste	Unobj.	Unobj.	Organoleptic
Electrical Conductivity, µS/cm	38.00	1000	2510B APHA
Turbidity, NTU	ND	5.0	2130B APHA
pH @ 25°C	6.57	6.5-8.5	4500-H ⁺ B APHA
Total Dissolved Solids, mg/l (max)	25.84	500	2540C APHA
Total Solids, mg/l	29.94	NS	2540B APHA
Suspended Solids, mg/l	4.10	NS	2540D APHA
Total Hardness EDTA, mgCaCO ₃ /l (max)	2.30	100	2340C APHA
Calcium Hardness EDTA, mgCaCO ₃ /l	1.84	NS	3500-CaB APHA
Magnesium Hardness EDTA, mgCaCO ₃ /l	0.46	NS	3500-MgB APHA
Phenolphthalein Alkalinity, mgCaCO ₃ /l	ND	NS	2320B APHA
Total Alkalinity, mgCaCO ₃ /l	5.85	NS	2320B APHA
Total Acidity, mgCaCO ₃ /l	18.33	NS	2310B APHA
Cyanide, mg/l (max)	ND	0.01	4500-CN'D APHA
Free Residual Chlorine, mg/l (max)	3.96	0.2	2120C APHA
Free Carbon Dioxide, mg/l	3.96	NS	4500-CO ₂ C APHA
Ammoniacal Nitrogen, mg/l	ND	NS	4500-NH ₃ C APHA
Chloride, mg/l (max)	6.88	100	4500-Cl'B APHA
Nitrate, mg/l (max)	5.27	10	4500-NO ₃ B APHA
Nitrite, mg/l (max)	ND	0.02	4500-NO ₂ B APHA
Phosphate, mg/l	0.70	NS	4500-PC APHA
Sulphate, mg/l (max)	3.50	100	4500-SO ₄ D APHA
Silica, mg/l	0.62	NS	4500-SiO ₂ C APHA
Zinc, mg/l (max)	0.04	5.0	AOAC 985.16
Cadmium, mg/l (max)	ND	0.003	AOAC 974.27
Copper, mg/l (max)	0.02	1.0	AOAC 974.27
Iron, mg/l (max)	ND	0.3	3500-FeB APHA
Lead, mg/l (max)	ND	0.01	AOAC 986.15
Chromium (Hexavalent), mg/l (max)	ND	0.01	AOAC 977.22
Manganese, mg/l (max)	ND	0.1	AOAC 977.22

MICROBIOLOGICAL ANALYSIS			
Microbial Group/Unit	Result	Standard NIS977:2017	Test Method
Aerobic Plate Count, cfu/ml	4	NS	AOAC 966.23
Coliform, cfu/ml	0	0	9221B APHA
E. coli, cfu/ml	0	0	9221B APHA
Faecal Streptococci, cfu/ml	0	0	IDM
Mould and Yeast, cfu/ml	0	0	AOAC 995.21
Staphylococcus aureus, cfu/ml	0	NS	AOAC 975.55
Clostridium perfringens, cfu/ml	0	0	AOAC 976.30
Salmonella spp., cfu/ml	0	NS	AOAC 967.26
Shigella spp., cfu/ml	0	NS	ISO 21567
Vibrio spp., cfu/ml	0	NS	9260H APHA
Pseudomonas aeruginosa, cfu/ml	0	0	9213E APHA

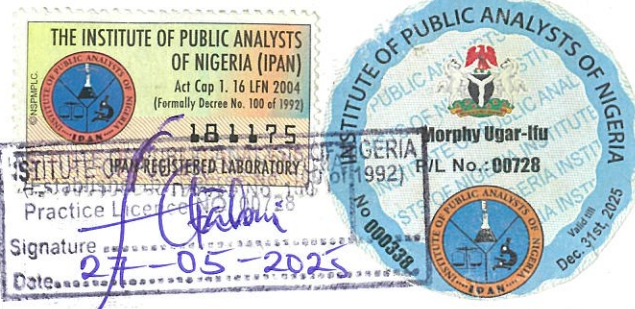
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COMMENT

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