

PROFESSOR J. U. IYASELE

CHEMISTRY DEPARTMENT
UNIVERSITY OF BENIN
BENIN CITY, NIGERIA

Our Ref: IJU/08033883005/TR/01/2024,

Date: August 03 2024

ANALYST'S CERTIFICATE

IN ACCORDANCE WITH THE INSTITUTE OF PUBLIC ANALYST OF NIGERIA DECREE NO. 100 OF 1992

CERTIFICATE NUMBER:00140

The HoD,
Mechanical Engineering
Faculty of Engineering, University of Benin
Benin City Edo State
Dear Sir/Madam,

RE: ANALYSIS OF MECHANICAL ENGINEERING TREATED WATER

I, the undersigned registered Analyst, certificate number 00140 do here certify that on July 24, 2024, samples of your water was submitted to me by you for analysis. The said sample, when in the same condition as received by me was analyzed/examined by me or under my direction. My findings are stated hereunder

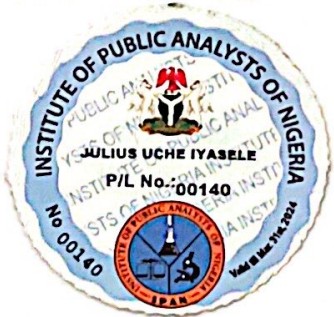
PHYSICO CHEMICAL ANALYSIS		
Parameter, Unit	Limit, N.I.S. STD	Result
Temperature °C	Ambient	Ambient
Colour, TCU	3.0	Colourless
Odour	Odourless	Odourless
Taste	Tasteless	Tasteless
pH	6.5-8.5	7.02
Turbidity, NTU	5	0.00
Conductivity, uS/cm	1000	118.70
TDS, mg/l	500	65.29
Hydrocarbon, "	0.0002	Nil
Benzene"	0.002	Nil
Sodium"	100	0.56
Nitrate, "	10.00	0.02
Nitrite	0.10	0.00
Sulphate, "	100	2.10

Hardness, CaCO ₃	100	14.00
H ₂ S	0.01	Nil
Detergents	0.01	Nil
Iron, "	0.30	0.01
Fluoride"	1.00	Nil
Chloride, "	100.00	1.26
Magnesium, "	0.20	0.00
Manganese"	0.05	Nil
Zinc, "	5.00	0.33
Lead, "	0.01	Nil
Cadmium, "	0.003	Nil
Mercury, "	0.003	Nil
Barium	0.05	Nil
Cyanide as CN	0.01	Nil
Potassium"	100.00	0.30
Copper"	1.00	0.30

MICROBIOLOGY

Parameter, Unit	Limit	Result
Coliform, 100cfu/ml	Nil	Nil
Feacal Streptococci, "	"	"
Specific E. Coli, "	"	"
Yeast after 5 days	"	"
Moulds after 5 days	"	Nil

Comment: Your water sample meets NIS standard for potable water.
As witness my hand this day August 03, 2024



Official stamp and signature of Julius Uche Iyasele. The stamp is circular with the text 'JULIUS U. IYASELE' and 'SIGNATURE'. The date '03/08/2024' is handwritten over the stamp.

J. U. Iyasele Ph.D.

Professor, Public Analyst, Product Formulator, T. Chem