

ANALYST'S CERTIFICATE

No.8996

IN ACCORDANCE WITH INSTITUTE OF PUBLIC ANALYSTS OF NIGERIA

DECREE NO. 100 OF 1992

I DINEBARI GBORO VITE, Registered Public Analyst **No. 00479** certify that on the 14th day of July 2021 a Sample of Treated Water was analysed/examined by me.

My findings are stated hereunder:

SAMPLE: Treated Water

SAMPLE ID: Base 1

CLIENT: Elshcon Nigeria Limited

CLIENT'S ADDRESS: Woji, Port Harcourt, Rivers State

PHYSICO-CHEMICAL ANALYSIS

S/NO	PARAMETER	LABORATORY RESULT	EXPECTED WHO STANDARD	REMARK
1	General Appearance	Clear	Clear	WL
2	Odour	Unobjectionable	Unobjectionable	WL
3	Taste	Unobjectionable	Unobjectionable	WL
4	Colour (Hazen Units)	1.00	15 max	WL
5	pH@25°C	6.70	6.5 – 8.5	WL
6	Conductivity (uS/cm)	44.00	1000 max	WL
7	Turbidity (NTU)	<1.00	5 max	WL
8	Total Hardness (mg/L)	18.20	100 max	WL
9	Total Alkalinity (mg/L)	17.15	200max	WL
10	Chloride (mg/L)	12.05	250max	WL
11	Total Suspended Solids (mg/L)	0.00	30max	WL
12	Total Dissolved Solids (mg/L)	21.00	500max	WL
13	Total Solids (mg/L)	21.00	500max	WL
14	Nitrate (mg/L)	1.60	10max	WL
15	Sulphate (mg/L)	2.35	250max	WL
16	Calcium (mg/L)	1.05	70mg/L	WL

17	Magnesium (mg/L)	2.08	30max	WL
18	Total Iron (mg/L)	0.01	0.3max	WL
19	Lead (mg/L)	0.001	0.01max	WL
20	Copper (mg/L)	0.35	1.0max	WL

MICROBIOLOGICAL QUALITY

S/NO	PARAMETER	LABORATORY RESULT	EXPECTED WHO STANDARD	REMARK
1	Aerobic Mesophilic Bacteria (cfu/mL)	0.20×10^2	100 max	WL
2	Total Coliform (mpn/100mL)	0.00	0 max	WL
3	<i>E. coli</i> (cfu/mL)	0.00	0 max	WL
4	<i>Salmonella spp</i> (cfu/mL)	0.00	0 max	WL

WL = Within the limit of specification

OL= Out of the Limit of Specification

COMMENT:

This Sample of Raw (Borehole) Water under the same condition delivered to me conforms with WHO specification for Potable Water in all the parameters tested.

This Certificate subsists for six (6) months from the date of issue.

As witness my hand this 14th day of July, 2021.

SIGNATURE OF PUBLIC ANALYST

INSTITUTE OF PUBLIC ANALYSTS OF NIGERIA	
Established by Decree No. 106 of 1992	
Practice Licence No. 00479	
Signature	<i>[Signature]</i>
Date	14/07/21