



**Environmental Research Laboratory**  
**Department of Environmental Engineering**  
**NED University of Engineering & Technology**



The Department of Environmental Engineering provides a network of analytical laboratory services to a wide range of enterprises, government institutions, researchers and industrial customers. All tests are conducted according to recognized American Society for Testing and Materials (ASTM) standards. The Environmental Research Laboratory has been certified by Sindh Environmental Protection Agency (SEPA).

S. No.	Testing Parameter
<b><i>Drinking Water Quality Analysis</i></b>	
1	Total Dissolved Solids (TDS)
2	pH
3	Turbidity
4	Calcium
5	Chloride
6	Magnesium
7	Sulphate
8	Sodium
9	Potassium
10	Nitrite
11	Chlorine
12	Hardness
13	Total Coliform (MPN)
14	Fecal Coliform (MPN)
15	<i>E. coli</i>
16	Heterotrophic plate count
17	Total viable count at 22 °C
18	Total viable count at 37 °C
19	Enterococci count ( <i>Streptococcus</i> )
20	<i>Pseudomonas aeruginosa</i>
<b><i>Wastewater Analysis</i></b>	
21	pH
22	DO (Dissolved Oxygen)
23	TSS (Total Suspended Solids)
24	Turbidity (NTU)
25	Electrical Conductivity (EC)
26	Mixed Liquor Volatile Suspended Solids
27	Total Solids (TS)

28	Settleable solids
29	Oil and Grease Concentration
30	Biochemical Oxygen Demand (BOD <sub>5</sub> )
31	Chemical Oxygen Demand (COD)
32	Chlorine
33	Alkalinity
34	Hardness
35	Ammonia Nitrogen
36	Ortho Phosphate
<b><i>Liquid Petroleum Products (Oil and Fuels)</i></b>	
37	Density and Specific Gravity
38	Kinematic Viscosity
39	Cold Filter Plugging Point
40	Cloud Point
41	Pour Point
42	Flash point
43	pH
44	Free Fatty Acid and Acid value
<b><i>Coal and Biomass Analysis</i></b>	
45	Proximate Analysis (Moisture Content, Volatile Matter, Ash Content and Fixed Carbon)
46	Ultimate Analysis (C, H, N, S and O)
47	Calorific value by calculation
48	Lignocellulosic biomass analysis (cellulose, hemicellulose and lignin)
<b><i>Noise Level Testing</i></b>	
49	Noise level
<b><i>Air Pollution Testing</i></b>	
50	Ambient air quality
51	Flue gas analysis (O <sub>2</sub> , CO, CO <sub>2</sub> , NO, NO <sub>2</sub> , SO <sub>2</sub> , H <sub>2</sub> S and HC gases)

**Note:**

- All charges are for the testing results only. Interpretation or analysis of results may be charged extra.
- The testing charges payable in the name of '**Commercial Testing & Other Related Services at NEDUET D. CPL**', A/C No. **06-99-72-29314-714-194339, Habib Metro Bank Limited, University Road Branch, Karachi.**

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