

# Chemical Analysis of Drinking Water from Some Communities in Coimbatore

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**Abstract:** *Drinking water parameters would state that assessing the quality of drinking water involves analyzing various physical, chemical and biological parameters such as pH, conductivity, Total dissolved solids (TDS), hardness, alkalinity, dissolved oxygen, turbidity, nitrate, chloride and sulphide etc. Which are crucial for ensuring the water is safe for consumption and meets established health standards, with deviation from these parameters potentially indicating contamination and posing health risk. Data were collected using a cross - sectional research design for a household survey, and water quality samples were collected from improved and unimproved alternative sources. The result shows that esthetic water quality parameters had a potential interpretation of water quality as of the laboratory analysis. Finally, there suggests that due consideration of esthetic factors as measured parameters is fundamental for the sustainable use of drinking water infrastructures.*

**Keywords:** Ultra violet spectroscopy analysis