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### Determination of Physico-Chemical Parameters and Microbiological Analysis of Potable Water in Industrial City of Faridabad, (Haryana), India

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#### ABSTRACT

Faridabad is an old industrial city of Haryana. It is a part of National Capital Region (NCR). The physico-chemical characteristics of potable water samples collected from various sites of Faridabad were assessed. The physical and chemical parameters like temperature, pH, Dissolved Oxygen (DO), Biochemical Oxygen Demand (BOD), Total Dissolved Solids (TDS), Total Suspended Solids (TSS), Total Hardness, Alkalinity, Potassium ( $K^+$ ), Sodium ( $Na^+$ ), Fluoride (F), Nitrate ( $NO_3^-$ ), Chloride (Cl) and Sulfate ( $SO_4^{2-}$ ) were studied. The water samples were analyzed for the presence of faecal coliform bacteria namely: *Escherichia coli* (E.coli), *salmonella*, *Pseudomonas aeruginosa* and *Staphylococcus aureus*. Total coliform bacteria present in potable water samples was also determined.

**Keywords:** Potable water, physico-chemical parameters, Faridabad, NCR (National Capital Region).

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