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## Groundwater Quality Analysis of Safidon and Julana Blocks of District Jind, Haryana, India

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### ABSTRACT

We present an extensive investigation of physico-chemical parameters of water samples of Julana and Safidon blocks of District Jind, Haryana, India. Water samples were collected from different localities in cleaned polythene bottles and were analyzed for the different physico-chemical parameters like pH, electrical conductivity, total dissolved solids (TDS), total hardness (TH), calcium, magnesium, total alkalinity (TA), carbonate, bicarbonate, sodium, potassium, chloride, sulphate and fluoride. The analyzed parameters were compared with the standard desirable limits prescribed by World Health Organization (WHO), Bureau of Indian Standard (BIS) and Indian Council of Medical Research (ICMR) standards of drinking water quality parameters. For the identification of the highly correlated and interrelated water quality parameters, the correlation coefficients were calculated between different parameters and the t-test was applied for checking significance. The results showed significant variations in water quality parameters in the study areas.

### KEYWORDS

Groundwater; Physio-Chemical; Water Quality; Jind; Safidon; Julana

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