



Analysis of Drinking Water Quality Using Physicochemical Parameters of Timba Mahudi Village of Sajjangarh Block of Banswara District, Rajasthan

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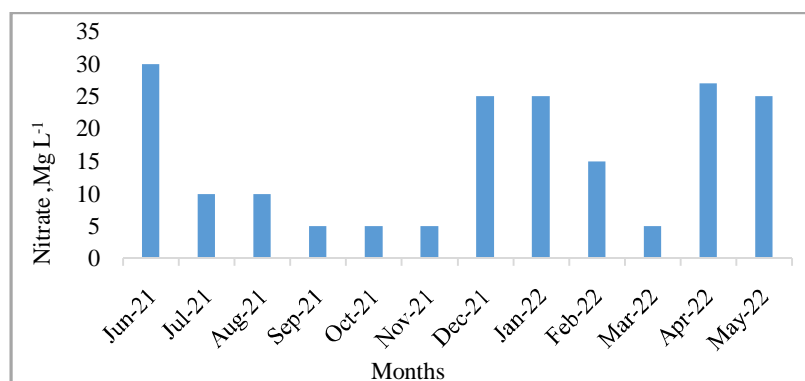
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ABSTRACT

It is the study of the Physico-chemical Parameters of drinking water in the Timba-Mahudi village of Sajjangarh Block of Banswara District, Rajasthan. Groundwater samples were collected from the sampling points in strict accordance with BIS (IS10500:2012) recommendations. In this location drinking water was analyzed for a period of one year from Pre the monsoon period, and the monsoon period, and post-monsoon period. These results demonstrated that drinking water collected from Timba-Mahudi village of Sajjangarh block of Banswara district was unsuitable for human health. Physicochemical analysis shows that fluoride concentration for most of the assessment period exceeds the permissible limits of BIS (IS 10500:2012) and statistical analysis by the use of WQI calculated for selected parameters shows that groundwater is not suitable for drinking purposes. The present research aims to provide information about potable water's physicochemical characteristics and effects to discuss its utility for human consumption.

Graphical Abstract:



Nitrate in drinking water of Timba-Mahudi village of Sajjangarh Tehsil.

Keywords: Groundwater, Physico-chemical analysis, Chloride, Nitrate, Fluoride, TDS, Sajjangarh Block of Banswara.