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## **Study of Fluoride of Ground Water in Southern Rajasthan, India**

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Fluoride is a naturally occurring toxic minerals present in drinking water and study causes dental, skeletal or non-skeletal fluorosis etc. Fluorspar, Cryolite and Fluorapatite are the naturally occurring minerals, from which fluoride finds its path to ground water through infiltration. In the present investigation fluoride were estimated in ground water samples from different districts from southern Rajasthan. The live districts were Udaipur, Dungarpur, Banswara district of southern Rajasthan studied during summer, rainy, winter season (2019-2020). They were analyzed to adopt the standard method of APHA. To estimate the quality of ground water, fluoride was compared with the standard desirable limit of that parameters stipulated for drinking water as prescribed by BIS and WHO. The analysis also reveals high concentration of fluoride than the desirable limit (<0.6mg/L) in Udaipur. The values of fluoride were also found higher in Dungarpur, compared to Banswara and Udaipur. Mostly

cases of fluorosis both of dental and skeletal have clearly observed in Dungarpur. The one way ANOVA test analysis was conducted to determine highly significant value of different districts. All values were found highly significant difference ( $df=4, 835, p<0.001$ ) in districts.

### **Biography**

Chandra Shekhar Kapoor is a researcher at Department of Environmental Sciences, Mohanlal Sukhadia University. His international experience includes various programs, contributions and participation in different countries for diverse fields of study. His research interests reflect in wide range of publications in various national and international journals. He is the Editorial Board Member of several Journals and serves as a member of various associations, apart from being an author for many books. Her Research Interest would be Air Pollution, Air Quality, Atmospheric Pollution, Air Pollution Studies, Aerosol Science, Environment Engineering & Biotechnology, Studies about various kind of pollutants, Water characteristics and remedial measure.

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