



**Assessment of Anionic Concentrations in Industrial Area  
Ground water of Vijayawada, Andhra Pradesh, India**

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**ABSTRACT**

Water is a universal solvent and is the major component of all living things. Living things can't survive without water, and it operates dual behaviour for chemical and biochemical reactivity. The main objective of this work is to assess the water quality in and around the industrial region of Vijayawada. Around 30 samples collected in the Vijayawada industrial region of water. The anions studied in this area are carbonates, bicarbonates, chlorides, sulfates, nitrates and fluoride. The results indicate that the quality of water is decreased due to an increase in industries, increases in domestic waste and unwanted matters are thrown into the water. According to WHO, these results showed that the groundwater is highly contaminated and this causes many health problems to the human beings.

**Graphical Abstract**



Ground water analysis study area

**Keywords:** Anions, contamination, Industrial area, Vijayawada, Water.