

## **WATER QUALITY ASSESSMENT OF WATER TREATMENT PLANTS USED IN KANDHARI BEVERAGES PVT. LTD. SAMBA, JAMMU AND KASHMIR, INDIA**

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### **ABSTRACT**

“Water is life” is such a common expression that we use it almost as a cliché. Almost 71% of our earth is covered by water called as untreated water, and this water is not suitable for drinking purposes. The problem of fresh water deficiency is of worldwide impact. One of the solution to solve this problem is to treat the water by removing various toxic pollutants, contaminants, heavy metals or other organic or inorganic impurities that are present in water. This is done with the help of Water Treatment Plant (WTP). In order to study the Physico-chemical and Biological parameters of water used in the WTP of Kandhari beverages pvt. Ltd., the research work was carried out in which various parameters like pH, TDS, turbidity, total alkalinity, total hardness, free residual chlorine, appearance, odour and taste and other microbiological parameters were studied. These parameters analyzed were found to be mostly within the acceptable limit of water, while some of the parameters were found to be within the permissible limit of water as per the BIS standards followed by the industry.

**KEYWORDS:** Water Treatment Plant, Alkalinity, Hardness, pH, TDS, Hardness

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