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Analysis of Correlation between Chemical Factors of Ashti Lake, Dist. Solapur (M.S.)

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Water, being permissible to many molecules contains various elements in it. During present investigation chemical parameters of Ashti lake, Dist. Solapur (M.S.) were analyzed during March 2019 to February 2020. Ashti lake is the huge water body which supply water to the 22 nearby villages. The study reveals that these chemical parameters are correlated with each other. Further all those parameters are within standard permissible limits of water quality. Results are discussed with recent literature. Keywords- Chemical parameters, Ashti Lake, Correlation

Introduction

Natural water contains many types of the molecules and particles either dissolved or suspended in it. Water is amongst the basic need for being alive due to the fact that almost all cellular activities need water. Hence water

is the prime necessity of all living organisms including human. Natural water is source of drinking water and it is also used in agricultural farms. Potability of water is dependent on the chemical entities present in it, their amount and proportion. Hence it become necessary to study these parameters present in water. In any naturally occurring aquatic ecosystem chemical parameters are correlated with each other (Welch, 1952). Chemical factors and molecules are added into the water bodies from rock, soil, precipitation and anthropogenic activities. These chemical factors are inter-related and they have impact on one another, which eventually have its effect on suitability of water for drinking purpose. This states the importance of comparative study while analyzing chemical nature of water of an aquatic ecosystem (Wetzel, 2001). Though the water is prime necessity of life, even of the human, it is getting polluted day by day. According to Wetzel (2001), freshwaters of the world are facing rapid harmful qualitative and quantitative effects on water. Ingress of unwanted components by natural process and human activities is leading to serious water pollution issues which may end up into huge loss of potable water resources. There is tolerable range of limit regarding water quality parameters within which all living organisms can live; disturbances in these limits may pose serious effects on the liveliness of these organisms (Devenport, 1993).

Many researchers have carried out investigation of chemical parameters of water of various aquatic bodies few of them are Kate et al. (2020), Jadhav and Jadhav (2020), Roy (2018), Mulla and Bhosale (2016), Mane (2013). Present investigation is an attempt to assess the chemical nature of water of Ashti lake by analyzing few chemical parameters and correlation between them.

Material and Methods

Material-

Present investigation is carried out at