

A review on physico-chemical parameter of freshwater

Soumya Bahalia and Debashish tripathy

Department of Zoology, School of Applied Sciences

Centurion University of Technology and Management, Odisha

Corresponding author: debashish.tripathy@cutm.ac.in

Abstract

Water is an important part of all living beings. People depend on water for his all works. Due to increase of population, industrialization, use of fertilizers and manmade activity water is highly polluted. Polluted water causes nuisance, degrades land, aquatic body and also create water borne diseases in human. A good quality of water prevents all problems of animals. It is necessary to know details about different physico chemical parameters such as colour, pH, temperature, electrical conductivity, total carbon dioxide, chloride contents, carbonet contents, bicarbonet contents, total hardness, dissolve oxygen (DO), biological oxygen demand(BOD), chemical oxygen demand(COD), total alkalinity used for testing of water quality. Some water analysis reports with physico-chemical parameters have been given for the exploring parameter study. Guideline of different physico-chemical parameters also have been given for comparing the value of real water.

Keywords: Water, Physico-chemical parameters, Hardness, BOD, COD, DO, Heavy metals.

Introduction

Water is the most vital substance for ecosystem. Without water the life cant survive, In world, about only 1.69% of fresh water available & other is marine water 65% of human body made by water, more than 50% of water cosumed by industrial activity and only a small propation is used for drinking purposes . Good quality of drinking water prevent from discases. Now water pollution is a great problem due to rapid curbanization & industrialization. In the 3rd world countries, 80% off all disease are directly related to polluted water physico chemical quality of water is very important from the health point of view , In present review it is emphasize the various parmeter of drinking water by various agencies,

Material & Methods

Physico-chemical parameter is very important tatest “water before it is used for ,drinking ,domestic, agricultural or industrial purpose, water must be tested with different physico-chemical parameters .Water must be tested with different physico-chemical parameters for different purpose & we need its quality and purity. Water does content different types of floating, dissolved, suspended & microbiological impurities”. Especially water in industrial area is highly polluted with large number of impurities. “It is necessary to know details about different physico-chemical parameters such as color , temperature acidity, hardness PH , sulphate, chloride ,DO , BOD, COD, alkalinity used for testing of water quality,Some physical test should be performed for testing it physical appearance” .Its main purpose to protect aquatic animal & other animal from polluted water

Study area

The study area is Kalinga Nagar industrial area located at 20degree57- 21degree3 N latitude & 85degree 59- 86degree5 E Longitude near Duburi and bank of Bramhani river. It is a renowned mining area of Jajpur District Odisha. This area is promotion the steel production in the north eastern Odisha in India, these industries used water for different purpose from Bramhani river