

Abstract

Physico-chemical analysis of the ground water collected from the Bharuch district of Gujarat with respect to three different seasons such as Winter, Summer and Monsoon. Two talukas such as Ankleshwar and Bharuch of Bharuch district, (Gujarat) were selected for the measurement of physico-chemical parameters such as concentration of different ions like chloride, fluoride, nitrate, calcium, sulphate and magnesium, pH, Chemical oxygen demand (COD), Biological oxygen demand (BOD), total alkalinity, dissolved oxygen (DO), total dissolved solid (TDS). Analysis was done for Ankleshwar and Bharuch Taluka of Bharuch district, Gujarat with 15 different stations from each taluka. All the parameters measured were compared with the standard value for the potable water and our objective to do this is to make peoples of these regions aware in terms of quality of water they are using. Also, they will be able to do needful work to improve the quality of water. This presented doctoral thesis is also very useful for the researchers for enhancing their research work and also for the peoples who want to check the quality of potable water.

In the present work there are thirty different station from the two taluka of Bharuch district were selected as given below:

1. ANKLESHWAR TALUKA:

SARTHAN, TELVA, PILUDRA, UMARWADA, JETALI, PIPROD, AVADAR, PARDI MOKHA, SANGPOR, KOSAMADI, PANOLI, KHAROD, MOTALI, ANDALA AND UTIYADARA

2. BHARUCH TALUKA:

ADOL, AMDADA, AMLESHWAR, BAMBUSAR, BHUVA, CHOLAD, DABHALI, GHODI, HALDAR, KARELA, KELOD, OSARA, SAMLOD, SEGVA AND SHAHPURA