

GIS Based Assessment of Groundwater Quality in Coimbatore District, India

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Abstract

Coimbatore city also known as Manchester of Tamil Nadu, is an industrial city. The study area is facing the problem of groundwater depletion and the quality is deteriorated to a greater extent. In this study, the quality of groundwater for its suitability for drinking and irrigational purposes was assessed by its hydro chemical parameters. Seventy eight groundwater samples were collected within the study area during post monsoon season of the year 2011. The samples were tested for the physical and chemical parameters. Geographic Information System (GIS) based analysis has been carried out to find out the quality of groundwater for drinking and irrigational purposes. Potassium concentration is found to exceed the maximum allowable limits in 62.82% of samples. Sulphate (SO_4) concentration of all the samples was found to be within allowable limits. Based on the study, it was found that most of the samples are suitable for irrigation purpose.

Keywords: Groundwater; Coimbatore district; Hydrochemical; Irrigation; SAR.

Introduction

Groundwater is being used for various purposes like drinking, washing, irrigating etc. Knowing the quality of groundwater is important to determine the suitability of water for various purposes. Variation of groundwater quality in an area is a function of physical and chemical parameters that are greatly influenced by geological formations and anthropogenic activities [1]. Suitability of groundwater for domestic and irrigation purposes is determined by its geochemical constituents. Subsurface rock formations control the composition of soil and hence that of water and vegetation. Groundwater geochemistry explains links between the chemical composition of groundwater and the health of plants, animals and people [2]. Decrease in soil fertility and the groundwater contamination is due to use of waste water for agricultural purposes without treatment [3]. Geographic Information System has been used to represent and understand the various geochemical elements in Panvel Basin, Maharashtra, India [4]. Correlation matrixes were prepared for the relationship between physical and chemical parameters of groundwater [5]. The suitability of water in Podunagaram, Palakkad district for irrigation was determined by Sathish kumar et al. [6] and they concluded that the water is suitable for drinking and irrigation use. Haritash et al. [7] studied the water quality of Ganga in Rishikesh and concluded that regular monitoring of the quality is essential.

Loganwamy et al. [8] assessed the quality of groundwater in Kavandampalayam region in Coimbatore district and concluded that groundwater quality varied drastically. Sundar et al. [9] studied the groundwater quality along Noyyal River in Coimbatore district and concluded that the studied parameters were above the standards. An attempt has been made to determine the suitability of groundwater in Coimbatore district for different purposes. The groundwater quality of the Singanallur sub-basin have been analysed by Priya et al. [10] to check its suitability for drinking, irrigation as well as domestic usage. It was concluded that the Singanallur tank water was of bad quality because of the discharge of domestic sewage. The seasonal variations in the groundwater quality of Coimbatore city during the year 2011 are analysed during pre-monsoon and post-monsoon periods using Geographic Information System (GIS) by Jebastina et al. [11]. Based on the water quality index, the samples were categorized as excellent, good,

poor, very poor and unsuitable. Multivariate statistical analysis, cluster analysis and Principal component analysis were performed by Jebastina et al. [12] on water quality data of twenty seven samples collected within Coimbatore district. The possible factors which cause contamination are identified. Water quality index has been calculated by Priya et al. [13] for the Singanallur sub-basin and the entire sub-basin was zoned to study the suitability of water for drinking purposes using the software ArcGIS and the results showed that the groundwater quality was unfit for drinking in some of the areas scoring a water quality index greater than 100.

The objectives of the present study is

- i. To determine the hydrochemistry of the groundwater samples within the study area
- ii. To determine the suitability of groundwater for drinking purpose using GIS
- iii. To determine the suitability of groundwater for irrigational purpose using GIS

Materials and Methods

Study area

Coimbatore district lies between 10°10'N and 11°30'N latitude and 76°40'E and 77°30'E longitude. The type of groundwater in the district is CaCl_2 , NaCl , Ca-HCO_3 . The chemical constituents more than permissible limit in groundwater are Total Hardness as CaCO_3 , NO_3 , F and SO_4 . The major issues related to groundwater resources in the district are (i) Declining groundwater level and drying of shallow wells (ii) Incidence of fluoride in groundwater (iii) Local pollution of surface

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to the texts of Anthropology Therefore deliberations in this Congress will contribute to the processes of Peace and Development of human society at different levels The proposed World Anthropology Congress 2023 will continue this line of enquiry by playing a crucial role in creating a more contemporary and relevant debate on indigeneity social justice and global peace

Fluvial Systems in the Anthropocene Aznarul Islam,Prakriti Das,Sandipan Ghosh,Abarna Mukhopadhyay,Ayan Das Gupta,Arun Kumar Singh,2022-11-05 This book addresses the various factors affecting fluvial systems the processes governing them system responses arising from human nature interventions and geospatial and geo ecological modeling to understand system behaviour better and restore degraded ecosystems around the globe Thanks to their hydrological and agro ecological advantages humans have settled along riverbanks since the dawn of civilization Thus the ancient ecumene settlements were located near major rivers worldwide This legacy of river based civilizations continues to this day in many forms However in the course of the Anthropocene era countless fluvial systems have been altered by human interventions in the form of large scale dams and barrages changes in land use and land cover road stream crossings mining of sand and gravel mushrooming of brickfield expansion of modern agriculture industrial growth and urbanization Thus the present day development pattern threatens fluvial systems especially riverine morphology and ecosystems In brief human induced morphological changes water pollution eutrophication and related damages to aquatic organisms are the major threats to fluvial systems Thus maintaining the environmental flow of the world s major rivers to preserve the proper functioning of riverine ecosystems and promote sustainable development is a global challenge

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