



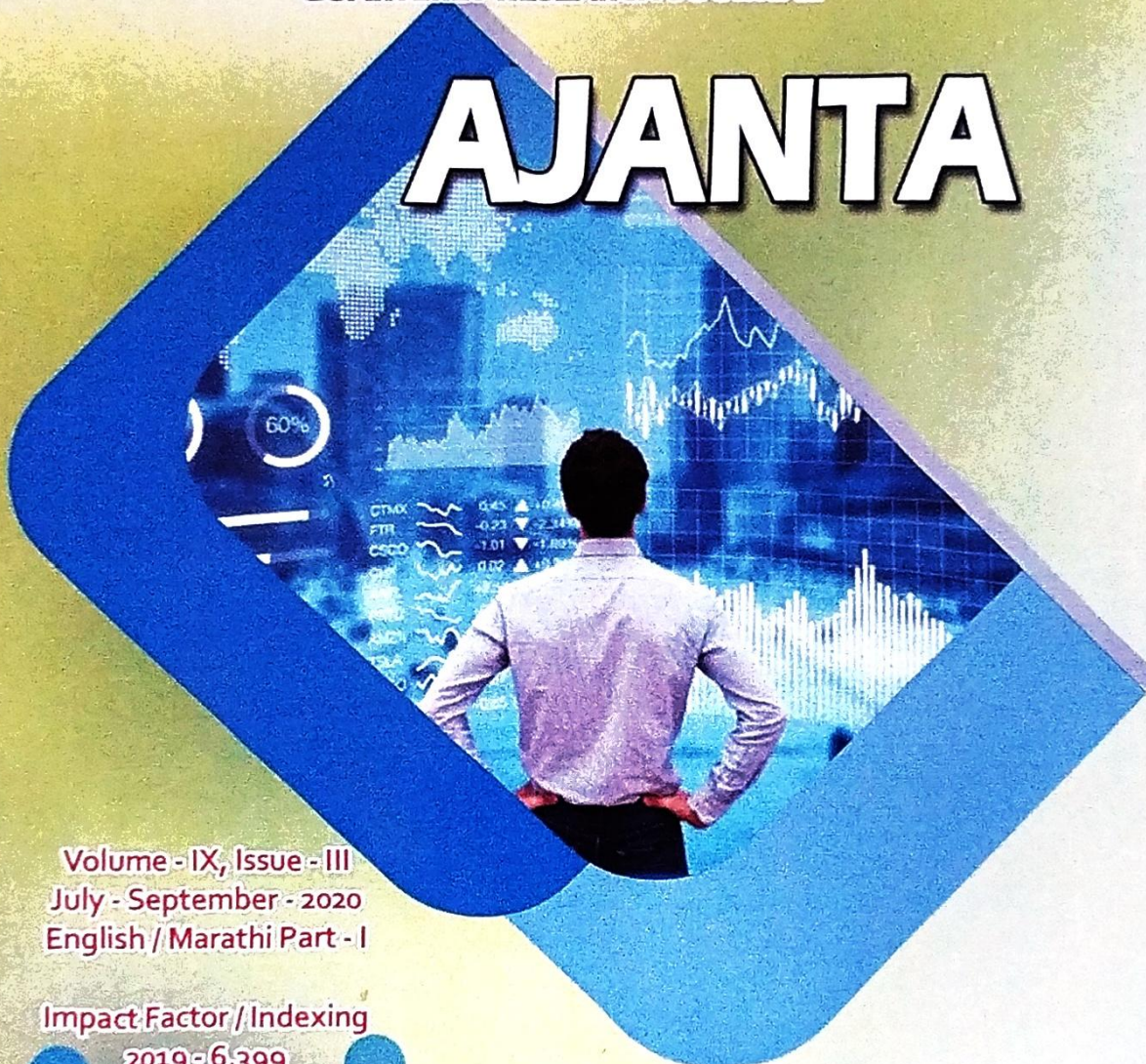
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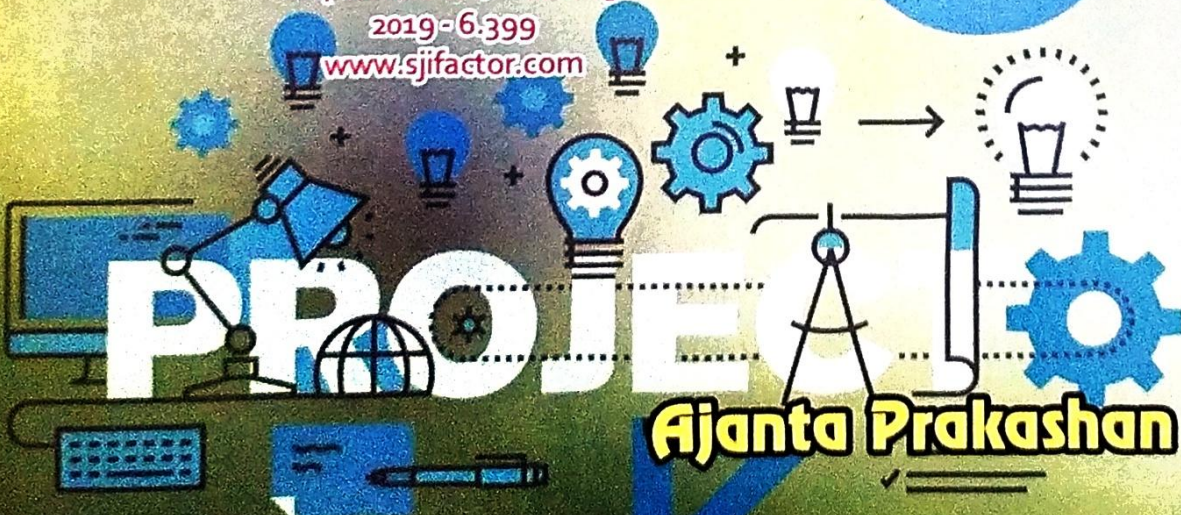
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25. Heavy Metals Present in Groundwater Samples of Selu City, Dist. Parbhani

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Abstract

Determination of heavy metal concentration of selected Fifteen sites from Selu City of Parbhani district was carried out. Heavy metals were estimated by Atomic Absorption spectrophotometer, and out come of the results were discussed in the light of pollution status of the study area.

Keywords : Heavy Metals Groundwater; Selu

Introduction

Sailu is considered to be the oldest and religious city in parbhani district of Marathwada region in Maharashtra, Sailu city is situated near Dudhana river. A Femous Temple of "Keshavraj Babasaheb Maharaj" is situated in middle of selu. Who was Guru of Shirdis Sai baba.

The residents of Sailu tehsil usually use water form bore-well for drinking and domestic purposes. There is a huge variation in the concentration of dirrent species due to factors like depth, diffrent land, under groundwater conditions, rain conditions etc. The present work attempts to evaluate the quality of groundwater in selu of Parbhani district for potability.

Material Used

In the Present study Fifteen groundwater (borewell) samples were collected from diffrent sites of Selu tehsil in brown glass bottles with necessary precautions and preserved as per the recommended procedures.¹ All the Chemicals, used were of AR grade, Glass ware used were of 'A' grade. Double distilled water was used through out the work to prepare standard solution.²

Methods

Exactly 500 ml of each water sample was taken in clean, dry separating funnel. Exactly 25 ml of Isobutylmethylketone (IBMK) and 2 ml of Ammoniumpyrolidinedithiocarbamate (APDC3) were added. The solution was shaken well, for 20 minutes and allowed for separation of organic and aqueous layer. Aqueous layer was discarded out. To the organic layer, 1ml of 50% HNO₃ was added and allowed to settle and further the aqueous layer was collected and